



NORTHCLIFFE

MAKING LIFE BRIGHTER

2016-2017

NORTHCLIFFE

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NORTHCLIFFE LIGHTING was established in 1993 with the business units in UK, Lithuania, Russia and Ukraine and since then it has become one of the largest independent lighting manufacturers in Central and Eastern Europe. The company has achieved rapid growth over the last 20 years and currently production capacity reaches 3.5 million light fixtures per year.

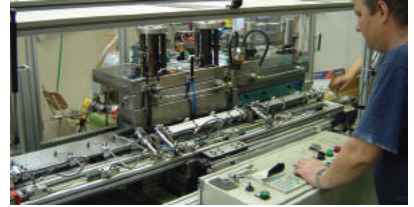
All our products are made using high quality components from reputable European suppliers. Northcliffe utilizes the most advanced technologies, some of them are unique and patented, to produce low weight and slim light fixtures for easy installation, as well as for efficient storage and transportation.

Our current product range includes recessed, surface-mounted and suspended modular louvre luminaires, as well as water-proof IP65 light fixtures, battens, downlights, floodlights and many others. Northcliffe light fixtures can be factory-fitted with emergency packs, dimmable or DALI drivers, offered with glossy, mat or MIRO reflectors, various types of connectors and plugs to suit specific requirements of any market.

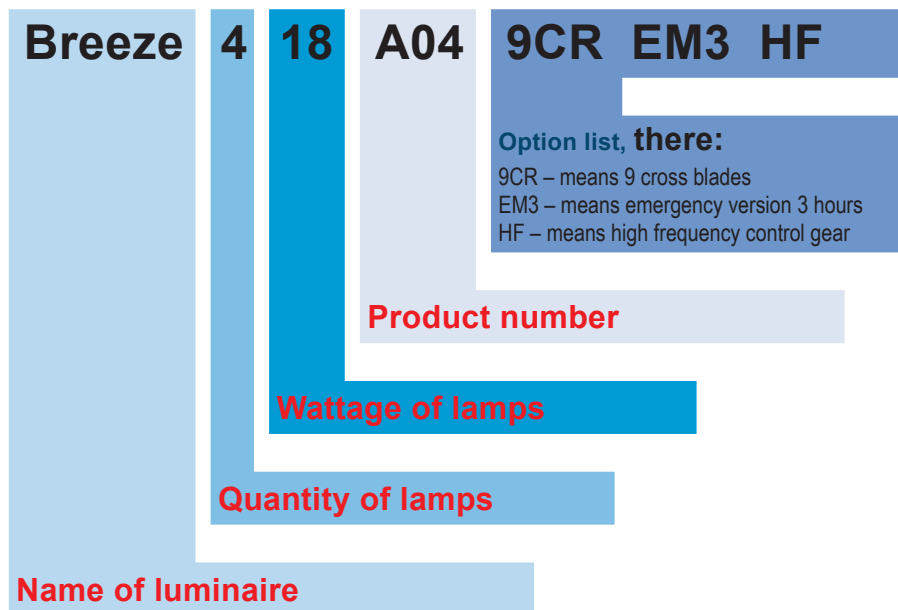
NORTHCLIFFE LIGHTING has accreditation for **ISO 9001:2008** Quality Assurance Standards- a comprehensive evaluation that is concerned not just with quality, but with every aspect of company operations. It is a key feature of our constant effort to maintain exceptional standards of quality and service. 100% of our products are individually tested before leaving our factories and comply with CE, ROHS standards and requirements.

To make it more convenient for our potential customers to make choice we show the most demanded products, which best represent NORTHCLIFFE strong ability to offer high quality products at very competitive prices. We believe that this catalogue will help you to find solutions to reach your goals and make NORTHCLIFFE your reliable business partner for the future.

For further and most up-to-date information please visit www.northcliffe.org or send us an email to info@northcliffe.org



HOW TO USE THIS CATALOGUE?



Illustrations

Pictures of fitting and options, markings

Product description

luminaire parts, their materials, packaging and applications

Product table

basic information of the products: names, lamp types and sockets, dimensions, weights and wattages

Option list

modifications of the luminaire

Photometric data

light characteristics of the product or range of products

BREEZE T5/T8

Recessed Luminaire with Specular Parabolic Louvre and Mirror Cross Blades



BREEZE 414 F41



BREEZE 414 F41 9CR



BREEZE 236 B35 HF



BREEZE 435 C45 HF



BREEZE 418 A04 11CR HF



BREEZE 418 A04 RB

- Type:** A versatile recessed T5/T8 luminaire with a choice of glossy or ribbed cross blades for the majority of applications. Premium quality at competitive prices.
- Specification:** There are two types of louvres in the range: specular parabolic with mirror cross blades and with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Number of cross blades is optional from 5 to 11 for better glare protection. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Fits 15-24mm exposed T-Bar ceiling 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use recessed mounting kit SR20x620 (to be ordered separately).
- Application:** Indoor. Office buildings, shops and other commercial environments.



To fit plasterboard and/or 625x25mm suspended ceiling (German market), it is recommended to use recessed mounting kit SR20x620 (to be ordered separately).

HOW TO USE CATALOGUE FOR LED RANGE?

BARAT LED

2x

2700

E010

T840

**PC/PC
OP LT**

Option list, there:
PC/PC – Body and diffuser made of polycarbonate plastic
OP – opalized diffuser

T8 – **Color rendering:** Ra>80 %
40 – **Color temperature:** 4000K

Product number

Luminous flux: rounded lumen output out of luminaire/per module (2700 lm)

Quantity of modules

Name of luminaire

Illustrations

Pictures of fitting and options, markings

Product description

luminaire parts, their materials, packaging and applications

Product table

basic information of the products: names, lamp types and sockets, dimensions, weights and wattages

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BARAT LED

IP66 for High Impact Resistance with Opalised Diffuser

IP66
LED
UL
V
IK
08





Type: Dust and moisture proof IP66 LED fixture for high impact resistance.

Specification: Opal UV stabilized K08 polycarbonate diffuser. White powder coated gear tray. Injection moulded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many other commercial applications.



Diffuser retaining clips made of stainless steel available on request. See option list.
IC – Stainless steel clips

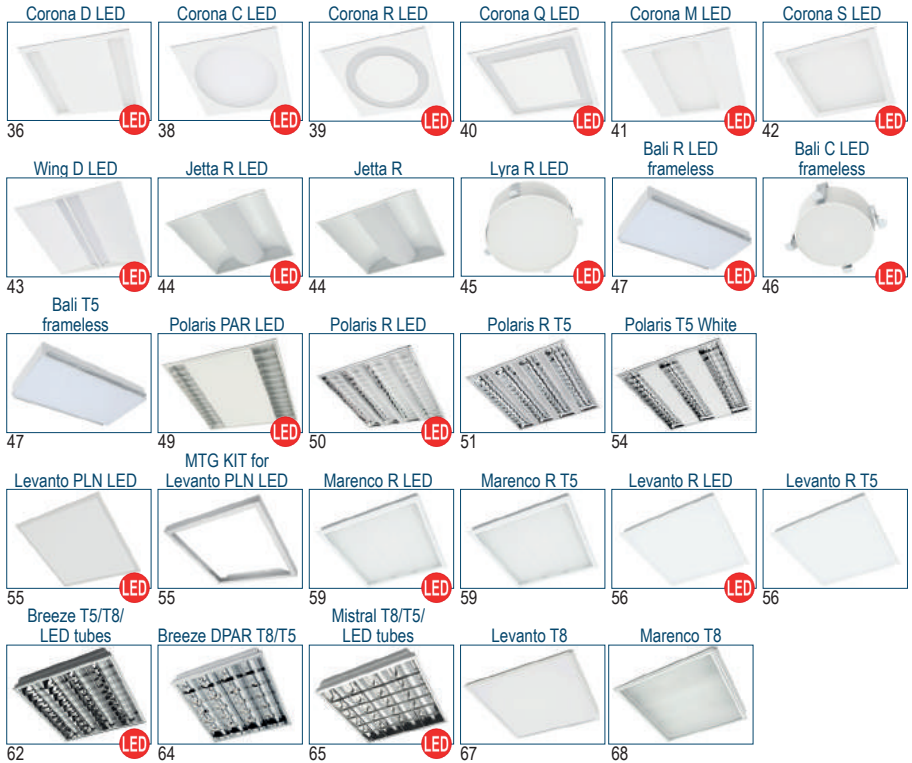


Sealing washer and accessories for chain and wire suspension.

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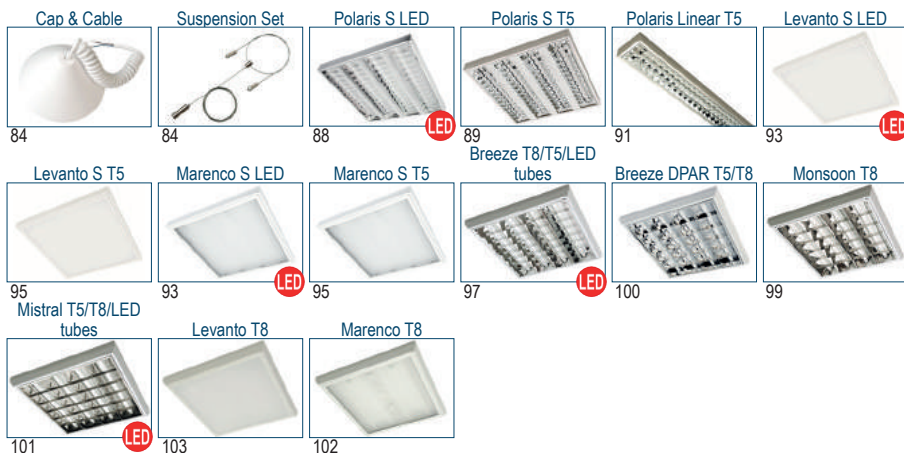
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Recessed luminaires



Surface and Suspended Luminaires

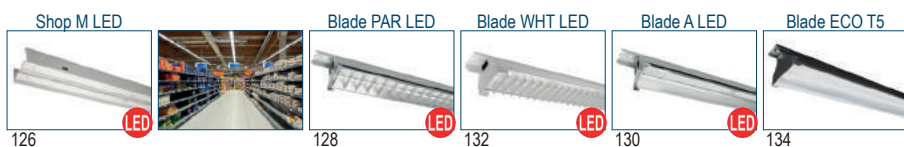




Aluminium Profile Luminaires



Continuous line and batten luminaires

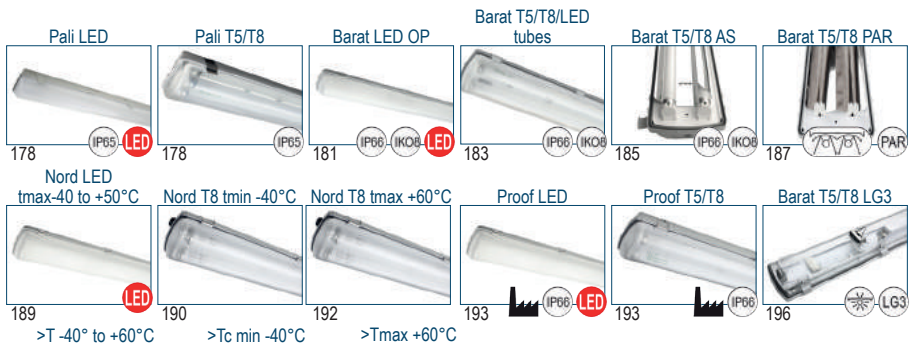


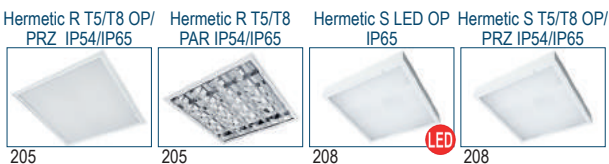
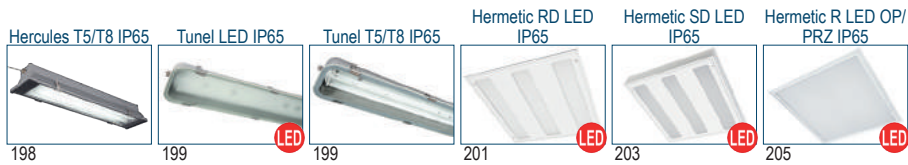


Diffuser and Wall Luminaires



Waterproof and Cleanroom Luminaires

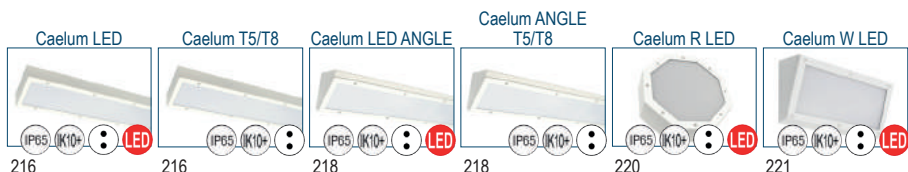




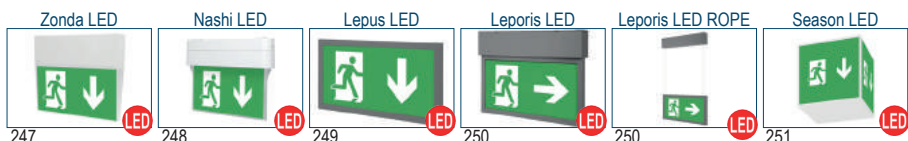
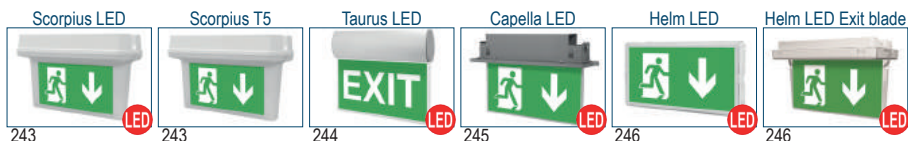
Explosion-proof luminaires



Anti-vandal luminaires



Emergency Lighting



Spotlights





Downlights



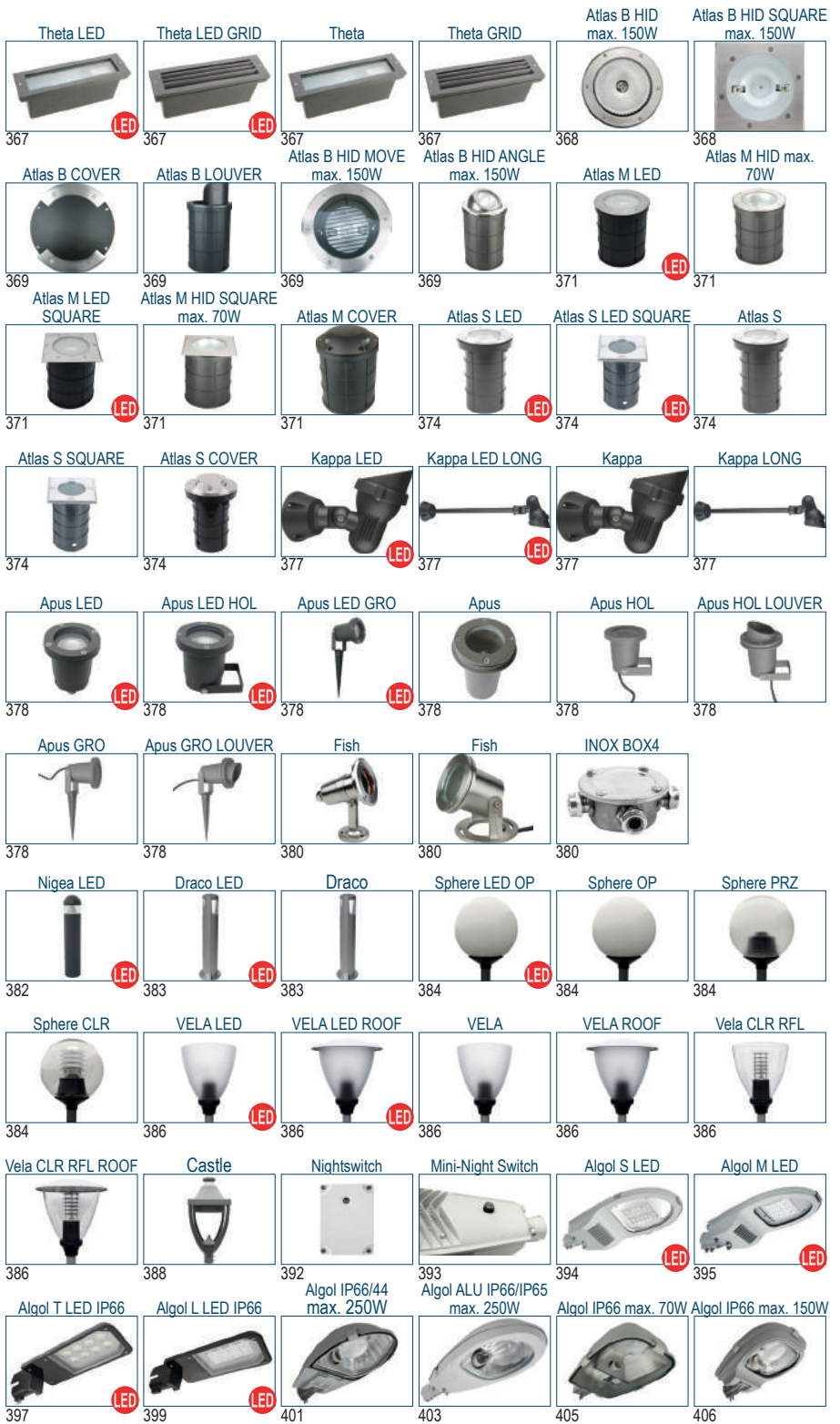
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DISCLAIMER: All the information given in this Catalogue is the result of our research work experience. It is given in good faith and with every belief in its accuracy but cannot be considered as a formal warranty. In accordance with NORTHCLIFFE LIGHTING, policy of product development, this information is subject to change without notice. All Northcliffe luminaires are supplied without lamps or tubes.

Certificates:

ISO 9001

UAB Northcliffe lighting has accreditation for **ISO 9001** Quality Assurance Standards - a comprehensive evaluation that is concerned not just with quality, but with every aspect of company operations. It is a key feature of our constant effort to maintain exceptional standards of quality and service.



The production and products are tested by "CERTIFICATION CENTER OF ELECTROTECHNICAL PRODUCTS" (UAB "ELEKTROTECHNINIŲ GAMINIŲ SERTIFIKAVIMO CENTRAS" (EGSC)), as a sign of products conformity with EU norms.

In November 1995 EGSC was accredited by Lithuanian National Accreditation Bureau to carry out certification of electro technical products, and EGSC Testing center – to carry out testing of electro technical products.

Certificates of Conformity and testing results given out by EGSC are admitted in the European Union, as EGSC participates in work of **CCA**, **CENELEC**, cooperates with Lithuanian and foreign conformity assessment bodies as well as with testing laboratories.

From 2004 EGSC is also a Notified Body under Low Voltage Directive (73/23/EEC and Amendment 96/68/EEC) on the harmonization of the laws of Member States relating to electrical equipment designed (from 2007-01-16 validity 2006/95/EC) for usage within certain voltage limits.



CE marking indicates that the products are in conformity with the provisions of the following EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation:

2006/95/EC Low voltage Directive

2004/108/EC Electromagnetic Compatibility Directive

96/57/EEC Energy Efficiency Directive

The standards referenced below have been applied:

LST EN 60598-1, **LST EN 60598-2-1**, **LST EN 60598-2-2**, **LST EN 60598-2-5**,

LST EN 60598-2-22, **LST EN 1838:2005**, **LST EN 61347-1:2003**,

LST EN 61347-2-3:2002, **LST EN 61347-2-7:2002**

RoHS

The products are in conformity with the provisions of the following EC Directive(s):

2002/95/EC EC Directive 2002/95/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)



Certificates of Conformity to GOST standards are given out by the certification center of lighting and electrical equipment DNO "CvetoC" according to EMC electrical equipment testing laboratory IL "EP EMC" reports.

The products are in conformity with provisions of the following GOST P standards:

GOST P 60598-1-2003

GOST P 60598-2-1-97

GOST P 60598-2-2-99

GOST P 60598-2-22-99

And EMC:

GOST P 51318.15-99, **GOST P 51514-99**,

GOST P 51317.3.2-99, **GOST P 51317.3.3-99**

Products marking should be done according to the requirements of GOST P 50460-2 standards.



Our PARTNERS

The components used in *NORTHCLIFFE* light fixtures are of the highest quality from the world's leading manufacturers:

- Anodized aluminum from *ALANOD*, Germany



- Ballasts from *HELVAR*, Finland



- Capacitors from *ELECTRONICON*, Germany



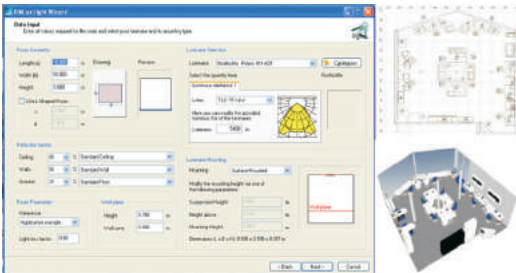
- Lamp and starter holders, terminal blocks from *AAG STUCCHI*, Italy



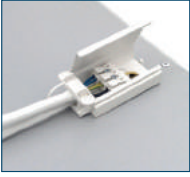
- Starters and tubes from *OSRAM*, Germany



Photometric data for Northcliffe light fixtures can be downloaded from our website www.northcliffe.org



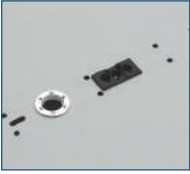
Sophisticated solutions:



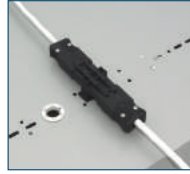
Encased push-in type terminal for quick connection



PLUG – fitting with an outgoing flexible cable and plug



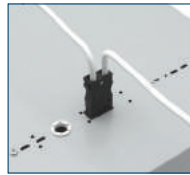
WIE – 3-poles connector (subject to minimum order)



WIESET3m/5m – Wieland type recessed outlet fitted with 3 or 5m flexible cable with male/female type connectors at the ends and T-type connector



“T” type connector



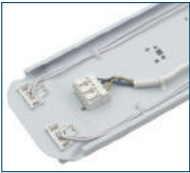
QCK – Wieland recessed outlet fitted with push-in type connector for two 3×2,5 mm² cables



CON-3 poles connector (please indicate connector type (male or female) and wire length placing order)



CON5 – 5-poles connector (please indicate connector type (male or female) and wire length placing order)



1LIN – through wiring 3×1.5 mm² with two push-in terminal blocks (or 1LIN2,5 – through wiring 3×2.5 mm²)



3LIN – through wiring 5×1.5 mm² with two push-in terminal blocks (or 3LIN2,5 – through wiring 5×2.5 mm²)



SW – security wire 1.5 m length can be delivered mounted on the back side of the fixture can be delivered. The length of wire should be specified placing order.



FILM – plastic protection film to save reflector from the dust during construction of the building



DLIGHT – daylight dimming detector for simple setting of constant light level



SENSE – Minisensor with constant light sensor, IR receiver and PIR detector allows advanced lighting control features. Has 6 out-of box application modes.



SGEAR – quick installation independent gear box

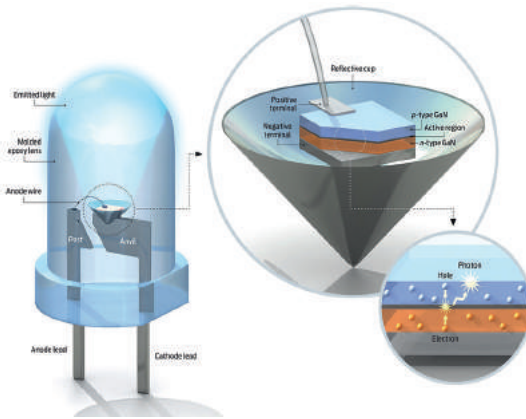
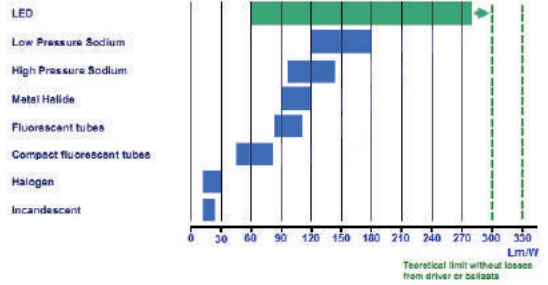


SPORT – white painted protection grid for sport halls (available on request for surface and suspended type 2×36, 2×58 and 4×18 type fixtures)

LED is the technology of the future

LED (Light-emitting diode) technology is becoming more and more important in the world market of illumination, thanks to the numerous features which make it superior to other traditional light sources allowing savings of up to 80% of electricity for the same amount of emitted light. The luminous efficiency of LEDs continues to reach higher values and already theoretical border of 300 Lumens per Watt is reached in laboratory conditions. LED are semi-conductor diodes which, when electricity passes through them, emit a monochromatic light. The color of the light depends on the type of impurity purposely inserted into the chip.

Efficiency table of different light sources



A fundamental feature of LED is their long life as they can work up to 100 000 hours as long as two fundamental requisites are respected: work temperature and voltage. LED technology also offers other advantages:

- high mechanical resistance to stress and vibrations
- working in safe low voltage
- very high brightness efficiency and ongoing development
- extremely versatile in design and making of illuminating bodies
- no UV and IR emissions

Using LED technology substantial savings in electrical energy can be made for the similar amount of emitted light from other sources.

Life testing results in laboratory proves savings in energy consumption switching from traditional lighting sources to LED technology.

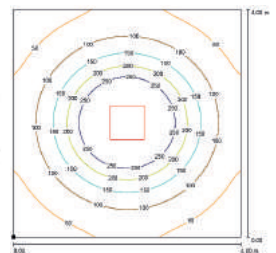
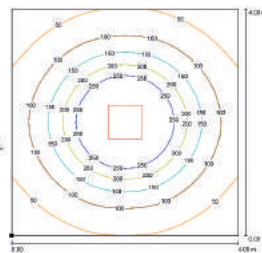


T8 Luminaire 4x18W with magnetic ballasts **86–90 W**



LED luminaire **33–34 W**

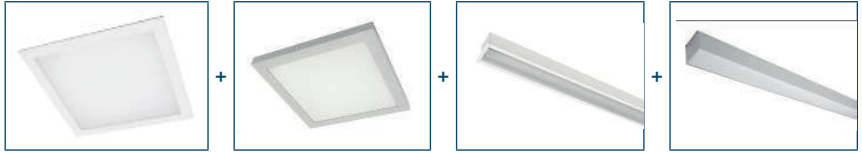
* – up to 15–17 EUR can be saved every year, if used 8 hours per day (based on 0,12 EUR/kWh)



We now have available LED products for the following lighting applications, and other products may be available with an LED option on request. Visit www.northcliffe.org or mail info@northcliffe.org.

Application areas

Recessed&Surface LED fittings: for office and commercial buildings



Downlight LED fittings: for shops, interiors, corridors, receptions and others public areas



Emergency LED lighting: for information purposes when electricity supply fails



Waterproof luminaires: for environments subject to high humidity and excessive dust



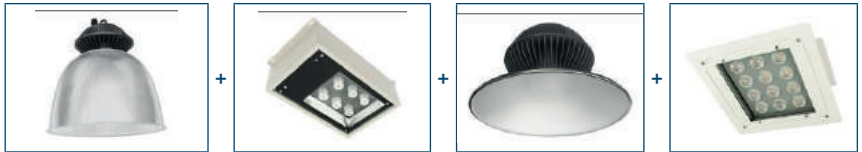
Spot LED luminaires: for display lighting, show rooms and exhibitions



Plastic LED luminaires: for hospitals, colleges and other similar institutions



Low bays LED luminaires: trade centers, shops and other commercial applications



Floodlighting LED: for building facades and perimeters, billboards, car parks, etc.



Park and Street luminaires: for parks, path and side walks, roads, residential areas.



Illumination control systems

Light plays a huge role in today's world and it goes far beyond the limits of simple illumination. However, it seems rather difficult to control such miracles as multifunctional illumination or light atmosphere changes in accordance with the situation. This problem could be solved by implementation of an illumination control system. Northcliffe offers illumination control systems, designed and developed by the leading European company Helvar.

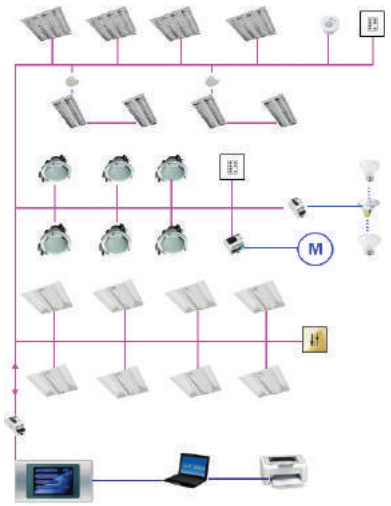
Illumination control system unites all the light sources in the building and gives an opportunity to control each of them individually from any location. Such system allows controlling illumination as much as possible, starting from illumination control in one room and extending to its control in as many premises as necessary, even having difficult configurations.

Illumination control system could be integrated into the general control scheme of other components, such as an alarm system, media etc., in such way improving the efficiency of service.

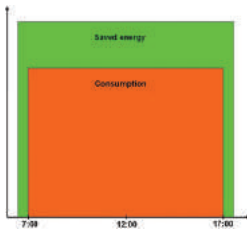
The cost-effectiveness and possibility of illumination sources self-adjustments seems to be one more obvious benefit of the system.

The range of illumination control systems is quite wide. The simplest one is a standard combination of several light scenarios, preprogrammed in the central control unit. This option is the best solution for small premises, such as cafes, separate rooms in the apartments, cottages, offices, director's rooms, presentation rooms, bars, saunas, restaurants, cinemas, boutiques etc.

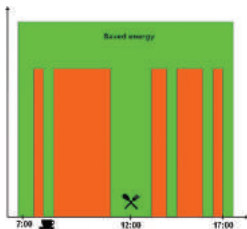
Upon the requests of a client, the system could be adjusted to a more sophisticated one. In such case, a special illumination design is drawn. Such individual complex designs are realized through the adoption of multiple control units corresponding between each other. The more difficult project is, the easier solution with the help of illumination control system can be provided.



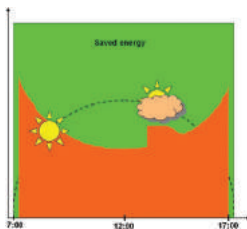
Energy savings with illumination control systems



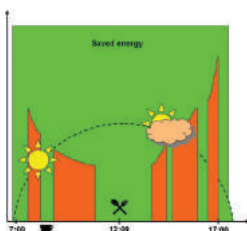
T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast



T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast + PIR function (presence detection)



T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast + Daylight function added (natural light detection)



T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast + PIR function (presence detection) + Daylight function added (natural light detection)

Lighting system components



The *SENSE* allows advanced lighting control features from a minimal package. Three inbuilt sensors create opportunity for energy saving. Flexible smart control of up to 4 digitally controllable (DALI) ballasts.

- Constant light sensor
- Presence detector
- IR receiver

Constant light measuring range 100–1500 Lux. Presence detector reception area 4.5×3 m, mounting height 3 m.



MIMO3 is a cylindrical light sensor that can be fitted into a luminaire casing. By using T5 or T8 mounting brackets sensor can also be retrofitted to existing luminaries. *MIMO3* is connected directly to the control input of electronic controllable ballast (1–10 V).

- Simple setting of the constant light level
- Start up at full level
- Controls up to 15 (DIM 1–10 V) ballasts
- Supply voltage derived from the ballast

Constant light measuring range 200–600 Lux.



Modular ballast controller offers (1–10 V) ballast control together with a mains power switch. The *TK4* is designed to compliment the DIGIDIM panel range and offers the same flexibility that the modular concept provides, which allows any mix of *TK4* and DIGIDIM control panels.

- High power mains switch
- Easy to use slider control
- Switch on to last level



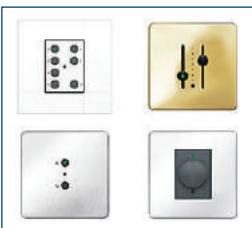
Remote 304 is a handheld unit that can be used to control basic system functions as on/off, increasing and decreasing the general light level and the section of four scenes. Could be used for simple systems programming.

- Operating range is 5 meters.



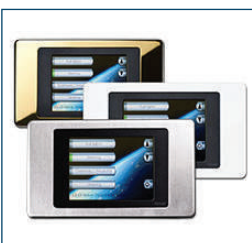
The *Multisensor* is a compact unit containing the necessary sensors to provide energy saving functions. It has a constant light sensor, passive infrared detector (PIR) and infrared receiver for the Infrared Remote. The Multisensor is designed to push fit into a ceiling or luminaire housing.

- DALI consumption: 15 mA
- Constant light reception area: 100° (40° restrictor)
- PIR detector area: 85°



Modular control panels are a fully DALI compatible range of user interface that allow basic adjustments to the system. The range includes a pushbutton, rotary and slider controls in a range of panel finishes.

- DALI consumption: 10 mA



LCD touch panel. The most commonly used interface in a lighting control system are *control panels*. A range of decorative face plates to suit every different decor and scenario. The control panels allow a user designing, programming and controlling the system by recalling the scenes at the touch of a button.

- DALI system control
- Astronomic real time clock
- Sequences and cycles
- Infrared control
- Users selectable graphics and languages



The *DIGIDIM Router* uses standard Ethernet communication to combine multiple DALI networks. The router features two DALI universes allowing for a total of 128 control devices and load interfaces.

- Two DALI subnets with 250 mA power supply
- Distributed intelligence
- Ethernet port for network backbone
- OPC interface to link to Building management Systems



Wall mounted dimmer for use in a DIGIDIM lighting control system. Suitable for tungsten, halogen, low voltage tungsten or neon loads. Different power dimmers available such as 16A, 25A or 8x5A.

- Stabilized output.
- Over temperature protection.



DIN rail dimmer for use in a DIGIDIM lighting control system. Suitable for tungsten, halogen, low voltage tungsten or neon loads. Different power dimmers available such as 500 W and 1000 W. No programming required when using DIGIDIM slider, rotary, or push button panels.

- Stabilized output.
- Over temperature protection.



Blinds controller designed for control of blinds and curtains. Two independent control channels each with two single pole, volt free contacts for switching up/down or power/direction motors. Programmable “blind travel time”.

- Status LED
- “Break before Make” operation to prevent motor damage.



Relay unit designed to allow control of non-dimmable loads. Unit is DIN-rail mounted, can have 4 or 8 channels, each channel individually programmable.

- Status LED.
 - Manual override.
- Relay loads 10A (resistive), 8A (incandescent), 5A (inductive).



Fully DALI compatible *Power supply unit* designed to provide a DIGIDIM system with the required supply of up to 250 mA. DIN-rail mounted.

- Status LED.
- DALI short circuit and over temperature protected



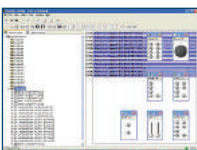
Input unit is a fully DALI compatible interface, designed to allow customer specified switches, sensors, time clocks or other on/off control devices to be incorporated into a DIGIDIM lighting control system.

- Status LED
- Can be used with momentary or latching switches.



AV-Interface is a DIN-rail mounted unit that permits the connection of a DIGIDIM system to personal computer/AV system.

- Status LED
- Terminal blocks for wiring.

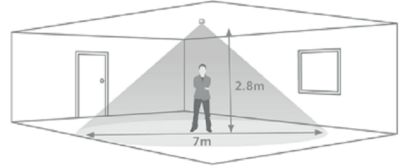


The DIGIDIM *Toolbox software Package* is a complete Windows® based application for designing, programming and maintaining a DIGIDIM lighting control system.

Detector PIR 311

The 311 is a compact PIR detector for flush ceiling mounting. Having a detection field of 7 m at a mounting height of 2.8 m, this sensor is ideal where automatic turning on when a room is occupied, and off when the room is vacated.

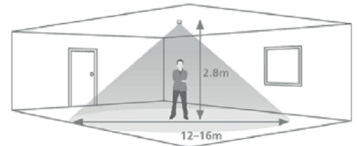
- IR Receiver receives programming commands from the 307 infrared handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



Detector MW 313

The 313 detects movement using a highly sensitive ceiling mounted microwave detector. It works by emitting low-power microwave signals and measuring the reflections as the signal bounces off moving objects. The 313 has a circular detection field with a diameter of 12m – 16m at a mounting height of 2.8m. With this coverage area, it can be seen that a single 313 sensor can be used to control lighting over a much larger area, reducing the number of sensors required in, for instance, an open plan office area.

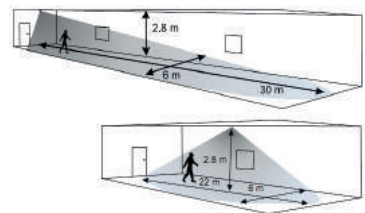
- IR Receiver receives control and programming commands from a 307 IR (infrared) handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



Detector MW 314

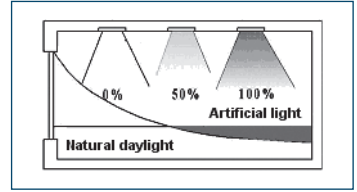
The 314 is also a microwave detector. Again, it works by emitting low-power microwave signals and measuring the reflections as the signal bounces off moving objects. However the detection field for this device is a long narrow beam for use in corridors and aisle ways. The sensor can detect movement up to 30 m range.

- IR Receiver receives control and programming commands from a 307 IR (infrared) handset (available separately).
- Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.

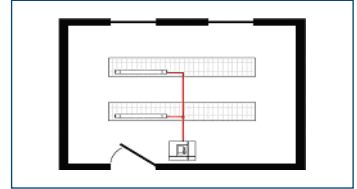


Simple solutions

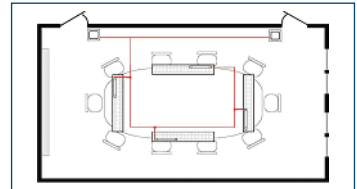
Simple classroom solution. Keeps constant light level combining daylight and artificial light. Using **Mimo3** sensor and controllable (**DIM**) ballasts, fittings could be arranged in groups or act as individual units depending on illumination requirements. Substantial savings could be achieved.



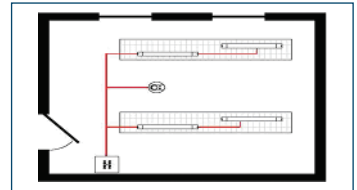
Simple office solution. Light level adjusted manually using **TK4** (switch+dim) panel and controllable (**DIM**) ballasts. Dimming of the fluorescent lamps down to 1% can be achieved using **TK4**.



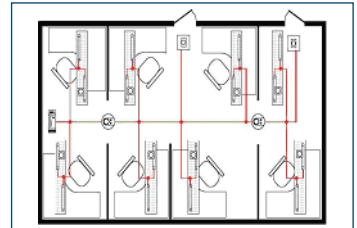
Cost effective meeting room. Luminaires fitted with controllable (**DIM**) ballasts combined with one or more **momentary switches**. Quick push of the button toggles lights on and off, and long press fades the lamps up or down. Solution allows multiple control points by simply connecting switches in parallel.

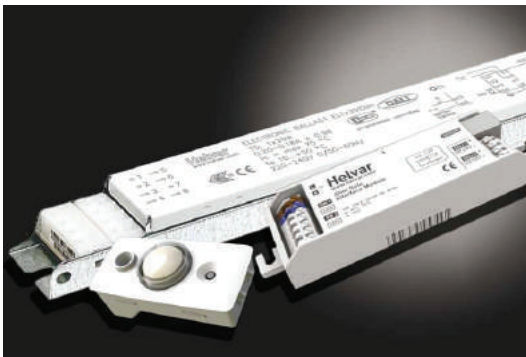
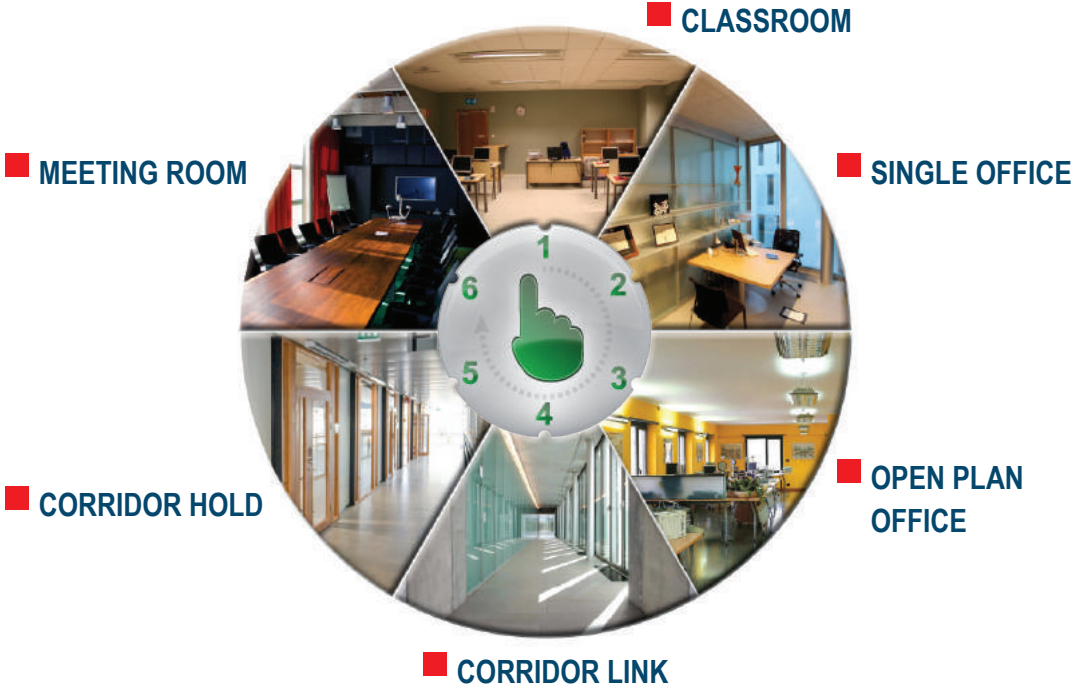


Efficient office solution. Luminaries fitted with digitally controlled (**DALI**) ballasts, gives individual control of each fitting. Multiple light scenes could be stored and recalled at the press of a button using different **Modular panels**. Incorporated **Multisensor** prevents lighting of unused offices and reduces lighting level when sufficient natural light exists. Possible **remote control**.



Open plan office solution. Luminaries fitted with digitally controlled (**DALI**) ballasts and **Minisensor2**, gives individual control of each fitting. Combined into system multipoint control of overall office is achieved. Existing luminaires could be reprogrammed if the functionality of the area changes. Energy savings are achieved through combination of presence detection, constant light functionality and individual dimming of each work area. Control of lights can be manual or automated for user comfort.





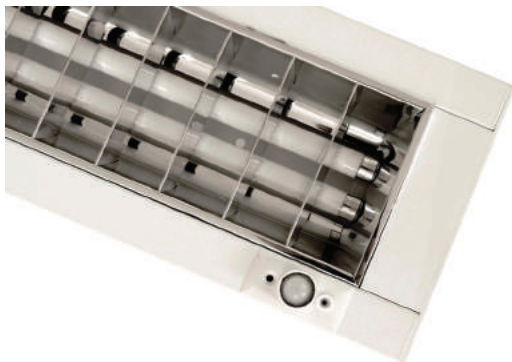
Simple solutions

The luminaire based iDim concept provides 6 out-of-box application modes that are easy to select just by rotating the Mode Selector on the iDim Sense. The modes are designed to fulfil the needs for easy-to-use, energy saving lighting control. The basic functions are pre-programmed and are fully adjustable to meet all requirements.

efficiency **effortless** innovations

Easy intelligence in luminaires

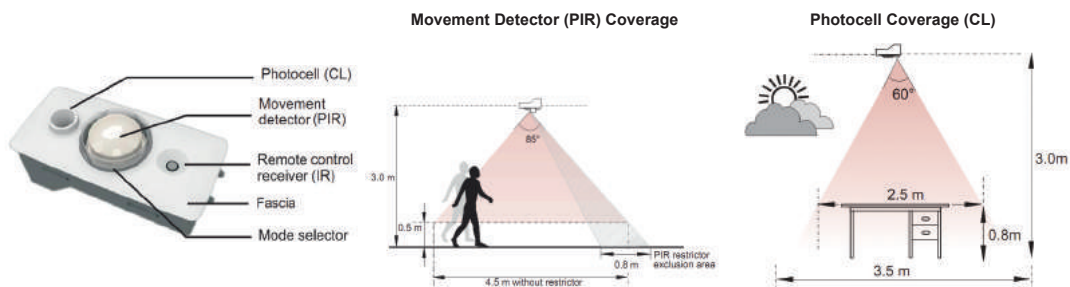
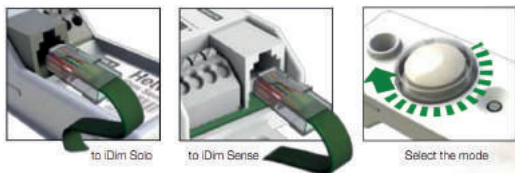
The iDim intelligence is literally the sum of its parts. Intelligent components iDim Sense, iDim Solo and EL-iDim ballast with the iDim Remote can turn every luminaire into a smart solution providing optimal lighting and energy efficiency. Designed for the future, all components meet the demanding legislations.

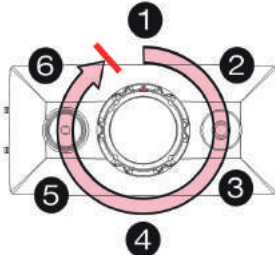


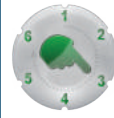





Click-and-go!

Simple clip-on connectors make the assembly into the luminaire quick and easy; just click-and-go!

1. Click the iDim Sense into the luminaire
2. Click the iDim Sense cable into the iDim Solo unit
3. Turn the iDim Sense mode selector and choose the right application mode



| | | | | | | | |
|--|----------------------------|---|---|---|---|--|---|
|  | |  |  |  |  |  |  |
| | | CLASS-ROOM | SINGLE OFFICE | OPEN PLAN OFFICE | CORRIDOR LINK | CORRIDOR HOLD | MEETING ROOM |
| TIMING & LEVEL | OCCUPANCY TIMEOUT | 15 min | 15 min | 15 min | 5 min | 15 min | 15 min |
| | TRANSITION TIMEOUT (LEVEL) | 1 min (20%) | 1 min (20%) | 60 min (20%) | 30 min (20%) | 1 min (20%) | 1 min (20%) |
| BRIGHT OUT | GO OFF | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | STAY OFF | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHANNELS | DALI 1 | CL | CL | CL | FL | CL | CL |
| | DALI 2 | Offset | Offset | Offset | FL | Link to Corridor | FL |
| PRESENCE | ENABLED/DISABLED | Disabled Manual On | Enabled Auto On | Enabled Auto On | Enabled Auto On | Enabled Auto On | Disabled Manual On |
| ABSENCE | ENABLED/DISABLED | Enabled Auto Off | Enabled Auto Off | Enabled Auto Off | Enabled Auto Off | Enabled Auto Off | Enabled Auto Off |

Occupancy Timeout: Time when PIR detects no movement and maintains level before moving to transition timeout

Transition Timeout: Lights are lowered to energy saving level for a specific time before switching off.

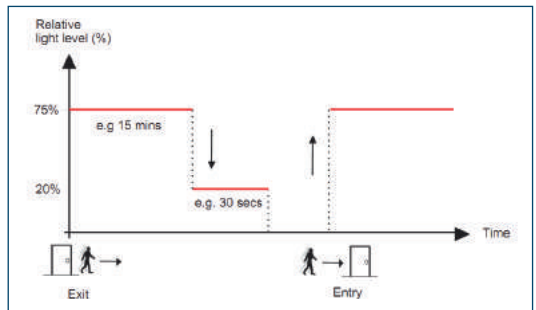
Bright Out – Go Off: If lights are on and there is enough daylight then the lights will go to min level (or off).

Bright Out – Stay Off: If lights are off and there is enough daylight then the lights will stay at min level (or off).

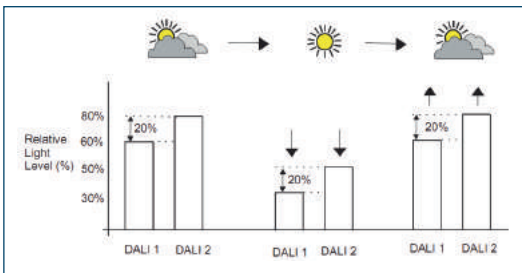
DALI 1 / DALI 2: The outputs can operate as either Constant Light (CL), Fixed Light (FL) and Offset light.

Presence and absence: Functions can either be enabled or disabled.

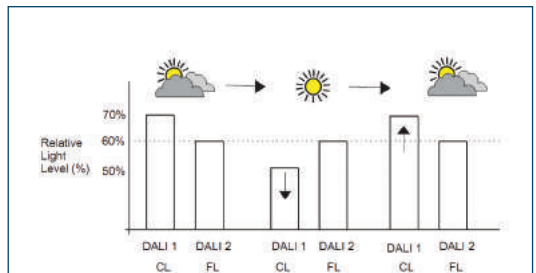
Occupancy and Transition Timeout (PIR)



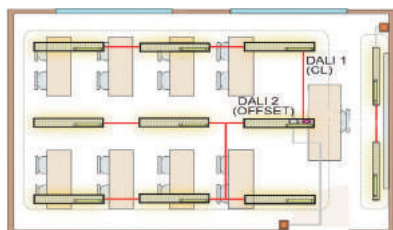
Constant Light (CL) & Offset



Constant Light (CL) & Fixed Light (FL)



Classroom



Optimal lighting and maximum energy saving are auto-matically achieved thanks to the intelligent technology. iDim adjusts the lights depending on presence detection and ambient light. Out-of-box features can be easily customised to meet different needs.



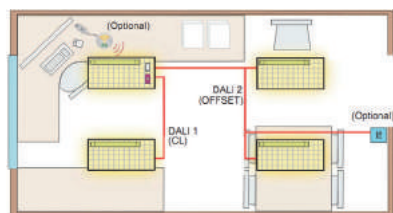
+

 Offset ON: Manual OFF: Auto

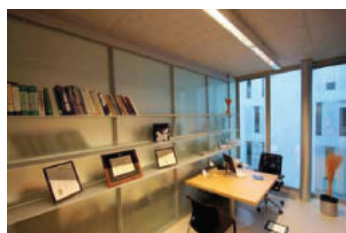
 15 min. → 20% 60 sec. → Off

 Bright out

Single office



The simple out-of-box functionality responds to area occupation and ambient light always producing the right light. Automatic features enable energy saving and user comfort. Advanced features as individual control and custom settings are possible with iDim Remote, PC-interface and DIGIDIM modular panels.



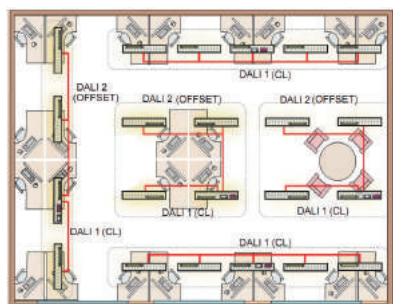
+

 Offset ON: Auto OFF: Auto

 15 min. → 20% 30 sec. → Off

 Bright out

Open plan office



This mode keeps the lights on only when and where needed. It is an energy and cost efficient application creating a safe and convenient working environment for everyone at the same time. All advanced features are available for custom fine tuning.



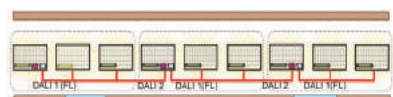
+

 Offset ON: Auto OFF: Auto

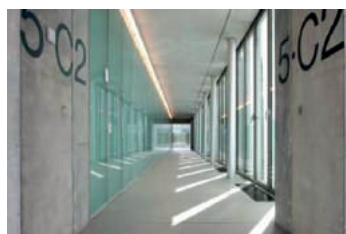
 15 min. → 20% 60 min. → Off

 Bright out

Corridor link



Wherever occupancy is detected, the whole corridor lights up at once. Multiple sections / sensors can be interlinked together creating a powerful solution that can light up a corridor of every length.



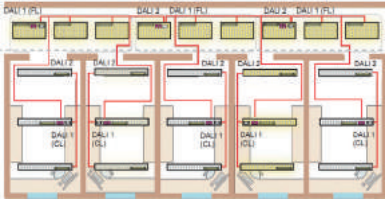
+

 ON: Auto OFF: Auto

 5 min. → 20% 30 min. → Off

 Bright out

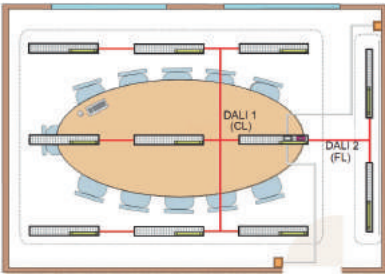
Corridor hold



This unique application links the single offices with the corridor link mode. Whenever the offices are occupied, the corridor is held lit. The corridor hold is a fully automatic function that promotes energy savings as well as safety.



Meeting room



This mode takes care that the lights are switched on only when needed. You can switch the lights both on and off manually or let the system take care of the switching off. The constant light feature adjusts the right lighting and scene control is possible with iDim Remote and DIGIDIM modular panels.



The *Remote 304* is a handheld unit that can be used to control basic system functions as on/off, increasing and decreasing the general light level and the section of four scenes. Could be used for simple systems programming.

- Configuration of target light levels
- Advanced programming (upload settings via PC+”zap function”)
- Graphical PC user interface
- Desktop holder/wall mount holder
- Integrated lux sensor



Sense is a luminaire based DALI sensor. It combines a movement detector (PIR), remote control receiver (IR) and photosell (CL) in one enclosure. Manual mode selector allows user to easily select one of the 6 out-of-box application modes.

- PIR, Constant light and Infrared control
- Easy to select application modes
- Clip-on PIR restrictor
- Mode selector with LED feedback
- 3 m mounting height



Solo is used as an interface module to connect Sense and Dali ballasts as well as user interfaces. Additionally it acts as DALI power supply (PSU).

- Power capability: 64 mA (DALI 1), 32 mA (DALI 2) or 96 mA when operating in parallel
- 2×DALI outputs
- 2×Switch control inputs
- Connection to *Sense* (RJ style)

Microwave motion detection: when motion is detected the load will automatically turn on; when the area is no longer occupied the load will automatically switch off after an adjustable time period. Operating Temperature, -10°C to 35°C.



iMW – Presence detection with ON/OFF function

Max load capacity – 2 A

iMWDIM – Presence detection with 1–10 V constant light flux control

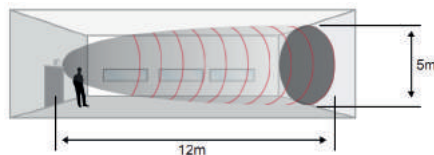
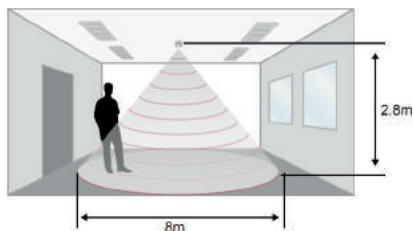
Max load capacity – 2 A

Dimmed Output - 4 × 1–10 V ballasts

iMWDALI – Presence detection with DALI constant light flux control

Max load capacity Relay Output – 2 A

Dimmed Output – 4 × DALI ballasts



PIR presence detection: The unit detects presence using a PIR sensor and turns the load on. When an area is no longer occupied the load will switch off after an adjustable time period.

The 1–10 V output can be used to control the light output of luminaires that are fitted with dimming ballasts. The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a preset lux level (Constant Light).



iPIR – Presence detection with ON/OFF function

Max load capacity – 2 A

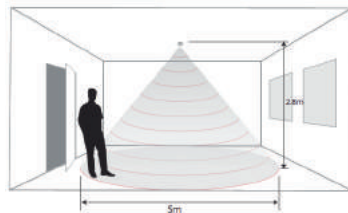
iPIRDIM – Presence detection with 1–10 V constant light flux control

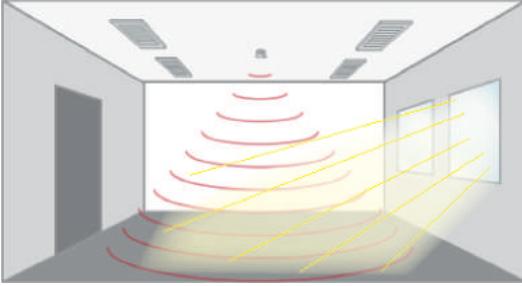
Max load capacity – 2 A

Dimmed Output – 4 × 1–10 V ballasts

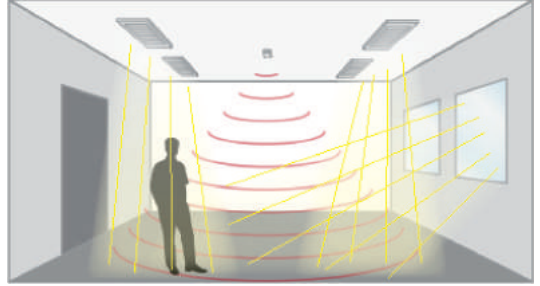
Key Features

- Dimming with lux level sensing
- Presence/Absence detection functionality
- Constant Light
- Programmable using optional IR handset

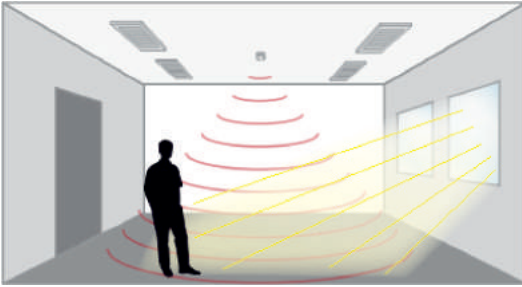




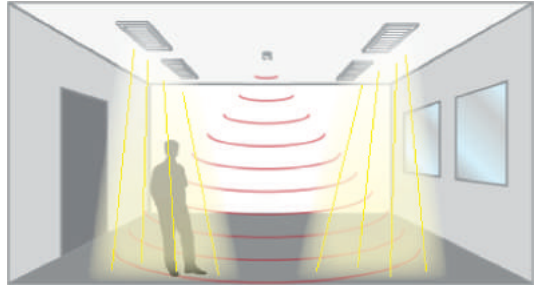
No presence detected, daylight, lights are OFF



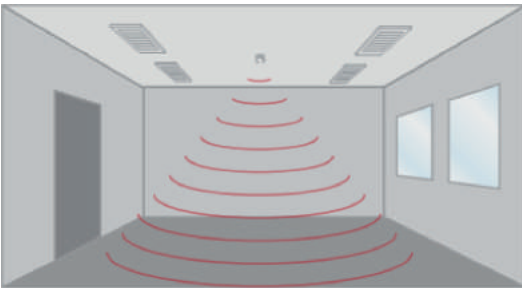
Presence detected some daylight. Lights are ON and dimmed to maintain lux level



Presence detected, sufficient daylight, lights are OFF



Presence detected, insufficient daylight. Detector measures and implements maintained illuminance



No presence detected, night time, lights are OFF

The *IR REMOTE CONTROL 307* is a compact infrared handset used for the programming of iPIR and iDIM sensors.



Highbay PIR occupancy sensors



PASSIVE INFRARED (PIR)



MICROWAVE (MW)

DEFINITIONS:

- Passive Infrared (PIR): A line of sight beam that reacts to heated motion across a field of view. It is a type of sensor technology, where no energy is emitted from the sensor.
- Microwave (MW): It is a type of sensor technology, which sends out microwave pulses (active) and measures the reflection off a moving object. Similar to a police radar gun.



Surface Mount **SHBPIR** Occupancy Sensor is designed simply to automatically turn lights ON or OFF. The sensor utilizes Passive Infrared Technology (PIR) combined with lenses to determine when an area is occupied. This is determined when a heat source is detected and moves from one facet in the lens to another. The sensor recognizes this as a motion and provides power to the light fixture. Simultaneously a timer is started and restarts with each motion, once expired, the lights will turn OFF. The **SHBPIR** sensor maximizes energy savings, incorporating false detection algorithms to eliminate false ONs by nuisance tripping or background environmental conditions. The sensor also optimizes energy savings and safety concerns during power loss scenarios by assuming a return to last known state of operation.

- Fast, easy time delay setting: can be set at any time without requiring power to the sensor; time delay is variable from 30s-30m
- Auto temperature calibration: automatically adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field-of-view
- Return to last state: for safety and energy savings, the OSFHS contains a latching relay so that in the event power is lost to the device, the device will return to the last known state of the relay
- Load Rating: 1000W



The **HBPIR** high-bay occupancy sensor is specifically designed for high mounted areas such as warehouses, manufacturing and other high ceiling applications. The **HBPIR** installs directly to an industrial fluorescent luminaire or an electrical junction box. It is a self-contained sensor and relay that turns individual light fixtures ON or OFF based on occupancy in the detection zone. It comes with three interchangeable lenses for use in either a 360° high-bay or 360° low-bay general area or an aisle way. The **HBPIR** provides reliable coverage up to 12,2m mounting heights. The **HBPIRCOLD** is a model for cold storage applications with temperatures as low as -40° C.

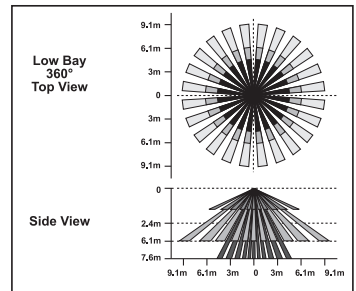
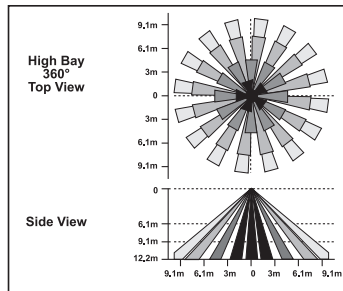
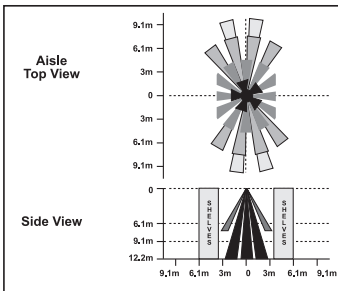
- Fast, easy time delay setting: can be set at any time without requiring power to the sensor; time delay is variable from 30s-30m
- Auto temperature calibration: automatically adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field-of-view
- Return to last state: for safety and energy savings, the OSFHS contains a latching relay so that in the event power is lost to the device, the device will return to the last known state of the relay
- Cold Storage Operating Temperature Range: -40° C to 71° C (only **HBPIR-COLD** version)
- Load Rating: 1000W



Fixture mount **HBPIR&LIGHT** sensors provide fast installation and immediate energy savings by automatically activating lighting only during periods of occupancy. Reliable passive infrared (PIR) technology detects occupancy, and the variable time delay - up to 30 minutes - is user accessible without power, tools or disassembly, and allows the ideal setting based on application needs. Included with the sensor are lenses for high-bay, low-bay and aisle mounting, allowing one unit to cover a variety of applications. The innovative Autocal feature performs an automatic daylight level calibration. Once calibrated, the sensor requires no further adjustment and immediately enters daylight harvesting mode, actively switching the connected fixture load ON and OFF in response to occupancy and available natural light maximizing energy savings through efficient light harvesting.

- Rotating Light Sensor: Optimal for best performance in locating light measurements (up, down and side lighting).
- Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.
- Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.
- Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON +/- 1 minute).
- Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.
- Fast, easy time delay setting: can be set at any time without requiring power to the sensor; time delay is variable from 30s-30m
- False Detection Protection: Energy saving technology is designed into the OS-FHP and OSFHD to assure your lights are ON only when needed.
- Cold Storage Operating Temperature Range: -40° C to 71° C (only **HBPIR-COLD&LIGHT** version)
- Load Rating: 1000W

HBPIR and HBPIR&LIGHT FIELD OF VIEW



Active + self learning solution for led lighting

GENERAL DESCRIPTION

- Stand-alone, inbuilt lighting control solution for luminaires with LED lamps
- Fully automatic setup through smart learning function
- Optimized occupancy detection for different situations
- Light level compensation over entire life cycle (CLO)
- Automatic daylight harvesting
- No programming, configuration or external control wiring



Active+ is an out-of-the-box standalone solution consisting of an LED driver and small sensor, yet built into the luminaire. Luminaires fitted with Active+ solution are ideal for refurbishment projects, as well as for new offices, corridors, open plan areas and storage areas. Allows to renew office lighting by using existing wires and switches, to make it more energy efficient without any programming. The Active+ LED driver and Active+ Sense both fit into a luminaire which can be installed as easily as a basic switching luminaire, having no physical or electrical connection to any other external lighting components such as control panels, dimmers or common sensors.

If the area becomes vacant, human presence isn't detected and the lighting isn't needed in the environment the Active+ LED driver and Active+ Sense send signals to the luminaire to go into energy saving mode. It dims the light smoothly so the change of lighting level doesn't disturb other people sitting or working nearby. In areas with windows energy additionally is saved by daylight harvesting. The Active+ functionality also prevents daylight sensors in luminaires in close proximity to each other from interacting and starting to malfunction (so called waving effect). Constant lumen output (CLO) functionality reduces initial over-illumination, and ensures that the light output level can be guaranteed during the whole life time of the LED module. Utilising 60-100 hours of automatic learning, Helvar's Active+ learns about the surrounding environment and detects changes in lighting conditions from other luminaires and light sources. Or Active+ Mobile app, can be used to set desired parameters for each single fitting by the end user, Android supported mobile device which has a flashlight, would do the work.

Advantages of Active+:

Simple installation: Luminaire fitted with Active+ is as easy to install as a simple switched luminaire. No control wiring, programming or configuration is needed.

Self-learning: Active+ uses 60-100 hours to learn about its environment - external daylight conditions, and other luminaires around it.

OR

Via-flashlight: parameters transferred to system using Adroid phone flashlight.

Smart energy savings: Compared to a simple switched luminaire, Active+ brings added features - presence detection, daylight harvesting and seamless and comfortable dimming.

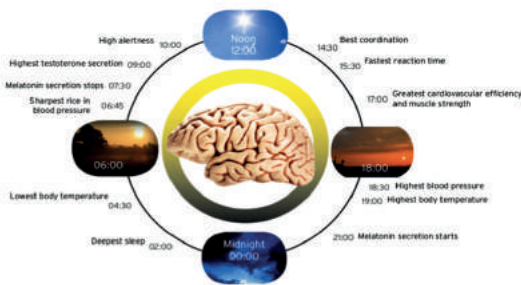
*** If there is a need to restart the learning process, i.e. during a layout change of an office, the luminaires can be reset to start the learning period. You can reset either a single luminaire or an entire electrical circuitry with multiple luminaires.

Human centric lighting (HCL)

Human Centric Lighting (HCL), which can also be called human factors in lighting, biophilia or other terms, is becoming the next big step in lighting. It may become more significant than Edison creating the light bulb, because not only can HCL provide good visual lighting quality, energy efficiency and sustainability at a reasonable cost, it can also improve circadian rhythms, short and long term alertness, sleep, mood, visual acuity, perception and performance–productivity. HCL provides both visual acuity and biologic benefits.

In addition to daylight, specialized fixed spectral content and tunable (dimming and Kelvin or Colour changing) LED products with advanced controls are already available and cost effective and should become standard for business, education, hospital, residential and most other applications much sooner than most people think. Within five years, and maybe as little as three, people will probably look back and wonder how they lived with that old lighting. Remember how it was before you had a smart phone! The wellbeing and performance–productivity benefits, which may be called 'soft' savings, usually dwarf the typical 'hard' savings of lower electrical bills and reduced maintenance costs. What is very important is that HCL provides both 'hard' and 'soft' savings. HCL shows the real value of lighting and makes lighting much more than a commodity, which is how most people have been considering it for decades. So now is a perfect time for HCL, and it can be considered a wasted opportunity not to.

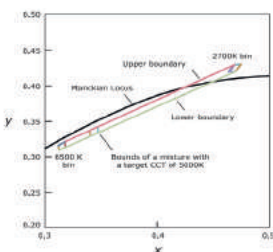
Claiming that better lighting can improve health is a big supposition. That said, it is not outlandish to state that carefully designed lighting can aid, even correct, circadian rhythms in human beings. Over time, people have evolved in harmony with the Earth's natural lighting cycle, which has low light levels and low correlated Colour temperatures (CCT) in the early morning, high light levels and high CCTs at mid day, low light levels and low CCTs during evening, and extremely low light levels and a medium CCT under moonlight. These varying light levels are at the heart of a human being's 24-hour internal clock, otherwise defined as circadian rhythm. Until 200 years ago, 90% of our waking time was spent outside. Now most of us spend 90% of our time indoors with electric lighting. While we're at work, our lighting is usually set at one light level with a constant CCT—this is not consistent with circadian rhythms. Without regular and direct exposure to such dynamic lighting, the circadian rhythm can be disrupted, which could lead to health issues. Specifically, light and darkness control hormone production. During the day, with a natural circadian rhythm, appropriate amounts of dopamine are secreted for pleasure, alertness and muscle coordination; serotonin for impulse control and carbohydrate cravings; and cortisol for stress response. During the night, melatonin allows for sleep, and refreshes our body. Recent research, specifically, the discovery of intrinsically photosensitive retinal ganglion cells (ipRGC) in our bodies, has been found to be very important in setting one's internal clock, so to speak. They are especially responsive to light that is rich in blue content, the mid-day sky, for example, which can be up to 10,000K. This is particularly notable in that blue light content suppresses melatonin and encourages dopamine, serotonin, and cortisol production, meaning greater exposure to it during the day can lead people to be more alert and productive at work, or even during night shifts. At the same time, at night, such melatonin disruption can create sleep issues.



CCT change using LED light sources can be obtained, mixing warm and cool light by adjusting opposite sides intensity. It also can be obtained mixing some specific colours LED's, getting better results, but at much higher costs.

Benefits and merit of HCL:

- Individual, human centered illumination.
- Natural light simulation.
- Better comfort, health, productivity and sleep.
- Supports circadian circle.
- HCL can be implemented as standalone, as well as bigger systems solution.



Two-Colour temperature (2700K or 6500K) light source possible coordinate change of range and deviation from Plankian curve.

Wireless control of luminaires



Lighting as experience

It is more than just a light switch. With a tap on your smartphone you can set the ambience for study, watching a movie, or a romantic dinner.

Practical daily use

You can still use your existing wall switches. They will have a new life: use them as dimmers and control many lamps with one switch.

Easy to install

You don't need any new wiring, switches, devices or networks. Plug in the lighting fixture and pair it with your phone or tablet. No other configurations needed.

Delightful to use

You can control your lights with an intuitive and visual user interface on your smartphone or tablet.

Works with free mobile App from the Apple Store or Google Play.

Compatible devices :

iPhone 4S or later

iPad 3 or later

iPod Touch 5 th gen or later

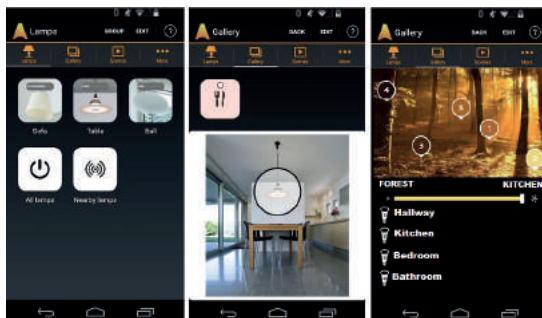
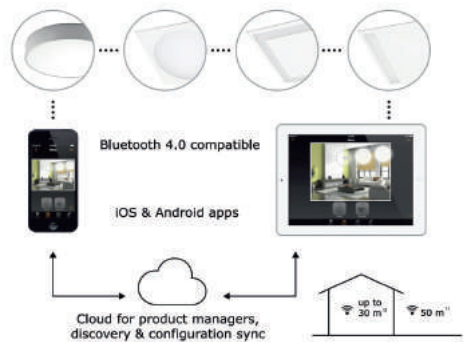
Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support

Range: indoor 30m max, outdoor 50m max. Each unit works also as a repeater, so longer ranges can be achieved, using multiple units. Range is highly dependent on the surrounding and obstacles, such as walls and similar.

Features

- Wirelessly controllable with a smart device.
- No need for an external gateway device.
- Forms automatically a fast wireless mesh network.
- Configurable analog/digital output.
- Analog output: 0-10V sinking/sourcing.
- Digital output: Standalone DALI.
- Easily implemented RGB and Colour temperature controls.
- Controllable switched mains output.
- Dimming from standard on/off wall switches.
- Device firmware can be updated over-the-air.
- Cloud service enhances user experience.
- Control luminaires visually directly from pictures of your offices or personal rooms.
- Set up scenes with several luminaires in them. Possibility to create up to 255 different scenes with up to 127 units in each scene. All the luminaires in one scene can have different light levels, colours and colour temperatures.
- Use timers to turn on and off scenes at predefined times.
- Define the security of the network. There are four different security levels for access control.
- Possibility to single unit to control one luminaire or multiple units to create light control system.

Solution Architecture



Compliance:

- Radio frequency interference: EN 55015
- Mains current harmonics: EN 61000-3-2
- Volt. changes, fluctuations and flicker: EN 61000-3-3
- General and safety requirements: EN 61347-1
- Particular requirements: EN 61347-2-11
- EMC immunity requirements EN 61547



NORTHCLIFFE
MAKING LIFE BRIGHTER

RECESSED LUMINAIRES

www.northcliffe.org

CORONA D LED

New Concept Recessed LED Luminaire with Microprismatic or Opal Diffuser



CORONA D LED1X3600 E268 T840 MPRZ LT92

Type: A new concept of recessed mounted LED luminaires with microprismatic or opal diffuser for most commercial lighting applications.

Specification: Diffuser: microprismatic (MPRZ LT92) or opal (OP LT80). Fully enclosed white steel body. Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

Application: Indoor. Office buildings, shops and other commercial environments.



Simple installation: Luminaire fitted with ACT+ is as easy to install as a simply switched luminaire. No control wiring, programming or configuration is needed.

Self-learning: ACT+ uses 60-100 hours to learn about its environment – external daylight conditions and other luminaires around it.

Smart energy savings: Compared to a simple switched luminaire, Active+ brings added features – presence detection, daylight harvesting, seamless and comfortable dimming.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Corona D LED1x1300 E262 T840 MPRZ LT92 | 595x295x55 | 50000 | 1213 | 11 | 80+ | 4000 | 2,00 |
| Corona D LED1x1800 E263 T840 MPRZ LT92 | 595x295x55 | 50000 | 1703 | 15 | 80+ | 4000 | 2,00 |
| Corona D LED1x2500 E265 T840 MPRZ LT92 | 595x295x55 | 50000 | 2433 | 21 | 80+ | 4000 | 2,00 |
| Corona D LED2x1300 E266 T840 MPRZ LT92 | 595x595x55 | 50000 | 2426 | 21 | 80+ | 4000 | 3,50 |
| Corona D LED2x1800 E227 T840 MPRZ LT92 | 595x595x55 | 50000 | 3405 | 29 | 80+ | 4000 | 3,50 |
| Corona D LED2x2500 E230 T840 MPRZ LT92 | 595x595x55 | 50000 | 4867 | 39 | 80+ | 4000 | 3,50 |
| Corona D LED3x1300 D064 T840 MPRZ LT92 | 595x595x55 | 50000 | 3639 | 29 | 80+ | 4000 | 3,50 |
| Corona D LED3x1800 D065 T840 MPRZ LT92 | 595x595x55 | 50000 | 5108 | 43 | 80+ | 4000 | 3,50 |
| Corona D LED3x2500 D066 T840 MPRZ LT92 | 595x595x55 | 50000 | 7300 | 59 | 80+ | 4000 | 3,50 |
| Corona D LED1x2600 E267 T840 MPRZ LT92 | 1195x295x55 | 50000 | 2560 | 22 | 80+ | 4000 | 3,50 |
| Corona D LED1x3600 E268 T840 MPRZ LT92 | 1195x295x55 | 50000 | 3594 | 30 | 80+ | 4000 | 3,50 |
| Corona D LED1x5200 E270 T840 MPRZ LT92 | 1195x295x55 | 50000 | 5138 | 41 | 80+ | 4000 | 3,50 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|---------------------------------|------------------|----------|--------|------------|
| Corona D LED2x2600 E271 T840 MPRZ LT92 | 1195x595x55 | 50000 | 5121 | 41 | 80+ | 4000 | 6,50 |
| Corona D LED2x3600 E272 T840 MPRZ LT92 | 1195x595x55 | 50000 | 7189 | 61 | 80+ | 4000 | 6,50 |
| Corona D LED2x5200 E274 T840 MPRZ LT92 | 1195x595x55 | 50000 | 10277 | 83 | 80+ | 4000 | 6,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

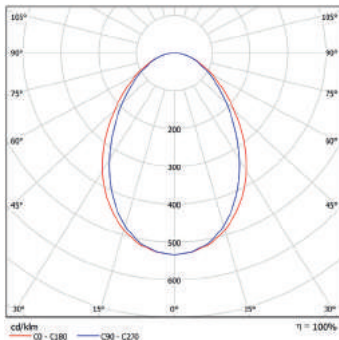
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Corona D LED1x1300 E262 T840 OP LT80 | 595x295x55 | 50000 | 1112 | 11 | 80+ | 4000 | 2,00 |
| Corona D LED1x1800 E263 T840 OP LT80 | 595x295x55 | 50000 | 1561 | 15 | 80+ | 4000 | 2,00 |
| Corona D LED1x2500 E265 T840 OP LT80 | 595x295x55 | 50000 | 2231 | 21 | 80+ | 4000 | 2,00 |
| Corona D LED2x1300 E266 T840 OP LT80 | 595x595x55 | 50000 | 2224 | 21 | 80+ | 4000 | 3,50 |
| Corona D LED2x1800 E227 T840 OP LT80 | 595x595x55 | 50000 | 3122 | 29 | 80+ | 4000 | 3,50 |
| Corona D LED2x2500 E230 T840 OP LT80 | 595x595x55 | 50000 | 4461 | 39 | 80+ | 4000 | 3,50 |
| Corona D LED3x1300 D064 T840 OP LT80 | 595x595x55 | 50000 | 3336 | 29 | 80+ | 4000 | 3,50 |
| Corona D LED3x1800 D065 T840 OP LT80 | 595x595x55 | 50000 | 4682 | 43 | 80+ | 4000 | 3,50 |
| Corona D LED3x2500 D066 T840 OP LT80 | 595x595x55 | 50000 | 6692 | 59 | 80+ | 4000 | 3,50 |
| Corona D LED1x2600 E267 T840 OP LT80 | 1195x295x55 | 50000 | 2347 | 22 | 80+ | 4000 | 3,50 |
| Corona D LED1x3600 E268 T840 OP LT80 | 1195x295x55 | 50000 | 3295 | 30 | 80+ | 4000 | 3,50 |
| Corona D LED1x5200 E270 T840 OP LT80 | 1195x295x55 | 50000 | 4710 | 41 | 80+ | 4000 | 3,50 |
| Corona D LED2x2600 E271 T840 OP LT80 | 1195x595x55 | 50000 | 4694 | 41 | 80+ | 4000 | 6,50 |
| Corona D LED2x3600 E272 T840 OP LT80 | 1195x595x55 | 50000 | 6590 | 61 | 80+ | 4000 | 6,50 |
| Corona D LED2x5200 E274 T840 OP LT80 | 1195x595x55 | 50000 | 9420 | 83 | 80+ | 4000 | 6,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

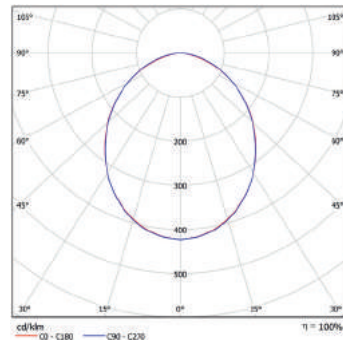
Options available on request:

- | | | | |
|---------|---|-----------|--|
| SDIM | - Switch-control/dimming | MPRZ LT92 | - Microprismatic diffuser for a better glare protection |
| DALI | - DALI driver | WIE | - 3-pole Wieland or similar connector |
| TW | - Tunable white | W625 | - To fit 625x625 suspended ceiling (subject to minimum quantity) |
| BLT | - Bluetooth unit (for wireless control via mobile device) | IP44 | - IP44 protection degree |
| EMG | - Emergency version 1 hour | RAL | - RAL colours |
| EM3 | - Emergency version 3 hours | T830 | - Colour temperature 3000K |
| OP LT80 | - Opal diffuser with 80% light transmission | T840 | - Colour temperature 4000K |

CORONA D LED2X1800 E227 T840 MPRZ LT92



CORONA D LED2X1800 E227 T840 OP LT80



CORONA C LED



Recessed LED Luminaire with Circular Diffuser



| | |
|-----------------------|---|
| Type: | A recessed mounted LED luminaire with circular opal diffuser for most commercial lighting applications. |
| Specification: | Diffuser: high transmission opal (OP LT80). Fully enclosed white steel body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Fits 15-24mm exposed T-Bar ceiling 600x600mm. |
| Application: | Indoor. Office buildings, shops and other commercial environments. |

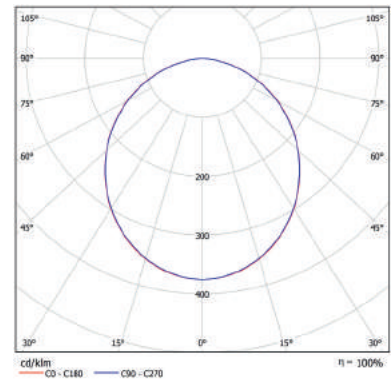
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Corona C LED1x3100 D067 T840 OP LT80 | 595x595x70 | 50000 | 3006 | 29 | 80+ | 4000 | 3,10 |
| Corona C LED1x4300 D068 T840 OP LT80 | 595x595x70 | 50000 | 4227 | 39 | 80+ | 4000 | 3,10 |
| Corona C LED1x5900 D069 T840 OP LT80 | 595x595x70 | 50000 | 5859 | 57 | 80+ | 4000 | 3,10 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- IP44 – IP44 protection degree
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CORONA C LED1X4300 D068 T840 OP LT80



CORONA R LED

Recessed LED Luminaire with Round Diffuser



Type: A recessed mounted LED luminaire with round opal diffuser for most commercial lighting applications.

Specification: Diffuser: high transmission opal (OP LT80).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

Application: Indoor. Office buildings, shops and other commercial environments.

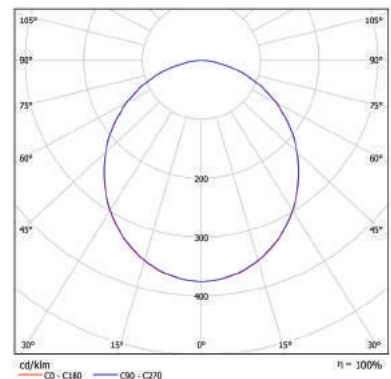
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Corona R LED1x3100 D070 T840 OP LT80 | 595x595x70 | 50000 | 3006 | 29 | 80+ | 4000 | 4,50 |
| Corona R LED1x4300 D071 T840 OP LT80 | 595x595x70 | 50000 | 4227 | 39 | 80+ | 4000 | 4,50 |
| Corona R LED1x5900 D072 T840 OP LT80 | 595x595x70 | 50000 | 5859 | 57 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- IP44 – IP44 protection degree
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CORONA R LED1X4300 D071 T840 OP LT80



CORONA Q LED



Recessed LED Luminaire with Square Diffuser



Type: A recessed mounted LED luminaire with square opal diffuser for most commercial lighting applications.

Specification: Diffuser: high transmission opal (OP LT80).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

Application: Indoor. Office buildings, shops and other commercial environments.

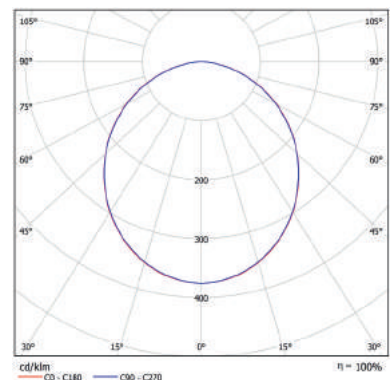
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Corona Q LED1x3200 E394 T840 OP LT80 | 595x595x70 | 50000 | 3144 | 31 | 80+ | 4000 | 5,00 |
| Corona Q LED1x4500 E395 T840 OP LT80 | 595x595x70 | 50000 | 4416 | 45 | 80+ | 4000 | 5,00 |
| Corona Q LED1x6400 E396 T840 OP LT80 | 595x595x70 | 50000 | 6311 | 61 | 80+ | 4000 | 5,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- IP44 – IP44 protection degree
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CORONA Q LED1X4500 E395 T840 OP LT80



CORONA M LED

Recessed LED Luminaire with Rectangular Diffuser



CE EAC



- Type:** A recessed mounted LED luminaire with rectangular opal diffuser for most commercial lighting applications.
- Specification:** Diffuser: high transmission opal (OP LT80).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Fits 15-24mm exposed T-Bar ceiling 600x600mm.
- Application:** Indoor. Office buildings, shops and other commercial environments.

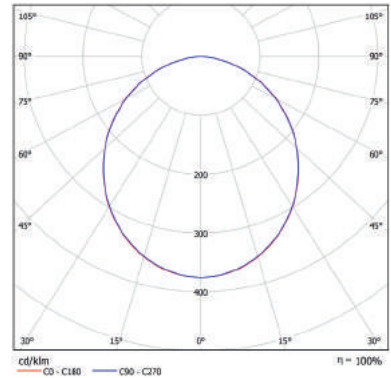
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Corona M LED1x4000 D075 T840 OP LT80 | 595x595x75 | 50000 | 3996 | 40 | 80+ | 4000 | 3,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- IP44 – IP44 protection degree
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CORONA M LED1X4000 D075 T840 OP LT80



CORONA S LED

Recessed LED Luminaire with Opal Diffuser



Type: A recessed mounted LED luminaire with opal diffuser for most commercial lighting applications.

Specification: Diffuser: high transmission opal (OP LT80).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

Application: Indoor. Office buildings, shops and other commercial environments.

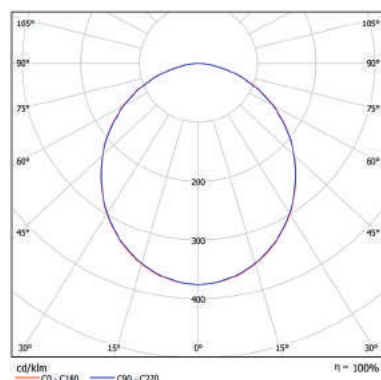
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Corona S LED1x3800 D076 T840 OP LT80 | 595x595x75 | 50000 | 3758 | 33 | 80+ | 4000 | 3,00 |
| Corona S LED1x4400 D077 T840 OP LT80 | 595x595x75 | 50000 | 4341 | 40 | 80+ | 4000 | 3,00 |
| Corona S LED1x6000 D078 T840 OP LT80 | 595x595x75 | 50000 | 5994 | 60 | 80+ | 4000 | 3,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- IP44 – IP44 protection degree
- RAL – RAL Colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CORONA S LED1X4400 D077 T840 OP LT80

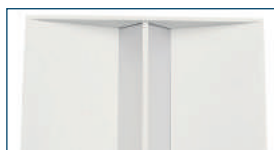


WING D LED

Unique Design Recessed
LED Luminaire with
Microprismatic or Opal Diffuser



CE **EAC**



Type: A unique recessed LED luminaire with microprismatic or opal diffuser for most commercial lighting applications.

Specification: Microprismatic (MPRZ LT92) or opal (OP LT80) diffuser.
Fully enclosed white steel body.
Luminaire is plastic wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use recessed mounting kit S620x620 (to be ordered separately).

Application: Indoor. Office buildings, shops and other commercial environments.

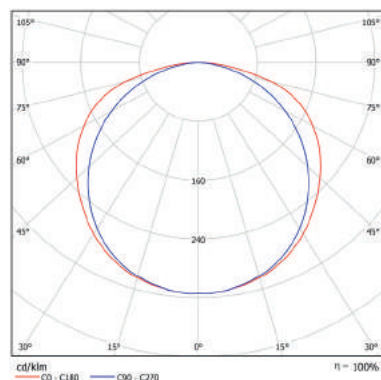
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Wing D LED2x1700 D079 T840 MPRZ LT92 | 595x595x96 | 50000 | 3243 | 29 | 80+ | 4000 | 3,50 |
| Wing D LED2x2400 D080 T840 MPRZ LT92 | 595x595x96 | 50000 | 4635 | 39 | 80+ | 4000 | 3,50 |
| Wing D LED2x1700 D079 T840 OP LT80 | 595x595x96 | 50000 | 2959 | 29 | 80+ | 4000 | 3,50 |
| Wing D LED2x2400 D080 T840 OP LT80 | 595x595x96 | 50000 | 4230 | 39 | 80+ | 4000 | 3,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- MPRZ LT92 – Microprismatic diffuser for a better glare protection
- WIE – 3-pole Wieland or similar connector
- W625 – To fit 625x625 suspended ceiling (subject to minimum quantity)
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

WING D LED2X1700 D079 T840 MPRZ LT92



JETTA R

Recessed Indirect Luminaire



CEEC



Type: Modern design indirect LED or compact fluorescent luminaire with light source hidden under a perforated diffuser. The light is reflected across two parabolic reflectors to allow a comfortable and glare-free lighting effect.

Specification: White painted perforated diffuser with UV stable opal film to give soft light distribution. Two parabolic reflectors. Fully enclosed white steel body. Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

Application: Indoor. Office buildings, shops and other commercial environments.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Jetta R LED1x3500 D081 T840 | 595x595x125 | 50000 | 2888 | 39 | 80+ | 4000 | 4,00 |
| Jetta R LED1x4900 D082 T840 | 595x595x125 | 50000 | 4054 | 57 | 80+ | 4000 | 4,00 |

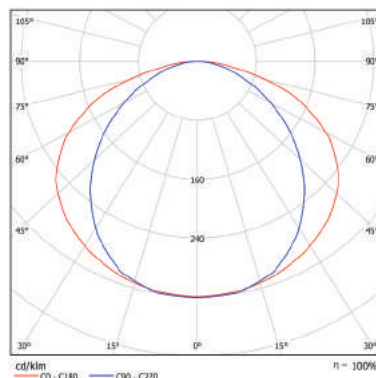
* Tolerance range for optical and electrical data: ±10 %

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Jetta 236 C49 | 2x36 (2G11) | 595x595x100 | 4 | 84 |
| Jetta 240 B44 | 2x40 (2G11) | 595x595x100 | 4 | 84 |
| Jetta 255 B40 | 2x55 (2G11) | 595x595x100 | 4 | 118 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- WIE – 3-pole Wieland or similar connector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

JETTA R LED1X3500 D081 T840



LYRA R LED

Decorative LED Luminaire



CE EAC



Type: A decorative and modern LED luminaire in four sizes to fit wide range of applications.

Specification: Opal acrylic diffuser.
White powder coated body and recessed mounting frame with quick lock system.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar type of ceiling, requires a cut-out.

Application: Indoor. Office buildings, shops and other commercial environments.

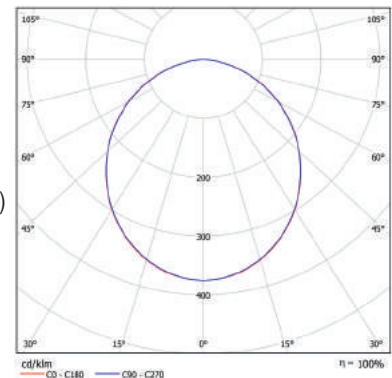
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Lyra R LED1x1800 D083 T840 OP LT80 | Ø320x180 | 50000 | 1798 | 19 | 80+ | 4000 | 4,00 |
| Lyra R LED1x2600 D084 T840 OP LT80 | Ø320x180 | 50000 | 2526 | 27 | 80+ | 4000 | 4,00 |
| Lyra R LED1x3300 D085 T840 OP LT80 | Ø470x180 | 50000 | 3251 | 31 | 80+ | 4000 | 6,80 |
| Lyra R LED1x4500 D086 T840 OP LT80 | Ø470x180 | 50000 | 4493 | 44 | 80+ | 4000 | 6,80 |
| Lyra R LED1x5900 D087 T840 OP LT80 | Ø620x190 | 50000 | 5849 | 55 | 80+ | 4000 | 10,00 |
| Lyra R LED1x7000 D088 T840 OP LT80 | Ø620x190 | 50000 | 6985 | 67 | 80+ | 4000 | 10,00 |
| Lyra R LED1x8400 D089 T840 OP LT80 | Ø920x210 | 50000 | 8332 | 80 | 80+ | 4000 | 14,00 |
| Lyra R LED1x10200 D090 T840 OP LT80 | Ø920x210 | 50000 | 10116 | 100 | 80+ | 4000 | 14,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

LYRA R LED1X4500 D086 T840 OP LT80



BALI C LED

Recessed Frameless
Luminaire with Opal Diffuser



EAC



Type: A frameless recessed LED luminaire in four sizes for installation into plasterboard ceiling.

Specification: UV stable opal diffuser mounted into frameless body.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Fits into plasterboard ceiling.

Application: Indoor. Office buildings, shops and other commercial environments.

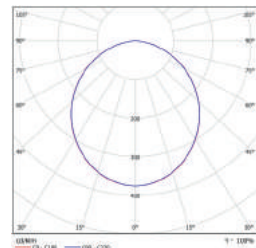
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| BALI C LED1x1800 D103 T840 OP LT80 | Ø300x125 | 50000 | 1798 | 19 | 80+ | 4000 | 2,50 |
| BALI C LED1x2600 D104 T840 OP LT80 | Ø300x125 | 50000 | 2526 | 27 | 80+ | 4000 | 2,50 |
| BALI C LED1x3300 D105 T840 OP LT80 | Ø450x125 | 50000 | 3251 | 31 | 80+ | 4000 | 4,80 |
| BALI C LED1x4500 D106 T840 OP LT80 | Ø450x125 | 50000 | 4493 | 44 | 80+ | 4000 | 4,80 |
| BALI C LED1x5900 D107 T840 OP LT80 | Ø600x135 | 50000 | 5849 | 55 | 80+ | 4000 | 7,50 |
| BALI C LED1x7000 D108 T840 OP LT80 | Ø600x135 | 50000 | 6985 | 67 | 80+ | 4000 | 7,50 |
| BALI C LED1x8400 D109 T840 OP LT80 | Ø900x150 | 50000 | 8332 | 80 | 80+ | 4000 | 10,50 |
| BALI C LED1x10200 D110 T840 OP LT80 | Ø900x150 | 50000 | 10116 | 100 | 80+ | 4000 | 10,50 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BALI C LED1x4500 D106 T840 OP LT80



BALI T5&LED

**Recessed Frameless
Luminaire with Opal
Diffuser**



CE EAC



Type: Frameless recessed T5 or LED luminaire for installation into plasterboard ceiling.

Specification: UV stable opal diffuser mounted into frameless body.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Fits into plasterboard ceiling.

Application: Indoor. Office buildings, shops and other commercial environments.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Bali R LED1x1000 D091 T840 OP LT80 | 215x225x80 | 50000 | 937 | 10 | 80+ | 4000 | 1,80 |
| Bali R LED1x1400 D092 T840 OP LT80 | 215x225x80 | 50000 | 1317 | 14 | 80+ | 4000 | 1,80 |
| Bali R LED1x1100 D093 T840 OP LT80 | 581x90x80 | 50000 | 1054 | 11 | 80+ | 4000 | 1,80 |
| Bali R LED1x1500 D094 T840 OP LT80 | 581x90x80 | 50000 | 1480 | 15 | 80+ | 4000 | 1,80 |
| Bali R LED1x1700 D095 T840 OP LT80 | 881x90x80 | 50000 | 1640 | 16 | 80+ | 4000 | 2,10 |
| Bali R LED1x2400 D096 T840 OP LT80 | 881x90x80 | 50000 | 2302 | 24 | 80+ | 4000 | 2,10 |
| Bali R LED1x2300 D097 T840 OP LT80 | 1181x90x80 | 50000 | 2225 | 22 | 80+ | 4000 | 2,40 |
| Bali R LED1x3200 D098 T840 OP LT80 | 1181x90x80 | 50000 | 3124 | 30 | 80+ | 4000 | 2,40 |
| Bali R LED1x2900 D099 T840 OP LT80 | 1481x90x80 | 50000 | 2811 | 28 | 80+ | 4000 | 2,80 |
| Bali R LED1x4000 D100 T840 OP LT80 | 1481x90x80 | 50000 | 3946 | 38 | 80+ | 4000 | 2,80 |
| Bali R LED1x3000 D101 T840 OP LT80 | 580x300x80 | 50000 | 2917 | 30 | 80+ | 4000 | 3,80 |
| Bali R LED1x3700 D102 T840 OP LT80 | 580x300x80 | 50000 | 3658 | 40 | 80+ | 4000 | 3,80 |

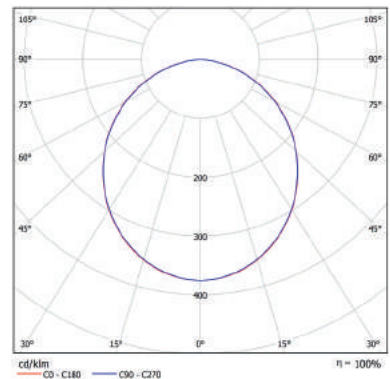
* Tolerance range for optical and electrical data: ±10 %

| Type | Lamp (W) and holder | Overall dimensions (Lx-WxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|---------------------------------|------------|------------------|
| Bali 213 M04 HF | 2x13 (G24q-1) | 205x215x80 | 1,8 | 28 |
| Bali 218 M05 HF | 2x18 (G24q-2) | 205x215x80 | 1,8 | 40 |
| Bali 226 M06 HF | 2x26 (G24q-3) | 205x215x80 | 1,8 | 55 |
| Bali 114 M07 | 1x14 (G5) | 580x90x80 | 1,8 | 16 |
| Bali 124 M08 | 1x24 (G5) | 580x90x80 | 1,8 | 25 |
| Bali 121 M09 | 1x21 (G5) | 880x90x80 | 2,1 | 23 |
| Bali 128 M10 | 1x28 (G5) | 1180x90x80 | 2,4 | 30,5 |
| Bali 135 M11 | 1x35 (G5) | 1480x90x80 | 2,8 | 38 |
| Bali 139 M12 | 1x39 (G5) | 880x90x80 | 2,4 | 42 |
| Bali 149 M13 | 1x49 (G5) | 1480x90x80 | 2,8 | 53 |
| Bali 154 M14 | 1x54 (G5) | 1180x90x80 | 2,4 | 58 |
| Bali 180 M15 | 1x80 (G5) | 1480x90x80 | 2,8 | 85 |
| Bali 314 M16 | 3x14 (G5) | 580x300x80 | 3,8 | 47 |
| Bali 324 M17 | 3x24 (G5) | 580x300x80 | 3,9 | 74 |
| Bali 414 M18 | 4x14 (G5) | 580x300x80 | 3,8 | 62 |
| Bali 424 M19 | 4x24 (G5) | 580x300x80 | 3,9 | 98 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- WIE – 3-pole Wieland or similar connector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BALI R LED1X1400 D092 T840 OP LT80



POLARIS PAR LED

Recessed LED Luminaire with Double Parabolic Reflector



Type: An attractive range of recessed LED luminaires with double parabolic reflector for most applications.

Specification: Double parabolic louvre with white insert to give better light distribution. UV stable opal diffuser. The louvre is fitted into the body with four spring locks for maximum stability. Fully enclosed white steel body. Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar ceiling.

Application: Indoor. Office buildings, shops and other commercial environments.



Simple installation: Luminaire fitted with ACT+ is as easy to install as a simple switched luminaire. No control wiring, programming or configuration is needed.

Self-learning: ACT+ uses 60-100 hours to learn about its environment – external daylight conditions, and other luminaires around it.

Smart energy savings: Compared to a simply switched luminaire, Active+ brings added features – presence detection, daylight harvest-ing, seamless and comfortable dimming.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Polaris PAR LED2x1800 E397 T840 MAT | 595x595x85 | 50000 | 3581 | 39 | 80+ | 4000 | 3,90 |
| Polaris PAR LED2x2600 E398 T840 MAT | 595x595x85 | 50000 | 5027 | 57 | 80+ | 4000 | 3,90 |
| Polaris PAR LED2x1900 D487 T840 MAT | 1195x143x85 | 50000 | 3780 | 41 | 80+ | 4000 | 2,70 |
| Polaris PAR LED2x2700 D488 T840 MAT | 1195x143x85 | 50000 | 5306 | 61 | 80+ | 4000 | 2,70 |

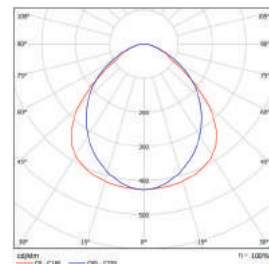
* Tolerance range for optical and electrical data: $\pm 10\%$

Versions in other lengths are available on request

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- ACT – Self-learning sensor
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- MAT – Matted reflector
- WIE – 3-pole Wieland or similar connector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

POLARIS PAR LED2X2600 E398 T840 MAT



POLARIS R LED



Recessed LED Luminaire for Direct Illumination



Type: A recessed mounted LED luminaire with double parabolic reflector for a better glare control.

Specification: Double parabolic louvre made of glossy aluminium. Opal diffuser. The louvre is fitted into the body with spring locks for maximum stability. Fully enclosed white steel body. Luminaire is plastic-wrapped and boxed individually.

Installation: Fits 15-24mm exposed T-Bar and/or plasterboard ceiling. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets (available on request).

Application: Indoor. Office buildings, shops and other commercial environments.

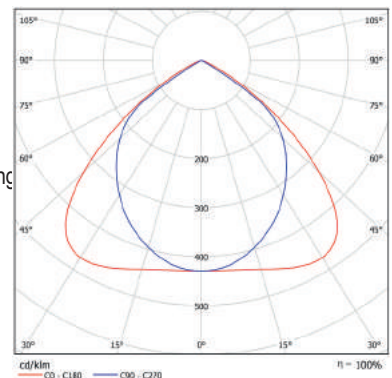
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Polaris R LED2x1000 D268 T840 | 595x295x57 | 50000 | 1964 | 21 | 80+ | 4000 | 1,20 |
| Polaris R LED4x1000 D269 T840 | 595x595x57 | 50000 | 3928 | 39 | 80+ | 4000 | 2,00 |
| Polaris R LED1x2100 D270 T840 | 1195x143x57 | 50000 | 2073 | 22 | 80+ | 4000 | 2,00 |
| Polaris R LED2x2100 D271 T840 | 1195x295x57 | 50000 | 4145 | 41 | 80+ | 4000 | 2,20 |
| Polaris R LED4x2100 D272 T840 | 1195x595x57 | 50000 | 8291 | 83 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- WHT – White perforated inserts
- W625 – Designed for the German market to fit 625x625 suspended ceiling
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- SB – Supports brackets (4 pcs)

POLARIS R LED4X1000 D269 T840

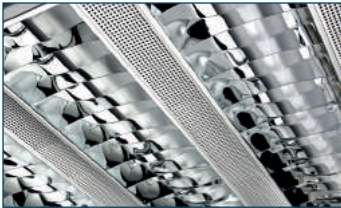


POLARIS R

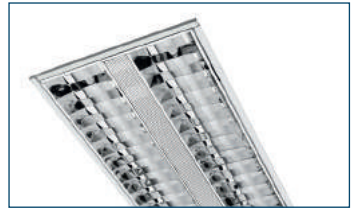
T5 Recessed
Luminaire with
Perforated Inserts



CE ENEC



POLARIS 228 F04



POLARIS 128 I10

Type: Innovative recessed T5 luminaire that incorporates the latest technology of Class A High Frequency Control gear, giving maximum efficiency, energy saving and quality of light. Outstanding design and look. One of the most elegant recessed luminaires on the market with superior lighting performance. Lightweight at just 1.8 kg with a height of only 57 mm.

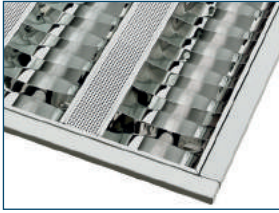
Specification: Double parabolic louvre with perforated inserts to give better light distribution. Fully enclosed body with mirror reflector, which improves light output and is exceptional to NORTHCLIFFE Lighting. The louvre is fitted into the body with four spring locks for maximum stability. Deluxe version louvres are manufactured using Alanod MIRO® aluminium with 95% reflectiveness. Fully enclosed white steel body. Deluxe version is made completely of matted aluminium. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar and/or plasterboard ceiling. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.

Application: Indoor. Office buildings, shops and other commercial environments.



Supports brackets (4 pcs) for installation into a plasterboard ceiling available on request.



To fit 625x625mm suspended ceiling (German market) could be designed. For more information check option list.

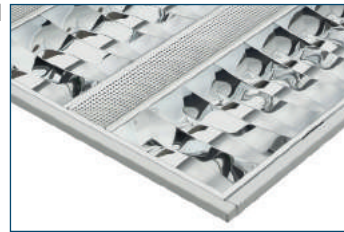
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Polaris 214 B12 DB | 2x14 (G5) | 595x295x57 | 1,1 | 31 |
| Polaris 224 D70 DB | 2x24 (G5) | 595x295x57 | 1,1 | 49 |
| Polaris 414 A01 DB | 4x14 (G5) | 595x595x57 | 1,8 | 62 |
| Polaris 424 D06 DB | 4x24 (G5) | 595x595x57 | 1,8 | 98 |
| Polaris 128 I10 DB | 1x28 (G5) | 1195x143x83 | 1,1 | 30,5 |
| Polaris 228 I11 DB | 2x28 (G5) | 1195x143x83 | 1,2 | 60 |
| Polaris 154 I12 DB | 1x54 (G5) | 1195x143x83 | 1,1 | 58 |
| Polaris 254 I13 DB | 2x54 (G5) | 1195x143x83 | 1,2 | 116 |
| Polaris 228 F04 DB | 2x28 (G5) | 1195x295x57 | 2,4 | 60 |
| Polaris 254 F05 DB | 2x54 (G5) | 1195x295x57 | 2,4 | 114,5 |
| Polaris 428 F06 DB | 4x28 (G5) | 1195x595x57 | 4,8 | 120 |
| Polaris 454 F07 DB | 4x54 (G5) | 1195x595x57 | 4,8 | 229 |

Options available on request:

- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- Deluxe – MIRO® aluminium louvre and matted aluminium body
- MAT – Matted reflector (subject to minimum quantity)
- MTO – Matted reflector Deluxe (subject to minimum quantity)
- MRO – Reflector Deluxe
- WHT – White perforated inserts
- W625 – Designed for the German market to fit 625x625 suspended ceiling
- WIE – 3-pole Wieland or similar connector
- DB – Version with straight cross-blades
- SB – Supports brackets (4 pcs)



DELUXE VERSION manufactured from MIRO® aluminium louvre and matted aluminium body



STANDARD VERSION manufactured from glossy aluminium louvre and white steel body

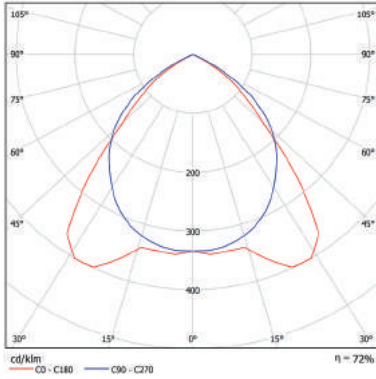


DB – version with cross-blades made of one piece (straight). For more information check option list.

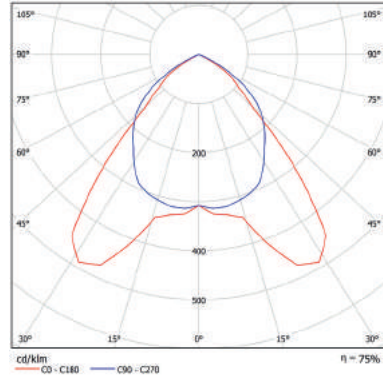


Fitting can be made with “Wieland” type socket for quick connection. “Push in” type connector for 2 cables 3x2,5mm² supplied with a fitting. Total installation time can be reduced to a few minutes. For more information check sophisticated solutions.

POLARIS 414 A01



POLARIS 214 B12 DELUXE



POLARIS

T5 Recessed Luminaire with White Inserts



Type: Innovative recessed T5 luminaire that incorporates the latest technology of Class A High Frequency Control gear, giving maximum efficiency, energy saving and quality of light.

Specification: Double parabolic louvre, with white inserts to give better light distribution. Fully enclosed body with mirror reflector, which improves light output and is exclusive to NORTHCLIFFE Lighting. The louvre is fitted into the body with four spring locks for maximum stability. Fully enclosed white steel body. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar ceiling and/or plasterboard ceiling. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.

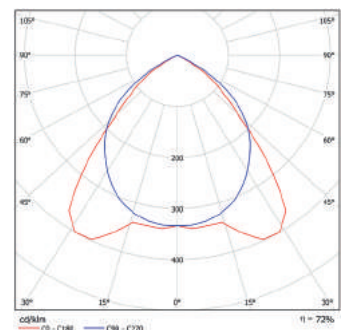
Application: Indoor. Office buildings, shops and other commercial environments.

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Polaris 214 O63 DB | 2x14 (G5) | 595x295x57 | 1,1 | 31 |
| Polaris 224 O64 DB | 2x24 (G5) | 595x295x57 | 1,1 | 49 |
| Polaris 314 E61 DB | 3x14 (G5) | 595x595x57 | 1,8 | 47 |
| Polaris 324 E62 DB | 3x24 (G5) | 595x595x57 | 1,8 | 74 |
| Polaris 414 F02 DB | 4x14 (G5) | 595x595x57 | 1,8 | 62 |
| Polaris 424 F03 DB | 4x24 (G5) | 595x595x57 | 1,8 | 98 |
| Polaris 228 F04 DB | 2x28 (G5) | 1195x295x57 | 2,4 | 60 |
| Polaris 254 F05 DB | 2x54 (G5) | 1195x295x57 | 2,4 | 114,5 |
| Polaris 428 S20 DB | 4x28 (G5) | 1195x595x57 | 4,8 | 120 |
| Polaris 454 S21 DB | 4x54 (G5) | 1195x595x57 | 4,8 | 229 |

Options available on request:

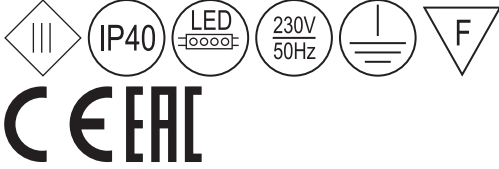
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- DB – Version with straight cross-blades
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- Deluxe – MIRO® aluminium louvre and matted aluminium body
- MAT – Matted reflector (subject to minimum quantity)
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- W625 – Designed for the German market to fit 625x625 suspended ceiling
- SB – Support brackets (4 pieces)

POLARIS 314 E61



LEVANTO PLN LED

Slim Profile LED Panel



| | |
|-----------------------|--|
| Type: | A slim profile LED panel with opal diffuser to create an attractive environment and a sense of natural light. |
| Specification: | UV stable opal diffuser. Fully enclosed white aluminium body. Luminaire is plastic-wrapped and packed individually. |
| Installation: | Fits 15-24mm exposed T-Bar ceiling 600x600mm. Suspension brackets included. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use Levanto PLN LED recessed mounting kit (to be ordered separately). |
| Application: | Indoor. Office buildings, shops and other commercial environments. |



Surface mounting box for Levanto PLN LED available on request. For more information check product list.

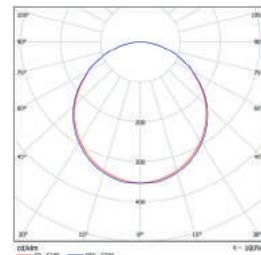
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Levanto PLN LED1x3400 C169 T830 OP | 596x596x11 | 36000 | 3314 | 40 | 80+ | 3000 | 3,40 |
| Levanto PLN LED1x3400 C169 T840 OP | 596x596x11 | 36000 | 3400 | 40 | 80+ | 4000 | 3,40 |
| Levanto PLN LED Surface MTG KIT (600x600) | 605x605x50 | | | | | | 1,5 |
| Levanto PLN LED Recessed MTG KIT (620x620) | 620x620x35 | | | | | | 0,5 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IP44 – IP44 protection degree (for recessed version)
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

LEVANTO PLN LED1X3400 C169 T840 OP

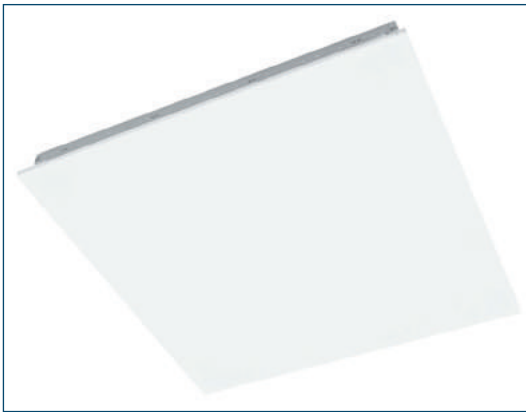


LEVANTO R

T5/LED Recessed Luminaire
with Opal Diffuser



CEAC



LEVANTO 414 R87

- Type:** Traditional recessed T5 or LED luminaire with opal diffuser for the majority of applications.
- Specification:** UV stable opal diffuser (framed version IP40).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Fits 15-24mm exposed T-Bar and/or plasterboard ceiling (only framed version). When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.
- Application:** Office buildings, shops and other commercial environments.



Fitting can be made with "Wieland" type socket for quick connection. "Push in" type connector for 2 cables 3x2,5mm² supplied with a fitting. Total installation time can be reduced to a few minutes. For more information check sophisticated solutions.

Luminaires with IP20 degree of protection:

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Levanto R LED2x1200 D244 T840 | 595x295x57 | 50000 | 2310 | 21 | 80+ | 4000 | 1,20 |
| Levanto R LED2x1700 D245 T840 | 595x295x57 | 50000 | 3243 | 29 | 80+ | 4000 | 1,20 |
| Levanto R LED3x1200 E019 T840 | 595x595x57 | 50000 | 3466 | 29 | 80+ | 4000 | 2,00 |
| Levanto R LED3x1700 D246 T840 | 595x595x57 | 50000 | 4865 | 43 | 80+ | 4000 | 2,00 |
| Levanto R LED4x1200 E020 T840 | 595x595x57 | 50000 | 4621 | 39 | 80+ | 4000 | 2,00 |
| Levanto R LED4x1700 D247 T840 | 595x595x57 | 50000 | 6486 | 57 | 80+ | 4000 | 2,00 |
| Levanto R LED1x2500 D248 T840 | 1195x143x57 | 50000 | 2438 | 22 | 80+ | 4000 | 2,00 |
| Levanto R LED1x3500 D249 T840 | 1195x143x57 | 50000 | 3423 | 30 | 80+ | 4000 | 2,00 |
| Levanto R LED2x2500 D250 T840 | 1195x295x57 | 50000 | 4877 | 41 | 80+ | 4000 | 2,20 |
| Levanto R LED2x3500 D251 T840 | 1195x295x57 | 50000 | 6846 | 61 | 80+ | 4000 | 2,20 |
| Levanto R LED3x2500 D252 T840 | 1195x595x57 | 50000 | 7315 | 62 | 80+ | 4000 | 4,50 |
| Levanto R LED3x3500 D253 T840 | 1195x595x57 | 50000 | 10270 | 91 | 80+ | 4000 | 4,50 |
| Levanto R LED4x2500 D254 T840 | 1195x595x57 | 50000 | 9754 | 83 | 80+ | 4000 | 4,50 |
| Levanto R LED4x3500 D255 T840 | 1195x595x57 | 50000 | 13693 | 121 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Luminaires with IP20 degree of protection:

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Levanto 114 R89 | 1x14 (G5) | 595x295x57 | 1,2 | 16 |
| Levanto 124 R90 | 1x24 (G5) | 595x295x57 | 1,2 | 25 |
| Levanto 214 R91 | 2x14 (G5) | 595x295x57 | 1,2 | 31 |
| Levanto 224 R92 | 2x24 (G5) | 595x295x57 | 1,2 | 49 |
| Levanto 314 R85 | 3x14 (G5) | 595x595x57 | 1,8 | 47 |
| Levanto 324 R86 | 3x24 (G5) | 595x595x57 | 1,8 | 74 |
| Levanto 414 R87 | 4x14 (G5) | 595x595x57 | 1,8 | 62 |
| Levanto 424 R88 | 4x24 (G5) | 595x595x57 | 1,8 | 98 |
| Levanto 128 R93 | 1x28 (G5) | 1195x143x57 | 1,4 | 30,5 |
| Levanto 154 R94 | 1x54 (G5) | 1195x143x57 | 1,4 | 58 |
| Levanto 228 R95 | 2x28 (G5) | 1195x295x57 | 2,4 | 60 |
| Levanto 254 R96 | 2x54 (G5) | 1195x295x57 | 2,4 | 115 |
| Levanto 328 R97 | 3x28 (G5) | 1195x595x57 | 4,8 | 90,5 |
| Levanto 354 R98 | 3x54 (G5) | 1195x595x57 | 4,8 | 173 |
| Levanto 428 R99 | 4x28 (G5) | 1195x595x57 | 4,8 | 120 |
| Levanto 454 S01 | 4x54 (G5) | 1195x595x57 | 4,8 | 229 |



UV stable Opal diffuser can be fitted to the body with a steel frame (IP40).

Luminaires with IP40 degree of protection (framed version):

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Levanto R LED2x1100 D256 T840 | 595x295x57 | 50000 | 2195 | 21 | 80+ | 4000 | 1,20 |
| Levanto R LED2x1600 D257 T840 | 595x295x57 | 50000 | 3081 | 29 | 80+ | 4000 | 1,20 |
| Levanto R LED3x1100 E021 T840 | 595x595x57 | 50000 | 3292 | 29 | 80+ | 4000 | 2,00 |
| Levanto R LED3x1600 D258 T840 | 595x595x57 | 50000 | 4622 | 43 | 80+ | 4000 | 2,00 |
| Levanto R LED4x1100 E022 T840 | 595x595x57 | 50000 | 4390 | 39 | 80+ | 4000 | 2,00 |
| Levanto R LED4x1600 D259 T840 | 595x595x57 | 50000 | 6162 | 57 | 80+ | 4000 | 2,00 |
| Levanto R LED1x2400 D260 T840 | 1195x143x57 | 50000 | 2316 | 22 | 80+ | 4000 | 2,00 |
| Levanto R LED1x3300 D261 T840 | 1195x143x57 | 50000 | 3252 | 30 | 80+ | 4000 | 2,00 |
| Levanto R LED2x2400 D262 T840 | 1195x295x57 | 50000 | 4633 | 41 | 80+ | 4000 | 2,20 |
| Levanto R LED2x3300 D263 T840 | 1195x295x57 | 50000 | 6504 | 61 | 80+ | 4000 | 2,20 |
| Levanto R LED3x2400 D264 T840 | 1195x595x57 | 50000 | 6949 | 62 | 80+ | 4000 | 4,50 |
| Levanto R LED3x3300 D265 T840 | 1195x595x57 | 50000 | 9756 | 91 | 80+ | 4000 | 4,50 |
| Levanto R LED4x2400 D266 T840 | 1195x595x57 | 50000 | 9266 | 83 | 80+ | 4000 | 4,50 |
| Levanto R LED4x3300 D267 T840 | 1195x595x57 | 50000 | 13008 | 121 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

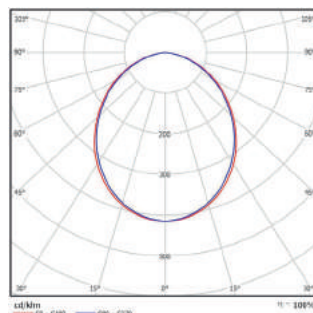
Luminaires with IP40 degree of protection (framed version):

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Levanto 214 S36 | 2x14 (G5) | 595x295x57 | 1,2 | 31 |
| Levanto 224 S37 | 2x24 (G5) | 595x295x57 | 1,2 | 49 |
| Levanto 314 S38 | 3x14 (G5) | 595x595x57 | 2 | 47 |
| Levanto 324 S39 | 3x24 (G5) | 595x595x57 | 2 | 74 |
| Levanto 414 S40 | 4x14 (G5) | 595x595x57 | 2 | 62 |
| Levanto 424 S41 | 4x24 (G5) | 595x595x57 | 2 | 98 |
| Levanto 128 S42 | 1x28 (G5) | 1195x143x57 | 1,6 | 30,5 |
| Levanto 154 S43 | 1x54 (G5) | 1195x143x57 | 1,6 | 58 |
| Levanto 228 S44 | 2x28 (G5) | 1195x295x57 | 2,6 | 60 |
| Levanto 254 S45 | 2x54 (G5) | 1195x295x57 | 2,6 | 115 |
| Levanto 328 S46 | 3x28 (G5) | 1195x595x57 | 5 | 90,5 |
| Levanto 354 S47 | 3x54 (G5) | 1195x595x57 | 5 | 173 |
| Levanto 428 S48 | 4x28 (G5) | 1195x595x57 | 5 | 120 |
| Levanto 454 S49 | 4x54 (G5) | 1195x595x57 | 5 | 229 |

Options available on request:

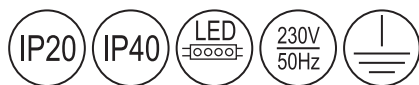
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- W625 – Designed for the German market to fit 625x625 suspended ceiling
- SB – Support brackets (4 pieces)
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

LEVANTO R LED3X1100 E021 T840



MARENCO R

T5/LED Recessed Luminaire with Prismatic Diffuser



MARENCO 414 R50

- Type:** Traditional recessed T5/LED luminaire with prismatic diffuser for the majority of applications.
- Specification:** Prismatic diffuser (framed version IP40).
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Fits 15-24mm exposed T-Bar and/or plasterboard ceiling (only framed version). When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.
- Application:** Indoor. Office buildings, shops and other commercial environments.

Luminaires with IP20 degree of protection:

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Marenco R LED2x1200 D278 T840 | 595x295x57 | 50000 | 2397 | 21 | 80+ | 4000 | 1,20 |
| Marenco R LED2x1700 D279 T840 | 595x295x57 | 50000 | 3365 | 29 | 80+ | 4000 | 1,20 |
| Marenco R LED3x1200 E023 T840 | 595x595x57 | 50000 | 3596 | 29 | 80+ | 4000 | 2,00 |
| Marenco R LED3x1700 D280 T840 | 595x595x57 | 50000 | 5047 | 43 | 80+ | 4000 | 2,00 |
| Marenco R LED4x1200 E024 T840 | 595x595x57 | 50000 | 4794 | 39 | 80+ | 4000 | 2,00 |
| Marenco R LED4x1700 D281 T840 | 595x595x57 | 50000 | 6730 | 57 | 80+ | 4000 | 2,00 |
| Marenco R LED1x2600 D282 T840 | 1195x143x57 | 50000 | 2530 | 22 | 80+ | 4000 | 2,00 |
| Marenco R LED1x3600 D283 T840 | 1195x143x57 | 50000 | 3552 | 30 | 80+ | 4000 | 2,00 |
| Marenco R LED2x2600 D284 T840 | 1195x295x57 | 50000 | 5060 | 41 | 80+ | 4000 | 2,20 |
| Marenco R LED2x3600 D285 T840 | 1195x295x57 | 50000 | 7103 | 61 | 80+ | 4000 | 2,20 |
| Marenco R LED3x2600 D286 T840 | 1195x595x57 | 50000 | 7590 | 62 | 80+ | 4000 | 4,50 |
| Marenco R LED3x3600 D287 T840 | 1195x595x57 | 50000 | 10655 | 91 | 80+ | 4000 | 4,50 |
| Marenco R LED4x2600 D288 T840 | 1195x595x57 | 50000 | 10119 | 83 | 80+ | 4000 | 4,50 |
| Marenco R LED4x3600 D289 T840 | 1195x595x57 | 50000 | 14206 | 121 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

Luminaires with IP20 degree of protection:

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Marenco 114 R44 | 1x14 (G5) | 595x295x57 | 1,2 | 16 |
| Marenco 124 R45 | 1x24 (G5) | 595x295x57 | 1,2 | 25 |
| Marenco 214 R46 | 2x14 (G5) | 595x295x57 | 1,2 | 31 |
| Marenco 224 R47 | 2x24 (G5) | 595x295x57 | 1,2 | 49 |
| Marenco 314 R48 | 3x14 (G5) | 595x595x57 | 1,8 | 47 |
| Marenco 324 R49 | 3x24 (G5) | 595x595x57 | 1,8 | 74 |
| Marenco 414 R50 | 4x14 (G5) | 595x595x57 | 1,8 | 62 |
| Marenco 424 R51 | 4x24 (G5) | 595x595x57 | 1,8 | 98 |
| Marenco 128 R52 | 1x28 (G5) | 1195x143x57 | 1,4 | 30,5 |
| Marenco 154 R53 | 1x54 (G5) | 1195x143x57 | 1,4 | 58 |
| Marenco 228 R54 | 2x28 (G5) | 1195x295x57 | 2,4 | 60 |
| Marenco 254 R55 | 2x54 (G5) | 1195x295x57 | 2,4 | 115 |
| Marenco 328 R56 | 3x28 (G5) | 1195x595x57 | 4,8 | 90,5 |
| Marenco 354 R57 | 3x54 (G5) | 1195x595x57 | 4,8 | 173 |
| Marenco 428 R58 | 4x28 (G5) | 1195x595x57 | 4,8 | 120 |
| Marenco 454 R59 | 4x54 (G5) | 1195x595x57 | 4,8 | 229 |



Prismatic diffuser can be fitted into the body with a steel frame (IP40).

Luminaires with IP40 degree of protection (framed version):

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Marenco R LED2x1200 D290 T840 | 595x295x57 | 50000 | 2282 | 21 | 80+ | 4000 | 1,20 |
| Marenco R LED2x1700 D291 T840 | 595x295x57 | 50000 | 3203 | 29 | 80+ | 4000 | 1,20 |
| Marenco R LED3x1200 E025 T840 | 595x595x57 | 50000 | 3422 | 29 | 80+ | 4000 | 2,00 |
| Marenco R LED3x1700 D292 T840 | 595x595x57 | 50000 | 4804 | 43 | 80+ | 4000 | 2,00 |
| Marenco R LED4x1200 E026 T840 | 595x595x57 | 50000 | 4563 | 39 | 80+ | 4000 | 2,00 |
| Marenco R LED4x1700 D293 T840 | 595x595x57 | 50000 | 6405 | 57 | 80+ | 4000 | 2,00 |
| Marenco R LED1x2500 D294 T840 | 1195x143x57 | 50000 | 2408 | 22 | 80+ | 4000 | 2,00 |
| Marenco R LED1x3400 D295 T840 | 1195x143x57 | 50000 | 3380 | 30 | 80+ | 4000 | 2,00 |
| Marenco R LED2x2500 D296 T840 | 1195x295x57 | 50000 | 4816 | 41 | 80+ | 4000 | 2,20 |
| Marenco R LED2x3400 D297 T840 | 1195x295x57 | 50000 | 6761 | 61 | 80+ | 4000 | 2,20 |
| Marenco R LED3x2500 D298 T840 | 1195x595x57 | 50000 | 7224 | 62 | 80+ | 4000 | 4,50 |
| Marenco R LED3x3400 D299 T840 | 1195x595x57 | 50000 | 10141 | 91 | 80+ | 4000 | 4,50 |
| Marenco R LED4x2500 D300 T840 | 1195x595x57 | 50000 | 9632 | 83 | 80+ | 4000 | 4,50 |
| Marenco R LED4x3400 D301 T840 | 1195x595x57 | 50000 | 13522 | 121 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

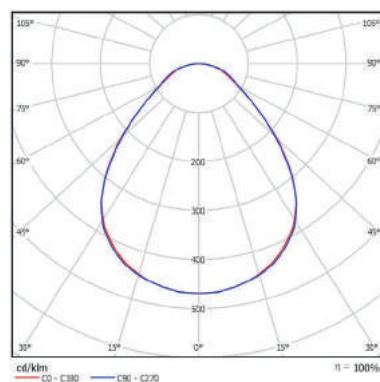
Luminaires with IP40 degree of protection (framed version):

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Marengo 214 S22 | 2x14 (G5) | 595x295x57 | 1,2 | 31 |
| Marengo 224 S23 | 2x24 (G5) | 595x295x57 | 1,2 | 49 |
| Marengo 314 S24 | 3x14 (G5) | 595x595x57 | 2 | 47 |
| Marengo 324 S25 | 3x24 (G5) | 595x595x57 | 2 | 74 |
| Marengo 414 S26 | 4x14 (G5) | 595x595x57 | 2 | 62 |
| Marengo 424 S27 | 4x24 (G5) | 595x595x57 | 2 | 98 |
| Marengo 128 S28 | 1x28 (G5) | 1195x143x57 | 1,6 | 30,5 |
| Marengo 154 S29 | 1x54 (G5) | 1195x143x57 | 1,6 | 58 |
| Marengo 228 S30 | 2x28 (G5) | 1195x295x57 | 2,6 | 60 |
| Marengo 254 S31 | 2x54 (G5) | 1195x295x57 | 2,6 | 115 |
| Marengo 328 S32 | 3x28 (G5) | 1195x595x57 | 5 | 90,5 |
| Marengo 354 S33 | 3x54 (G5) | 1195x595x57 | 5 | 173 |
| Marengo 428 S34 | 4x28 (G5) | 1195x595x57 | 5 | 120 |
| Marengo 454 S35 | 4x54 (G5) | 1195x595x57 | 5 | 229 |

Options available on request:

- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- MPRZ – Microprismatic diffuser
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- W625 – Designed for the German market to fit 625x625 suspended ceiling
- SB – Support brackets (4 pieces)

MARENCO R LED3X1200 E025 T840



BREEZE

T5/T8

Recessed Luminaire with
Specular Parabolic Louvre
and Mirror Cross Blades



BREEZE 414 F41



BREEZE 414 F41 9CR



BREEZE 236 B35 HF



BREEZE 436 C45 HF



BREEZE 418 A04 11CR HF



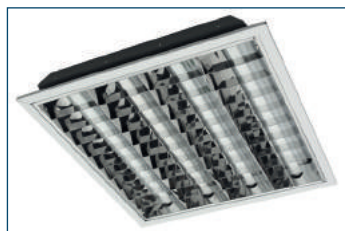
BREEZE 418 A04 RIB

Type: A versatile recessed T5/T8 luminaire with a choice of glossy or ribbed cross blades for the majority of applications. Premium quality at competitive prices.

Specification: There are two types of louvres in the range: specular parabolic with mirror cross blades and with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Number of cross blades is optional from 5 to 11 for better glare protection. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use recessed mounting kit S620x620 (to be ordered separately).

Application: Indoor. Office buildings, shops and other commercial environments.



To fit plasterboard and/or 625x625mm suspended ceiling (German market), it is recommended to use recessed mounting kit S620x620 (to be ordered separately).

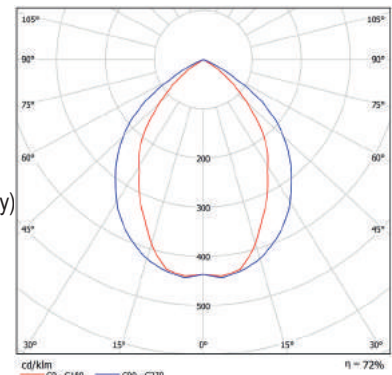
| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Breeze 318 F21 | 3x18 (G13) | 595x595x72 | 3,6 | 63 |
| Breeze 318 F21 7CR | 3x18 (G13) | 595x595x72 | 3,6 | 63 |
| Breeze 318 F21 9CR | 3x18 (G13) | 595x595x72 | 3,6 | 63 |
| Breeze 418 A04 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 7CR | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 9CR | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 11CR | 4x18 (G13) | 595x595x72 | 3,7 | 63 |
| Breeze 218 C44 | 2x18 (G13) | 595x295x85 | 2,4 | 42 |
| Breeze 236 B35 | 2x36 (G13) | 1195x295x85 | 3,9 | 84 |
| Breeze 336 L69 | 3x36 (G13) | 1195x595x85 | 6,6 | 126 |
| Breeze 436 C45 | 4x36 (G13) | 1195x595x85 | 7,2 | 168 |

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Breeze 214 I25 | 2x14 (G5) | 595x295x85 | 2,2 | 31 |
| Breeze 224 I26 | 2x24 (G5) | 595x295x85 | 2,2 | 49 |
| Breeze 314 K27 | 3x14 (G5) | 595x595x72 | 2,8 | 46 |
| Breeze 314 K27 7CR | 3x14 (G5) | 595x595x72 | 2,8 | 46 |
| Breeze 314 K27 9CR | 3x14 (G5) | 595x595x72 | 2,8 | 46 |
| Breeze 324 K34 | 3x24 (G5) | 595x595x72 | 3,05 | 73 |
| Breeze 324 K34 9CR | 3x24 (G5) | 595x595x72 | 3,05 | 73 |
| Breeze 414 F41 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Breeze 414 F41 7CR | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Breeze 414 F41 9CR | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Breeze 414 F41 11CR | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Breeze 424 F08 | 4x24 (G5) | 595x595x72 | 3,15 | 98 |
| Breeze 424 F08 9CR | 4x24 (G5) | 595x595x72 | 3,15 | 98 |
| Breeze 228 I27 | 2x28 (G5) | 1195x295x85 | 3,2 | 60 |
| Breeze 254 I28 | 2x54 (G5) | 1195x295x85 | 3,2 | 115 |
| Breeze 328 K30 | 3x28 (G5) | 1195x595x85 | 5,7 | 90 |
| Breeze 354 K31 | 3x54 (G5) | 1195x595x85 | 5,7 | 172,5 |
| Breeze 428 I29 | 4x28 (G5) | 1195x595x85 | 5,7 | 120 |
| Breeze 454 I30 | 4x54 (G5) | 1195x595x85 | 5,7 | 230 |

Options available on request:

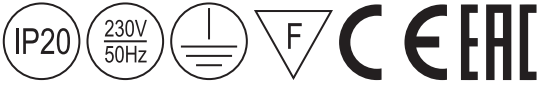
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- QCK – Quick connection version, includes tubes.
- MAT – Matted reflector
- MBL – Matted cross blades
- RIB – Ribbed cross blades
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- 11CR – Louvre with 11 cross blades
- 24CR – Louvre with 24 cross blades (2/4x28/54/36 W)

BREEZE 414 F41 9CR



BREEZE DPA

**T5 & T8 Recessed Luminaire
with Double Parabolic Louvre**



BREEZE 414 M70

Type: A recessed T5/T8 luminaire with a double parabolic louvre.

Specification: A glossy double parabolic reflector with glossy cross blades. Louvre is fitted into the body with locking safety clips for maximum stability. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use recessed mounting kit S620x620 (to be ordered separately).

Application: Indoor. Office buildings, shops and other commercial environments.

| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Breeze 418 I92 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 414 M70 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Breeze 424 M71 | 4x24 (G5) | 595x595x72 | 2,9 | 98 |

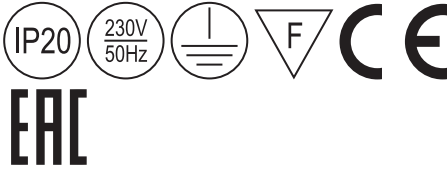
2 or 3 Tube (2/3x18/14W) versions are available on request

Options available on request:

- | | | | |
|------|-------------------------------|-----|---|
| HF | - High Frequency control gear | 5TB | - 5 way terminal block for loop feed and ease of wiring |
| DIM | - Dimmable ballast 1-10V | MAT | - Matted reflector (subject to minimum quantity) |
| SDIM | - Switch-control/dimming | WIE | - 3-pole Wieland or similar connector (subject to minimum quantity) |
| DALI | - DALI ballast | QCK | - Quick connection version, includes tubes. |
| EMG | - Emergency version 1 hour | | |
| EM3 | - Emergency version 3 hours | | |

MISTRAL

**T5 & T8 Recessed
Luminaire with Unique “One-
piece” V-shaped Louvre**



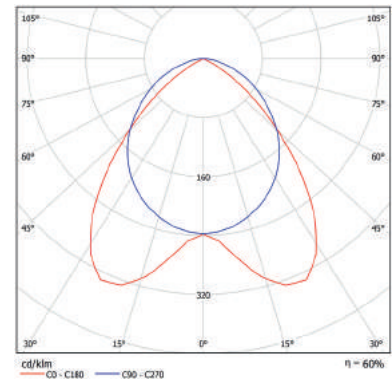
- Type:** Modern budget recessed luminaire with ideal light distribution without blinding glare.
- Specification:** A unique “One-piece” patented “Soft Light” V-shaped louvre with 5 ribbed cross blades for better light distribution. Louvre is fitted into the body with locking safety clips for maximum stability. Fully enclosed economical steel body, white painted. Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Fits 15-24mm exposed T-Bar ceiling 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use recessed mounting kit S620x620 (to be ordered separately).
- Application:** Office buildings, shops and other commercial environments.

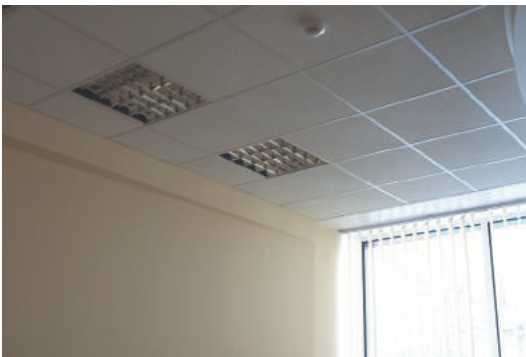
| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Mistral 418 A13 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Mistral 414 O96 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor

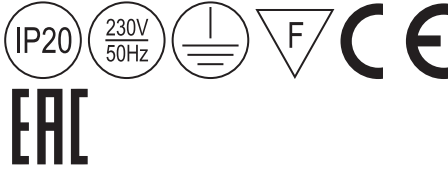
MISTRAL 418 A13 HF





LEVANTO

T8 Recessed Luminaire with Opal Diffuser



Type: Traditional recessed luminaire with opal diffuser for the majority of applications.

Specification: UV stable opal diffuser.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

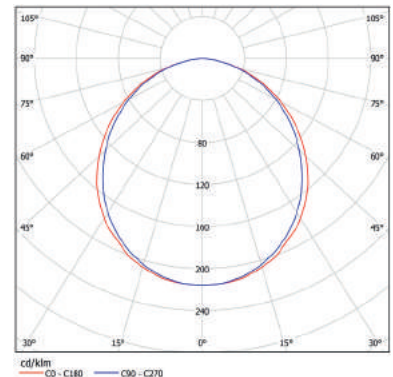
Application: Indoor. Office buildings, shops and other commercial environments.

| Type | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|-------------|---------------------|--------------------------------|------------|------------------|
| Levanto 218 H61 | IP20 | 2x18 (G13) | 595x295x85 | 2,4 | 42 |
| Levanto 318 L51 | IP20 | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Levanto 418 B07 | IP20 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Levanto 236 H62 | IP20 | 2x36 (G13) | 1195x295x85 | 3,9 | 84 |
| Levanto 336 L53 | IP20 | 3x36 (G13) | 1195x595x85 | 7,2 | 126 |
| Levanto 436 H63 | IP20 | 4x36 (G13) | 1195x595x85 | 7,2 | 168 |

Options available on request:

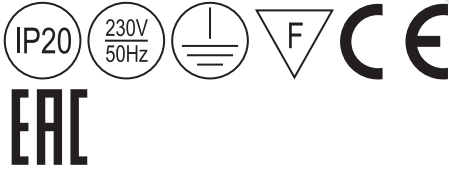
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- NCP – Low Power Factor
- LT80 – Opal diffuser with 80% light transmission

LEVANTO 418 B07 HF



MARENCO

T8 Recessed Luminaire with Prismatic Diffuser



Type: Traditional recessed luminaire with prismatic diffuser for the majority of applications.

Specification: UV stable prismatic diffuser.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar ceiling 600x600mm.

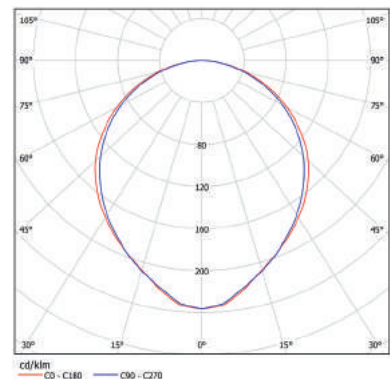
Application: Indoor. Office buildings, shops and other commercial environments.

| Type | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|-------------|---------------------|--------------------------------|------------|------------------|
| Marenco 218 I33 | IP20 | 2x18 (G13) | 595x295x85 | 2,4 | 42 |
| Marenco 318 L60 | IP20 | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Marenco 418 D09 | IP20 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Marenco 236 K25 | IP20 | 2x36 (G13) | 1195x295x85 | 3,9 | 84 |
| Marenco 336 L62 | IP20 | 3x36 (G13) | 1195x595x85 | 7,2 | 126 |
| Marenco 436 K26 | IP20 | 4x36 (G13) | 1195x595x85 | 7,2 | 168 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- WIE – 3-pole Wieland or similar connector (subject to minimum quantity)
- MPRZ – Microprismatic diffuser
- NCP – Low Power Factor

MARENCO 418 D09 HF





NORTHCLIFFE
MAKING LIFE BRIGHTER

SURFACE AND SUSPENDED LUMINAIRES

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CALIMA D LED

**New Concept Surface LED
Luminaire with
Microprismatic or
Opal Diffuser**



CE



CALIMA D LED1X3600 E284 T840 MPRZ LT92

Type: A new concept of surface mounted LED luminaires with microprismatic or opal diffuser for the majority of commercial lighting applications.

Specification: Diffuser: microprismatic (MPRZ LT92) or opal (OP LT80).
Body and gear tray: steel sheet painted in white. Body retaining clips for quick and easy installation. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Office buildings, shops, conference and educational environments.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Calima D LED1x1300 E275 T840 MPRZ LT92 | 595x295x60 | 50000 | 1213 | 11 | 80+ | 4000 | 2,00 |
| Calima D LED1x1800 E276 T840 MPRZ LT92 | 595x295x60 | 50000 | 1703 | 15 | 80+ | 4000 | 2,00 |
| Calima D LED1x2500 E278 T840 MPRZ LT92 | 595x295x60 | 50000 | 2433 | 21 | 80+ | 4000 | 2,00 |
| Calima D LED2x1300 E279 T840 MPRZ LT92 | 595x595x60 | 50000 | 2426 | 21 | 80+ | 4000 | 3,00 |
| Calima D LED2x1800 E280 T840 MPRZ LT92 | 595x595x60 | 50000 | 3405 | 29 | 80+ | 4000 | 3,00 |
| Calima D LED2x2500 E282 T840 MPRZ LT92 | 595x595x60 | 50000 | 4867 | 39 | 80+ | 4000 | 3,00 |
| Calima D LED3x1300 D302 T840 MPRZ LT92 | 595x595x60 | 50000 | 3639 | 29 | 80+ | 4000 | 3,00 |
| Calima D LED3x1800 D303 T840 MPRZ LT92 | 595x595x60 | 50000 | 5108 | 43 | 80+ | 4000 | 3,00 |
| Calima D LED3x2500 D304 T840 MPRZ LT92 | 595x595x60 | 50000 | 7300 | 59 | 80+ | 4000 | 3,00 |
| Calima D LED1x2600 E283 T840 MPRZ LT92 | 1195x295x60 | 50000 | 2560 | 22 | 80+ | 4000 | 3,00 |
| Calima D LED1x3600 E284 T840 MPRZ LT92 | 1195x295x60 | 50000 | 3594 | 30 | 80+ | 4000 | 3,00 |
| Calima D LED1x5200 E286 T840 MPRZ LT92 | 1195x295x60 | 50000 | 5138 | 41 | 80+ | 4000 | 3,00 |
| Calima D LED2x2600 E287 T840 MPRZ LT92 | 1195x595x60 | 50000 | 5121 | 41 | 80+ | 4000 | 6,00 |
| Calima D LED2x3600 E288 T840 MPRZ LT92 | 1195x595x60 | 50000 | 7189 | 61 | 80+ | 4000 | 6,00 |
| Calima D LED2x5200 E290 T840 MPRZ LT92 | 1195x595x60 | 50000 | 10277 | 83 | 80+ | 4000 | 6,00 |
| Calima D LED1x3300 E291 T840 MPRZ LT92 | 1495x295x60 | 50000 | 3234 | 28 | 80+ | 4000 | 4,50 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Calima D LED1x4600 E292 T840 MPRZ LT92 | 1495x295x60 | 50000 | 4540 | 38 | 80+ | 4000 | 4,50 |
| Calima D LED1x6500 E294 T840 MPRZ LT92 | 1495x295x60 | 50000 | 6491 | 52 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

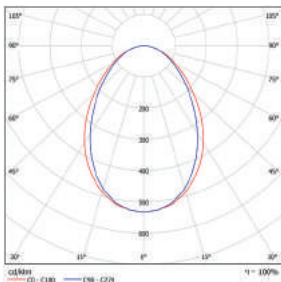
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Calima D LED1x1300 E275 T840 OP LT80 | 595x295x60 | 50000 | 1112 | 11 | 80+ | 4000 | 2,00 |
| Calima D LED1x1800 E276 T840 OP LT80 | 595x295x60 | 50000 | 1561 | 15 | 80+ | 4000 | 2,00 |
| Calima D LED1x2500 E278 T840 OP LT80 | 595x295x60 | 50000 | 2231 | 21 | 80+ | 4000 | 2,00 |
| Calima D LED2x1300 E279 T840 OP LT80 | 595x595x60 | 50000 | 2224 | 21 | 80+ | 4000 | 3,00 |
| Calima D LED2x1800 E280 T840 OP LT80 | 595x595x60 | 50000 | 3122 | 29 | 80+ | 4000 | 3,00 |
| Calima D LED2x2500 E282 T840 OP LT80 | 595x595x60 | 50000 | 4461 | 39 | 80+ | 4000 | 3,00 |
| Calima D LED3x1300 D302 T840 OP LT80 | 595x595x60 | 50000 | 3336 | 29 | 80+ | 4000 | 3,00 |
| Calima D LED3x1800 D303 T840 OP LT80 | 595x595x60 | 50000 | 4682 | 43 | 80+ | 4000 | 3,00 |
| Calima D LED3x2500 D304 T840 OP LT80 | 595x595x60 | 50000 | 6692 | 59 | 80+ | 4000 | 3,00 |
| Calima D LED1x2600 E283 T840 OP LT80 | 1195x295x60 | 50000 | 2347 | 22 | 80+ | 4000 | 3,00 |
| Calima D LED1x3600 E284 T840 OP LT80 | 1195x295x60 | 50000 | 3295 | 30 | 80+ | 4000 | 3,00 |
| Calima D LED1x5200 E286 T840 OP LT80 | 1195x295x60 | 50000 | 4710 | 41 | 80+ | 4000 | 3,00 |
| Calima D LED2x2600 E287 T840 OP LT80 | 1195x595x60 | 50000 | 4694 | 41 | 80+ | 4000 | 6,00 |
| Calima D LED2x3600 E288 T840 OP LT80 | 1195x595x60 | 50000 | 6590 | 61 | 80+ | 4000 | 6,00 |
| Calima D LED2x5200 E290 T840 OP LT80 | 1195x595x60 | 50000 | 9420 | 83 | 80+ | 4000 | 6,00 |
| Calima D LED1x3300 E291 T840 OP LT80 | 1495x295x60 | 50000 | 2965 | 28 | 80+ | 4000 | 4,50 |
| Calima D LED1x4600 E292 T840 OP LT80 | 1495x295x60 | 50000 | 4162 | 38 | 80+ | 4000 | 4,50 |
| Calima D LED1x6500 E294 T840 OP LT80 | 1495x295x60 | 50000 | 5950 | 52 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

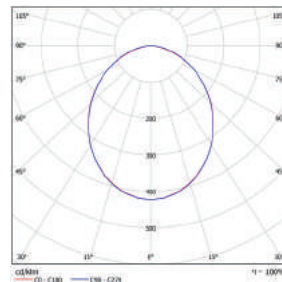
Options available on request:

- | | | | |
|------|--|-----------|---|
| DALI | – DALI driver | OP LT80 | – Opal diffuser with 80% light transmission |
| SDIM | – Switch-control/dimming | MPRZ LT92 | – Microprismatic diffuser for a better glare protection |
| TW | – Tunable white | | |
| BLT | – Bluetooth unit (for wireless control via mobile device) | IP44 | – IP44 protection degree |
| EMG | – Emergency version 1 hour | RAL | – RAL colours |
| EM3 | – Emergency version 3 hours | T830 | – Colour temperature 3000K |
| 5TB | – 5 way terminal block with two holes (for in and out going cable) | T840 | – Colour temperature 4000K |

CALIMA D LED2X1800 E280 T840 MPRZ LT92



CALIMA D LED2X1800 E280 T840 OP LT80



CALIMA U LED

Suspended LED Luminaire with Microprismatic or Opal Diffuser



Type: A low profile suspended LED luminaire with microprismatic or opal diffuser for the majority of applications.

Specification: Microprismatic or opal acrylic diffuser.
Fully enclosed white steel body with plastic end caps.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: For suspended mounting only. Wire suspension set and plastic cap to be ordered separately. Spiral power cable is included.

Application: Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Calima U LED1x2600 D238 T840 MPRZ LT92 | 1230x175x52 | 50000 | 2560 | 22 | 80+ | 4000 | 4,00 |
| Calima U LED1x3600 D239 T840 MPRZ LT92 | 1230x175x52 | 50000 | 3594 | 30 | 80+ | 4000 | 4,00 |
| Calima U LED1x5200 D240 T840 MPRZ LT92 | 1230x175x52 | 50000 | 5138 | 41 | 80+ | 4000 | 4,00 |
| Calima U LED2x3600 D332 T840 MPRZ LT92 | 1230x175x52 | 50000 | 7189 | 61 | 80+ | 4000 | 4,00 |
| Calima U LED1x3300 D241 T840 MPRZ LT92 | 1525x175x52 | 50000 | 3234 | 28 | 80+ | 4000 | 5,00 |
| Calima U LED1x4600 D242 T840 MPRZ LT92 | 1525x175x52 | 50000 | 4540 | 38 | 80+ | 4000 | 5,00 |
| Calima U LED1x6500 D243 T840 MPRZ LT92 | 1525x175x52 | 50000 | 6491 | 52 | 80+ | 4000 | 5,00 |
| Calima U LED2x4600 D334 T840 MPRZ LT92 | 1525x175x52 | 50000 | 9080 | 77 | 80+ | 4000 | 5,00 |
| Calima U LED1x2600 D238 T840 OP LT80 | 1230x175x52 | 50000 | 2347 | 22 | 80+ | 4000 | 4,00 |
| Calima U LED1x3600 D239 T840 OP LT80 | 1230x175x52 | 50000 | 3295 | 30 | 80+ | 4000 | 4,00 |
| Calima U LED1x5200 D240 T840 OP LT80 | 1230x175x52 | 50000 | 4710 | 41 | 80+ | 4000 | 4,00 |
| Calima U LED2x3600 D332 T840 OP LT80 | 1230x175x52 | 50000 | 6590 | 61 | 80+ | 4000 | 4,00 |
| Calima U LED1x3300 D241 T840 OP LT80 | 1525x175x52 | 50000 | 2965 | 28 | 80+ | 4000 | 5,00 |
| Calima U LED1x4600 D242 T840 OP LT80 | 1525x175x52 | 50000 | 4162 | 38 | 80+ | 4000 | 5,00 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Calima U LED1x6500 D243 T840 OP LT80 | 1525x175x52 | 50000 | 5950 | 52 | 80+ | 4000 | 5,00 |
| Calima U LED2x4600 D334 T840 OP LT80 | 1525x175x52 | 50000 | 8324 | 77 | 80+ | 4000 | 5,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

| | | | |
|------------|---|-----------|--|
| SDIM | - Switch-control/dimming | MPRZ LT92 | - Microprismatic diffuser for a better glare protection |
| DALI | - DALI driver | | |
| ACT | - Self-learning sensor | 5TB | - 5 way terminal block with two holes (for in and out going cable) |
| PULLSWITCH | - Pull switch device | | |
| TW | - Tunable white | WIE | - 3-pole Wieland or similar connector |
| BLT | - Bluetooth unit (for wireless control via mobile device) | SUS | - Suspended version |
| | | RAL | - RAL colours |
| EMG | - Emergency version 1 hour | T830 | - Colour temperature 3000K |
| EM3 | - Emergency version 3 hours | T840 | - Colour temperature 4000K |
| OP LT80 | - Opal diffuser with 80% light transmission | | |

BOOTES S LED



**Surface LED
Luminaire with Opal or
Microprismatic Diffuser**



| | |
|-----------------------|--|
| Type: | A practical surface mounted LED luminaire with opal or microprismatic diffuser. Quick and easy to install and to maintain. |
| Specification: | Diffuser: microprismatic (MPRZ LT92) or opal (OP LT80). Body and gear tray: steel sheet painted in white. Body retaining clips for quick and easy installation. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire is designed to be fixed to ceiling of any type or suspended. |
| Application: | Indoor. Office buildings, shops, hospitals, colleges and other similar institutions. |

Luminaires with IP40 degree of protection

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Bootes S LED1x2600 E231 T840 LT92 MPRZ | 1170x125x57 | 50000 | 2560 | 22 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3600 E232 T840 LT92 MPRZ | 1170x125x57 | 50000 | 3594 | 30 | 80+ | 4000 | 1,90 |
| Bootes S LED1x5200 E233 T840 LT92 MPRZ | 1170x125x57 | 50000 | 5138 | 41 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3300 E234 T840 LT92 MPRZ | 1460x125x57 | 50000 | 3234 | 27 | 80+ | 4000 | 2,20 |
| Bootes S LED1x4600 E235 T840 LT92 MPRZ | 1460x125x57 | 50000 | 4540 | 38 | 80+ | 4000 | 2,20 |
| Bootes S LED1x6500 E236 T840 LT92 MPRZ | 1460x125x57 | 50000 | 6491 | 52 | 80+ | 4000 | 2,20 |
| Bootes S LED1x2600 E231 T840 OP LT80 | 1170x125x57 | 50000 | 2347 | 22 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3600 E232 T840 OP LT80 | 1170x125x57 | 50000 | 3295 | 30 | 80+ | 4000 | 1,90 |
| Bootes S LED1x5200 E233 T840 OP LT80 | 1170x125x57 | 50000 | 4710 | 41 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3300 E234 T840 OP LT80 | 1460x125x57 | 50000 | 2965 | 27 | 80+ | 4000 | 2,20 |
| Bootes S LED1x4600 E235 T840 OP LT80 | 1460x125x57 | 50000 | 4162 | 38 | 80+ | 4000 | 2,20 |
| Bootes S LED1x6500 E236 T840 OP LT80 | 1460x125x57 | 50000 | 5950 | 52 | 80+ | 4000 | 2,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Luminaires with IP44 degree of protection

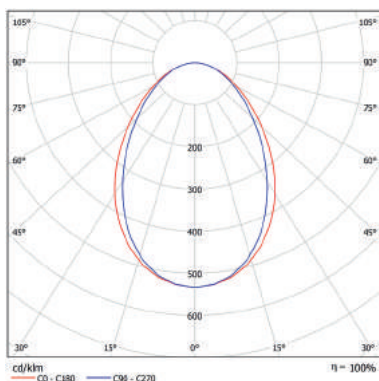
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Bootes S LED1x2600 E231 T840 LT92 MPRZ IP44 | 1170x125x57 | 50000 | 2560 | 22 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3600 E232 T840 LT92 MPRZ IP44 | 1170x125x57 | 50000 | 3594 | 30 | 80+ | 4000 | 1,90 |
| Bootes S LED1x5200 E233 T840 LT92 MPRZ IP44 | 1170x125x57 | 50000 | 5138 | 41 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3300 E234 T840 LT92 MPRZ IP44 | 1460x125x57 | 50000 | 3234 | 27 | 80+ | 4000 | 2,20 |
| Bootes S LED1x4600 E235 T840 LT92 MPRZ IP44 | 1460x125x57 | 50000 | 4540 | 38 | 80+ | 4000 | 2,20 |
| Bootes S LED1x6500 E236 T840 LT92 MPRZ IP44 | 1460x125x57 | 50000 | 6491 | 52 | 80+ | 4000 | 2,20 |
| Bootes S LED1x2600 E231 T840 OP LT80 IP44 | 1170x125x57 | 50000 | 2347 | 22 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3600 E232 T840 OP LT80 IP44 | 1170x125x57 | 50000 | 3295 | 30 | 80+ | 4000 | 1,90 |
| Bootes S LED1x5200 E233 T840 OP LT80 IP44 | 1170x125x57 | 50000 | 4710 | 41 | 80+ | 4000 | 1,90 |
| Bootes S LED1x3300 E234 T840 OP LT80 IP44 | 1460x125x57 | 50000 | 2965 | 27 | 80+ | 4000 | 2,20 |
| Bootes S LED1x4600 E235 T840 OP LT80 IP44 | 1460x125x57 | 50000 | 4162 | 38 | 80+ | 4000 | 2,20 |
| Bootes S LED1x6500 E236 T840 OP LT80 IP44 | 1460x125x57 | 50000 | 5950 | 52 | 80+ | 4000 | 2,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

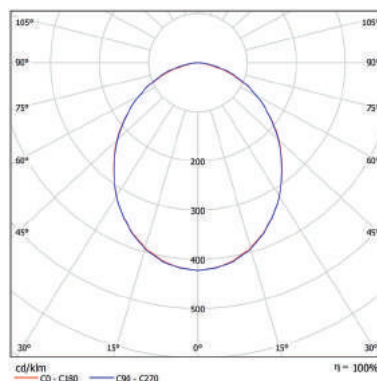
Options available on request:

- DALI – DALI driver
- SDIM – Switch-control/dimming
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- OP LT80 – Opal diffuser with 80% light transmission
- MPRZ LT92 – Microprismatic diffuser with glare protection
- RAL – RAL colours
- IP44 – IP44 protection degree
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BOOTES S LED1X3600 E232 T840 LT92 MPRZ



BOOTES S LED1X3600 E232 T840 OP LT80



BOOTES LED

Decorative Surface
LED Luminaire with
Opal Diffuser



BOOTES LED1X1100 E757 T840 OP
LT80



BOOTES LED1X4100 D383 T840 OP
LT80



BOOTES LED1X9600 E766 T840 OP
LT80



BOOTES LED1X4100 D380 T840 OP
LT80

Type: A decorative surface mounted LED luminaire with a modern shape body and opal diffuser.

Specification: UV stable opal diffuser is fitted to the body with an enclosed steel frame.
Light grey powder painted steel body and frame.
Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Office buildings, shops and other commercial environments.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Bootes LED1x800 E756 T840 OP LT80 | 382x382x75 | 50000 | 779 | 9 | 80+ | 4000 | 1,90 |
| Bootes LED1x1100 E757 T840 OP LT80 | 382x382x75 | 50000 | 1063 | 12 | 80+ | 4000 | 1,90 |
| Bootes LED1x1500 E758 T840 OP LT80 | 382x382x75 | 50000 | 1441 | 17 | 80+ | 4000 | 1,90 |

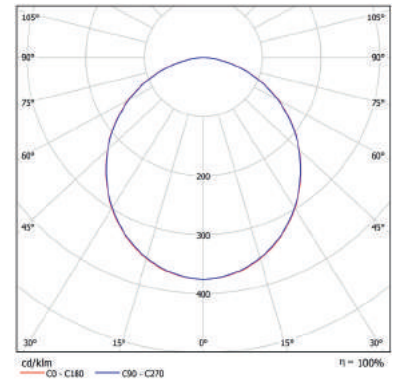
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Bootes LED1x3600 D379 T840 OP LT80 | 1132x382x75 | 50000 | 3508 | 33 | 80+ | 4000 | 4,40 |
| Bootes LED1x4100 D380 T840 OP LT80 | 1132x382x75 | 50000 | 4052 | 40 | 80+ | 4000 | 4,40 |
| Bootes LED1x5600 D381 T840 OP LT80 | 1132x382x75 | 50000 | 5594 | 60 | 80+ | 4000 | 4,40 |
| Bootes LED1x3600 D382 T840 OP LT80 | 632x632x75 | 50000 | 3508 | 33 | 80+ | 4000 | 4,50 |
| Bootes LED1x4100 D383 T840 OP LT80 | 632x632x75 | 50000 | 4052 | 40 | 80+ | 4000 | 4,50 |
| Bootes LED1x5600 D384 T840 OP LT80 | 632x632x75 | 50000 | 5594 | 60 | 80+ | 4000 | 4,50 |
| Bootes LED1x7100 E765 T840 OP LT80 | 882x882x75 | 50000 | 7011 | 70 | 80+ | 4000 | 5,50 |
| Bootes LED1x9600 E766 T840 OP LT80 | 882x882x75 | 50000 | 9563 | 102 | 80+ | 4000 | 5,70 |
| Bootes LED1x13000 E767 T840 OP LT80 | 882x882x75 | 50000 | 12972 | 147 | 80+ | 4000 | 5,70 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

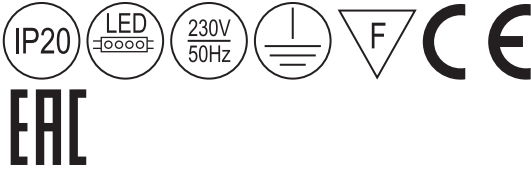
- DALI – DALI driver
- SDIM – Switch-control/dimming
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BOOTES LED1X4100 D383 T840 OP LT80



LODOS S LED

Decorative LED Luminaire



- Type:** A decorative and modern LED luminaire in four sizes to fit wide range of applications.
- Specification:** Opal acrylic diffuser.
White powder coated body and gear tray with quick lock system.
Luminaire is boxed individually.
- Installation:** Surface luminaire is designed to be fixed to ceiling of any type or suspended. Wire suspension set is ordered separately.
- Application:** Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (Lodos S suspension KIT) is available on request.

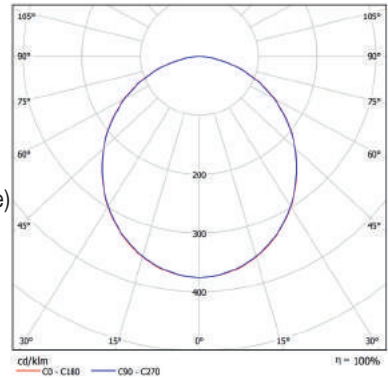
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Lodos S LED1x1800 D361 T840 OP LT80 | Ø300x125 | 50000 | 1798 | 19 | 80+ | 4000 | 2,50 |
| Lodos S LED1x2600 D362 T840 OP LT80 | Ø300x125 | 50000 | 2526 | 27 | 80+ | 4000 | 2,50 |
| Lodos S LED1x3300 D363 T840 OP LT80 | Ø450x125 | 50000 | 3251 | 31 | 80+ | 4000 | 4,80 |
| Lodos S LED1x4500 D364 T840 OP LT80 | Ø450x125 | 50000 | 4493 | 44 | 80+ | 4000 | 4,80 |
| Lodos S LED1x5900 D365 T840 OP LT80 | Ø600x135 | 50000 | 5849 | 55 | 80+ | 4000 | 7,50 |
| Lodos S LED1x7000 D366 T840 OP LT80 | Ø600x135 | 50000 | 6985 | 67 | 80+ | 4000 | 7,50 |
| Lodos S LED1x8400 D367 T840 OP LT80 | Ø900x150 | 50000 | 8332 | 80 | 80+ | 4000 | 10,50 |
| Lodos S LED1x10200 D368 T840 OP LT80 | Ø900x150 | 50000 | 10116 | 100 | 80+ | 4000 | 10,50 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- TW – Tunable white
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- RAL – RAL colours
- SUS – Suspended version
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

LODOS S LED1X5900 D365 T840 OP



TUCANA PAR LED

Surface/Suspended
LED Luminaire with
Double Parabolic Reflector



CE



| | |
|-----------------------|--|
| Type: | An attractive range of surface/suspended LED luminaires with double parabolic reflector for maximum efficiency and quality of light. |
| Specification: | Double parabolic louvre made of matted aluminium. UV stable opal diffuser. The louvre is fitted into the body with six spring locks for maximum stability. Fully enclosed white steel body with plastic end caps. Luminaire is boxed individually. |
| Installation: | Surface luminaire is designed to be fixed to ceiling of any type or suspended. |
| Application: | Indoor. Office buildings, shops and other commercial environments. |



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Tucana PAR LED2x1900 D369 MAT T840 | 1254x175x75 | 50000 | 3780 | 41 | 80+ | 4000 | 4,50 |
| Tucana PAR LED2x2700 D370 MAT T840 | 1254x175x75 | 50000 | 5306 | 61 | 80+ | 4000 | 4,50 |
| Tucana PAR LED2x2400 D371 MAT T840 | 1556x175x75 | 50000 | 4774 | 52 | 80+ | 4000 | 5,60 |
| Tucana PAR LED2x3400 D372 MAT T840 | 1556x175x75 | 50000 | 6702 | 77 | 80+ | 4000 | 5,60 |

* Tolerance range for optical and electrical data: $\pm 10\%$

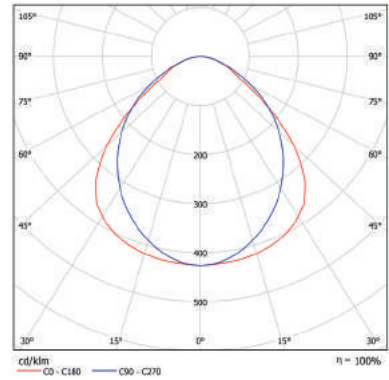
Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- ACT – Self-learning sensor
- PULLSWITCH – Pull switch device
- BLT – Bluetooth unit (for wireless control via mobile device)
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP LT80 – Opal diffuser with 80% light transmission
- MPRZ LT92 – Microprismatic diffuser for a better glare protection
- 5TB – 5 way terminal block with two holes (for in and out going cable)

- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks

- SUS – Suspended version
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

TUCANA PAR LED2X3400 D372 MAT T840



TUCANA LED

Surface/Suspended
LED Luminaire for
Direct Illumination



Type: A low profile, surface mounted or suspended LED luminaire with double parabolic reflector for better glare control.

Specification: Double parabolic louvre made of glossy aluminium. UV stable opal diffuser. The louvre is fitted into the body with six spring locks for maximum stability. Fully enclosed white steel body with plastic end caps. Luminaire is boxed individually.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Tucana LED1x2200 D305 T840 | 1260x175x52 | 50000 | 2134 | 21 | 80+ | 4000 | 3,20 |
| Tucana LED1x3000 D306 T840 | 1260x175x52 | 50000 | 3000 | 29 | 80+ | 4000 | 3,20 |
| Tucana LED1x4200 D307 T840 | 1260x175x52 | 50000 | 4160 | 41 | 80+ | 4000 | 3,20 |
| Tucana LED1x2700 D308 T840 | 1562x175x52 | 50000 | 2696 | 26 | 80+ | 4000 | 3,80 |
| Tucana LED1x3800 D309 T840 | 1562x175x52 | 50000 | 3790 | 36 | 80+ | 4000 | 3,80 |
| Tucana LED1x5300 D310 T840 | 1562x175x52 | 50000 | 5254 | 52 | 80+ | 4000 | 3,80 |

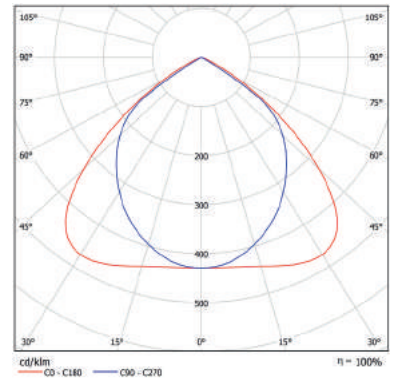
* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- PULLSWITCH – Pull switch device
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)

- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks
- SUS – Suspended version
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

TUCANA LED1X4200 D307 T840



TUCANA

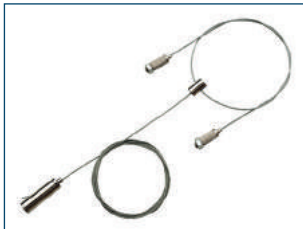
T5 Surface/ Suspended Double Parabolic Luminaire



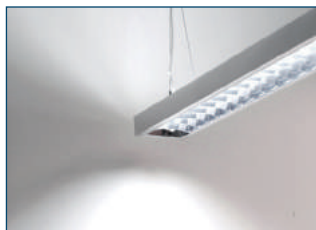
EAC



| | |
|-----------------------|--|
| Type: | Suspended or surface mounted T5 luminaire for maximum efficiency and quality of light. |
| Specification: | Double parabolic louvre made of mirror aluminium. The louvre is fitted into the body with six spring locks for maximum stability. Deluxe version louvres are manufactured using Alanod MIRO aluminium with 95% reflection. Fully enclosed white steel body with plastic end caps. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceiling of any type or suspended. |
| Application: | Office buildings, shops and other commercial environments. |



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.



LG3 – Luminaire fits to LG3 requirements (with 30% light distribution to the ceiling and 70% to the floor). Available on request.



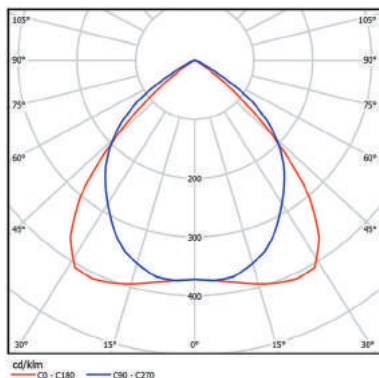
Pull switch version (to switch on/off) available on request. For more information check option list.

| Name | Lamp (W) and holder | Overall dimensions (Lx-WxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|---------------------------------|------------|------------------|
| Tucana 128 J75 DB | 1x28 (G5) | 1265x175x52 | 3 | 30 |
| Tucana 228 J76 DB | 2x28 (G5) | 1265x175x52 | 3,1 | 60 |
| Tucana 135 J77 DB | 1x35 (G5) | 1565x175x52 | 3,7 | 38 |
| Tucana 235 J78 DB | 2x35 (G5) | 1565x175x52 | 3,8 | 75 |
| Tucana 149 J79 DB | 1x49 (G5) | 1565x175x52 | 3,7 | 53 |
| Tucana 249 J80 DB | 2x49 (G5) | 1565x175x52 | 3,8 | 104 |
| Tucana 154 J81 DB | 1x54 (G5) | 1265x175x52 | 3,0 | 58 |
| Tucana 254 J82 DB | 2x54 (G5) | 1265x175x52 | 3,1 | 115 |
| Tucana 180 J83 DB | 1x80 (G5) | 1565x175x52 | 3,8 | 85 |
| Tucana 280 J84 DB | 2x80 (G5) | 1565x175x52 | 3,9 | 170 |

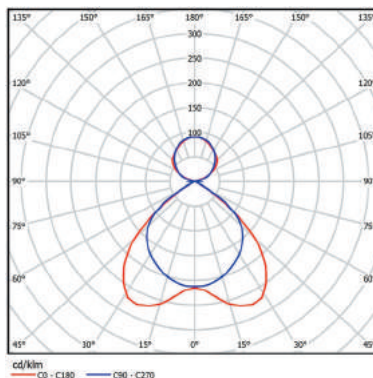
Options available on request:

- | | | | |
|------------|--|------|---|
| DIM | - Dimmable ballast | MAT | - Matted reflector (subject to minimum quantity) |
| SDIM | - Switch-control/dimming | MRO | - MIRO® reflector Deluxe (subject to minimum quantity) |
| DALI | - DALI ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminal blocks |
| PULLSWITCH | - Pull switch device | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminal blocks |
| EMG | - Emergency version 1 hour | RAL | - RAL colours |
| EM3 | - Emergency version 3 hours | LG3 | - LG3 option |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | SUSY | - Suspension wire set (2 pcs) |
| | | CAPW | - White suspension cap with spiral cable 3x1mm ² |

TUCANA 149 J79



TUCANA 249 J80 LG3



TUCANA SENSE&SOLO series with 30 cm closed profile and designed to fulfil the needs for easy-to-use, energy saving lighting control. The basic functions are pre-programmed and are fully adjustable to meet all requirements. For more information check page 10.



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off



Bright
out

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------------|---------------------|--------------------------------|------------|------------------|
| Tucana 128 J75 DB Sense&Solo | 1x28 (G5) | 1265x175x52 | 3 | 30 |
| Tucana 228 J76 DB Sense&Solo | 2x28 (G5) | 1265x175x52 | 3,1 | 60 |
| Tucana 135 J77 DB Sense&Solo | 1x35 (G5) | 1565x175x52 | 3,7 | 38 |
| Tucana 235 J78 DB Sense&Solo | 2x35 (G5) | 1565x175x52 | 3,8 | 75 |
| Tucana 149 J79 DB Sense&Solo | 1x49 (G5) | 1565x175x52 | 3,7 | 53 |
| Tucana 249 J80 DB Sense&Solo | 2x49 (G5) | 1565x175x52 | 3,8 | 104 |
| Tucana 154 J81 DB Sense&Solo | 1x54 (G5) | 1265x175x52 | 3,0 | 58 |
| Tucana 254 J82 DB Sense&Solo | 2x54 (G5) | 1265x175x52 | 3,1 | 115 |
| Tucana 180 J83 DB Sense&Solo | 1x80 (G5) | 1565x175x52 | 3,8 | 85 |
| Tucana 280 J84 DB Sense&Solo | 2x80 (G5) | 1565x175x52 | 3,9 | 170 |



Fitting for in-line connection can be ordered on request. Please add "I" join element (**TUCANA I-JOIN**).



TUCANA versions with up and down independent tubes and control gears. Can be supplied with PullSwitch.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|--------------------------------|------------|------------------|
| Tucana 128128 P71 DB | 1x28+1x28 (G5) | 1265x175x85 | 4 | 30 |
| Tucana 228128 P72 DB | 2x28+1x28 (G5) | 1265x175x85 | 4,1 | 60 |
| Tucana 135135 P73 DB | 1x35+1x35 (G5) | 1565x175x85 | 4,7 | 38 |
| Tucana 235135 P74 DB | 2x35+1x35 (G5) | 1565x175x85 | 4,8 | 75 |
| Tucana 149149 P76 DB | 1x49+1x49 (G5) | 1565x175x85 | 4,7 | 53 |
| Tucana 249149 P77 DB | 2x49+1x49 (G5) | 1565x175x85 | 4,8 | 104 |
| Tucana 154154 P78 DB | 1x54+1x54 (G5) | 1265x175x85 | 4,0 | 58 |
| Tucana 254154 P79 DB | 2x54+1x54 (G5) | 1265x175x85 | 4,1 | 115 |
| Tucana 180180 P80 DB | 1x80+1x80 (G5) | 1565x175x85 | 4,8 | 85 |
| Tucana 280180 P81 DB | 2x80+1x80 (G5) | 1565x175x85 | 4,9 | 170 |

Options available on request:

- | | | | |
|------------|--|------|---|
| DIM | - Dimmable ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminal blocks |
| SDIM | - Switch-control/dimming | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminal blocks |
| DALI | - DALI ballast | RAL | - RAL colours |
| PULLSWITCH | - Pull switch device | LG3 | - LG3 option |
| EMG | - Emergency version 1 hour | SUSY | - Suspension wire set (2 pcs) |
| EM3 | - Emergency version 3 hours | CAPW | - White suspension cap with spiral cable 3x1mm ² |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | DB | - Version with straight cross-blades |
| MAT | - Matted reflector | | |
| MRO | - MIRO® reflector Deluxe (subject to minimum quantity) | | |



POLARIS S LED



**Surface LED Luminaire
for direct illumination**



CE ENEC

Type: A low profile, surface mounted LED luminaire with double parabolic reflector for better glare control.

Specification: Double parabolic louvre made of glossy aluminium. UV stable opal diffuser. The louvre is fitted into the body with spring locks for maximum stability. Fully enclosed white steel body. Luminaire is boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Indoor. Office buildings, shops and other commercial environments.

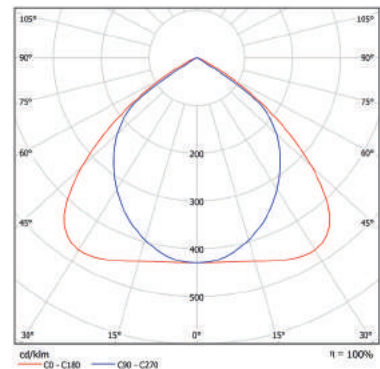
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Polaris S LED2x1000 D385 T840 | 605x295x57 | 50000 | 1964 | 21 | 80+ | 4000 | 1,20 |
| Polaris S LED4x1000 D386 T840 | 605x605x57 | 50000 | 3928 | 39 | 80+ | 4000 | 2,00 |
| Polaris S LED1x2200 D387 T840 | 1210x143x57 | 50000 | 2134 | 21 | 80+ | 4000 | 3,20 |
| Polaris S LED1x3000 D388 T840 | 1210x143x57 | 50000 | 3000 | 29 | 80+ | 4000 | 3,20 |
| Polaris S LED1x4200 D389 T840 | 1210x143x57 | 50000 | 4160 | 41 | 80+ | 4000 | 3,20 |
| Polaris S LED2x2200 D390 T840 | 1210x295x57 | 50000 | 4268 | 40 | 80+ | 4000 | 3,20 |
| Polaris S LED2x3000 D391 T840 | 1210x295x57 | 50000 | 6000 | 58 | 80+ | 4000 | 3,20 |
| Polaris S LED2x4200 D392 T840 | 1210x295x57 | 50000 | 8319 | 83 | 80+ | 4000 | 3,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

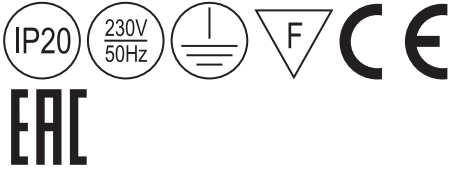
- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

POLARIS S LED4X1000 D386 T840



POLARIS

T5 Surface Double
Parabolic Luminaire with
Perforated Inserts



POLARIS 214 B22 DB

Type: One of the most elegant T5 surface luminaires on the market with superior lighting performance. Outstanding design and look. Lightweight at just 1.9 kg with a height of only 57 mm.

Specification: Double parabolic louvre, with perforated aluminium inserts to give better light distribution. The louvre is fitted into the body with four spring locks for maximum stability. Deluxe version louvres are manufactured using Alanod MIRO aluminium with 95% reflection. Fully enclosed white steel body. Deluxe version is made completely of matted aluminium. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

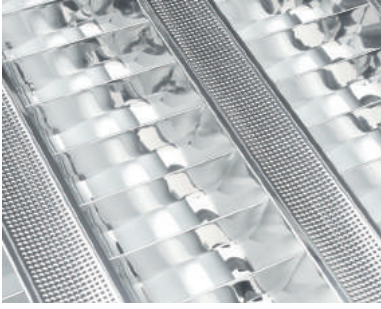
Application: Indoor. Office buildings, shops and other commercial environments.



DELUXE VERSION
manufactured from MIRO®
aluminium louver and
matted aluminium body



STANDARD VERSION
manufactured from glossy
aluminium louver and white
steel body



DB – version with cross-blades made of one piece (straight). For more information check in option list.

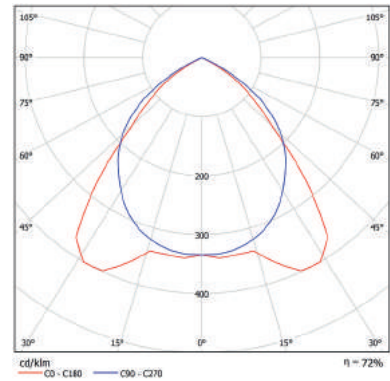
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Polaris 214 B22 DB | 2x14 (G5) | 605x295x57 | 1,2 | 31 |
| Polaris 224 D79 DB | 2x24 (G5) | 605x295x57 | 1,2 | 49 |
| Polaris 414 A19 DB | 4x14 (G5) | 605x605x57 | 1,9 | 62 |
| Polaris 424 D12 DB | 4x24 (G5) | 605x605x57 | 2,1 | 98 |

3x14/24 W version with white inserts available on request

Options available on request:

- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes
- Deluxe – MIRO® aluminium louvre and matted aluminium body
- MAT – Matted reflector (subject to minimum quantity)
- MRO – Mirror reflector Deluxe
- MTO – Matted reflector Deluxe (subject to minimum quantity)
- WHT – White perforated inserts
- DB – Version with straight cross-blades

POLARIS 414 A19



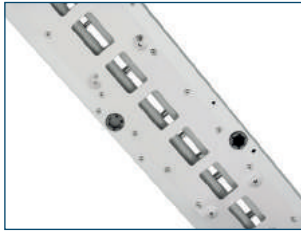
POLARIS LINEAR NARROW&WIDE



T5 Surface/ Suspended Slimline
Double Parabolic Luminaire



POLARIS 228 A22 DB



LG3 – Luminaire fits to LG3 requirements (with 30% light distribution to the ceiling and 70% to the floor). Available on request.

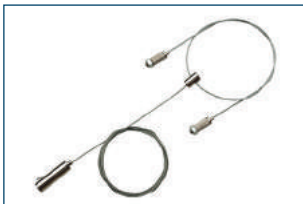
Type: Slim&Wide versions of suspended or surface T5 luminaire for maximum efficiency and quality of light. Attractive design and look. Lightweight at just 1.1-2,1 kg with a height of only 57 mm.

Specification: Double parabolic louvre to give better light distribution. Fully enclosed body with mirror reflector, which improves light output and is exceptional to NORTHCLIFFE Lighting. The louvre is fitted into the body with six spring locks for maximum stability.

Deluxe version louvres are manufactured using Alanod MIRO aluminium with 95% reflection. Fully enclosed white steel body. Deluxe version is made completely of matted aluminium. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.

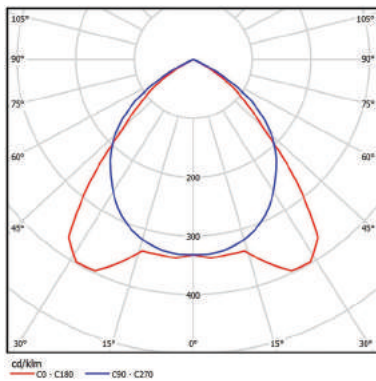
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Polaris 128 A20 DB | 1x28 (G5) | 1210x143x57 | 1,1 | 30,5 |
| Polaris 154 A24 DB | 1x54 (G5) | 1210x143x57 | 1,1 | 58 |
| Polaris 228 A21 DB | 2x28 (G5) | 1210x143x57 | 1,2 | 60 |
| Polaris 254 A25 DB | 2x54 (G5) | 1210x143x57 | 1,2 | 116 |
| Polaris 228 A22 DB | 2x28 (G5) | 1210x295x57 | 1,9 | 60 |
| Polaris 254 A26 DB | 2x54 (G5) | 1210x295x57 | 1,9 | 116 |
| Polaris 428 A23 DB | 4x28 (G5) | 1210x295x57 | 2,1 | 120 |
| Polaris 454 A27 DB | 4x54 (G5) | 1210x295x57 | 2,1 | 232 |
| Polaris 128 A20 Deluxe | 1x28 (G5) | 1210x143x57 | 1,1 | 30,5 |
| Polaris 154 A24 Deluxe | 1x54 (G5) | 1210x143x57 | 1,1 | 58 |
| Polaris 228 A21 Deluxe | 2x28 (G5) | 1210x143x57 | 1,2 | 60 |
| Polaris 254 A25 Deluxe | 2x54 (G5) | 1210x143x57 | 1,2 | 116 |
| Polaris 228 A22 Deluxe | 2x28 (G5) | 1210x295x57 | 1,9 | 60 |
| Polaris 254 A26 Deluxe | 2x54 (G5) | 1210x295x57 | 1,9 | 116 |
| Polaris 428 A23 Deluxe | 4x28 (G5) | 1210x295x57 | 2,1 | 120 |
| Polaris 454 A27 Deluxe | 4x54 (G5) | 1210x295x57 | 2,1 | 232 |

1x14/24 and 2x14/24W versions are available on request

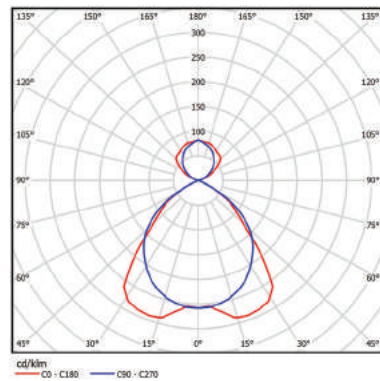
Options available on request:

- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- MAT – Matted reflector
- LG3 – LG3 option
- Deluxe – MIRO® aluminium louvre and matted aluminium body
- MRO – Mirror reflector Deluxe
- MTO – Matted reflector Deluxe (subject to minimum quantity)
- SMS – Glossy aluminium body
- SUSY – Suspension wire set (2 pcs)
- CAPW – White cap with spiral cable 3x1mm2
- DB – Version with straight cross-blades

POLARIS 228 A21



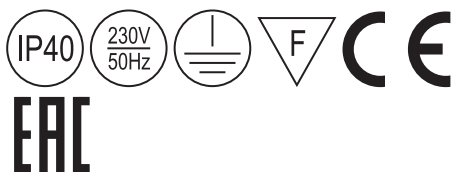
POLARIS 228 A21 DELUXE LG3



LEVANTO & MARENCO LED



Surface LED Luminaire with Opal or Prismatic Diffuser



Type: Traditional surface LED luminaire with opal or prismatic diffuser for the majority of applications.

Specification: UV stable opal (Levanto) or prismatic (Marenco) diffuser fitted to the body with a steel frame. Fully enclosed white steel body. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Office buildings, shops and other commercial environments.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Levanto S LED2x1100 D311 T840 | 605x295x57 | >50000 | 2137 | 21 | 80+ | 4000 | 1,40 |
| Levanto S LED2x1500 D312 T840 | 605x295x57 | >50000 | 3000 | 29 | 80+ | 4000 | 1,40 |
| Levanto S LED3x1100 D313 T840 | 605x605x57 | >50000 | 3206 | 29 | 80+ | 4000 | 2,20 |
| Levanto S LED3x1500 D314 T840 | 605x605x57 | >50000 | 4500 | 43 | 80+ | 4000 | 2,20 |
| Levanto S LED4x1100 D315 T840 | 605x605x57 | >50000 | 4274 | 39 | 80+ | 4000 | 2,20 |
| Levanto S LED4x1500 D316 T840 | 605x605x57 | >50000 | 6000 | 57 | 80+ | 4000 | 2,20 |
| Levanto S LED1x2300 D317 T840 | 1210x143x57 | >50000 | 2256 | 22 | 80+ | 4000 | 1,80 |
| Levanto S LED1x3200 D318 T840 | 1210x143x57 | >50000 | 3166 | 30 | 80+ | 4000 | 1,80 |
| Levanto S LED1x4600 D319 T840 | 1210x143x57 | >50000 | 4527 | 41 | 80+ | 4000 | 1,80 |
| Levanto S LED2x2300 D320 T840 | 1210x295x57 | >50000 | 4511 | 41 | 80+ | 4000 | 2,80 |
| Levanto S LED2x3200 D321 T840 | 1210x295x57 | >50000 | 6333 | 61 | 80+ | 4000 | 2,80 |
| Levanto S LED2x4600 D322 T840 | 1210x295x57 | >50000 | 9053 | 83 | 80+ | 4000 | 2,80 |

* Tolerance range for optical and electrical data: $\pm 10\%$

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Marenco S LED2x1100 D393 T840 | 605x295x57 | 50000 | 2195 | 21 | 80+ | 4000 | 1,40 |
| Marenco S LED2x1600 D394 T840 | 605x295x57 | 50000 | 3081 | 29 | 80+ | 4000 | 1,40 |
| Marenco S LED3x1100 D395 T840 | 605x605x57 | 50000 | 3292 | 29 | 80+ | 4000 | 2,20 |
| Marenco S LED3x1600 D396 T840 | 605x605x57 | 50000 | 4622 | 43 | 80+ | 4000 | 2,20 |
| Marenco S LED4x1100 D397 T840 | 605x605x57 | 50000 | 4390 | 39 | 80+ | 4000 | 2,20 |

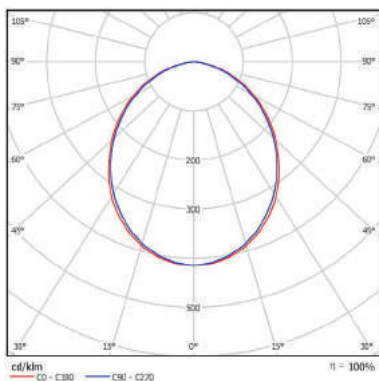
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Marengo S LED4x1600 D398 T840 | 605x605x57 | 50000 | 6162 | 57 | 80+ | 4000 | 2,20 |
| Marengo S LED1x2400 D399 T840 | 1210x143x57 | 50000 | 2316 | 22 | 80+ | 4000 | 1,80 |
| Marengo S LED1x3300 D400 T840 | 1210x143x57 | 50000 | 3252 | 30 | 80+ | 4000 | 1,80 |
| Marengo S LED1x4700 D401 T840 | 1210x143x57 | 50000 | 4649 | 41 | 80+ | 4000 | 1,80 |
| Marengo S LED2x2400 D402 T840 | 1210x295x57 | 50000 | 4633 | 41 | 80+ | 4000 | 2,80 |
| Marengo S LED2x3300 D403 T840 | 1210x295x57 | 50000 | 6504 | 61 | 80+ | 4000 | 2,80 |
| Marengo S LED2x4700 D404 T840 | 1210x295x57 | 50000 | 9298 | 83 | 80+ | 4000 | 2,80 |

* Tolerance range for optical and electrical data: $\pm 10\%$

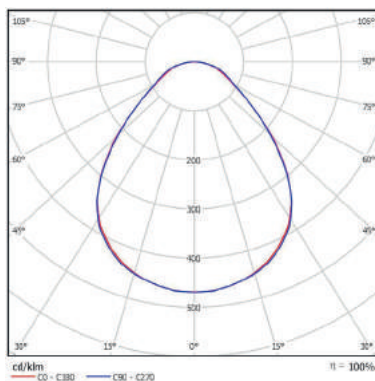
Options available on request:

- DIM – Dimmable driver 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- MPRZ – Microprismatic diffuser
- LT80 – Opal diffuser with 80% light transmission
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

LEVANTO S LED3X1500 D314 T840



MARENGO S LED3X1600 D396 T840



LEVANTO & MARENCO

T5 Surface Luminaire with framed Opal or Prismatic Diffuser



MARENCO 414 S59

- Type:** Traditional surface T5 luminaire with opal or prismatic diffuser for most applications.
- Specification:** UV stable opal (Levanto) or prismatic (Marengo) diffuser fitted to the body with a steel frame. Fully enclosed white steel body. Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Surface luminaire designed to be fixed to ceiling of any type or suspended.
- Application:** Indoor. Office buildings, shops and other commercial environments.

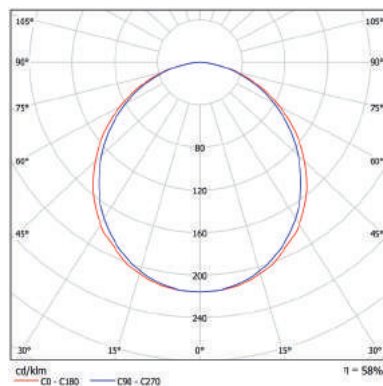
| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|--------------|---------------------|--------------------------------|------------|------------------|
| Marengo 214 S55 | IP40, framed | 2x14 (G5) | 605x295x57 | 1,2 | 31 |
| Marengo 224 S56 | IP40, framed | 2x24 (G5) | 605x295x57 | 1,2 | 49 |
| Marengo 314 S57 | IP40, framed | 3x14 (G5) | 605x605x57 | 2 | 47 |
| Marengo 324 S58 | IP40, framed | 3x24 (G5) | 605x605x57 | 2 | 74 |
| Marengo 414 S59 | IP40, framed | 4x14 (G5) | 605x605x57 | 2 | 62 |
| Marengo 424 S60 | IP40, framed | 4x24 (G5) | 605x605x57 | 2 | 98 |
| Marengo 128 S61 | IP40, framed | 1x28 (G5) | 1210x143x57 | 1,6 | 30,5 |
| Marengo 154 S62 | IP40, framed | 1x54 (G5) | 1210x143x57 | 1,6 | 58 |
| Marengo 228 S63 | IP40, framed | 2x28 (G5) | 1210x143x57 | 1,6 | 60 |
| Marengo 254 S64 | IP40, framed | 2x54 (G5) | 1210x143x57 | 1,6 | 115 |
| Marengo 228 S65 | IP40, framed | 2x28 (G5) | 1210x295x57 | 2,6 | 60 |
| Marengo 254 S66 | IP40, framed | 2x54 (G5) | 1210x295x57 | 2,6 | 115 |
| Marengo 328 S67 | IP40, framed | 3x28 (G5) | 1210x295x57 | 3 | 90,5 |
| Marengo 354 S68 | IP40, framed | 3x54 (G5) | 1210x295x57 | 3 | 173 |

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|--------------|---------------------|--------------------------------|------------|------------------|
| Levanto 214 S69 | IP40, framed | 2x14 (G5) | 605x295x57 | 1,2 | 31 |
| Levanto 224 S70 | IP40, framed | 2x24 (G5) | 605x295x57 | 1,2 | 49 |
| Levanto 314 S71 | IP40, framed | 3x14 (G5) | 605x605x57 | 2 | 47 |
| Levanto 324 S72 | IP40, framed | 3x24 (G5) | 605x605x57 | 2 | 74 |
| Levanto 414 S73 | IP40, framed | 4x14 (G5) | 605x605x57 | 2 | 62 |
| Levanto 424 S74 | IP40, framed | 4x24 (G5) | 605x605x57 | 2 | 98 |
| Levanto 128 S75 | IP40, framed | 1x28 (G5) | 1210x143x57 | 1,6 | 30,5 |
| Levanto 154 S76 | IP40, framed | 1x54 (G5) | 1210x143x57 | 1,6 | 58 |
| Levanto 228 S77 | IP40, framed | 2x28 (G5) | 1210x143x57 | 1,6 | 60 |
| Levanto 254 S78 | IP40, framed | 2x54 (G5) | 1210x143x57 | 1,6 | 115 |
| Levanto 228 S79 | IP40, framed | 2x28 (G5) | 1210x295x57 | 2,6 | 60 |
| Levanto 254 S80 | IP40, framed | 2x54 (G5) | 1210x295x57 | 2,6 | 115 |
| Levanto 328 S81 | IP40, framed | 3x28 (G5) | 1210x295x57 | 3 | 90,5 |
| Levanto 354 S82 | IP40, framed | 3x54 (G5) | 1210x295x57 | 3 | 173 |

Options available on request:

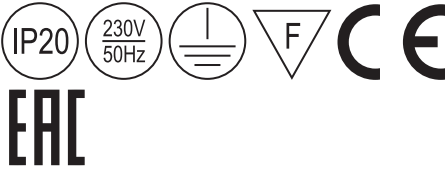
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- MPRZ – Microprismatic diffuser
- LT80 – Opal diffuser with 80% light transmission

LEVANTO 228 S79



BREEZE

T5 & T8 Surface Luminaire with Glossy Parabolic Louvre and Mirror Cross Blades



EAC



BREEZE 418 B33 9CR



BREEZE 236 D14

- Type:** Best selling surface mounted T8 luminaire with a modern low profile body and optional number of mirror cross blades. Premium quality at competitive prices.
- Specification:** Shiny parabolic louvre with cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement. Number of cross blades is optional from 5 to 24 for a better glare protection. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Surface luminaire designed to be fixed to ceiling of any type.
- Application:** Indoor. Office buildings, shops and other commercial environments.

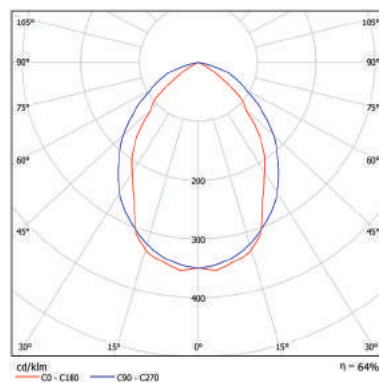
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Breeze 218 D13 | 2x18 (G13) | 635x360x66 | 2,4 | 42 |
| Breeze 318 M60 | 3x18 (G13) | 635x635x66 | 3,6 | 68 |
| Breeze 318 M60 9CR | 3x18 (G13) | 635x635x66 | 3,6 | 68 |
| Breeze 418 B33 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 418 B33 7CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 418 B33 9CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 418 B33 11CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 136 I42 | 1x36 (G13) | 1245x220x66 | 2,8 | 42 |
| Breeze 236 I43 | 2x36 (G13) | 1245x220x66 | 3,3 | 84 |
| Breeze 158 P12 | 1x58 (G13) | 1545x220x66 | 4 | 67 |
| Breeze 236 D14 | 2x36 (G13) | 1245x360x66 | 4 | 84 |
| Breeze 258 O40 | 2x58 (G13) | 1545x360x66 | 5,5 | 134 |
| Breeze 436 G76 | 4x36 (G13) | 1245x635x66 | 7 | 168 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Breeze 214 F33 | 2x14 (G5) | 635x360x66 | 2,2 | 31 |
| Breeze 224 F34 | 2x24 (G5) | 635x360x66 | 2,2 | 49 |
| Breeze 314 J63 | 3x14 (G5) | 635x635x66 | 2,8 | 46 |
| Breeze 314 J63 9CR | 3x14 (G5) | 635x635x66 | 2,8 | 46 |
| Breeze 324 J64 | 3x24 (G5) | 635x635x66 | 2,9 | 73 |
| Breeze 324 J64 9CR | 3x24 (G5) | 635x635x66 | 2,9 | 73 |
| Breeze 414 F35 | 4x14 (G5) | 635x635x66 | 2,9 | 62 |
| Breeze 414 F35 9CR | 4x14 (G5) | 635x635x66 | 2,9 | 62 |
| Breeze 424 F36 | 4x24 (G5) | 635x635x66 | 3 | 98 |
| Breeze 424 F36 9CR | 4x24 (G5) | 635x635x66 | 3 | 98 |
| Breeze 128 J89 | 1x28 (G5) | 1245x220x66 | 2,5 | 30 |
| Breeze 154 J90 | 1x54 (G5) | 1245x220x66 | 2,5 | 58 |
| Breeze 228 J91 | 2x28 (G5) | 1245x220x66 | 2,5 | 60 |
| Breeze 254 J92 | 2x54 (G5) | 1245x220x66 | 2,5 | 116 |
| Breeze 135 P08 | 1x35 (G5) | 1545x220x66 | 3 | 38 |
| Breeze 149 P09 | 1x49 (G5) | 1545x220x66 | 3 | 52 |
| Breeze 235 P10 | 2x35 (G5) | 1545x220x66 | 3 | 75 |
| Breeze 249 P11 | 2x49 (G5) | 1545x220x66 | 3 | 104 |
| Breeze 228 F37 | 2x28 (G5) | 1245x360x66 | 3,3 | 60 |
| Breeze 254 F38 | 2x54 (G5) | 1245x360x66 | 3,3 | 116 |
| Breeze 235 O41 | 2x35 (G5) | 1545x360x66 | 4 | 75 |
| Breeze 249 O42 | 2x49 (G5) | 1545x360x66 | 4 | 104 |
| Breeze 280 O43 | 2x80 (G5) | 1545x360x66 | 4,1 | 170 |
| Breeze 428 F39 | 4x28 (G5) | 1245x360x66 | 3,6 | 120 |
| Breeze 454 F40 | 4x54 (G5) | 1245x360x66 | 3,6 | 229 |

Options available on request:

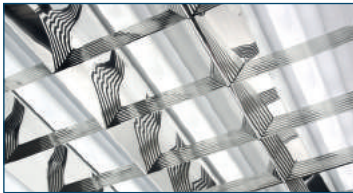
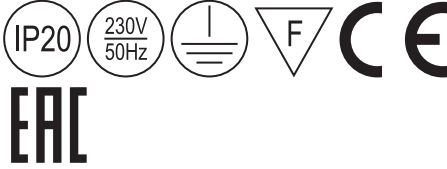
- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matted reflector
- MBL – Matted cross blades
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- 11CR – Louvre with 11 cross blades
- 24CR – Louvre with 24 cross blades (2x36/28/54W)
- NCP – Low Power Factor
- RIB – Ribbed cross blades

BREEZE 418 B33 HF



MONSOON

T8 Surface Luminaire with Glossy Parabolic Louvre and Ribbed Cross Blades



MONSOON 236 D16 HF

Type: Traditional surface mounted T8 luminaire with a modern low profile body. Premium quality at competitive prices.

Specification: Shiny parabolic louvre with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement.
Number of cross blades is optional from 5 to 11 for a better glare protection.
Fully enclosed painted steel body, wiring is concealed and not visible from ground level.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Indoor. Office buildings, shops and other commercial environments.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|--------------------------------|------------|------------------|
| Monsoon 218 D15 | 2x18 (G13) | 635x360x66 | 2,4 | 42 |
| Monsoon 418 B08 STD | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Monsoon 418 B08 STD 7CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Monsoon 418 B08 STD 9CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Monsoon 418 B08 STD 11CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Monsoon 236 D16 | 2x36 (G13) | 1245x360x66 | 4 | 84 |
| Monsoon 258 O44 | 2x58 (G13) | 1545x635x66 | 5,5 | 134 |
| Monsoon 436 G77 | 4x36 (G13) | 1245x635x66 | 7 | 168 |

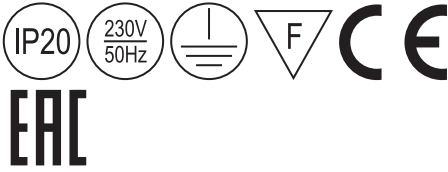
Options available on request:

| | | | |
|------|-------------------------------|------|---|
| HF | - High Frequency control gear | 5TB | - 5 way terminal block for loop feed and ease of wiring |
| DIM | - Dimmable ballast | MAT | - Matted reflector |
| SDIM | - Switch-control/dimming | 7CR | - Louvre with 7 cross blades |
| DALI | - DALI ballast | 9CR | - Louvre with 9 cross blades |
| EMG | - Emergency version 1 hour | 11CR | - Louvre with 11 cross blades |
| EM3 | - Emergency version 3 hours | NCP | - Low Power Factor |

BREEZE DPA



**T5 & T8 Surface Luminaire
with Double Parabolic Louvre**



ERAC

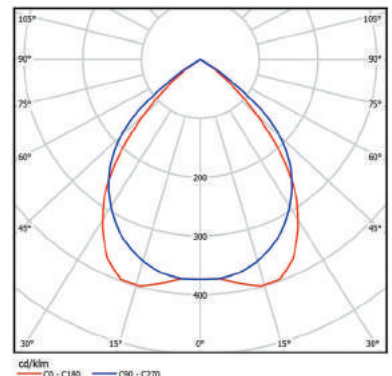
- Type:** Surface mounted T5 or T8 luminaire with a double parabolic louvre.
- Specification:** Shiny double parabolic louvre with 5 cross blades. Louvre is fitted into the body with locking safety clips for maximum stability.
Fully enclosed painted steel body, wiring is concealed and not visible from ground level.
Luminaire is plastic-wrapped and packed in twin boxes.
- Installation:** Surface luminaire designed to be fixed to ceiling of any type.
- Application:** Indoor. Office buildings, shops and other commercial environments.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Breeze 418 N16 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 236 N24 | 2x36 (G13) | 1245x360x66 | 3,6 | 84 |
| Breeze 414 N25 | 4x14 (G5) | 635x635x66 | 2,8 | 62 |
| Breeze 424 N26 | 4x24 (G5) | 635x635x66 | 2,8 | 98 |
| Breeze 228 N27 | 2x28 (G5) | 1245x360x66 | 2,8 | 60 |
| Breeze 254 N28 | 2x54 (G5) | 1245x360x66 | 2,8 | 116 |

Options available on request:

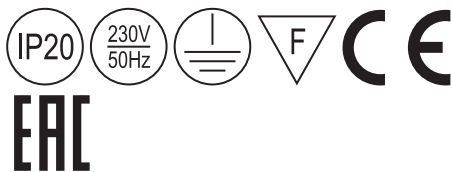
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hour
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matted reflector
- NCP – Low Power Factor

BREEZE 236 N24 HF



MISTRAL

T8 Surface Luminaire with Unique “One-piece” V-shaped Louvre



Type: Modern budget luminaire with ideal light distribution without blinding glare.

Specification: A special patented “One-piece” “Soft Light” V-shaped louvre with 5 ribbed cross blades. Louvre is fitted to the body with a locking safety clip for maximum stability. Fully enclosed painted steel body. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

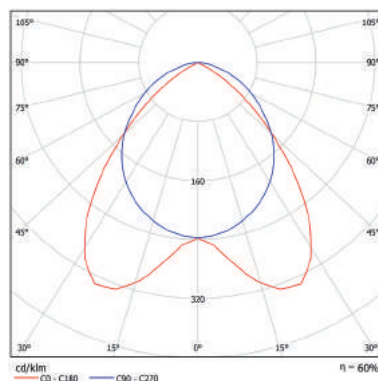
Application: Indoor. Office buildings, shops and other commercial environments.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Mistral 418 A34 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Mistral 414 W01 | 4x14 (G5) | 635x635x66 | 2,8 | 62 |

Options available on request:

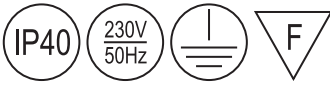
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor

MISTRAL 418 A34 HF



MARENCO

T5 & T8 Surface Luminaire with Prismatic Diffuser



CEEC



Type: Economical surface mounted T8 luminaire with a modern low profile body and prismatic diffuser.

Specification: UV stable prismatic diffuser is fitted to the body with a steel frame.
Fully enclosed painted steel body.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Indoor. Office buildings, shops, sport halls and other commercial environments.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Marenco 118 J98 | 1x18 (G13) | 635x220x66 | 1,8 | 22 |
| Marenco 218 J99 | 2x18 (G13) | 635x220x66 | 2,2 | 42 |
| Marenco 218 H76 | 2x18 (G13) | 635x360x66 | 2,4 | 42 |
| Marenco 318 L28 | 3x18 (G13) | 635x360x66 | 2,8 | 64 |
| Marenco 318 L29 | 3x18 (G13) | 635x635x66 | 4 | 64 |
| Marenco 418 D10 | 4x18 (G13) | 635x635x66 | 4,2 | 84 |
| Marenco 136 L01 | 1x36 (G13) | 1245x220x66 | 3,2 | 42 |
| Marenco 236 L02 | 2x36 (G13) | 1245x220x66 | 3,8 | 84 |
| Marenco 236 L30 | 2x36 (G13) | 1245x360x66 | 4 | 84 |
| Marenco 336 L04 | 3x36 (G13) | 1245x360x66 | 4,6 | 126 |

Options available on request:

HF – High Frequency control gear
DIM – Dimmable ballast
SDIM – Switch-control/dimming
DALI – DALI ballast

EMG – Emergency version 1 hour
EM3 – Emergency version 3 hours
5TB – 5 way terminal block for loop feed and ease of wiring
NCP – Low Power Factor

LEVANTO

T8 Surface Luminaire with Opal Diffuser



CE EAC



LEVANTO 236 A41

Type: Economical surface mounted T8 luminaire with a modern low profile body and opal diffuser.

Specification: UV stable Opal diffuser is fitted to the body with a steel frame.
Fully enclosed painted steel body.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

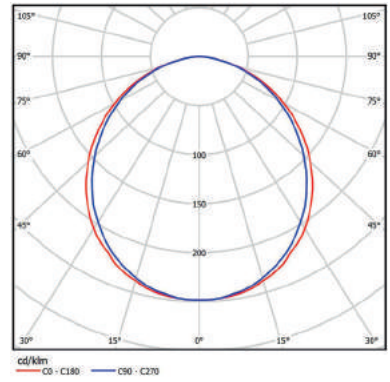
Application: Indoor. Office buildings, shops, sport halls and other commercial environments.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Levanto 118 J95 | 1x18 (G13) | 635x220x66 | 1,8 | 22 |
| Levanto 218 J96 | 2x18 (G13) | 635x220x66 | 2,2 | 42 |
| Levanto 218 H75 | 2x18 (G13) | 635x360x66 | 2,4 | 42 |
| Levanto 318 L05 | 3x18 (G13) | 635x360x66 | 2,8 | 64 |
| Levanto 318 L06 | 3x18 (G13) | 635x635x66 | 4 | 64 |
| Levanto 418 A40 | 4x18 (G13) | 635x635x66 | 4,2 | 84 |
| Levanto 136 J97 | 1x36 (G13) | 1245x220x66 | 3,2 | 42 |
| Levanto 236 A41 | 2x36 (G13) | 1245x220x66 | 3,8 | 84 |
| Levanto 236 L27 | 2x36 (G13) | 1245x360x66 | 4 | 84 |
| Levanto 336 L03 | 3x36 (G13) | 1245x360x66 | 4,6 | 126 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- OP LT80 – Opal diffuser with 80% light transmission

LEVANTO 418 A40 HF



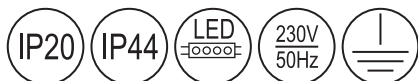
NORTHCLIFFE
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ALUMINIUM PROFILE LUMINAIRES

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SERPENS

**T5&LED Recessed
Luminaire for In-line
Connection Without Gap**



SERPENS 128 M75 PRZ SB



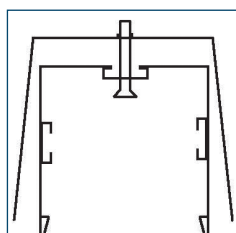
SERPENS 128 M75 PAR SB

Type: Recessed luminaire for in-line connection without gaps.

Specification: Three different types of louvre are optional: double parabolic reflector (PAR) made of mirror aluminium with four spring locks, extruded microprismatic (PRZ) or opal (OP) diffuser made of UV stable polycarbonate. Deluxe version louvres are manufactured using Alanod MIRO® aluminium with 95% reflectiveness. Body made of extruded aluminium profile powder painted in textured RAL 9003. End caps are fixed by two screws. Luminaire with an option L or LL for in-line connection. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Office buildings, shops and other commercial environments.



Supplied with supports brackets (SB) for installation into a plasterboard ceiling.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Serpens LED1x1100 D457 T840 OP LT80 SB | 619x77x68 | 50000 | 1043 | 12 | 80+ | 4000 | 1,40 |
| Serpens LED1x1500 D458 T840 OP LT80 SB | 619x77x68 | 50000 | 1464 | 17 | 80+ | 4000 | 1,40 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Serpens LED1x1600 D459 T840 OP LT80 SB | 911,5x77x68 | 50000 | 1564 | 17 | 80+ | 4000 | 1,80 |
| Serpens LED1x2200 D460 T840 OP LT80 SB | 911,5x77x68 | 50000 | 2196 | 25 | 80+ | 4000 | 1,80 |
| Serpens LED1x2100 E147 T840 OP LT80 SB | 1204x77x68 | 50000 | 2085 | 23 | 80+ | 4000 | 2,20 |
| Serpens LED1x3000 E148 T840 OP LT80 SB | 1204x77x68 | 50000 | 2928 | 32 | 80+ | 4000 | 2,20 |
| Serpens LED1x2700 E149 T840 OP LT80 SB | 1496,5x77x68 | 50000 | 2607 | 29 | 80+ | 4000 | 2,60 |
| Serpens LED1x3700 E150 T840 OP LT80 SB | 1496,5x77x68 | 50000 | 3660 | 40 | 80+ | 4000 | 2,60 |
| Serpens LED1x4200 E151 T840 OP LT80 SB | 2374x77x68 | 50000 | 4170 | 44 | 80+ | 4000 | 4,40 |
| Serpens LED1x5900 E152 T840 OP LT80 SB | 2374x77x68 | 50000 | 5855 | 64 | 80+ | 4000 | 4,40 |
| Serpens LED1x5300 E153 T840 OP LT80 SB | 2959x77x68 | 50000 | 5213 | 54 | 80+ | 4000 | 5,20 |
| Serpens LED1x7400 E154 T840 OP LT80 SB | 2959x77x68 | 50000 | 7319 | 80 | 80+ | 4000 | 5,20 |

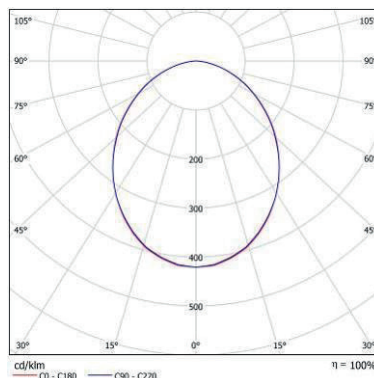
* Tolerance range for optical and electrical data: $\pm 10\%$

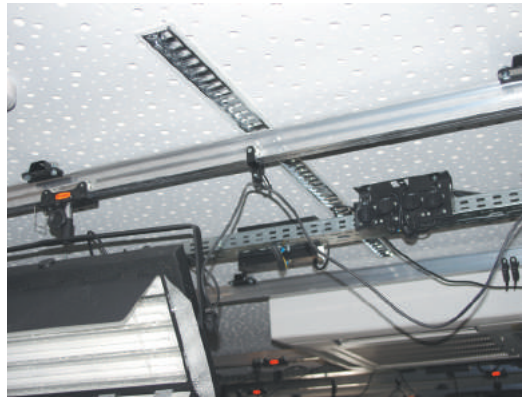
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Serpens 114 M73 OP SB | 1x14 (G5) | 595x77x68 | 1,25 | 15 |
| Serpens 124 M74 OP SB | 1x24 (G5) | 595x77x68 | 1,25 | 25 |
| Serpens 128 M75 OP SB | 1x28 (G5) | 1195x77x68 | 2 | 30 |
| Serpens 135 M76 OP SB | 1x35 (G5) | 1495x77x68 | 2,4 | 38 |
| Serpens 149 M77 OP SB | 1x49 (G5) | 1495x77x68 | 2,4 | 53 |
| Serpens 154 M78 OP SB | 1x54 (G5) | 1195x77x68 | 2 | 58 |
| Serpens 180 M79 OP SB | 1x80 (G5) | 1495x77x68 | 2,5 | 85 |
| Serpens 2x114 M94 OP SB | 2x1x14 (G5) | 1074x77x68 | 2,5 | 30 |
| Serpens 2x124 M95 OP SB | 2x1x24 (G5) | 1074x77x68 | 2,5 | 50 |
| Serpens 2x128 M96 OP SB | 2x1x28 (G5) | 2274x77x68 | 4 | 60 |
| Serpens 2x135 M97 OP SB | 2x1x35 (G5) | 2874x77x68 | 4,8 | 76 |
| Serpens 2x149 M98 OP SB | 2x1x49 (G5) | 2874x77x68 | 4,8 | 106 |
| Serpens 2x154 M99 OP SB | 2x1x54 (G5) | 2274x77x68 | 4 | 116 |

Options available on request:

- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- PAR – Double parabolic reflector (double length: 2x1... – 1166 / 2366 / 2966mm). For T5 versions only.
- OP – Opal cover
- PRZ – Microprismatic cover
- MAT – Matted reflector (subject to minimum quantity)
- MRO – Mirror reflector Deluxe (subject to minimum quantity)
- SB – Support brackets for installation into a plasterboard ceiling
- IP44 – IP44 protection degree (OP & PRZ single versions only)
- TBAR – For T-Bar ceiling (lengths for LED versions: 598 / 1198mm)
- L – For in-line connection end/first luminaire (lengths of LED versions: 602/ 894,5/ 1187/ 1479,5/ 2357/ 2942mm)
 For in-line connection end/first luminaire (lengths of T5 OP versions: 537/ 1137/ 1437/ 1014/ 2214/ 2814 mm)
 For in-line connection end/first luminaire (lengths of T5 PAR versions: 583/ 1183/ 1483/ 1155/ 2355/ 2955mm)
- LL – For in-line connection intermediate luminaire (lengths of LED versions: 585/ 877,5/ 1170/ 1462,5/ 2340/ 2925mm)
 For in-line connection intermediate luminaire (lengths of T5 OP versions: 479/ 1079/ 1379/ 956/ 2156/ 2756mm)
 For in-line connection intermediate luminaire (lengths of T5 PAR versions: 572/ 1172/ 1472/ 1144/ 2344/ 2944mm)
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks
- RAL – RAL colour
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

SERPENS LED1X3000 E148 T840 OP LT80 SB





SERPENS D

T5&LED Recessed Luminaire for in-line connection without gap



CEEC



SERPENS D 228 P59 PRZ SB



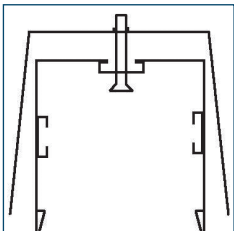
SERPENS D 228 P59 OP SB

Type: Recessed luminaire for in-line connection without gaps.

Specification: Three different types of louvre are optional: double parabolic reflector (PAR) made of mirror aluminium with four spring locks, extruded microprismatic (PRZ) or opal (OP) diffuser made of UV stable polycarbonate. Deluxe version louvres are manufactured using Alanod MIRO® aluminium with 95% reflectiveness. Body made of extruded aluminium profile powder painted in textured RAL 9003. End caps fixed by two screws. Luminaire with an option L or LL for in-line connection. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Office buildings, shops and other commercial environments.



Supplied with supports brackets (SB) for installation into a plasterboard ceiling.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Serpens D LED2x1100 D461 T840 OP LT80 SB | 619x126x68 | 50000 | 2148 | 22 | 80+ | 4000 | 1,60 |
| Serpens D LED2x1600 D462 T840 OP LT80 SB | 619x126x68 | 50000 | 3019 | 30 | 80+ | 4000 | 1,60 |
| Serpens D LED2x1700 D463 T840 OP LT80 SB | 911,5x126x68 | 50000 | 3221 | 31 | 80+ | 4000 | 2,10 |
| Serpens D LED2x2300 D464 T840 OP LT80 SB | 911,5x126x68 | 50000 | 4528 | 45 | 80+ | 4000 | 2,10 |
| Serpens D LED2x2200 E157 T840 OP LT80 SB | 1204x126x68 | 50000 | 4295 | 42 | 80+ | 4000 | 2,60 |
| Serpens D LED2x3100 E158 T840 OP LT80 SB | 1204x126x68 | 50000 | 6037 | 60 | 80+ | 4000 | 2,60 |
| Serpens D LED2x2700 E159 T840 OP LT80 SB | 1496,5x126x68 | 50000 | 5369 | 52 | 80+ | 4000 | 3,00 |
| Serpens D LED2x3800 E160 T840 OP LT80 SB | 1496,5x126x68 | 50000 | 7547 | 76 | 80+ | 4000 | 3,00 |
| Serpens D LED2x4300 E161 T840 OP LT80 SB | 2374x126x68 | 50000 | 8590 | 84 | 80+ | 4000 | 5,20 |
| Serpens D LED2x6100 E162 T840 OP LT80 SB | 2374x126x68 | 50000 | 12074 | 121 | 80+ | 4000 | 5,20 |
| Serpens D LED2x5400 E163 T840 OP LT80 SB | 2959x126x68 | 50000 | 10738 | 104 | 80+ | 4000 | 6,00 |
| Serpens D LED2x7600 E164 T840 OP LT80 SB | 2959x126x68 | 50000 | 15093 | 151 | 80+ | 4000 | 6,00 |

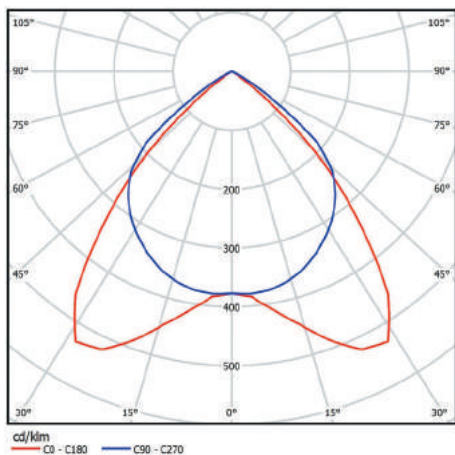
* Tolerance range for optical and electrical data: $\pm 10\%$

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|--------------------------------|------------|------------------|
| Serpens D 214 P57 OP SB | 2x14 (G5) | 595x126x68 | 1,40 | 31 |
| Serpens D 224 P58 OP SB | 2x24 (G5) | 595x126x68 | 1,40 | 49 |
| Serpens D 228 P59 OP SB | 2x28 (G5) | 1195x126x68 | 2,15 | 60 |
| Serpens D 235 P60 OP SB | 2x35 (G5) | 1495x126x68 | 2,65 | 76 |
| Serpens D 249 P61 OP SB | 2x49 (G5) | 1495x126x68 | 2,65 | 105 |
| Serpens D 254 P62 OP SB | 2x54 (G5) | 1195x126x68 | 2,15 | 116 |
| Serpens D 280 P63 OP SB | 2x80 (G5) | 1495x126x68 | 2,75 | 170 |
| Serpens D 2x214 P64 OP SB | 2x2x14 (G5) | 1074x126x68 | 2,80 | 62 |
| Serpens D 2x224 P65 OP SB | 2x2x24 (G5) | 1074x126x68 | 2,80 | 98 |
| Serpens D 2x228 P66 OP SB | 2x2x28 (G5) | 2274x126x68 | 4,3 | 120 |
| Serpens D 2x235 P67 OP SB | 2x2x35 (G5) | 2874x126x68 | 5,3 | 152 |
| Serpens D 2x249 P68 OP SB | 2x2x49 (G5) | 2874x126x68 | 5,3 | 210 |
| Serpens D 2x254 P69 OP SB | 2x2x54 (G5) | 2274x126x68 | 4,3 | 232 |

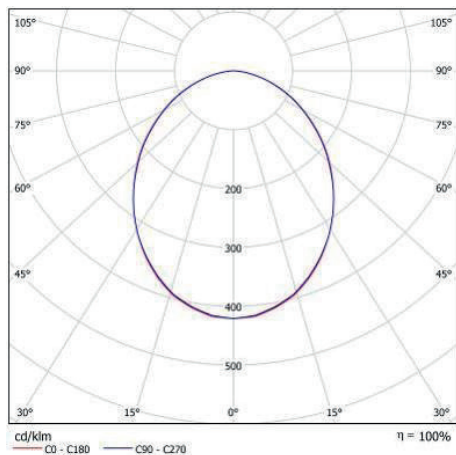
Options available on request:

- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- PAR – Double parabolic reflector (double length: 2x2... – 1166 / 2366 / 2966mm). For T5 versions only.
- OP – Opal cover
- PRZ – Microprismatic cover
- MAT – Matted reflector (subject to minimum quantity)
- MRO – Mirror reflector Deluxe (subject to minimum quantity)
- SB – Support brackets for installation into a plasterboard ceiling
- IP44 – IP44 protection degree (OP & PRZ single versions only)
- TBAR – For T-Bar ceiling (lengths for LED versions: 598/ 1198mm)
- L – For in-line connection end/first luminaire (lengths of LED versions: 602/ 894,5/ 1187/ 1479,5/ 2357/ 2942mm)
 For in-line connection end/first luminaire (lengths of T5 OP versions: 537/ 1137/ 1437/ 1014/ 2214/ 2814mm)
 For in-line connection end/first luminaire (lengths of T5 PAR versions: 583/ 1183/ 1483/ 1155/ 2355/ 2955mm)
- LL – For in-line connection intermediate luminaire (lengths of LED versions: 585/ 877,5/ 1170/ 1462,5/ 2340/ 2925mm)
 For in-line connection intermediate luminaire (lengths of T5 OP versions: 479/ 1079/ 1379/ 956/ 2156/ 2756mm)
 For in-line connection intermediate luminaire (lengths of T5 PAR versions: 572/ 1172/ 1472/ 1144/ 2344/ 2944 mm)
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks
- RAL – RAL colour
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

SERPENS D 228 P59 PAR



SERPENS D LED2X2200 E157 T840 OP LT80 SB



DECOR

T5&LED Surface/
Suspended Luminaire
for In-line Connection



DECOR 128 M82 OP



DECOR 128 M82 PRZ

Type: Surface mounted or suspended luminaire for in-line connection.

Specification: Three different types of louvre are optional: double parabolic reflector (PAR) made of mirror aluminium with four spring locks, extruded microprismatic (PRZ) or opal (OP) diffuser made of UV stable polycarbonate. Deluxe version louvres are manufactured using Alanod MIRO® aluminium with 95% reflectiveness. Body made of extruded aluminium profile powder painted in textured RAL 9006. End caps fixed by two screws. Luminaire with an option L or LL for in-line connection. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended. Wire suspension set and plastic cap are available on request.

Application: Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (**SUSI**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Decor LED1x1100 D465 T840 OP LT80 | 601x58x68 | 50000 | 1043 | 12 | 80+ | 4000 | 1,40 |
| Decor LED1x1500 D466 T840 OP LT80 | 601x58x68 | 50000 | 1464 | 17 | 80+ | 4000 | 1,40 |
| Decor LED1x1600 D467 T840 OP LT80 | 893,5x58x68 | 50000 | 1564 | 17 | 80+ | 4000 | 1,80 |
| Decor LED1x2200 D468 T840 OP LT80 | 893,5x58x68 | 50000 | 2196 | 25 | 80+ | 4000 | 1,80 |
| Decor LED1x2100 E190 T840 OP LT80 | 1186x58x68 | 50000 | 2085 | 23 | 80+ | 4000 | 2,20 |
| Decor LED1x3000 E191 T840 OP LT80 | 1186x58x68 | 50000 | 2928 | 32 | 80+ | 4000 | 2,20 |
| Decor LED1x2700 E192 T840 OP LT80 | 1478,5x58x68 | 50000 | 2607 | 29 | 80+ | 4000 | 2,60 |
| Decor LED1x3700 E193 T840 OP LT80 | 1478,5x58x68 | 50000 | 3660 | 40 | 80+ | 4000 | 2,60 |
| Decor LED1x4200 E194 T840 OP LT80 | 2356x58x68 | 50000 | 4170 | 44 | 80+ | 4000 | 4,40 |
| Decor LED1x5900 E195 T840 OP LT80 | 2356x58x68 | 50000 | 5855 | 64 | 80+ | 4000 | 4,40 |
| Decor LED1x5300 E196 T840 OP LT80 | 2941x58x68 | 50000 | 5213 | 54 | 80+ | 4000 | 5,20 |
| Decor LED1x7400 E197 T840 OP LT80 | 2941x58x68 | 50000 | 7319 | 80 | 80+ | 4000 | 5,20 |

* Tolerance range for optical and electrical data: ± 10 %

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Decor 114 M80 OP | 1x14 (G5) | 574x58x68 | 1,2 | 15 |
| Decor 124 M81 OP | 1x24 (G5) | 574x58x68 | 1,2 | 25 |
| Decor 128 M82 OP | 1x28 (G5) | 1174x58x68 | 1,9 | 30 |
| Decor 135 M83 OP | 1x35 (G5) | 1474x58x68 | 2,3 | 38 |
| Decor 149 M84 OP | 1x49 (G5) | 1474x58x68 | 2,3 | 53 |
| Decor 154 M85 OP | 1x54 (G5) | 1174x58x68 | 1,9 | 58 |
| Decor 180 M86 OP | 1x80 (G5) | 1474x58x68 | 2,4 | 85 |
| Decor 2x114 N02 OP | 2x1x14 (G5) | 1054x58x68 | 2,4 | 30 |
| Decor 2x124 N03 OP | 2x1x24 (G5) | 1054x58x68 | 2,4 | 50 |
| Decor 2x128 N04 OP | 2x1x28 (G5) | 2254x58x68 | 3,8 | 60 |
| Decor 2x135 N05 OP | 2x1x35 (G5) | 2854x58x68 | 4,6 | 76 |
| Decor 2x149 N06 OP | 2x1x49 (G5) | 2854x58x68 | 4,6 | 106 |
| Decor 2x154 N07 OP | 2x1x54 (G5) | 2254x58x68 | 3,8 | 116 |

Options available on request:

- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- PULLSWITCH – Pull switch device
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- PAR – Double parabolic reflector (double length: 2x1... – 1148 / 2348 / 2948mm). For T5 versions only.
- OP – Opal cover
- PRZ – Microprismatic cover
- MAT – Matted reflector (subject to minimum quantity)
- MRO – Mirror reflector Deluxe (subject to minimum quantity)
- IP44 – IP44 protection degree (OP & PRZ single versions only)
- L – For in-line connection end/first luminaire (lengths of LED versions: 593/ 885,5/ 1178/ 1470,5/ 2348/ 2933mm)
For in-line connection end/first luminaire (lengths of T5 OP versions: 527/ 1127/ 1427/ 1004/ 2204/ 2804 mm)
For in-line connection end/first luminaire (lengths of T5 PAR versions: 574/ 1174/ 1474/ 1146/ 2346/ 2946mm)
- LL – For in-line connection intermediate luminaire (lengths of LED versions: 585/ 877,5/ 1170/ 1462,5/ 2340/ 2925mm)
For in-line connection intermediate luminaire (lengths of T5 OP versions: 479/ 1079/ 1379/ 956/ 2156/ 2756mm)
For in-line connection intermediate luminaire (lengths of T5 PAR versions: 572/ 1172/ 1472/ 1144/ 2344/ 2944 mm)
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks
- SUSI – Suspension wire set (2 pcs)
- RAL – RAL colour
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K



DECOR SENSE&SOLO series with 30 cm closed profile and designed to fulfil the needs for easy-to-use, energy saving lighting control. The basic functions are pre-programmed and are fully adjustable to meet all the requirements. For more information check page 10.



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off

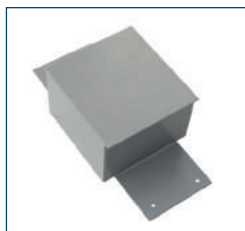


Bright
out

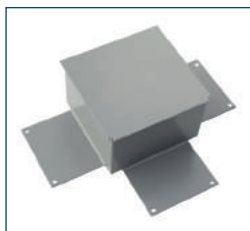
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|--------------------------------|------------|------------------|
| Decor 114 P36 SENSE&SOLO | 1x14 (G5) | 876x58x68 | 1,5 | 15 |
| Decor 124 P37 SENSE&SOLO | 1x24 (G5) | 876x58x68 | 1,5 | 25 |
| Decor 128 P38 SENSE&SOLO | 1x28 (G5) | 1476x58x68 | 2,2 | 30 |
| Decor 135 P39 SENSE&SOLO | 1x35 (G5) | 1776x58x68 | 2,6 | 38 |
| Decor 149 P40 SENSE&SOLO | 1x49 (G5) | 1776x58x68 | 2,6 | 53 |
| Decor 154 P41 SENSE&SOLO | 1x54 (G5) | 1476x58x68 | 2,2 | 58 |
| Decor 180 P42 SENSE&SOLO | 1x80 (G5) | 1776x58x68 | 2,7 | 85 |



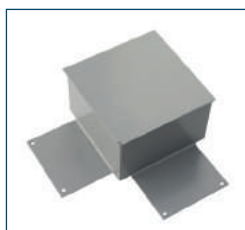
Decor fittings have been designed for connection in modern lighting systems with a wide choice of join accessories. Thanks to interesting design and wide choice of optics, they comply with the highest lighting standards and act as an interesting element of interior design.



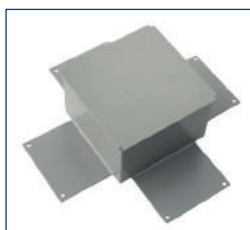
DECOR I-JOIN – “I” join element



DECOR T-JOIN – “T” join element



DECOR L-JOIN – “L” join element



DECOR X-JOIN – “X” join element



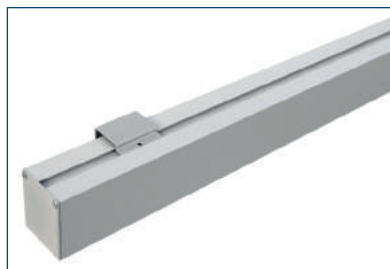
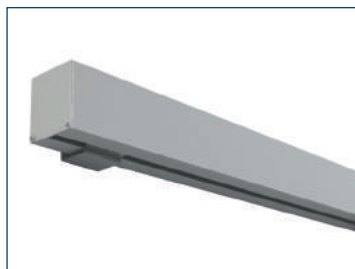
Fittings with 250mm closed profile from both ends are designed for connection into the lighting systems. Please add join elements (“I”, “L”, “T” or “X” type to the order).

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Decor 114 P43 | 1x14 (G5) | 1070x58x68 | 1,2 | 15 |
| Decor 124 P44 | 1x24 (G5) | 1070x58x68 | 1,2 | 25 |
| Decor 128 P45 | 1x28 (G5) | 1670x58x68 | 1,9 | 30 |
| Decor 135 P46 | 1x35 (G5) | 1970x58x68 | 2,3 | 38 |
| Decor 149 P47 | 1x49 (G5) | 1970x58x68 | 2,3 | 53 |
| Decor 154 P48 | 1x54 (G5) | 1670x58x68 | 1,9 | 58 |
| Decor 180 P49 | 1x80 (G5) | 1970x58x68 | 2,4 | 85 |
| Decor 2x114 P50 | 2x1x14 (G5) | 1640x58x68 | 2,4 | 30 |
| Decor 2x124 P51 | 2x1x24 (G5) | 1640x58x68 | 2,4 | 50 |
| Decor 2x128 P52 | 2x1x28 (G5) | 2840x58x68 | 3,8 | 60 |
| Decor 2x135 P53 | 2x1x35 (G5) | 3440x58x68 | 4,6 | 76 |
| Decor 2x149 P54 | 2x1x49 (G5) | 3440x58x68 | 4,6 | 106 |
| Decor 2x154 P55 | 2x1x54 (G5) | 2840x58x68 | 3,8 | 116 |
| Decor 2x180 P56 | 2x1x80 (G5) | 3440x58x68 | 4,8 | 170 |

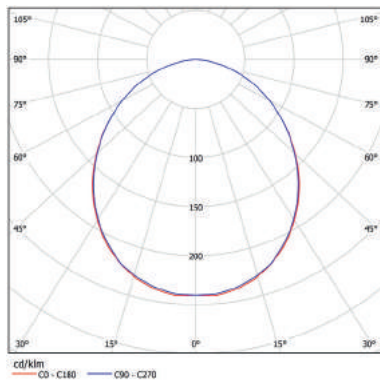
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------|---------------------|--------------------------------|------------|------------------|
| DECOR I-JOIN | | 60x60x70 | 0,3 | |
| DECOR L-JOIN | | 60x60x70 | 0,3 | |
| DECOR T-JOIN | | 60x60x70 | 0,3 | |
| DECOR X-JOIN | | 60x60x70 | 0,3 | |



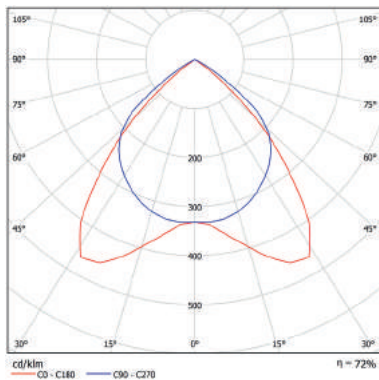
Brackets set (DECOR WALL BR2) for DECOR series mounting directly to the wall with up or down lighting.

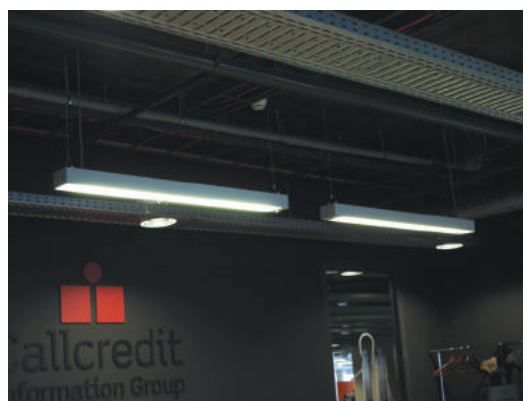


DECOR 128 M82 OP



DECOR 128 M82 PAR







DECOR D

T5&LED Surface/Suspended
Luminaire for In-line Connection



CE EAC



DECOR D 228 M89 OP



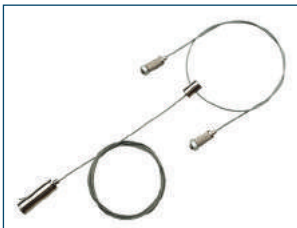
DECOR D 228 M89 PRZ

Type: Surface mounted or suspended luminaire for in-line connection.

Specification: Three different types of louvre are optional: double parabolic reflector (PAR) made of mirror aluminium with four spring locks, extruded micropismatic (PRZ) or opal (OP) diffuser made of UV stable polycarbonate. Deluxe version louvres are manufactured using Alanod MIRO® aluminium with 95% reflectiveness. Body made of extruded aluminium profile powder painted in textured RAL 9006. End caps are fixed by two screws. Luminaire with an option L or LL for in-line connection. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended. Wire suspension set and plastic cap are available on request.

Application: Indoor. Office buildings, shops and other commercial environments.



Wire suspension set (**SUSY**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information check option list.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Decor D LED2x1100 D469 T840 OP LT80 | 601x107x68 | 50000 | 2148 | 22 | 80+ | 4000 | 1,60 |
| Decor D LED2x1600 D470 T840 OP LT80 | 601x107x68 | 50000 | 3019 | 30 | 80+ | 4000 | 1,60 |
| Decor D LED2x1700 D471 T840 OP LT80 | 893,5x107x68 | 50000 | 3221 | 31 | 80+ | 4000 | 2,10 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Decor D LED2x2300 D472 T840 OP LT80 | 893,5x107x68 | 50000 | 4528 | 45 | 80+ | 4000 | 2,10 |
| Decor D LED2x2200 E200 T840 OP LT80 | 1186x107x68 | 50000 | 4295 | 42 | 80+ | 4000 | 2,60 |
| Decor D LED2x3100 E201 T840 OP LT80 | 1186x107x68 | 50000 | 6037 | 60 | 80+ | 4000 | 2,60 |
| Decor D LED2x2700 E202 T840 OP LT80 | 1478,5x107x68 | 50000 | 5369 | 52 | 80+ | 4000 | 3,00 |
| Decor D LED2x3800 E213 T840 OP LT80 | 1478,5x107x68 | 50000 | 7547 | 76 | 80+ | 4000 | 3,00 |
| Decor D LED2x4300 E214 T840 OP LT80 | 2356x107x68 | 50000 | 8590 | 84 | 80+ | 4000 | 5,20 |
| Decor D LED2x6100 E215 T840 OP LT80 | 2356x107x68 | 50000 | 12074 | 121 | 80+ | 4000 | 5,20 |
| Decor D LED2x5400 E216 T840 OP LT80 | 2941x107x68 | 50000 | 10738 | 104 | 80+ | 4000 | 6,00 |
| Decor D LED2x7600 E217 T840 OP LT80 | 2941x107x68 | 50000 | 15093 | 151 | 80+ | 4000 | 6,00 |

* Tolerance range for optical and electrical data: ±10 %

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|--------------------------------|------------|------------------|
| Decor D 214 M87 OP | 2x14 (G5) | 574x107x68 | 1,40 | 31 |
| Decor D 224 M88 OP | 2x24 (G5) | 574x107x68 | 1,40 | 49 |
| Decor D 228 M89 OP | 2x28 (G5) | 1174x107x68 | 2,15 | 60 |
| Decor D 235 M90 OP | 2x35 (G5) | 1474x107x68 | 2,65 | 76 |
| Decor D 249 M91 OP | 2x49 (G5) | 1474x107x68 | 2,65 | 105 |
| Decor D 254 M92 OP | 2x54 (G5) | 1174x107x68 | 2,15 | 116 |
| Decor D 280 M93 OP | 2x80 (G5) | 1474x107x68 | 2,75 | 170 |
| Decor D 2x214 N09 OP | 2x2x14 (G5) | 1054x107x68 | 2,80 | 62 |
| Decor D 2x224 N10 OP | 2x2x24 (G5) | 1054x107x68 | 2,80 | 98 |
| Decor D 2x228 N11 OP | 2x2x28 (G5) | 2254x107x68 | 4,3 | 120 |
| Decor D 2x235 N12 OP | 2x2x35 (G5) | 2854x107x68 | 5,3 | 152 |
| Decor D 2x249 N13 OP | 2x2x49 (G5) | 2854x107x68 | 5,3 | 210 |
| Decor D 2x254 N14 OP | 2x2x54 (G5) | 2254x107x68 | 4,3 | 232 |



DECOR D SENSE&SOLO series with 30 cm closed profile and designed to fulfil the needs for easy-to-use, energy saving lighting control. The basic functions are pre-programmed and are fully adjustable to meet all the requirements. For more information check page 10.



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off



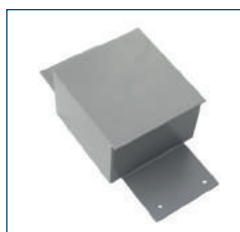
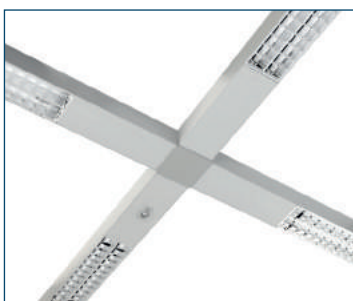
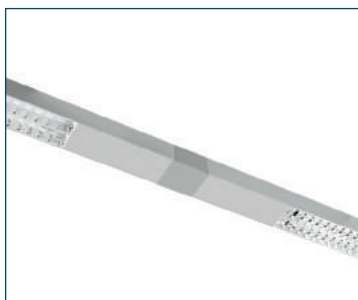
Bright
out

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Decor D 214 P29 SENSE&SOLO | 2x14 (G5) | 876x107x68 | 1,70 | 31 |
| Decor D 224 P30 SENSE&SOLO | 2x24 (G5) | 876x107x68 | 1,70 | 49 |
| Decor D 228 P31 SENSE&SOLO | 2x28 (G5) | 1476x107x68 | 2,45 | 60 |
| Decor D 235 P32 SENSE&SOLO | 2x35 (G5) | 1776x107x68 | 2,95 | 76 |
| Decor D 249 P33 SENSE&SOLO | 2x49 (G5) | 1776x107x68 | 2,95 | 105 |
| Decor D 254 P34 SENSE&SOLO | 2x54 (G5) | 1476x107x68 | 2,45 | 116 |
| Decor D 280 P35 SENSE&SOLO | 2x80 (G5) | 1776x107x68 | 3,05 | 170 |

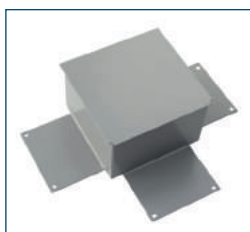
Options available on request:

- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- PULLSWITCH – Pull switch device
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- PAR – Double parabolic reflector (double length: 2x2... – 1148 / 2348 / 2948mm). For T5 versions only.
- OP – Opal cover
- PRZ – Microprismatic cover
- MAT – Matted reflector (subject to minimum quantity)
- MRO – Mirror reflector Deluxe (subject to minimum quantity)
- IP44 – IP44 protection degree (OP & PRZ single versions only)
- L – For in-line connection end/first luminaire (lengths: 593/ 885,5/ 1178/ 1470,5/ 2348/ 2933mm)
For in-line connection end/first luminaire (lengths of T5 OP versions: 527/ 1127/ 1427/ 1004/ 2204/ 2804 mm)
For in-line connection end/first luminaire (lengths of T5 PAR versions: 574/ 1174/ 1474/ 1146/ 2346/ 2946mm)
- LL – For in-line connection intermediate luminaire (lengths of LED versions: 585/ 877,5/ 1170/ 1462,5/ 2340/ 2925mm)
For in-line connection intermediate luminaire (lengths of T5 OP versions: 479/ 1079/1379/ 956/ 2156/ 2756mm)
For in-line connection intermediate luminaire (lengths of T5 PAR versions: 572/ 1172/1472/ 1144/ 2344/ 2944 mm)
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminal blocks
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminal blocks
- SUSY – Suspension wire set (2 pcs)
- RAL – RAL colour
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

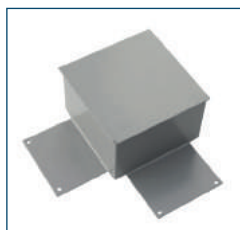
Decor D fittings have been designed for connection in modern lighting systems with a wide choice of join accessories. Thanks to interesting design and wide choice of optics, they comply with the highest lighting standards and act as an interesting element of interior design.



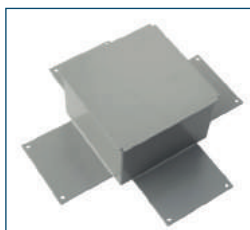
DECOR D I-JOIN – “I” join element



DECOR D T-JOIN – “T” join element



DECOR D L-JOIN – “L” join element



DECOR D X-JOIN – “X” join element



Fittings with 250mm closed profile from both ends are designed for connection into the lighting systems. Please add join elements (“I”, “L”, “T” or “X” type to the order).

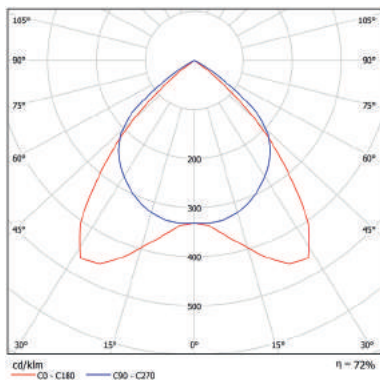
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Decor D 214 P15 | 2x14 (G5) | 1070x107x68 | 2,0 | 31 |
| Decor D 224 P16 | 2x24 (G5) | 1070x107x68 | 2,0 | 49 |
| Decor D 228 P17 | 2x28 (G5) | 1670x107x68 | 2,75 | 60 |
| Decor D 235 P18 | 2x35 (G5) | 1970x107x68 | 3,25 | 76 |
| Decor D 249 P19 | 2x49 (G5) | 1970x107x68 | 3,25 | 105 |
| Decor D 254 P20 | 2x54 (G5) | 1670x107x68 | 2,75 | 116 |
| Decor D 280 P21 | 2x80 (G5) | 1970x107x68 | 3,35 | 170 |
| Decor D 2x214 P22 | 2x2x14 (G5) | 1640x107x68 | 3,4 | 62 |
| Decor D 2x224 P23 | 2x2x24 (G5) | 1640x107x68 | 3,4 | 98 |
| Decor D 2x228 P24 | 2x2x28 (G5) | 2840x107x68 | 4,9 | 120 |
| Decor D 2x235 P25 | 2x2x35 (G5) | 3440x107x68 | 5,9 | 152 |
| Decor D 2x249 P26 | 2x2x49 (G5) | 3440x107x68 | 5,9 | 210 |
| Decor D 2x254 P27 | 2x2x54 (G5) | 2840x107x68 | 4,9 | 232 |
| Decor D 2x280 P28 | 2x2x80 (G5) | 3440x107x68 | 6,1 | 340 |
| DECOR D I-JOIN | | 110x110x70 | 0,4 | |
| DECOR D L-JOIN | | 110x110x70 | 0,4 | |
| DECOR D T-JOIN | | 110x110x70 | 0,4 | |
| DECOR D X-JOIN | | 110x110x70 | 0,4 | |

Other lengths or custom made products are available on request (according to the drawing)

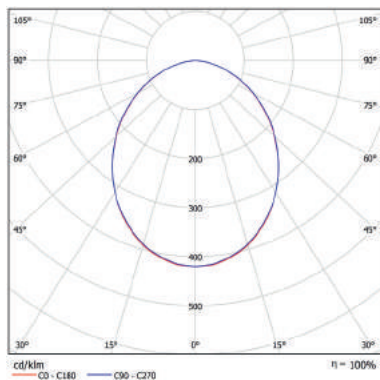


Pull switch version (to switch on/off) available on request. For more information check option list.

DECOR D 224 M88 PAR



DECOR D LED2X2200 E200 T840 OP LT80



NORTHCLIFFE
MAKING LIFE BRIGHTER



CONTINUOUS LINE AND BATTEN LUMINAIRES

www.northcliffe.org

SHOP M LED

Continuous Light Line
LED Luminaire



CE EAC



SHOP M LED1X7400 D014 T840 LF90 LL

- Type:** A continuous light line LED luminaire to suit all retail and industrial applications.
- Specification:** Optical choice: 90° (standard), 30x90°, 60x110°, asymmetric and double asymmetric wide beam patterns.
Body and end caps in white steel.
Luminaire is plastic-wrapped and packed separately.
- Installation:** Suspended (suspension brackets are included). Through-wiring 5x1,5mm² with 5 pole plugs (5x2,5mm² on request).
- Application:** Indoor. Supermarkets, warehouses, production facilities and other commercial environments.



Through-wired version 5x1,5mm² with 5-pole connectors on both sides (male & female type). Quick installation features save project time and money. For more information check option list.



Supplied with two suspension brackets.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Shop M LED1x3000 D011 T840 LF90 | 1157,5x89x54 | 50000 | 2938 | 22 | 80+ | 4000 | 2,50 |
| Shop M LED1x4100 D012 T840 LF90 | 1157,5x89x54 | 50000 | 4042 | 30 | 80+ | 4000 | 2,50 |
| Shop M LED1x5200 D013 T840 LF90 | 1157,5x89x54 | 50000 | 5130 | 41 | 80+ | 4000 | 2,50 |
| Shop M LED1x7400 D014 T840 LF90 | 2874x89x54 | 50000 | 7344 | 53 | 80+ | 4000 | 6,30 |
| Shop M LED1x10200 D015 T840 LF90 | 2874x89x54 | 50000 | 10104 | 76 | 80+ | 4000 | 6,30 |
| Shop M LED1x12900 D016 T840 LF90 | 2874x89x54 | 50000 | 12825 | 103 | 80+ | 4000 | 6,30 |

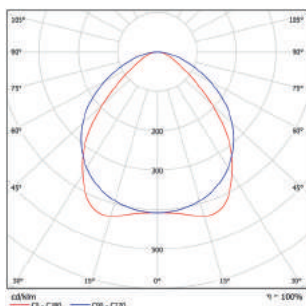
* Tolerance range for optical and electrical data: $\pm 10\%$

Versions with other lengths, light outputs or optics are available on request (subject to minimum quantity)

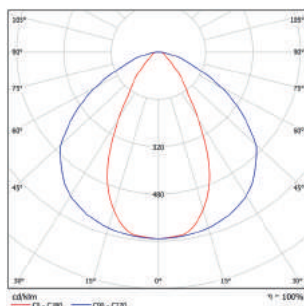
Options available on request:

| | | | |
|---------|---|----------|---|
| SDIM | - Switch-control/dimming | LF60x110 | - Optics with 60x110° beam angle |
| DALI | - DALI driver | LF30x90 | - Optics with 30x90° beam angle |
| EMG | - Emergency version 1 hour | LF2AW | - Optics with double asymmetric wide beam pattern |
| EM3 | - Emergency version 3 hours | LFA1 | - Optics with asymmetric beam |
| 1LIN2.5 | - Through wiring 3x2.5 mm ² with two push-in terminals | RAL | - RAL colours |
| 3LIN2.5 | - Through wiring 5x2.5 mm ² with two push-in terminals | T830 | - Colour temperature 3000K |
| L1 | - Driver connected to L1 line | T840 | - Colour temperature 4000K |
| L2 | - Driver connected to L2 line | L | - For in-line connection end/first luminaire (lengths: 1155,5/ 2872mm) |
| L3 | - Driver connected to L3 line | LL | - For in-line connection intermediate luminaire (lengths: 1153,5/ 2870mm) |
| LF90 | - Optics with 90° beam angle | | |

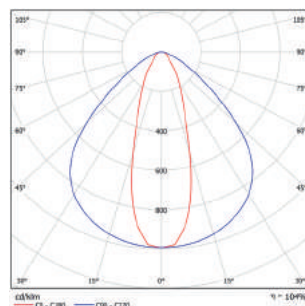
SHOP M LED1X7400 D014 T840 LF90



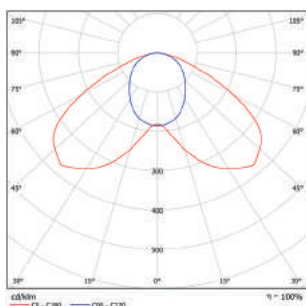
SHOP M LED1X7400 D014 T840 LF60X110



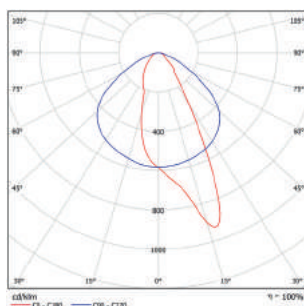
SHOP M LED1X7400 D014 T840 LF30X90



SHOP M LED1X7400 D014 T840 LF2AW



SHOP M LED1X7400 D014 T840 LFA1



BLADE PAR LED

Industrial LED Luminaire
with Anti-Glare Reflector



CEAC

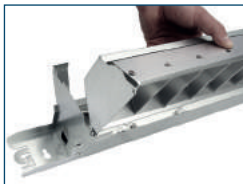


Type: An industrial luminaire with anti-glare matted aluminium reflector and the latest LED solutions for indoor lighting.

Specification: Matted aluminium reflector with cross blades for a better glare protection.
Body is made of galvanised steel.
Luminaire is plastic-wrapped and packed in single boxes.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended.

Application: Indoor. For use in halls, shops and other commercial environments.



Supplied with a hinged reflector unit, which can be opened for easy installation and access to terminal block. Just open reflector by removing lock screw, connect cable to the terminal block and close it. Integrated cable suspension system.

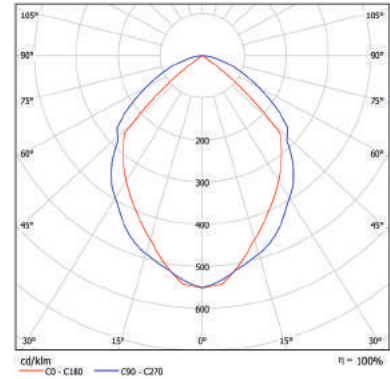
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Blade PAR LED2x2700 D373 T840 | 1300x142x117 | 50000 | 5243 | 41 | 80+ | 4000 | 3,30 |
| Blade PAR LED2x3700 D374 T840 | 1300x142x117 | 50000 | 7360 | 61 | 80+ | 4000 | 3,30 |
| Blade PAR LED2x5300 D375 T840 | 1300x142x117 | 50000 | 10521 | 83 | 80+ | 4000 | 3,30 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- L1 – Driver connected to L1 line
- L2 – Driver connected to L2 line
- L3 – Driver connected to L3 line
- WIE – 3-pole Wieland or similar connector (5-pole connector is available on request)
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BLADE PAR LED2X5300 D375 T840



BLADE A LED

Industrial LED Luminaire
with Aluminium Reflector



CEAC



Type: An industrial luminaire with matted aluminium reflector and the latest LED solutions for indoor lighting.

Specification: Matted aluminium reflector with middle beam light distribution. Reflector unit can be opened for easy installation and access to terminal block.
Body made of galvanised steel.
Luminaire is plastic-wrapped and packed in single boxes.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended. Integrated cable suspension system.

Application: Indoor. For use in halls, shops and other commercial environments.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Blade A LED2x2800 D376 T840 | 1300x142x117 | 50000 | 5486 | 41 | 80+ | 4000 | 3,30 |
| Blade A LED2x3900 D377 T840 | 1300x142x117 | 50000 | 7702 | 61 | 80+ | 4000 | 3,30 |
| Blade A LED2x5600 D378 T840 | 1300x142x117 | 50000 | 11011 | 83 | 80+ | 4000 | 3,30 |

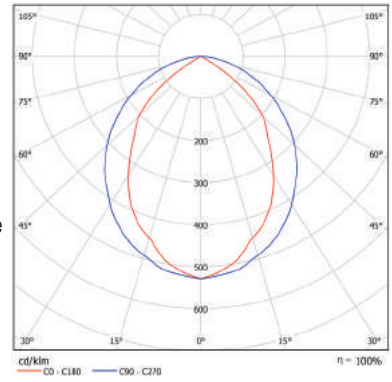
* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- L1 – Driver connected to L1 line
- L2 – Driver connected to L2 line
- L3 – Driver connected to L3 line
- WIE – 3-pole Wieland or similar connector (5-pole connector is available on request)

- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BLADE A LED2X5600 D378 T840

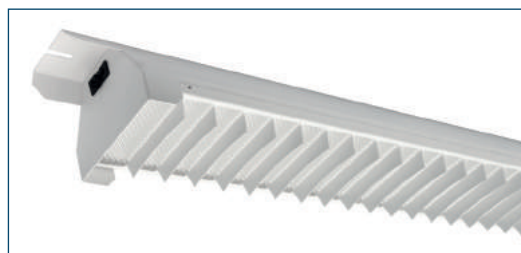


BLADE WHT LED

Industrial LED Luminaire
with White Reflector



CEAC



BLADE WHT LED2X3600 D406 T840 PRZ WIE



BLADE WHT LED2X3600 D406 T840 OP LT80 1WIE

Type: An innovative LED luminaire with white reflector to suit all retail and industrial demands.

Specification: Diffusers: clear (CLR), prismatic (PRZ) or opal (OP LT80).
White painted steel cross blades and reflector for a better glare protection.
Body is made of white steel.
Luminaire is plastic-wrapped and packed in single boxes.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended.

Application: Indoor. For use in warehouses, halls, factories, supermarkets other commercial environments.



Through wired version 3x1,5mm² with 3 poles Wieland type connectors on both sides (male & female type). Quick installation features save project time and money.
See option list: WIE

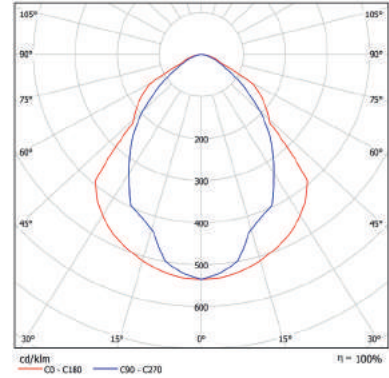
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Blade WHT LED2x2500 D405 T840 | 1250x137x101 | 50000 | 4999 | 41 | 80+ | 4000 | 4,20 |
| Blade WHT LED2x3600 D406 T840 | 1250x137x101 | 50000 | 7018 | 61 | 80+ | 4000 | 4,20 |
| Blade WHT LED2x5100 D407 T840 | 1250x137x101 | 50000 | 10032 | 83 | 80+ | 4000 | 4,20 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

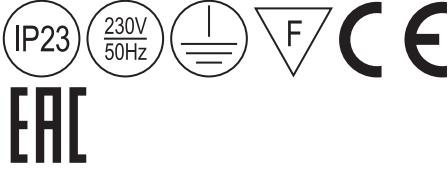
- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 1LIN2.5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2.5 – Through wiring 5x2.5 mm² with two push-in terminals
- L1 – Driver connected to L1 line
- L2 – Driver connected to L2 line
- L3 – Driver connected to L3 line
- WIE – 3-pole Wieland or similar connector (5-pole connector is available on request)
- OP LT80 – Opal diffuser with 80% light transmission
- MPRZ LT92 – Microprismatic diffuser for a better glare protection
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BLADE WHT LED2X3600 D406 T840



BLADE ECO

Industrial Luminaire with
a Choice from Narrow to
Wide Beam Distribution



- Type:** An industrial luminaire with a choice of narrow, middle or wide beam lamp holder position.
- Specification:** High efficiency MIRO aluminium reflector with multi-position lamp holders mounting system. IP23 rated body is made of galvanised steel. Luminaire is plastic-wrapped and packed in single boxes.
- Installation:** Surface luminaire is designed to be fixed to ceiling of any type or suspended.
- Application:** Indoor. For use in warehouse, production facilities, halls, logistics centers. shops and sports facilities.



The industrial luminaire with changing lamp holders place allows to choose three different light beam distributions: narrow, middle or wide.

| Name | Overall dimensions (LxWxH), mm | Lamp (W) and socket | System power, W | Weight, kg |
|-----------------------|--------------------------------|---------------------|-----------------|------------|
| Blade ECO 128 U46 MTO | 1250x158x114 | 1x28 (G5) | 30 | 3 |
| Blade ECO 154 U47 MTO | 1250x158x114 | 1x54 (G5) | 58 | 3 |
| Blade ECO 228 U48 MTO | 1250x158x114 | 2x28 (G5) | 60 | 3 |
| Blade ECO 254 U49 MTO | 1250x158x114 | 2x54 (G5) | 116 | 3 |
| Blade ECO 328 U50 MTO | 1250x158x114 | 3x28 (G5) | 90 | 3.2 |
| Blade ECO 354 U51 MTO | 1250x158x114 | 3x54 (G5) | 174 | 3.2 |
| Blade ECO 135 U52 MTO | 1550x158x114 | 1x35 (G5) | 38 | 3.6 |
| Blade ECO 149 U53 MTO | 1550x158x114 | 1x49 (G5) | 53 | 3.6 |
| Blade ECO 180 U54 MTO | 1550x158x114 | 1x80 (G5) | 85 | 3.6 |
| Blade ECO 235 U55 MTO | 1550x158x114 | 2x35 (G5) | 75 | 3.6 |
| Blade ECO 249 U56 MTO | 1550x158x114 | 2x49 (G5) | 104 | 3.6 |

| Name | Overall dimensions (LxWxH), mm | Lamp (W) and socket | System power, W | Weight, kg |
|-----------------------|--------------------------------|---------------------|-----------------|------------|
| Blade ECO 280 U57 MTO | 1550x158x114 | 2x80 (G5) | 170 | 3.6 |
| Blade ECO 335 U58 MTO | 1550x158x114 | 3x35 (G5) | 113 | 3.8 |
| Blade ECO 349 U59 MTO | 1550x158x114 | 3x49 (G5) | 157 | 3.8 |
| Blade ECO 380 U60 MTO | 1550x158x114 | 3x80 (G5) | 255 | 3.8 |

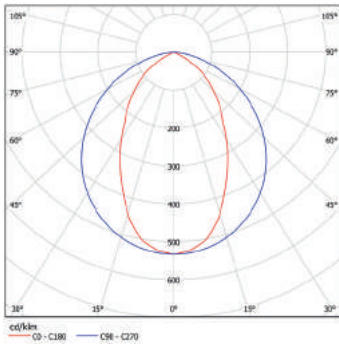
| Name | Overall dimensions (LxWxH), mm | Lamp (W) and socket | System power, W | Weight, kg |
|----------------------------|--------------------------------|---------------------|-----------------|------------|
| Blade ECO 158 U83 MTO HF * | 1600x158x114 | 1x58 (G13) | 54 | 3.6 |
| Blade ECO 258 U84 MTO HF * | 1600x158x114 | 2x58 (G13) | 107 | 3.7 |
| Blade ECO 358 U75 MTO HF * | 1600x158x114 | 3x58 (G13) | 161 | 3.9 |

* – Blade ECO with T8 tubes is subject to minimum quantity

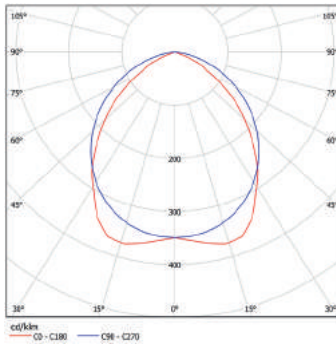
Options available on request:

- | | |
|--|--|
| DIM – Dimmable ballast | Deluxe – MIRO4 reflector |
| SDIM – Switch-control/dimming | MTO – MIRO5 reflector |
| DALI – DALI ballast | NAR – Lamp holders in narrow beam position |
| EMG – Emergency version 1 hour | MID – Lamp holders in middle beam position |
| EM3 – Emergency version 3 hours | WID – Lamp holders in wide beam position |
| 5TB – 5 way terminal block with two holes (for in and out going cable) | |

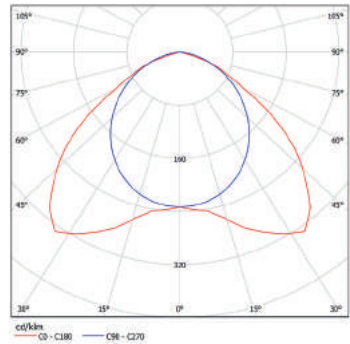
BLADE ECO 249 U56 MTO NAR



BLADE ECO 249 U56 MTO MID



BLADE ECO 249 U56 MTO WID



BLADE A

Industrial T5 Luminaire with Symmetric Reflector



EAC



| | |
|-----------------------|---|
| Type: | An industrial T5 luminaire with symmetric reflector for use in retail and commercial applications. |
| Specification: | Specular aluminium reflector. IP23 rated body is made of galvanised steel sheet. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire is designed to be fixed to ceiling of any type or suspended. |
| Application: | Indoor. For use in warehouse, production facilities, halls, logistics centers, shops and other facilities. |

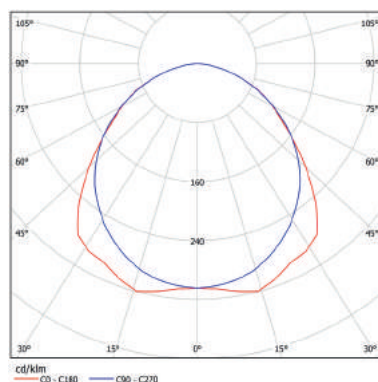
| Name | Overall dimensions (LxWxH), mm | Lamp (W) and socket | System power, W | Weight, kg |
|-------------------------|--------------------------------|---------------------|-----------------|------------|
| Blade A 128 U97 Deluxe* | 1250x141x88 | 1x28 (G5) | 30 | 3 |
| Blade A 154 U98 Deluxe* | 1250x141x88 | 1x54 (G5) | 58 | 3 |
| Blade A 228 U99 Deluxe* | 1250x141x88 | 2x28 (G5) | 60 | 3 |
| Blade A 254 Z02 Deluxe* | 1250x141x88 | 2x54 (G5) | 116 | 3 |
| Blade A 135 Z03 Deluxe | 1550x141x88 | 1x35 (G5) | 38 | 3,6 |
| Blade A 149 Z04 Deluxe | 1550x141x88 | 1x49 (G5) | 53 | 3,6 |
| Blade A 180 Z05 Deluxe | 1550x141x88 | 1x80 (G5) | 85 | 3,6 |
| Blade A 235 Z06 Deluxe | 1550x141x88 | 2x35 (G5) | 75 | 3,6 |
| Blade A 249 Z07 Deluxe | 1550x141x88 | 2x49 (G5) | 104 | 3,6 |
| Blade A 280 Z08 Deluxe | 1550x141x88 | 2x80 (G5) | 170 | 3,6 |

* – Blade A with 28/54W T5 tubes is subject to minimum quantity

Options available on request:

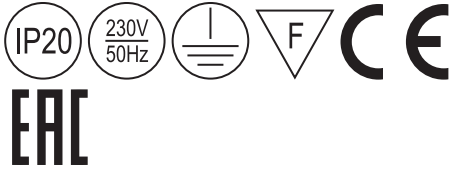
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- Deluxe – Specular reflector
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals

BLADE A 249 Z07 DELUXE



BORA

Slim T8 Batten Luminaire



BORA 136 A73



BORA 236 A77



BORA 136 A75

Type: Slim T8 fluorescent batten luminaire at competitive prices. Suitable for retail and commercial applications.

Specification: White symmetric and asymmetric reflectors are available. Glossy aluminium reflector for Deluxe version.
Body in white steel.
Luminaire is plastic-wrapped and packed in boxes (6-12 pcs per box, depending on model). Reflectors are packed separately.

Installation: Designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Warehouses, factories, supermarkets, other commercial environments.



Suspension brackets for mounting of asymmetric reflector batten can be ordered on request (**BR2**).



Versions with 3 or 5 pole connectors are available on request. See Option list (***CBF3x1,5** ****CON3**), where:

* – length of the flex cable

** – M or F (M – male type or F – female type connector)



Through wired version for 1 or 3 phase connection is available on request. See Option list (1LIN, 3LIN, 1LIN2,5 or 3LIN2,5).

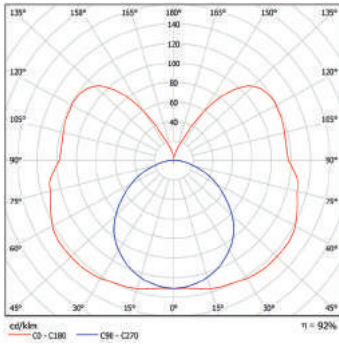
| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------|----------------------------|---------------------|--------------------------------|------------|------------------|
| Bora 118 A67 | No reflector | 1x18 (G13) | 620x53x79 | 1 | 26 |
| Bora 118 A68 | Symmetric white reflector | 1x18 (G13) | 620x173x79 | 1,4 | 26 |
| Bora 118 A69 | Asymmetric white reflector | 1x18 (G13) | 620x113x150 | 1,2 | 26 |
| Bora 136 A73 | No reflector | 1x36 (G13) | 1230x53x79 | 1,3 | 42 |
| Bora 136 A74 | Symmetric white reflector | 1x36 (G13) | 1230x173x79 | 2 | 42 |
| Bora 136 A75 | Asymmetric white reflector | 1x36 (G13) | 1230x113x150 | 1,7 | 42 |
| Bora 158 A79 | No reflector | 1x58 (G13) | 1536x53x79 | 2,1 | 67 |
| Bora 158 A80 | Symmetric white reflector | 1x58 (G13) | 1536x173x79 | 2,9 | 67 |
| Bora 158 A81 | Asymmetric white reflector | 1x58 (G13) | 1536x113x150 | 2,5 | 67 |
| Bora 218 A70 | No reflector | 2x18 (G13) | 620x102x79 | 1 | 42 |
| Bora 218 A71 | Symmetric white reflector | 2x18 (G13) | 620x173x79 | 1,4 | 42 |
| Bora 218 A72 | Asymmetric white reflector | 2x18 (G13) | 620x138x150 | 1,2 | 42 |
| Bora 236 A76 | No reflector | 2x36 (G13) | 1230x102x79 | 1,9 | 84 |
| Bora 236 A77 | Symmetric white reflector | 2x36 (G13) | 1230x173x79 | 2,9 | 84 |
| Bora 236 A78 | Asymmetric white reflector | 2x36 (G13) | 1230x138x150 | 2,3 | 84 |
| Bora 258 A82 | No reflector | 2x58 (G13) | 1536x102x79 | 3,4 | 134 |
| Bora 258 A83 | Symmetric white reflector | 2x58 (G13) | 1536x173x79 | 4,2 | 134 |
| Bora 258 A84 | Asymmetric white reflector | 2x58 (G13) | 1536x138x150 | 3 | 134 |

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|-------------------------------|---------------------|--------------------------------|------------|------------------|
| Bora 118 A68 Deluxe | Symmetric aluminium reflector | 1x18 (G13) | 620x173x79 | 1,3 | 26 |
| Bora 136 A74 Deluxe | Symmetric aluminium reflector | 1x36 (G13) | 1230x173x79 | 1,9 | 42 |
| Bora 158 A80 Deluxe | Symmetric aluminium reflector | 1x58 (G13) | 1536x173x79 | 2,8 | 67 |
| Bora 218 A71 Deluxe | Symmetric aluminium reflector | 2x18 (G13) | 620x173x79 | 1,3 | 42 |
| Bora 236 A77 Deluxe | Symmetric aluminium reflector | 2x36 (G13) | 1230x173x79 | 2,7 | 84 |
| Bora 258 A83 Deluxe | Symmetric aluminium reflector | 2x58 (G13) | 1536x173x79 | 4 | 134 |

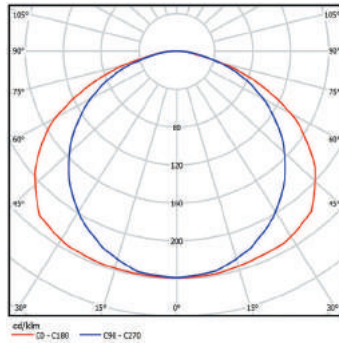
Options available on request:

- | | | | |
|---------|---|-----------|--|
| HF | - High Frequency control gear | RAL | - RAL colour |
| DALI | - DALI ballast | *CBF3x1,5 | - Outgoing flexcable 3x1,5mm ² ready for connection (*-length, m) |
| SDIM | - Switch-control/dimming | *CBF5x1,5 | - Outgoing flexcable 5x1,5mm ² ready for connection (*-length, m) |
| DIM | - Dimmable ballast | *CBF3x2,5 | - Outgoing flexcable 3x2,5mm ² ready for connection (*-length, m) |
| LED | - Wiring for LED bulbs LED type | *CBF5x2,5 | - Outgoing flexcable 5x2,5mm ² ready for connection (*-length, m) |
| LEDD | - Wiring for LED bulbs LEDD type | **CON3/5 | - 3 or 5 pole connector (* - male (M) and female (F) type) |
| LEDS | - Wiring for LED bulbs LEDS type | BR2 | - Set of wall mounting brackets (2 pcs) |
| EMG | - Emergency version 1 hour | 5TB | - 5 way terminal block with two holes (for in and out going cable) |
| EM3 | - Emergency version 3 hours | | - 3-pole Wieland or similar connector (subject to minimum quantity) |
| Deluxe | - Symmetric aluminium reflector | | - Low Power Factor |
| 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminals | | |
| 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminals | | |
| 1LIN2,5 | - Through wiring 3x2.5 mm ² with two push-in terminals | | |
| 3LIN2,5 | - Through wiring 5x2.5 mm ² with two push-in terminals | | |

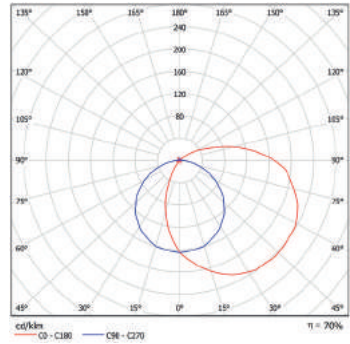
BORA 136 A73 HF



BORA 236 A77 DELUXE HF



BORA 136 A75 HF



ALCOR

Slim T5 Batten Luminaire



CEEC



ALCOR 128 A56



ALCOR 128 A55

Type: Slim T5 batten luminaire incorporating high frequency control gear, giving maximum efficiency and quality of light. Suitable for retail and commercial applications.

Specification: White symmetric and asymmetric reflectors are available. Specular aluminium reflector for Deluxe version.
Body in white steel.
Luminaire is plastic-wrapped and packed in boxes (6-12 pcs per box, depending on model). Reflectors are packed separately.

Installation: Designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Warehouses, factories, supermarkets, other commercial environments.



Narrow beam reflector is an ideal solution for installations higher than 8 meters. See option list.



Suspension brackets for mounting of asymmetric reflector batten can be ordered on request (BR2). See option list.



Versions with 3 or 5 pole connectors are available on request. See Option list

(***CBF3x1,5** ****CON3**), where:

* – length of the flexcable

** – M or F (M – male type or F – female type connector)

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|----------------------------|---------------------|--------------------------------|------------|------------------|
| Alcor 114 B46 | No reflector | 1x14 (G5) | 575x45x64 | 0,5 | 16 |
| Alcor 114 B47 | Symmetric white reflector | 1x14 (G5) | 575x137x79 | 1,1 | 16 |
| Alcor 114 B48 | Asymmetric white reflector | 1x14 (G5) | 575x56x107 | 0,8 | 16 |
| Alcor 124 I44 | No reflector | 1x24 (G5) | 575x45x64 | 0,5 | 25 |
| Alcor 124 I45 | Symmetric white reflector | 1x24 (G5) | 575x137x79 | 1,1 | 25 |
| Alcor 124 I46 | Asymmetric white reflector | 1x24 (G5) | 575x56x107 | 0,8 | 25 |
| Alcor 121 L70 | No reflector | 1x21 (G5) | 875x45x64 | 0,7 | 23 |
| Alcor 121 L71 | Symmetric white reflector | 1x21 (G5) | 875x137x79 | 1,5 | 23 |
| Alcor 121 L72 | Asymmetric white reflector | 1x21 (G5) | 875x56x107 | 1,2 | 23 |
| Alcor 139 L73 | No reflector | 1x39 (G5) | 875x45x64 | 0,7 | 42 |
| Alcor 139 L74 | Symmetric white reflector | 1x39 (G5) | 875x137x79 | 1,5 | 42 |
| Alcor 139 L75 | Asymmetric white reflector | 1x39 (G5) | 875x56x107 | 1,2 | 42 |
| Alcor 128 A55 | No reflector | 1x28 (G5) | 1175x45x64 | 0,9 | 30 |
| Alcor 128 A56 | Symmetric white reflector | 1x28 (G5) | 1175x137x79 | 1,8 | 30 |
| Alcor 128 A57 | Asymmetric white reflector | 1x28 (G5) | 1175x56x107 | 1,4 | 30 |
| Alcor 154 A61 | No reflector | 1x54 (G5) | 1175x45x64 | 0,9 | 58 |
| Alcor 154 A62 | Symmetric white reflector | 1x54 (G5) | 1175x137x79 | 1,8 | 58 |
| Alcor 154 A63 | Asymmetric white reflector | 1x54 (G5) | 1175x56x107 | 1,4 | 58 |
| Alcor 135 B09 | No reflector | 1x35 (G5) | 1470x45x64 | 1,1 | 38 |
| Alcor 135 B10 | Symmetric white reflector | 1x35 (G5) | 1470x137x79 | 2,2 | 38 |
| Alcor 135 D24 | Asymmetric white reflector | 1x35 (G5) | 1470x56x107 | 1,8 | 38 |
| Alcor 149 D25 | No reflector | 1x49 (G5) | 1470x45x64 | 1,1 | 53 |
| Alcor 149 D26 | Symmetric white reflector | 1x49 (G5) | 1470x137x79 | 2,2 | 53 |
| Alcor 149 D27 | Asymmetric white reflector | 1x49 (G5) | 1470x56x107 | 1,8 | 53 |
| Alcor 180 D28 | No reflector | 1x80 (G5) | 1470x45x64 | 1,1 | 85 |
| Alcor 180 D29 | Symmetric white reflector | 1x80 (G5) | 1470x137x79 | 2,2 | 85 |
| Alcor 180 D30 | Asymmetric white reflector | 1x80 (G5) | 1470x56x107 | 1,8 | 85 |
| Alcor 214 B49 | No reflector | 2x14 (G5) | 575x70x64 | 0,6 | 31 |
| Alcor 214 B50 | Symmetric white reflector | 2x14 (G5) | 575x137x79 | 1,2 | 31 |
| Alcor 214 B51 | Asymmetric white reflector | 2x14 (G5) | 575x115x107 | 0,9 | 31 |
| Alcor 224 I47 | No reflector | 2x24 (G5) | 575x70x64 | 0,6 | 50 |
| Alcor 224 I48 | Symmetric white reflector | 2x24 (G5) | 575x137x79 | 1,2 | 50 |
| Alcor 224 I49 | Asymmetric white reflector | 2x24 (G5) | 575x115x107 | 0,9 | 50 |
| Alcor 221 L76 | No reflector | 2x21 (G5) | 875x70x64 | 0,8 | 45 |
| Alcor 221 L77 | Symmetric white reflector | 2x21 (G5) | 875x137x79 | 1,6 | 45 |
| Alcor 221 L78 | Asymmetric white reflector | 2x21 (G5) | 875x115x107 | 1,3 | 45 |
| Alcor 239 L79 | No reflector | 1x39 (G5) | 875x70x64 | 0,8 | 81 |
| Alcor 239 L80 | Symmetric white reflector | 1x39 (G5) | 875x137x79 | 1,6 | 81 |
| Alcor 239 L81 | Asymmetric white reflector | 1x39 (G5) | 875x115x107 | 1,3 | 81 |
| Alcor 228 A58 | No reflector | 2x28 (G5) | 1175x70x64 | 1 | 60 |

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|----------------------------|---------------------|--------------------------------|------------|------------------|
| Alcor 228 A59 | Symmetric white reflector | 2x28 (G5) | 1175x137x79 | 1,9 | 60 |
| Alcor 228 A60 | Asymmetric white reflector | 2x28 (G5) | 1175x115x107 | 1,5 | 60 |
| Alcor 254 A64 | No reflector | 2x54 (G5) | 1175x70x64 | 1 | 116 |
| Alcor 254 A65 | Symmetric white reflector | 2x54 (G5) | 1175x137x79 | 1,9 | 116 |
| Alcor 254 A66 | Asymmetric white reflector | 2x54 (G5) | 1175x115x107 | 1,5 | 116 |
| Alcor 235 D31 | No reflector | 2x35 (G5) | 1470x70x64 | 1,3 | 75 |
| Alcor 235 D32 | Symmetric white reflector | 2x35 (G5) | 1470x137x79 | 2,4 | 75 |
| Alcor 235 D33 | Asymmetric white reflector | 2x35 (G5) | 1470x115x107 | 2 | 75 |
| Alcor 249 D34 | No reflector | 2x49 (G5) | 1470x70x64 | 1,3 | 104 |
| Alcor 249 D35 | Symmetric white reflector | 2x49 (G5) | 1470x137x79 | 2,4 | 104 |
| Alcor 249 D36 | Asymmetric white reflector | 2x49 (G5) | 1470x115x107 | 2 | 104 |
| Alcor 280 D37 | No reflector | 2x80 (G5) | 1470x70x64 | 1,5 | 170 |
| Alcor 280 D38 | Symmetric white reflector | 2x80 (G5) | 1470x137x79 | 2,6 | 170 |
| Alcor 280 D39 | Asymmetric white reflector | 2x80 (G5) | 1470x115x107 | 2,2 | 170 |

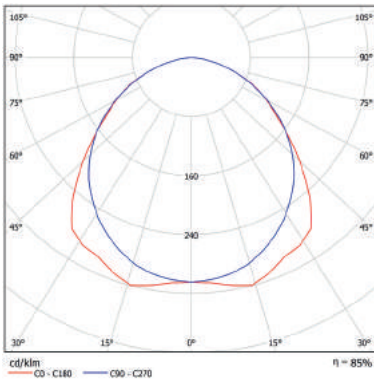
| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|-------------------------------|---------------------|--------------------------------|------------|------------------|
| Alcor 114 B47 Deluxe | Symmetric aluminium reflector | 1x14 (G5) | 578x146x76 | 0,9 | 16 |
| Alcor 124 I45 Deluxe | Symmetric aluminium reflector | 1x24 (G5) | 578x146x76 | 0,9 | 25 |
| Alcor 128 A56 Deluxe | Symmetric aluminium reflector | 1x28 (G5) | 1178x146x76 | 1,6 | 30 |
| Alcor 154 A62 Deluxe | Symmetric aluminium reflector | 1x54 (G5) | 1178x146x76 | 1,6 | 58 |
| Alcor 135 B10 Deluxe | Symmetric aluminium reflector | 1x35 (G5) | 1473x146x76 | 2 | 38 |
| Alcor 149 D26 Deluxe | Symmetric aluminium reflector | 1x49 (G5) | 1473x146x76 | 2 | 53 |
| Alcor 180 D29 Deluxe | Symmetric aluminium reflector | 1x80 (G5) | 1473x146x76 | 2 | 85 |
| Alcor 214 B50 Deluxe | Symmetric aluminium reflector | 2x14 (G5) | 578x146x76 | 1 | 31 |
| Alcor 224 I48 Deluxe | Symmetric aluminium reflector | 2x24 (G5) | 578x146x76 | 1 | 50 |
| Alcor 228 A59 Deluxe | Symmetric aluminium reflector | 2x28 (G5) | 1178x146x76 | 1,9 | 60 |
| Alcor 254 A65 Deluxe | Symmetric aluminium reflector | 2x54 (G5) | 1178x146x76 | 1,9 | 116 |
| Alcor 235 D32 Deluxe | Symmetric aluminium reflector | 2x35 (G5) | 1473x146x76 | 2,4 | 75 |
| Alcor 249 D35 Deluxe | Symmetric aluminium reflector | 2x49 (G5) | 1473x146x76 | 2,4 | 104 |
| Alcor 280 D38 Deluxe | Symmetric aluminium reflector | 2x80 (G5) | 1473x146x76 | 2,6 | 170 |

Options available on request:

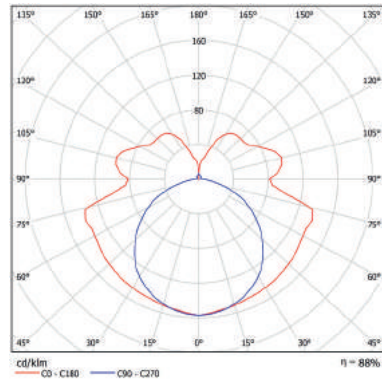
- DALI – DALI ballast
- SDIM – Switch-control/dimming
- DIM – Dimmable ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- Deluxe – Symmetric aluminium reflector
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- RAL – RAL colour

- *CBF3x1,5 – Outgoing flexcable 3x1,5mm² ready for connection (*-length, m)
- *CBF5x1,5 – Outgoing flexcable 5x1,5mm² ready for connection (*-length, m)
- *CBF3x2,5 – Outgoing flexcable 3x2,5mm² ready for connection (*-length, m)
- *CBF5x2,5 – Outgoing flexcable 5x2,5mm² ready for connection (*-length, m)
- **CON3/5 – 3 or 5 pole connector (** – male (M) and female (F) type)
- BR2 – Set of wall mounting brackets (2 pcs)
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- NARROW – Narrow beam reflector for high ceiling application (>8 meters)

ALCOR 228 A59 DELUXE



ALCOR 228 A58



HOLDER BR/BR2

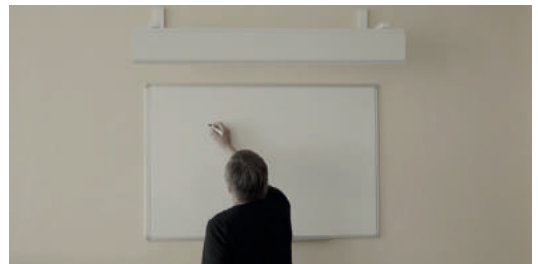
For Asymmetric
BORA & ALCOR



Type: Universal holder for battens (Bora and Alcor type) with asymmetric reflector for effective wall washing in schools, display and retail areas.

Specification: Body in white steel.

Installation: Designed to be fixed to walls of any type.



- BR – Single piece wall mounting bracket (1 pcs)
- BR2 – Set of wall mounting brackets (2pcs)

NEGARA

IP65 Batten for
Humid&Dusty Rooms



CE ENEC



NEGARA 158 H05

Type: Water and dust resistant IP 65 batten type luminaire for use in adverse conditions.

Specification: Injection moulded glass fiber reinforced housing and cover with quick locking system. Grey finished. Luminaire can be fitted with white painted steel reflector and protective tubes on request (see Option list).
Starters are accessible from outside.
Luminaire is plastic wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Suitable for production halls, workshops and car parks with dusty, humid environment.

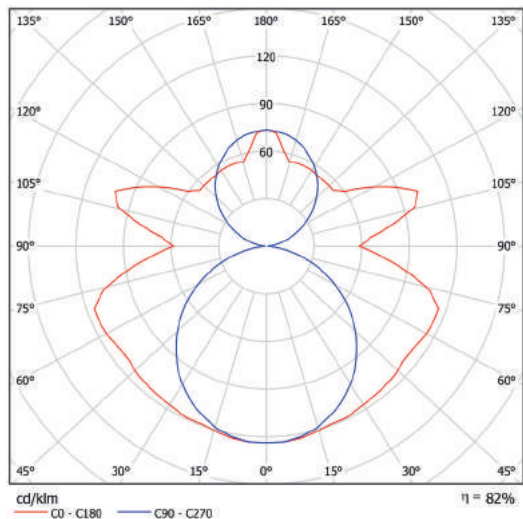
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Negara 118 H01 | 1x18 (G13) | 661x66x115 | 1,25 | 26 |
| Negara 136 H03 | 1x36 (G13) | 1271x66x115 | 1,8 | 42 |
| Negara 158 H05 | 1x58 (G13) | 1571x66x115 | 2,3 | 67 |
| Negara 218 H02 | 2x18 (G13) | 661x117x115 | 1,35 | 42 |
| Negara 236 H04 | 2x36 (G13) | 1271x117x115 | 2,6 | 84 |
| Negara 258 H06 | 2x58 (G13) | 1571x117x115 | 3,35 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Negara 114 L82 | 1x14 (G5) | 661x66x115 | 1 | 15 |
| Negara 124 L83 | 1x24 (G5) | 661x66x115 | 1 | 25 |
| Negara 128 L84 | 1x28 (G5) | 1271x66x115 | 1,7 | 30 |
| Negara 154 L87 | 1x54 (G5) | 1271x66x115 | 1,7 | 58 |
| Negara 135 L85 | 1x35 (G5) | 1571x66x115 | 2,1 | 38 |
| Negara 149 L86 | 1x49 (G5) | 1571x66x115 | 2,1 | 53 |
| Negara 180 L88 | 1x80 (G5) | 1571x66x115 | 2,1 | 85 |
| Negara 214 L89 | 2x14 (G5) | 661x117x115 | 1,1 | 31 |
| Negara 224 L90 | 2x24 (G5) | 661x117x115 | 1,1 | 50 |
| Negara 228 L91 | 2x28 (G5) | 1271x117x115 | 1,8 | 60 |
| Negara 254 L94 | 2x54 (G5) | 1271x117x115 | 1,8 | 116 |
| Negara 235 L92 | 2x35 (G5) | 1571x117x115 | 2,2 | 75 |
| Negara 249 L93 | 2x49 (G5) | 1571x117x115 | 2,2 | 104 |
| Negara 280 L95 | 2x80 (G5) | 1571x117x115 | 2,2 | 170 |

Options available on request:

| | | | |
|--------|---------------------------------|-----------|---|
| HF | - High Frequency control gear | 5TB | - 5 way terminal block with two holes |
| DALI | - DALI ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminals |
| SDIM | - Switch-control/dimming | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminals |
| DIM | - Dimmable ballast | 1LIN2,5 | - Through wiring 3x2.5 mm ² with two push-in terminals |
| EMG | - Emergency version 1 hour | 3LIN2,5 | - Through wiring 5x2.5 mm ² with two push-in terminals |
| EM3 | - Emergency version 3 hours | *CBF3x1,5 | - Outgoing flexicable 3x1,5mm ² ready for connection (*-length, m) |
| TUBE | - PMMA protective tube | | |
| RFL | - White symmetric reflector | *CBF5x1,5 | - Outgoing flexicable 5x1,5mm ² ready for connection (*-length, m) |
| SPORT | - White painted protective grid | | |
| Deluxe | - Symmetric aluminium reflector | *CBF3x2,5 | - Outgoing flexicable 3x2,5mm ² ready for connection (*-length, m) |
| | | *CBF5x2,5 | - Outgoing flexicable 5x2,5mm ² ready for connection (*-length, m) |

NEGARA 236 H04 HF

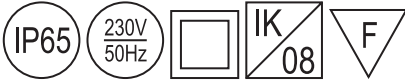




DIFFUSER AND WALL LUMINAIRES

PUPIS P LED

**IP65 Oval LED Luminaire
with Opal Diffuser**



Type: A surface-mounted LED luminaire with oval profile and high impact resistance.

Specification: Opal polycarbonate diffuser with screw fixing. Sealed to IP65. White polycarbonate body. High impact resistance. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for corridors, hospitals, colleges and other similar institutions.

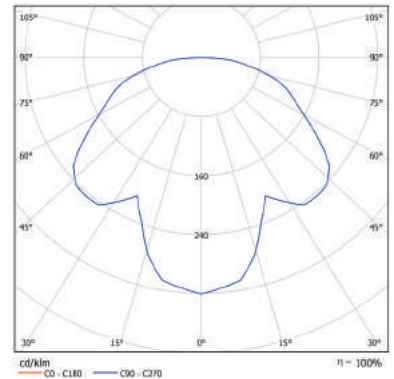
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Pupis P LED1x490 C138 T730 OP | 212x118x61 | 40000 | 490 | 5 | 70+ | 3000 | 0.35 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- OP – Opal diffuser
- T730 – Colour temperature 3000K

PUPIS P LED1X490 C138 T730 OP



CETUS P LED

**IP65 Rounded Profile LED
Luminaire with Opal Diffuser**



CE EAC



Type: A surface-mounted LED luminaire with rounded profile and high impact resistance.

Specification: Opal polycarbonate diffuser with screw fixing. Sealed to IP65.
White polycarbonate body. High impact resistance.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Ideal for corridors, hospitals, colleges and other similar institutions.

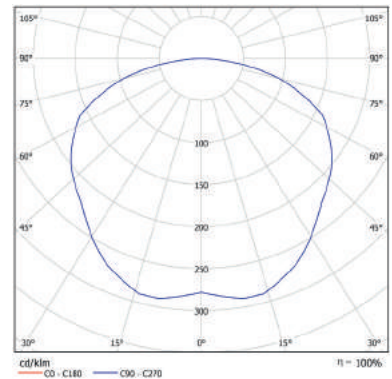
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Cetus P LED1x800 C139 T730 OP | Ø192x75 | 40000 | 800 | 10 | 70+ | 3000 | 0.90 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

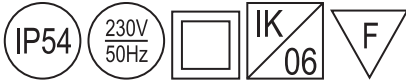
- OP – Opal diffuser
- T730 – Colour temperature 3000K

CETUS P LED1X800 C139 T730 OP



PUPIS

IP54 Oval Luminaire



CE EAC



Type: Surface-mounted luminaire with oval profile.

Specification: Transparent glass IP54 diffuser with screw lock.
Grey thermoplastic body with protective grid. Aluminium reflector.
Luminaire is packed 12 pcs/box.

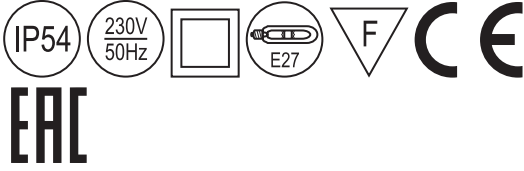
Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|----------|--------------------------------|------------|------------------|
| Pupis 1E27 J45 | max.60W (E27) | IP54 | 170x125x115 | 0.4 | - |

SAUNA RO/OV

IP54 Luminaire for Hot Environment



SAUNA RO 1E27 N21 GST OP



SAUNA OV 1E27 N22 GST

Type: Surface-mounted fluorescent luminaire with rounded profile.

Specification: Glass IP54 diffuser fixed with two screws. GST version with chrome plated steel grid. White body made of high temperature resistant bakelite. Aluminium reflector. Luminaire is packed 5 pcs/box.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for use in hot industrial areas and saunas.

| Name | Description | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------------|-------------|---------------------|----------|--------------------------------|------------|------------------|
| Sauna RO 1E27 N21 OP | Round | max.40W (E27) | IP54 | Ø245x105 | 0,95 | - |
| Sauna RO 1E27 N21 GST OP | Round | max.40W (E27) | IP54 | Ø245x105 | 0,95 | - |
| Sauna OV 1E27 N22 GST | Oval | max.40W (E27) | IP54 | 195x135x115 | 0,85 | - |

Options available on request:

- RO – Round bakelite body
- OV – Oval bakelite body
- OP – Frosted glass diffuser
- CLR – Clear glass diffuser
- GST – Chrome plated steel grid

CETUS OP/CLR

IP44 Rounded Profile
Luminaire



CE



CETUS 1E27 J46 CLR

Type: Surface-mounted fluorescent luminaire with rounded profile.

Specification: Transparent or frosted glass IP44 diffuser with quick fix lock.
White thermoplastic body with reflector.
Luminaire is packed 5 pcs/box.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------|--------------------------------|------------|------------------|
| Cetus 1E27 J46 CLR | max. 100W (E27) | IP44 | Ø245x85 | 0,75 | - |
| Cetus 209 M21 CLR | 2x9 (TC-S, G23) | IP44 | Ø245x85 | 1,15 | 32 |
| Cetus 113 J52 CLR | 1x13 (G24d-1) | IP44 | Ø245x85 | 1,15 | 19 |
| Cetus 118 J47 CLR | 1x18 (G24d-2) | IP44 | Ø245x85 | 1,2 | 26 |
| Cetus 126 J48 CLR | 1x26 (G24d-3) | IP44 | Ø245x85 | 1,25 | 34 |
| Cetus 116 P84 CLR HF | 1x16 (GR10Q) | IP44 | Ø245x85 | 1,2 | 17 |

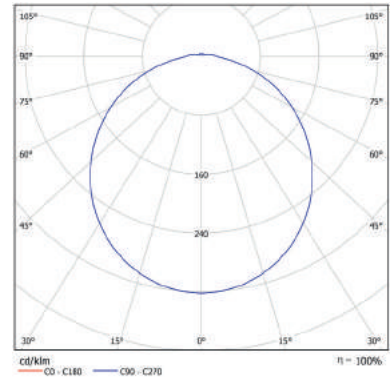
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Cetus LED1x500 C441 T830 OP ECO | Ø245x85 | 50000 | 434 | 8 | 80+ | 3000 | 1,10 |

* Tolerance range for optical and electrical data: ±10 %

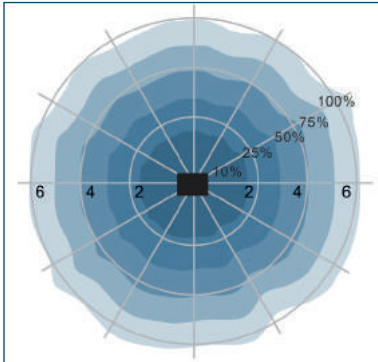
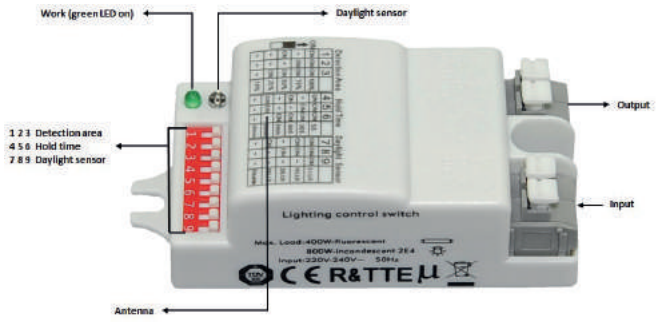
Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- DALI – DALI ballast
- OP – Frosted glass diffuser
- CLR – Clear glass diffuser
- MW – MW sensor
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- T830 – Colour temperature 3000K

CETUS LED1X500 C441 T830 OP ECO



MW SENSOR



MW FIELD OF VIEW

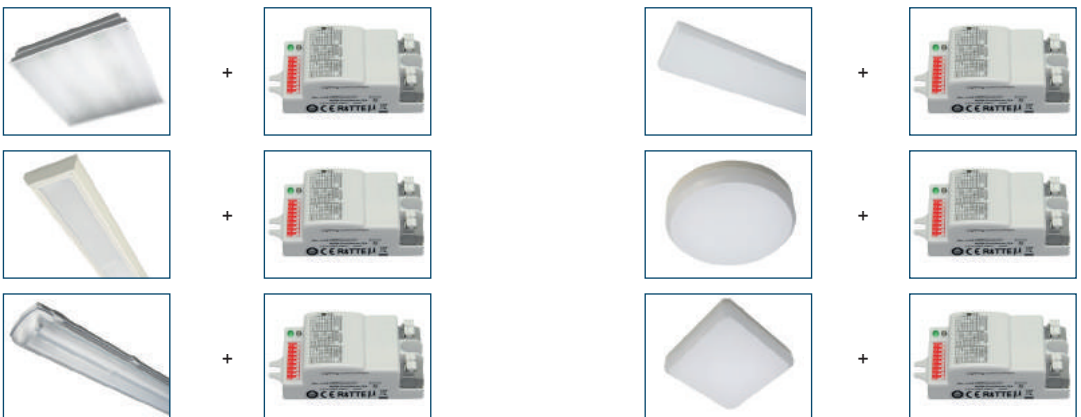
Type: Microwave motion sensor will automatically turn on the load, when motion is detected.

Specification: White thermoplastic body with DIP switches for presetting of functions and operations.
Ambient temperature -25°C ~ +60°C
Max mounting height 5 meters
Compact size
50 000 service hours
Sensor is plastic-wrapped and boxed individually.

Installation: Can be mounted in any luminaire with a plastic diffuser.

Application: Indoor. Designed to be built into lighting fixtures for indoor use.

APPLICATIONS WITH A PLASTIC DIFFUSER LUMINAIRES



MW FITTINGS ILLUSTRATIONS



SLIM INDOOR USE FITTING INDUS EQUIPPED WITH MW SENSOR



IP 66 INDOOR/OUTDOOR USE FITTING BARAT EQUIPPED WITH MW SENSOR

FUNCTIONS AND OPTIONS

A: switch on/off function

The sensor can switch on/off halogen transformers, electronic ballasts, LED drivers. There is a limit of max load 400W (inductive) and 800W (resistive) for one sensor.

B: detection area

Detection area can be adjusted by selecting combination of DIP switches to fit precisely for each specific application.

C: hold-time

Hold time means the time period for which lamp should be kept on 100% after moving object has left detection area.

D: daylight sensor

The sensor contains a daylight sensor in order to allow the on/off function only at defined brightness threshold. When set to **Disable** mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

| | | | | | |
|-------------|-----|----|----|-----|------|
| ON ↑ | | 1 | 2 | 3 | |
| | I | ON | ON | ON | 100% |
| | II | - | ON | ON | 75% |
| | III | ON | - | ON | 50% |
| | IV | - | - | ON | 25% |
| V | - | - | - | 10% | |

| | | | | | |
|-------------|-----|----|----|-------|-------|
| ON ↑ | | 4 | 5 | 6 | |
| | I | ON | ON | ON | 5s |
| | II | - | ON | ON | 30s |
| | III | ON | - | ON | 90s |
| | IV | - | - | ON | 3min |
| | V | ON | ON | - | 20min |
| VI | - | - | - | 30min | |

| | | | | | |
|-------------|-----|----|----|---------|-------|
| ON ↑ | | 7 | 8 | 9 | |
| | I | ON | ON | ON | 2lux |
| | II | ON | ON | - | 10lux |
| | III | - | ON | - | 30lux |
| | IV | ON | - | - | 50lux |
| V | - | - | - | Disable | |

PIR IP65 SENSOR ENCLOSURE CAN BE USED WITH HIGH MOUNTED LUMINAIRES



MW IP65 sensor enclosure (MW BOX) could be used for MW and MW 20 sensors, where IP protection is needed. MW 20 together with IP65 MW BOX enclosure could be used outdoors as well even in winter times, as long as temperatures do not fall below -35°C.



+



+



+



+



PAVO

IP40 Rounded Profile Luminaire



CE EAC



Type: Surface-mounted fluorescent luminaire with rounded profile.

Specification: Durable opal PMMA IP40 diffuser with quick fix lock.
White polycarbonate body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|----------|--------------------------------|------------|------------------|
| Pavo 1E27 J34 | max. 20W (E27) | IP40 | Ø275x105 | 0,8 | - |
| Pavo 209 M42 | 2x9 (TC-S, G23) | IP40 | Ø275x105 | 1,1 | 32 |
| Pavo 113 M46 | 1x13 (G24d-1) | IP40 | Ø275x105 | 1,1 | 19 |
| Pavo 118 J35 | 1x18 (G24d-2) | IP40 | Ø275x105 | 1,1 | 26 |
| Pavo 126 J36 | 1x26 (G24d-3) | IP40 | Ø275x105 | 1,2 | 34 |
| Pavo 122 H49 | 1x22 (T9 C, G10Q) | IP40 | Ø275x105 | 1,1 | 30 |
| Pavo 122 H51 HF | 1x22 (T5 FC, 2Gx13) | IP40 | Ø275x105 | 0,9 | 25 |
| Pavo 116 P88 HF | 1x16 (GR10Q) | IP40 | Ø275x105 | 0,9 | 17 |
| Pavo 2E27 M47 | 2x max. 20W (E27) | IP40 | Ø375x115 | 1,0 | - |
| Pavo 213 M43 | 2x13 (G24d-1) | IP40 | Ø375x115 | 1,4 | 38 |
| Pavo 218 M44 | 2x18 (G24d-2) | IP40 | Ø375x115 | 1,4 | 52 |
| Pavo 226 M45 | 2x26 (G24d-3) | IP40 | Ø375x115 | 1,7 | 68 |
| Pavo 132 H50 | 1x32 (T9 C, G10Q) | IP40 | Ø375x115 | 1,5 | 40 |
| Pavo 140 H52 HF | 1x40 (T5 FC, 2Gx13) | IP40 | Ø375x115 | 1,1 | 44 |
| Pavo 155 H53 HF | 1x55 (T5 FC, 2Gx13) | IP40 | Ø375x115 | 1,1 | 60 |
| Pavo 128 P89 HF | 1x28 (GR10Q) | IP40 | Ø375x115 | 1,1 | 29 |
| Pavo 138 P90 HF | 1x38 (GR10Q) | IP40 | Ø375x115 | 1,1 | 38 |
| Pavo 232 O49 HF | 2x32 (G24q-3) | IP40 | Ø475x125 | 1,5 | 64 |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Pavo LED1x500 C444 T830 ECO | Ø275x105 | 50000 | 455 | 8 | 80+ | 3000 | 0,90 |
| Pavo LED1x1300 D226 T840 | Ø275x105 | 50000 | 1263 | 14 | 80+ | 4000 | 0,90 |
| Pavo LED1x1000 C445 T840 ECO | Ø375x115 | 50000 | 910 | 16 | 80+ | 4000 | 1,20 |

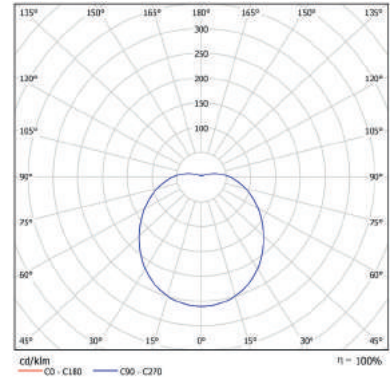
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Pavo LED1x1800 D227 T840 | Ø375x115 | 50000 | 1798 | 19 | 80+ | 4000 | 1,20 |
| Pavo LED1x2300 D228 T840 | Ø375x115 | 50000 | 2247 | 24 | 80+ | 4000 | 1,70 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

PAVO LED1X1800 D227 T840



INDUS

IP54 Plastic Luminaire



Type: Surface-mounted fluorescent / LED luminaire with rounded profile.

Specification: Opal PC IP54 diffuser with quick lock system.
White thermoplastic body with steel reflector.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------|--------------------------------|------------|------------------|
| Indus 1E27 M23 | max. 40W (E27) | IP54 | Ø300x120 | 0,8 | - |
| Indus 209 M24 | 2x9 (TC-S, G23) | IP54 | Ø300x120 | 1,1 | 32 |
| Indus 113 M25 | 1x13 (G24d-1) | IP54 | Ø300x120 | 1,1 | 19 |
| Indus 118 M26 | 1x18 (G24d-2) | IP54 | Ø300x120 | 1,15 | 26 |
| Indus 126 M27 | 1x26 (G24d-3) | IP54 | Ø300x120 | 1,2 | 34 |
| Indus 213 M28 | 2x13 (G24d-1) | IP54 | Ø300x120 | 1,45 | 38 |
| Indus 218 M29 | 2x18 (G24d-2) | IP54 | Ø300x120 | 1,5 | 52 |
| Indus 122 M30 | 1x22 (T9 C, G10Q) | IP54 | Ø300x120 | 1,25 | 30 |
| Indus 122 M31 HF | 1x22 (T5 FC, 2Gx13) | IP54 | Ø300x120 | 0,95 | 25 |
| Indus 116 P95 HF | 1x16 (GR10Q) | IP54 | Ø300x120 | 0,95 | 17 |
| Indus 128 P96 HF | 1x28 (GR10Q) | IP54 | Ø300x120 | 1 | 29 |

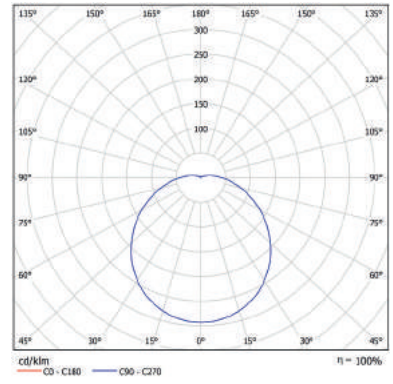
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Indus LED1x1200 E203 T840 | Ø300x120 | 50000 | 1173 | 14 | 80+ | 4000 | 1,00 |
| Indus LED1x1500 E204 T840 | Ø300x120 | 50000 | 1466 | 17 | 80+ | 4000 | 1,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

INDUS LED1X1200 E203 T840



COLUMBA

IP65 Plastic Luminaire



CE EAC



Type: Surface-mounted fluorescent / LED luminaire with rounded profile.

Specification: Opal PC IP65 diffuser with screws fixing.
White thermoplastic body with steel reflector.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------|--------------------------------|------------|------------------|
| Columba E27 M32 | max. 23W (E27) | IP65 | Ø335x130 | 1,1 | - |
| Columba 209 M41 | 2x9 (TC-S, G23) | IP65 | Ø335x130 | 1,35 | 32 |
| Columba 113 M33 | 1x13 (G24d-1) | IP65 | Ø335x130 | 1,35 | 19 |
| Columba 118 M34 | 1x18 (G24d-2) | IP65 | Ø335x130 | 1,4 | 26 |
| Columba 126 M35 | 1x26 (G24d-3) | IP65 | Ø335x130 | 1,45 | 34 |
| Columba 213 M36 | 2x13 (G24d-1) | IP65 | Ø335x130 | 1,7 | 38 |
| Columba 218 M37 | 2x18 (G24d-2) | IP65 | Ø335x130 | 1,7 | 52 |
| Columba 226 M38 | 2x26 (G24d-3) | IP65 | Ø335x130 | 1,95 | 68 |
| Columba 122 M39 | 1x22 (T9 C, G10Q) | IP65 | Ø335x130 | 1,5 | 30 |
| Columba 122 M40 HF | 1x22 (T5 FC, 2Gx13) | IP65 | Ø335x130 | 1,2 | 25 |
| Columba 116 Q05 HF | 1x16 (GR10Q) | IP65 | Ø335x130 | 1,2 | 17 |
| Columba 128 Q06 HF | 1x28 (GR10Q) | IP65 | Ø335x130 | 1,25 | 29 |
| Columba 138 Q07 HF | 1x38 (GR10Q) | IP65 | Ø335x130 | 1,25 | 38 |

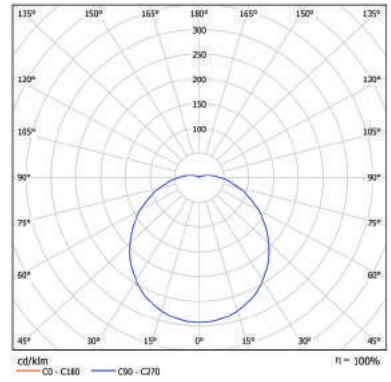
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Columba LED1x700 C442 T840 ECO | Ø335x130 | 50000 | 650 | 12 | 80+ | 4000 | 1,20 |
| Columba LED1x900 C443 T840 ECO | Ø335x130 | 50000 | 845 | 18 | 80+ | 4000 | 1,20 |
| Columba LED1x1200 E206 T840 | Ø335x130 | 50000 | 1173 | 14 | 80+ | 4000 | 1,20 |
| Columba LED1x1500 E207 T840 | Ø335x130 | 50000 | 1466 | 17 | 80+ | 4000 | 1,20 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

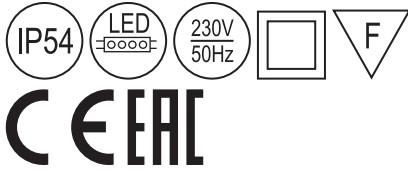
- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- NCP – Low Power Factor
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

COLUMBA LED1X1500 E207 T840



DORADO

IP54 Square Luminaire



- Type:** Surface-mounted square fluorescent / LED luminaire with slim profile.
- Specification:** Durable opal PMMA diffuser with outstanding resistance to chemical influences. White polycarbonate body. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.
- Application:** Indoor. Ideal for common areas in hospitals, swimming pools, bathrooms, etc.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|----------|--------------------------------|------------|------------------|
| Dorado 109 H27 | 1x9 (TC-S, G23) | IP54 | 200x200x58 | 1,1 | 16 |
| Dorado 209 H28 | 2x9 (TC-S, G23) | IP54 | 200x200x58 | 1,2 | 32 |
| Dorado 116 Q08 | 1x16 (GR10Q) | IP54 | 200x200x58 | 1 | 17 |
| Dorado B 1E27 O39 | max. 25W (E27) | IP54 | 300x300x83 | 1,6 | - |
| Dorado B 211 H29 | 2x11 (TC-S, G23) | IP54 | 300x300x83 | 2 | 36 |
| Dorado B 218 H30 | 2x18 (TC-L, 2G11) | IP54 | 300x300x83 | 2 | 52 |
| Dorado B 122 H31 | 1x22 (T9 C, G10Q) | IP54 | 300x300x83 | 2 | 30 |
| Dorado B 211 H32 HF | 2x11 (TC-SE, 2G7) | IP54 | 300x300x83 | 1,7 | 20 |
| Dorado B 218 H33 HF | 2x18 (TC-L, 2G11) | IP54 | 300x300x83 | 1,7 | 28 |
| Dorado B 122 H34 HF | 1x22 (T5 FC, 2Gx13) | IP54 | 300x300x83 | 1,7 | 25 |
| Dorado B 218 Q11 | 2x18 (G24d-2) | IP54 | 300x300x83 | 2 | 52 |
| Dorado B 226 M61 | 2x26 (G24d-3) | IP54 | 300x300x83 | 2,2 | 68 |
| Dorado B 128 Q09 HF | 1x28 (GR10Q) | IP54 | 300x300x83 | 1,7 | 29 |
| Dorado B 138 Q10 HF | 1x38 (GR10Q) | IP54 | 300x300x83 | 1,7 | 38 |

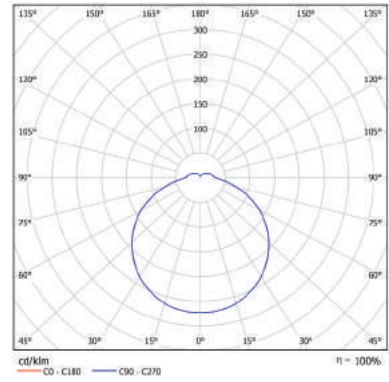
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Dorado LED1x1000 D231 T840 | 200x200x58 | 50000 | 905 | 11 | 80+ | 4000 | 1,00 |
| Dorado B LED1x1400 D232 T840 | 300x300x83 | 50000 | 1338 | 17 | 80+ | 4000 | 1,70 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

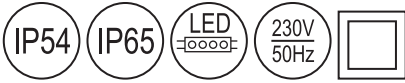
- HF – High Frequency control gear
- SDIM – Switch-control/dimming
- DIM – Dimmable ballast / driver
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- NCP – Low Power Factor
- PC – Polycarbonate diffuser
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

DORADO LED1X1000 D231 T840



POLLUX

IP 54/65 Circular Luminaire



- Type:** Surface-mounted circular fluorescent / LED luminaire with slim profile.
- Specification:** Durable opal PMMA diffuser with outstanding resistance to chemical influences. White polycarbonate body. Sealing gasket in IP54(Pollux)/ IP65(Pollux B) version. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.
- Application:** Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.

| Name | Lamp (W) and holder | IP level | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|----------|--------------------------------|------------|------------------|
| Pollux 109 H35 | 1x 9 (TC-S, G23) | IP54 | Ø260x58 | 1,1 | 16 |
| Pollux 209 H36 | 2x9 (TC-S, G23) | IP54 | Ø260x58 | 1,2 | 32 |
| Pollux 118 H38 | 1x18 (G24d-2) | IP54 | Ø260x58 | 1,2 | 26 |
| Pollux 109 H37 HF | 1x9 (TC-SE, 2G7) | IP54 | Ø260x58 | 0,9 | 10 |
| Pollux 116 Q14 HF | 1x16 (GR10Q) | IP54 | Ø260x58 | 0,9 | 17 |
| Pollux B 211 H39 | 2x11 (TC-S, G23) | IP65 | Ø360x83 | 2 | 20 |
| Pollux B 218 H40 | 2x18 (TC-L, 2G11) | IP65 | Ø360x83 | 2 | 28 |
| Pollux B 122 H41 | 1x22 (T9 C, G10Q) | IP65 | Ø360x83 | 2 | 30 |
| Pollux B 132 H42 | 1x32 (T9 C, G10Q) | IP65 | Ø360x83 | 2 | 40 |
| Pollux B 211 H43 HF | 2x11 (TC-SE, 2G7) | IP65 | Ø360x83 | 1,7 | 20 |
| Pollux B 218 H44 HF | 2x18 (TC-L, 2G11) | IP65 | Ø360x83 | 1,7 | 28 |
| Pollux B 122 H45 HF | 1x22 (T5 FC, 2Gx13) | IP65 | Ø360x83 | 1,7 | 25 |
| Pollux B 140 H46 HF | 1x40 (T5 FC, 2Gx13) | IP65 | Ø360x83 | 1,7 | 44 |
| Pollux B 155 H47 HF | 1x55 (T5 FC, 2Gx13) | IP65 | Ø360x83 | 1,7 | 60 |
| Pollux B 218 Q17 | 2x18 (G24d-2) | IP65 | Ø360x83 | 2 | 52 |
| Pollux B 226 Q18 | 2x26 (G24d-3) | IP65 | Ø360x83 | 2 | 68 |
| Pollux B 128 Q15 HF | 1x28 (GR10Q) | IP65 | Ø360x83 | 1,7 | 29 |
| Pollux B 138 Q16 HF | 1x38 (GR10Q) | IP65 | Ø360x83 | 1,7 | 38 |

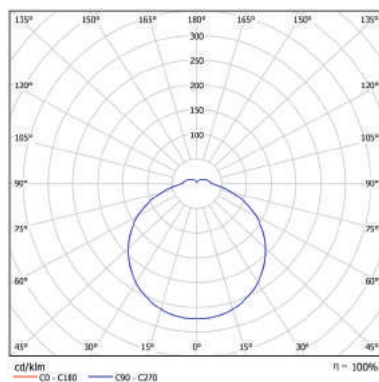
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Pollux LED1x700 D234 T840 | Ø260x58 | 50000 | 603 | 7 | 80+ | 4000 | 1,00 |
| Pollux LED1x900 D235 T840 | Ø260x58 | 50000 | 835 | 10 | 80+ | 4000 | 1,00 |
| Pollux B LED1x1600 D236 T840 | Ø360x83 | 50000 | 1508 | 16 | 80+ | 4000 | 1,70 |
| Pollux B LED1x2100 D237 T840 | Ø360x83 | 50000 | 2087 | 24 | 80+ | 4000 | 1,70 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HF – High Frequency control gear
- SDIM – Switch-control/dimming
- DIM – Dimmable ballast / driver
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- NCP – Low Power Factor
- PC – Polycarbonate diffuser
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

POLLUX B LED1X1600 D236 T840



CABINET LED

Slim LED Batten with Opal Diffuser



- Type:** A range of slim LED battens with a plastic diffuser for fast continuous mounting installation.
- Specification:** Opal diffuser and end caps made of UV stabilized polycarbonate. White polycarbonate body with switch on/off button. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface luminaire designed to be fixed to ceiling and walls of any type. Effective solution for interconnecting a number of battens.
- Application:** Indoor. Ideal for furniture, retail, industrial and educational applications.



Luminaires can be connected into one continuous line without gaps and light shadows.



Supplied with start lead (10cm), interconnecting part and wall & ceiling mounting kit for easy installation. Switch on/off button mounted on the side of the body. Optional: 15 cm flexible connector and 70 cm power cable with plug available on request.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Cabinet LED1x640 B838 T830 OP | 573x22x30 | 30000 | 640 | 8 | 80+ | 3000 | 0,27 |
| Cabinet LED1x800 B839 T830 OP | 873x22x30 | 30000 | 800 | 10 | 80+ | 3000 | 0,42 |
| Cabinet LED1x1120 B840 T830 OP | 1173x22x30 | 30000 | 1120 | 14 | 80+ | 3000 | 0,51 |

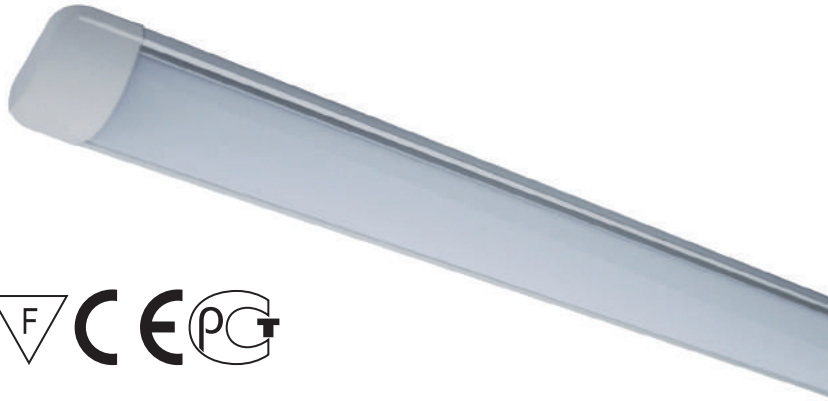
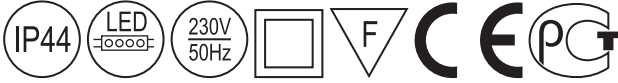
Cabinet LED flexible connector 15cm

Cabinet LED power cable 70cm with plug

* Tolerance range for optical and electrical data: ±10 %

CERS LED

Compact LED Batten with Opal Diffuser



Type: A range of compact LED battens with an opal diffuser for fast mounting installation.

Specification: Opal diffuser and end caps made of UV stabilized polycarbonate. Anodized aluminium body with IP44 protection degree. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling and walls of any type.

Application: Indoor. Warehouses, retail, industrial and educational applications.



Supplied with mounting brackets for easy installation.

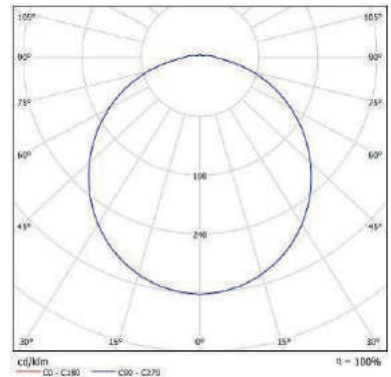
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Cers LED1x1700 C315 T840 OP | 610x75x23 | 30000 | 1620 | 18 | 80+ | 4000 | 0,30 |
| Cers LED1x3300 C316 T840 OP | 1210x75x23 | 30000 | 3240 | 36 | 80+ | 4000 | 0,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- T830 – Colour temperature 3000K (subject to min. order quantity)
- T840 – Colour temperature 4000K

CERS LED1X3300 C316 T840 OP



COMA

Front Mirror Luminaire with a Prismatic Diffuser



| | |
|-----------------------|--|
| Type: | A range of front mirror luminaires with a plastic diffuser. |
| Specification: | Prismatic diffuser made of PMMA. White aluminium body and thermoplastic end caps. Supplied with two sockets and switch on/off button mounted on the front side of the body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to walls of any type. |
| Application: | Indoor. Ideal for bathrooms, hotels, dressing rooms and other applications. |

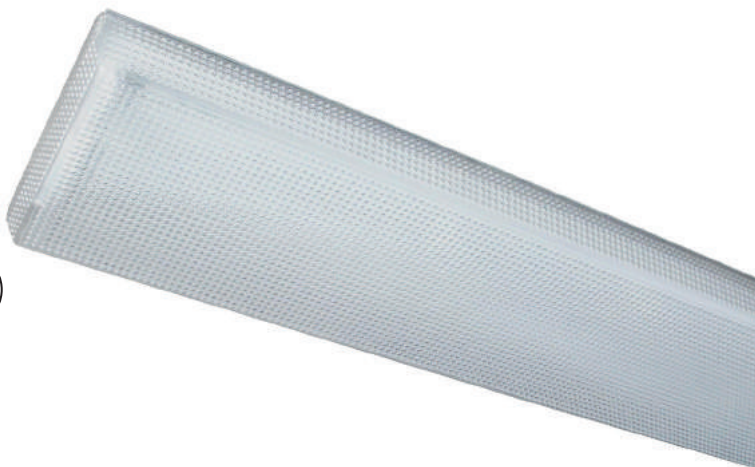
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------|---------------------|--------------------------------|------------|------------------|
| Coma 118 Q35 | 1x18 (G13) | 765x65x85 | 1,2 | 26 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring

EUROS

Surface Mounted Plastic Luminaire with Prismatic or Opal Diffuser



EUROS 236 H10 OP HF



EUROS 158 H11 OP HF



EUROS 158 H11 PRZ HF

Type: A range of surface luminaires with low modern profile, meeting the stringent requirements of educational establishments and healthcare applications.

Specification: Prismatic and Opal diffusers made of PMMA.
Gear tray in steel in white finish.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.



Version with an aluminium reflector inside can be made on request. See option list for detailed information (PAR).

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Euros 118 H07 | 1x18 (G13) | 665x110x65 | 1,2 | 26 |
| Euros 218 H08 | 2x18 (G13) | 665x195x65 | 1,7 | 42 |
| Euros 418 T09 | 4x18 (G13) | 665x665x65 | 4,5 | 84 |
| Euros 136 H09 | 1x36 (G13) | 1270x110x65 | 2 | 42 |
| Euros 236 H10 | 2x36 (G13) | 1270x195x65 | 3,3 | 84 |
| Euros 158 H11 | 1x58 (G13) | 1570x110x65 | 2,7 | 67 |
| Euros 258 H12 | 2x58 (G13) | 1570x195x65 | 4,5 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Euros 114 H13 | 1x14 (G5) | 665x110x65 | 0,9 | 16 |
| Euros 214 H14 | 2x14 (G5) | 665x195x65 | 1,3 | 31 |
| Euros 124 H15 | 1x24 (G5) | 665x110x65 | 0,9 | 25 |
| Euros 224 H16 | 2x24 (G5) | 665x195x65 | 1,3 | 49 |
| Euros 414 S15 | 4x14 (G5) | 665x665x65 | 3,8 | 62 |
| Euros 424 S16 | 4x24 (G5) | 665x665x65 | 3,9 | 98 |
| Euros 128 H17 | 1x28 (G5) | 1270x110x65 | 1,7 | 30 |
| Euros 228 H18 | 2x28 (G5) | 1270x195x65 | 2,4 | 60 |
| Euros 154 H23 | 1x54 (G5) | 1270x110x65 | 1,7 | 58 |
| Euros 254 H24 | 2x54 (G5) | 1270x195x65 | 2,4 | 116 |
| Euros 328 T12 | 3x28 (G5) | 1270x295x65 | 4,1 | 90 |
| Euros 354 T13 | 3x54 (G5) | 1270x295x65 | 4,1 | 174 |
| Euros 428 T14 | 4x28 (G5) | 1270x295x65 | 4,1 | 232 |
| Euros 135 H19 | 1x35 (G5) | 1570x110x65 | 2 | 38 |
| Euros 235 H20 | 2x35 (G5) | 1570x195x65 | 2,8 | 76 |
| Euros 149 H21 | 1x49 (G5) | 1570x110x65 | 2 | 53 |
| Euros 249 H22 | 2x49 (G5) | 1570x195x65 | 2,8 | 105 |
| Euros 180 H25 | 1x80 (G5) | 1570x110x65 | 2 | 85 |
| Euros 280 H26 | 2x80 (G5) | 1570x195x65 | 3,2 | 170 |

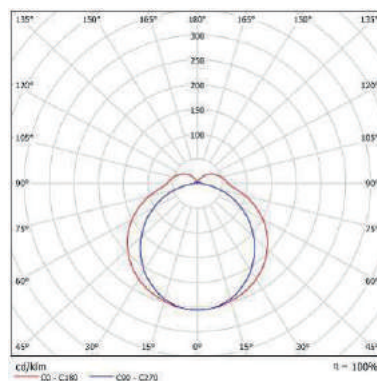
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Euros LED1x1200 E170 T840 OP | 665x110x65 | 50000 | 1123 | 12 | 80+ | 4000 | 1,20 |
| Euros LED1x1600 E171 T840 OP | 665x110x65 | 50000 | 1576 | 17 | 80+ | 4000 | 1,20 |
| Euros LED2x1200 E173 T840 OP | 665x195x65 | 50000 | 2246 | 23 | 80+ | 4000 | 1,50 |
| Euros LED2x1600 E174 T840 OP | 665x195x65 | 50000 | 3153 | 32 | 80+ | 4000 | 1,50 |
| Euros LED1x2300 E176 T840 OP | 1270x110x65 | 50000 | 2246 | 23 | 80+ | 4000 | 2,10 |
| Euros LED1x3200 E177 T840 OP | 1270x110x65 | 50000 | 3153 | 32 | 80+ | 4000 | 2,10 |
| Euros LED2x2300 E179 T840 OP | 1270x195x65 | 50000 | 4491 | 44 | 80+ | 4000 | 2,60 |
| Euros LED2x3200 E180 T840 OP | 1270x195x65 | 50000 | 6306 | 64 | 80+ | 4000 | 2,60 |
| Euros LED1x2900 E182 T840 OP | 1570x110x65 | 50000 | 2807 | 29 | 80+ | 4000 | 2,30 |
| Euros LED1x4000 E183 T840 OP | 1570x110x65 | 50000 | 3941 | 40 | 80+ | 4000 | 2,30 |
| Euros LED2x2900 E185 T840 OP | 1570x195x65 | 50000 | 5614 | 54 | 80+ | 4000 | 3,40 |
| Euros LED2x4000 E186 T840 OP | 1570x195x65 | 50000 | 7882 | 80 | 80+ | 4000 | 3,40 |
| Euros LED3x1200 D202 T840 OP | 665x665x65 | 50000 | 3368 | 33 | 80+ | 4000 | 4,00 |
| Euros LED3x1600 D203 T840 OP | 665x665x65 | 50000 | 4729 | 48 | 80+ | 4000 | 4,00 |
| Euros LED4x1200 D204 T840 OP | 665x665x65 | 50000 | 4491 | 44 | 80+ | 4000 | 4,00 |
| Euros LED4x1600 D205 T840 OP | 665x665x65 | 50000 | 6306 | 64 | 80+ | 4000 | 4,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- PRZ – Prismatic diffuser
- OP – Diffuser in opal execution
- SPORT – White painted protective grid
- IP44 – IP44 protection degree
- PAR – Aluminium reflector inside
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

EUROS LED2X3200 E180 T840 OP



CARINA

Surface Mounted Plastic Luminaire



CARINA 228 O56 OP



CARINA 128 O55 OP

Type: A range of surface luminaires with low modern profile.

Specification: Opal prismatic diffuser made of UV stabilized polycarbonate.
Gear tray in steel in white finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: Indoor. Ideal for common areas in hospitals, colleges and other similar institutions.



End cap can be fixed with screw-lock for maximum protection. See option list (SCREW).

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Carina 114 O51 OP | 1x14 (G5) | 595x90x85 | 0,9 | 16 |
| Carina 214 O52 OP | 2x14 (G5) | 595x150x60 | 1,3 | 31 |
| Carina 124 O53 OP | 1x24 (G5) | 595x90x85 | 0,9 | 25 |
| Carina 224 O54 OP | 2x24 (G5) | 595x150x60 | 1,3 | 49 |
| Carina 128 O55 OP | 1x28(G5) | 1195x90x85 | 1,7 | 30 |
| Carina 228 O56 OP | 2x28 (G5) | 1195x150x60 | 2,4 | 60 |
| Carina 154 O57 OP | 1x54(G5) | 1195x90x85 | 1,7 | 58 |
| Carina 254 O58 OP | 2x54 (G5) | 1195x150x60 | 2,4 | 116 |
| Carina 135 O59 OP | 1x35 (G5) | 1495x90x85 | 2 | 38 |
| Carina 235 O60 OP | 2x35 (G5) | 1495x150x60 | 2,8 | 76 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Carina 149 O61 OP | 1x49(G5) | 1495x90x85 | 2 | 53 |
| Carina 249 O62 OP | 2x49 (G5) | 1495x150x60 | 2,8 | 105 |
| Carina 180 O73 OP | 1x80 (G5) | 1495x90x85 | 2,1 | 85 |

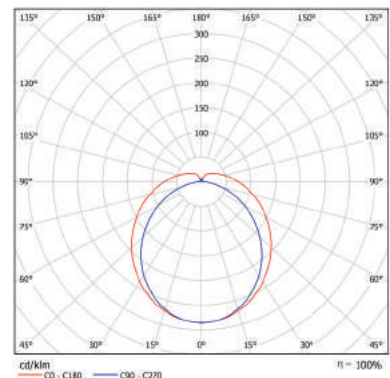
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Carina LED1x1200 E237 T840 OP | 595x90x85 | 50000 | 1155 | 11 | 80+ | 4000 | 1,20 |
| Carina LED1x1700 E238 T840 OP | 595x90x85 | 50000 | 1622 | 15 | 80+ | 4000 | 1,20 |
| Carina LED2x1200 E240 T840 OP | 595x150x60 | 50000 | 2310 | 21 | 80+ | 4000 | 1,80 |
| Carina LED2x1700 E241 T840 OP | 595x150x60 | 50000 | 3243 | 29 | 80+ | 4000 | 1,80 |
| Carina LED1x2500 E243 T840 OP | 1195x90x85 | 50000 | 2438 | 22 | 80+ | 4000 | 2,00 |
| Carina LED1x3500 E244 T840 OP | 1195x90x85 | 50000 | 3423 | 30 | 80+ | 4000 | 2,00 |
| Carina LED2x2500 E246 T840 OP | 1195x150x60 | 50000 | 4877 | 41 | 80+ | 4000 | 2,80 |
| Carina LED2x3500 E247 T840 OP | 1195x150x60 | 50000 | 6846 | 61 | 80+ | 4000 | 2,80 |
| Carina LED1x3100 E249 T840 OP | 1495x90x85 | 50000 | 3080 | 28 | 80+ | 4000 | 2,60 |
| Carina LED1x4400 E250 T840 OP | 1495x90x85 | 50000 | 4324 | 38 | 80+ | 4000 | 2,60 |
| Carina LED2x3100 E252 T840 OP | 1495x150x60 | 50000 | 6160 | 52 | 80+ | 4000 | 3,60 |
| Carina LED2x4400 E253 T840 OP | 1495x150x60 | 50000 | 8648 | 77 | 80+ | 4000 | 3,60 |
| Carina LED1x1200 E237 T840 OP LT70 | 595x90x85 | 50000 | 1011 | 11 | 80+ | 4000 | 1,20 |
| Carina LED1x1700 E238 T840 OP LT70 | 595x90x85 | 50000 | 1419 | 15 | 80+ | 4000 | 1,20 |
| Carina LED2x1200 E240 T840 OP LT70 | 595x150x60 | 50000 | 2022 | 21 | 80+ | 4000 | 1,80 |
| Carina LED2x1700 E241 T840 OP LT70 | 595x150x60 | 50000 | 2838 | 29 | 80+ | 4000 | 1,80 |
| Carina LED1x2500 E243 T840 OP LT70 | 1195x90x85 | 50000 | 2134 | 22 | 80+ | 4000 | 2,00 |
| Carina LED1x3500 E244 T840 OP LT70 | 1195x90x85 | 50000 | 2995 | 30 | 80+ | 4000 | 2,00 |
| Carina LED2x2500 E246 T840 OP LT70 | 1195x150x60 | 50000 | 4267 | 41 | 80+ | 4000 | 2,80 |
| Carina LED2x3500 E247 T840 OP LT70 | 1195x150x60 | 50000 | 5991 | 61 | 80+ | 4000 | 2,80 |
| Carina LED1x3100 E249 T840 OP LT70 | 1495x90x85 | 50000 | 2695 | 28 | 80+ | 4000 | 2,60 |
| Carina LED1x4400 E250 T840 OP LT70 | 1495x90x85 | 50000 | 3784 | 38 | 80+ | 4000 | 2,60 |
| Carina LED2x3100 E252 T840 OP LT70 | 1495x150x60 | 50000 | 5390 | 52 | 80+ | 4000 | 3,60 |
| Carina LED2x4400 E253 T840 OP LT70 | 1495x150x60 | 50000 | 7567 | 77 | 80+ | 4000 | 3,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- OP – Opalised diffuser
- OP LT70 – Opal diffuser with 70% light transmission
- PRZ – Prismatic diffuser
- SPORT – White painted protective grid
- IP44 – IP44 protection degree
- SCREW – End cap fixed with screw-lock
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CARINA LED1X3500 E244 T840 OP



DOCTOR

IP54 Surface Mounted Plastic Luminaire



Type: A range of surface fluorescent / LED luminaires with low modern profile for use in locations, where industrial solutions are aesthetically not acceptable.

Specification: Blown moulded PMMA diffuser in opal execution.
White powder coated steel body.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in humid or dusty rooms, restrooms, sanitary rooms, hospitals and other similar institutions.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Doctor 114 G81 OP | 1x14 (G5) | 665x110x65 | 0,9 | 16 |
| Doctor 214 G82 OP | 2x14 (G5) | 665x195x65 | 1,3 | 31 |
| Doctor 124 G83 OP | 1x24 (G5) | 665x110x65 | 0,9 | 25 |
| Doctor 224 G84 OP | 2x24 (G5) | 665x195x65 | 1,3 | 49 |
| Doctor 414 S18 OP | 4x14 (G5) | 665x665x65 | 3,8 | 62 |
| Doctor 424 S19 OP | 4x24 (G5) | 665x665x65 | 3,9 | 98 |
| Doctor 128 G85 OP | 1x28 (G5) | 1270x110x65 | 1,7 | 30 |
| Doctor 228 G86 OP | 2x28 (G5) | 1270x195x65 | 2,4 | 60 |
| Doctor 154 G91 OP | 1x54 (G5) | 1270x110x65 | 1,7 | 58 |
| Doctor 254 G92 OP | 2x54 (G5) | 1270x195x65 | 2,4 | 116 |
| Doctor 135 G87 OP | 1x35 (G5) | 1570x110x65 | 2 | 38 |
| Doctor 235 G88 OP | 2x35 (G5) | 1570x195x65 | 2,8 | 76 |
| Doctor 149 G89 OP | 1x49 (G5) | 1570x110x65 | 2 | 53 |
| Doctor 249 G90 OP | 2x49 (G5) | 1570x195x65 | 2,8 | 105 |
| Doctor 180 G93 OP | 1x80 (G5) | 1570x110x65 | 2 | 85 |
| Doctor 280 G94 OP | 2x80 (G5) | 1570x195x65 | 3,2 | 170 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Doctor 118 G79 OP | 1x18 (G13) | 665x110x65 | 1,2 | 26 |
| Doctor 218 G02 OP | 2x18 (G13) | 665x195x65 | 1,7 | 42 |
| Doctor 418 T15 OP | 4x18 (G13) | 665x665x65 | 4,5 | 84 |
| Doctor 136 G52 OP | 1x36 (G13) | 1270x110x65 | 2 | 42 |
| Doctor 236 G03 OP | 2x36 (G13) | 1270x195x65 | 3,3 | 84 |
| Doctor 158 G80 OP | 1x58 (G13) | 1570x110x65 | 2,7 | 67 |
| Doctor 258 G04 OP | 2x58 (G13) | 1570x195x65 | 4,5 | 134 |

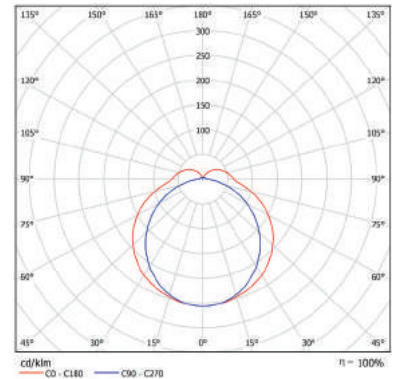
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Doctor LED1x1200 D208 T840 OP | 665x110x65 | 50000 | 1123 | 12 | 80+ | 4000 | 1,20 |
| Doctor LED1x1600 D209 T840 OP | 665x110x65 | 50000 | 1576 | 17 | 80+ | 4000 | 1,20 |
| Doctor LED2x1200 D210 T840 OP | 665x195x65 | 50000 | 2246 | 23 | 80+ | 4000 | 1,50 |
| Doctor LED2x1600 D211 T840 OP | 665x195x65 | 50000 | 3153 | 32 | 80+ | 4000 | 1,50 |
| Doctor LED1x2300 D212 T840 OP | 1270x110x65 | 50000 | 2246 | 23 | 80+ | 4000 | 2,10 |
| Doctor LED1x3200 D213 T840 OP | 1270x110x65 | 50000 | 3153 | 32 | 80+ | 4000 | 2,10 |
| Doctor LED2x2300 D214 T840 OP | 1270x195x65 | 50000 | 4491 | 44 | 80+ | 4000 | 2,60 |
| Doctor LED2x3200 D215 T840 OP | 1270x195x65 | 50000 | 6306 | 64 | 80+ | 4000 | 2,60 |
| Doctor LED1x2900 D216 T840 OP | 1570x110x65 | 50000 | 2807 | 29 | 80+ | 4000 | 2,30 |
| Doctor LED1x4000 D217 T840 OP | 1570x110x65 | 50000 | 3941 | 40 | 80+ | 4000 | 2,30 |
| Doctor LED2x2900 D218 T840 OP | 1570x195x65 | 50000 | 5614 | 54 | 80+ | 4000 | 3,40 |
| Doctor LED2x4000 D219 T840 OP | 1570x195x65 | 50000 | 7882 | 80 | 80+ | 4000 | 3,40 |
| Doctor LED3x1200 D220 T840 OP | 665x665x65 | 50000 | 3368 | 33 | 80+ | 4000 | 4,00 |
| Doctor LED3x1600 D221 T840 OP | 665x665x65 | 50000 | 4729 | 48 | 80+ | 4000 | 4,00 |
| Doctor LED4x1200 D222 T840 OP | 665x665x65 | 50000 | 4491 | 44 | 80+ | 4000 | 4,00 |
| Doctor LED4x1600 D223 T840 OP | 665x665x65 | 50000 | 6306 | 64 | 80+ | 4000 | 4,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- PRZ – Prismatic diffuser
- OP – Diffuser in opal execution
- SPORT – White painted protective grid
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

DOCTOR LED2X3200 D215 T840 OP



DOCTOR P LED



IP54 Surface Mounted Plastic Luminaire



CE EAC

Type: A range of surface LED luminaires with modern profile, for use in humid locations, where industrial solutions are aesthetically not acceptable.

Specification: UV stable PC diffuser in opal execution.
Injection moulded polycarbonate canopy, white finished.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: Indoor. Ideal for common areas in humid or dusty rooms, bathrooms, hospitals and other similar institutions.

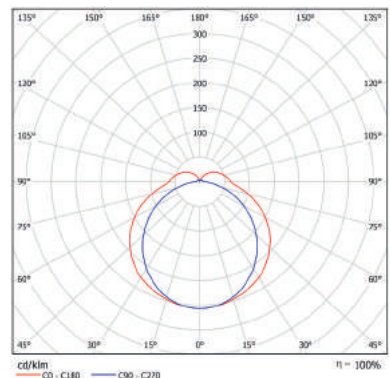
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Doctor P LED1x2500 D408 T840 OP LT80 | 1160x110x85 | 50000 | 2499 | 22 | 80+ | 4000 | 1,90 |
| Doctor P LED1x3600 D409 T840 OP LT80 | 1160x110x85 | 50000 | 3509 | 30 | 80+ | 4000 | 1,90 |
| Doctor P LED2x2500 D200 T840 OP LT80 | 1160x160x85 | 50000 | 4999 | 41 | 80+ | 4000 | 2,60 |
| Doctor P LED2x3600 D201 T840 OP LT80 | 1160x160x85 | 50000 | 7018 | 61 | 80+ | 4000 | 2,60 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- OP – Diffuser in opal execution
- SPORT – White painted protective grid
- MW – MW sensor
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

DOCTOR P LED2x2500 D200 T840 OP LT80



NORTHCLIFFE
MAKING LIFE BRIGHTER

WATERPROOF AND CLEANROOM LUMINAIRES

www.northcliffe.org

PALI

IP66 for Aggressive Environment



PALI LED1X2700 E125 T840 OP LT80 PMMA



PALI LED1X2700 E125 T840 OP LT80 PMMA IC

- Type:** Water and dust resistant IP66 luminaire for exposure to severe atmospheric conditions.
- Specification:** Luminaires are available with injection moulded acrylic or polycarbonate diffuser. White painted steel reflector.
Glass fiber reinforced canopy, light grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface luminaire designed to be fixed to ceiling of any type or suspended. Two fixing brackets for easy installation and accessories for chain and wire suspension available on request.
- Application:** Indoor. Dust and moisture proof luminaires, ideal for environments subject to high humidity and excessive dust. acrylic version suits well food processing areas and other aggressive atmospheres with salts, acids and mineral oils.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Pali LED1x1400 E119 T840 OP LT80 PMMA | 669x90x95 | 50000 | 1331 | 12 | 80+ | 4000 | 1,20 |
| Pali LED1x1900 D410 T840 OP LT80 PMMA | 669x90x95 | 50000 | 1869 | 17 | 80+ | 4000 | 1,20 |
| Pali LED1x2000 E120 T840 OP LT80 PMMA | 669x90x95 | 50000 | 1927 | 16 | 80+ | 4000 | 1,20 |
| Pali LED1x2700 E121 T840 OP LT80 PMMA | 669x90x95 | 50000 | 2673 | 23 | 80+ | 4000 | 1,20 |
| Pali LED2x1400 E122 T840 OP LT80 PMMA | 669x116x99 | 50000 | 2663 | 23 | 80+ | 4000 | 1,80 |
| Pali LED2x1900 D411 T840 OP LT80 PMMA | 669x116x99 | 50000 | 3738 | 32 | 80+ | 4000 | 1,80 |
| Pali LED2x2000 E123 T840 OP LT80 PMMA | 669x116x99 | 50000 | 3855 | 30 | 80+ | 4000 | 1,80 |
| Pali LED1x2700 E125 T840 OP LT80 PMMA | 1277x90x95 | 50000 | 2663 | 23 | 80+ | 4000 | 1,90 |
| Pali LED1x3800 D412 T840 OP LT80 PMMA | 1277x90x95 | 50000 | 3738 | 32 | 80+ | 4000 | 1,90 |
| Pali LED1x3900 E126 T840 OP LT80 PMMA | 1277x90x95 | 50000 | 3855 | 30 | 80+ | 4000 | 1,90 |
| Pali LED1x5400 E127 T840 OP LT80 PMMA | 1277x90x95 | 50000 | 5345 | 44 | 80+ | 4000 | 1,90 |
| Pali LED2x2700 E128 T840 OP LT80 PMMA | 1277x116x99 | 50000 | 5325 | 44 | 80+ | 4000 | 2,80 |
| Pali LED2x3800 D413 T840 OP LT80 PMMA | 1277x116x99 | 50000 | 7477 | 64 | 80+ | 4000 | 2,80 |
| Pali LED2x3900 E129 T840 OP LT80 PMMA | 1277x116x99 | 50000 | 7709 | 60 | 80+ | 4000 | 2,80 |
| Pali LED1x3400 E131 T840 OP LT80 PMMA | 1577x90x95 | 50000 | 3328 | 28 | 80+ | 4000 | 2,50 |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Pali LED1x4700 D414 T840 OP LT80 PMMA | 1577x90x95 | 50000 | 4673 | 40 | 80+ | 4000 | 2,50 |
| Pali LED1x4900 E132 T840 OP LT80 PMMA | 1577x90x95 | 50000 | 4818 | 38 | 80+ | 4000 | 2,50 |
| Pali LED1x6700 E133 T840 OP LT80 PMMA | 1577x90x95 | 50000 | 6682 | 54 | 80+ | 4000 | 2,50 |
| Pali LED2x3400 E134 T840 OP LT80 PMMA | 1577x116x99 | 50000 | 6657 | 54 | 80+ | 4000 | 3,00 |
| Pali LED2x4700 D415 T840 OP LT80 PMMA | 1577x116x99 | 50000 | 9346 | 80 | 80+ | 4000 | 3,00 |
| Pali LED2x4900 E135 T840 OP LT80 PMMA | 1577x116x99 | 50000 | 9636 | 76 | 80+ | 4000 | 3,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Pali LED1x1400 E119 T840 OP LT80 PC | 669x90x95 | 50000 | 1251 | 12 | 80+ | 4000 | 1,20 |
| Pali LED1x1900 D410 T840 OP LT80 PC | 669x90x95 | 50000 | 1757 | 17 | 80+ | 4000 | 1,20 |
| Pali LED1x2000 E120 T840 OP LT80 PC | 669x90x95 | 50000 | 1811 | 16 | 80+ | 4000 | 1,20 |
| Pali LED1x2700 E121 T840 OP LT80 PC | 669x90x95 | 50000 | 2512 | 23 | 80+ | 4000 | 1,20 |
| Pali LED1x2700 E125 T840 OP LT80 PC | 1277x90x95 | 50000 | 2502 | 23 | 80+ | 4000 | 1,90 |
| Pali LED1x3800 D412 T840 OP LT80 PC | 1277x90x95 | 50000 | 3513 | 32 | 80+ | 4000 | 1,90 |
| Pali LED1x3900 E126 T840 OP LT80 PC | 1277x90x95 | 50000 | 3622 | 30 | 80+ | 4000 | 1,90 |
| Pali LED1x5400 E127 T840 OP LT80 PC | 1277x90x95 | 50000 | 5023 | 44 | 80+ | 4000 | 1,90 |
| Pali LED1x3400 E131 T840 OP LT80 PC | 1577x90x95 | 50000 | 3128 | 28 | 80+ | 4000 | 2,50 |
| Pali LED1x4700 D414 T840 OP LT80 PC | 1577x90x95 | 50000 | 4391 | 40 | 80+ | 4000 | 2,50 |
| Pali LED1x4900 E132 T840 OP LT80 PC | 1577x90x95 | 50000 | 4528 | 38 | 80+ | 4000 | 2,50 |
| Pali LED1x6700 E133 T840 OP LT80 PC | 1577x90x95 | 50000 | 6279 | 54 | 80+ | 4000 | 2,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

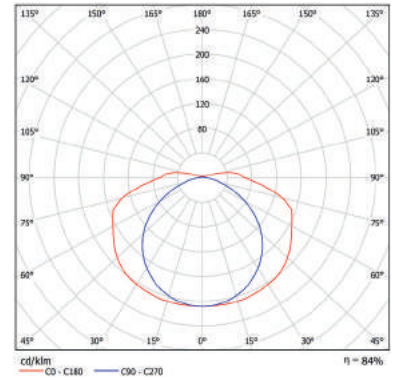
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Pali 118 Q66 PMMA | 1x18 (G13) | 669x90x95 | 1,9 | 26 |
| Pali 218 Q67 PMMA | 2x18 (G13) | 669x116x99 | 2,2 | 42 |
| Pali 136 Q68 PMMA | 1x36 (G13) | 1277x90x95 | 2,4 | 42 |
| Pali 236 Q69 PMMA | 2x36 (G13) | 1277x 116x99 | 3,3 | 84 |
| Pali 158 Q70 PMMA | 1x58 (G13) | 1577x 90x95 | 3,1 | 67 |
| Pali 258 Q71 PMMA | 2x58 (G13) | 1577x116x99 | 4,5 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Pali 114 Q52 PMMA | 1x14 (G5) | 669x 90x95 | 1,7 | 16 |
| Pali 214 Q53 PMMA | 2x14 (G5) | 669x 116x99 | 2,2 | 31 |
| Pali 124 Q54 PMMA | 1x24 (G5) | 669x 90x95 | 1,7 | 25 |
| Pali 224 Q55 PMMA | 2x24 (G5) | 669x 116x99 | 2,2 | 49 |
| Pali 128 Q56 PMMA | 1x28 (G5) | 1277x 90x95 | 2,1 | 30 |
| Pali 228 Q57 PMMA | 2x28 (G5) | 1277x 116x99 | 2,5 | 60 |
| Pali 154 Q62 PMMA | 1x54 (G5) | 1277x 90x95 | 2,1 | 58 |
| Pali 254 Q63 PMMA | 2x54 (G5) | 1277x 116x99 | 2,5 | 116 |
| Pali 135 Q58 PMMA | 1x35 (G5) | 1577x 90x95 | 2,3 | 38 |
| Pali 235 Q59 PMMA | 2x35 (G5) | 1577x 116x99 | 2,8 | 75 |
| Pali 149 Q60 PMMA | 1x49 (G5) | 1577x 90x95 | 2,3 | 53 |
| Pali 249 Q61 PMMA | 2x49 (G5) | 1577x 116x99 | 2,8 | 104 |
| Pali 180 Q64 PMMA | 1x80 (G5) | 1577x 90x95 | 2,3 | 85 |
| Pali 280 Q65 PMMA | 2x80 (G5) | 1577x 116x99 | 2,9 | 170 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- OP LT80 – Opal diffuser with high light transmission
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MW – MW sensor
- PMMA – Diffuser made of acrylic plastic
- PC – Diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- PAR – Specular aluminium parabolic reflector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

PALI 249 Q61 PMMA



BARAT LED

IP66 for High Impact
Resistance with
Opalised Diffuser



Barat LED2x3900 E011 T840
PC/PC OP LT80 IC



Barat LED1x6700 E015 T840
PC/PC OP LT80



Barat LED1x6700 E015 T840
PC/PC OP LT80 IC

Type: Dust and moisture proof IP66 LED fixture for high impact resistance.

Specification: Opal UV stabilized IK08 polycarbonate diffuser. White powder coated gear tray. Injection moulded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended.

Application: Indoor. Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many other commercial applications.



Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.



Diffuser retaining clips made of stainless steel available on request. See option list:
IC – Stainless steel clips

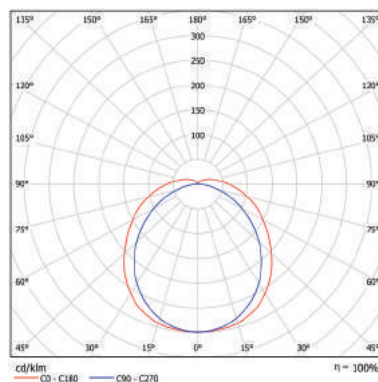
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Barat LED1x1400 E001 T840 PC/PC OP LT80 | 662x96x111 | 50000 | 1379 | 12 | 80+ | 4000 | 1,30 |
| Barat LED1x1900 D416 T840 PC/PC OP LT80 | 662x96x111 | 50000 | 1937 | 17 | 80+ | 4000 | 1,30 |
| Barat LED1x2000 E002 T840 PC/PC OP LT80 | 662x96x111 | 50000 | 1997 | 16 | 80+ | 4000 | 1,30 |
| Barat LED1x2700 E003 T840 PC/PC OP LT80 | 662x96x111 | 50000 | 2769 | 23 | 80+ | 4000 | 1,30 |
| Barat LED2x1400 E004 T840 PC/PC OP LT80 | 662x146x111 | 50000 | 2759 | 23 | 80+ | 4000 | 1,80 |
| Barat LED2x1900 D417 T840 PC/PC OP LT80 | 662x146x111 | 50000 | 3873 | 32 | 80+ | 4000 | 1,80 |
| Barat LED2x2000 E005 T840 PC/PC OP LT80 | 662x146x111 | 50000 | 3994 | 30 | 80+ | 4000 | 1,80 |
| Barat LED1x2700 E007 T840 PC/PC OP LT80 | 1272x96x111 | 50000 | 2759 | 23 | 80+ | 4000 | 2,10 |
| Barat LED1x3700 D418 T840 PC/PC OP LT80 | 1272x96x111 | 50000 | 3873 | 32 | 80+ | 4000 | 2,10 |
| Barat LED1x3900 E008 T840 PC/PC OP LT80 | 1272x96x111 | 50000 | 3994 | 30 | 80+ | 4000 | 2,10 |
| Barat LED1x5300 E009 T840 PC/PC OP LT80 | 1272x96x111 | 50000 | 5538 | 44 | 80+ | 4000 | 2,10 |
| Barat LED2x2700 E010 T840 PC/PC OP LT80 | 1272x146x111 | 50000 | 5518 | 44 | 80+ | 4000 | 2,80 |
| Barat LED2x3700 D419 T840 PC/PC OP LT80 | 1272x146x111 | 50000 | 7747 | 64 | 80+ | 4000 | 2,80 |
| Barat LED2x3900 E011 T840 PC/PC OP LT80 | 1272x146x111 | 50000 | 7988 | 60 | 80+ | 4000 | 2,80 |
| Barat LED1x3300 E013 T840 PC/PC OP LT80 | 1572x96x111 | 50000 | 3449 | 28 | 80+ | 4000 | 2,60 |
| Barat LED1x4700 D420 T840 PC/PC OP LT80 | 1572x96x111 | 50000 | 4842 | 40 | 80+ | 4000 | 2,60 |
| Barat LED1x4800 E014 T840 PC/PC OP LT80 | 1572x96x111 | 50000 | 4992 | 38 | 80+ | 4000 | 2,60 |
| Barat LED1x6700 E015 T840 PC/PC OP LT80 | 1572x96x111 | 50000 | 6923 | 54 | 80+ | 4000 | 2,60 |
| Barat LED2x3300 E016 T840 PC/PC OP LT80 | 1572x146x111 | 50000 | 6897 | 54 | 80+ | 4000 | 3,30 |
| Barat LED2x4700 D421 T840 PC/PC OP LT80 | 1572x146x111 | 50000 | 9684 | 80 | 80+ | 4000 | 3,30 |
| Barat LED2x4800 E017 T840 PC/PC OP LT80 | 1572x146x111 | 50000 | 9985 | 76 | 80+ | 4000 | 3,30 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

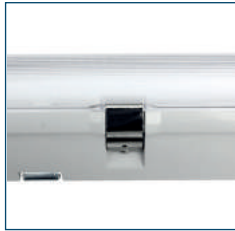
- DALI – DALI driver
- SDIM – Switch-control/dimming
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- OP LT80 – Frosted UV stabilized polycarbonate diffuser
- 5TB – 5 way terminal block for easy wiring
- MW – MW sensor
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BARAT LED1X5300 E009 T840 PC/PC OP LT80



BARAT T8/T5

IP66 for Humid&Dusty
Rooms



BARAT 136 I16 ABS/PMMA IC

Type: Dust and moisture proof IP66 fixture for humid&dusty rooms.

Specification: Luminaires are available with injection moulded UV stabilized PMMA diffuser. White powder coated gear tray.
Injection moulded thermoplastic canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance.
Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Application: Indoor. Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many others commercial applications.



Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.



Through wired version for 1 or 3 phase connection available on request. See option list (1LIN, 3LIN, 1LIN2,5 or 3LIN2,5).

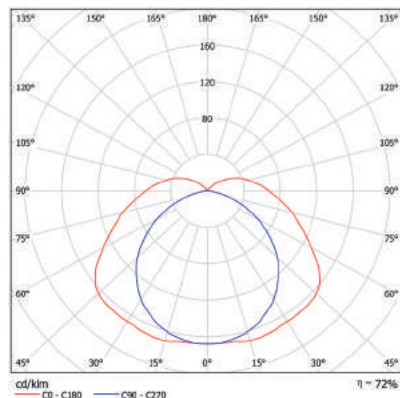
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 118 I14 ABS/PMMA | 1x18 (G13) | 662x96x111 | 1,5 | 26 |
| Barat 218 I15 ABS/PMMA | 2x18 (G13) | 146x662x111 | 1,9 | 42 |
| Barat 136 I16 ABS/PMMA | 1x36 (G13) | 1272x96x111 | 2,2 | 42 |
| Barat 236 I17 ABS/PMMA | 2x36 (G13) | 1272x146x111 | 3,3 | 84 |
| Barat 158 I18 ABS/PMMA | 1x58 (G13) | 1572x96x111 | 2,9 | 67 |
| Barat 258 I19 ABS/PMMA | 2x58 (G13) | 1572x146x111 | 4,3 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 114 I97 ABS/PMMA | 1x14 (G5) | 662x96x111 | 1 | 16 |
| Barat 214 I98 ABS/PMMA | 2x14 (G5) | 662x146x111 | 1,3 | 31 |
| Barat 124 I99 ABS/PMMA | 1x24 (G5) | 662x96x111 | 1 | 25 |
| Barat 224 F01 ABS/PMMA | 2x24 (G5) | 662x146x111 | 1,3 | 49 |
| Barat 128 I66 ABS/PMMA | 1x28 (G5) | 1272x96x111 | 1,9 | 30 |
| Barat 228 I67 ABS/PMMA | 2x28 (G5) | 1272x146x111 | 2,2 | 60 |
| Barat 154 I73 ABS/PMMA | 1x54 (G5) | 1272x96x111 | 1,9 | 58 |
| Barat 254 I74 ABS/PMMA | 2x54 (G5) | 1272x146x111 | 2,2 | 116 |
| Barat 135 I68 ABS/PMMA | 1x35 (G5) | 1572x96x111 | 2,1 | 38 |
| Barat 235 I69 ABS/PMMA | 2x35 (G5) | 1572x146x111 | 2,7 | 75 |
| Barat 149 I70 ABS/PMMA | 1x49 (G5) | 1572x96x111 | 2,1 | 53 |
| Barat 249 I71 ABS/PMMA | 2x49 (G5) | 1572x146x111 | 2,7 | 104 |
| Barat 180 I75 ABS/PMMA | 1x80 (G5) | 1572x96x111 | 2,1 | 85 |
| Barat 280 I76 ABS/PMMA | 2x80 (G5) | 1572x146x111 | 2,8 | 170 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- ABS/PMMA – Body made of acrylonitrile butadiene styrene and diffuser of acrylic
- ABS/PC – Body made of acrylonitrile butadiene styrene and diffuser of polycarbonate plastic
- PC/PMMA – Body made of polycarbonate plastic and diffuser of acrylic
- PC/PC – Body and diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- AS – Asymmetric aluminium reflector
- MW – MW sensor

BARAT 258 I19 ABS/PMMA HF



BARAT

T8/T5

IP66 for High Impact Resistance



Type: Dust and moisture proof IP66 fixture for high impact resistance.

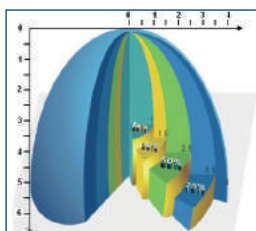
Specification: Luminaires are available with injection moulded UV stabilized IK08 polycarbonate diffuser. White powder coated gear tray. This version is in compliance with Glow wire 850°C requirements. Injection moulded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Application: Indoor. Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many others commercial applications.



White powder coated protective grid available on request. See option list (**SPORT**).



T5 BARAT series can be equipped with MW sensor for energy saving solutions. See option list (**MW**).

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Barat 118 I14 PC/PC | 1x18 (G13) | 662x96x111 | 1,5 | 26 |
| Barat 218 I15 PC/PC | 2x18 (G13) | 662x146x111 | 1,9 | 42 |
| Barat 136 I16 PC/PC | 1x36 (G13) | 1272x96x111 | 2,2 | 42 |
| Barat 236 I17 PC/PC | 2x36 (G13) | 1272x146x111 | 3,3 | 84 |
| Barat 158 I18 PC/PC | 1x58 (G13) | 1572x96x111 | 2,9 | 67 |
| Barat 258 I19 PC/PC | 2x58 (G13) | 1572x146x111 | 4,3 | 134 |



Asymmetric reflector made of specular aluminium, can be installed in both single and double tube versions. See option list (AS).

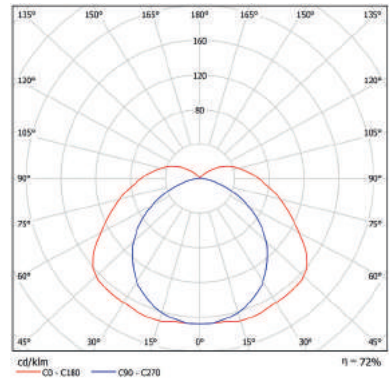


Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Options available on request:

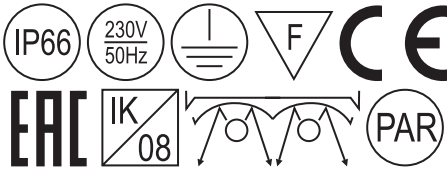
- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- PC/PC – Body and diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- AS – Asymmetric aluminium reflector
- MW – MW sensor
- SPORT – White painted protective grid

BARAT 236 I17 PC/PC HF



BARAT PAR

IP66 for High Mounting Applications



BARAT 249 I71 PC/PC PAR



BARAT 236 I17 PC/PMMA PAR IC



BARAT 236 I17 PC/PMMA PAR IC

- Type:** Dust and moisture proof IP66 fixture for high mounting applications. High performance.
- Specification:** Luminaires are available with injection moulded UV stabilized IK08 polycarbonate (or IK03 PMMA) diffuser for high impact resistance. Specular aluminium parabolic reflector. Injection moulded polycarbonate or thermoplastic canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.
- Application:** Indoor. Dust and moisture proof luminaire, ideal for installations higher than 5 meters. For use in factories, warehouses, garages, halls and many others commercial applications.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 136 I16 ABS/PMMA PAR | 1x36 (G13) | 1272x96x111 | 2,6 | 42 |
| Barat 236 I17 ABS/PMMA PAR | 2x36 (G13) | 1272x146x111 | 3,9 | 84 |
| Barat 158 I18 ABS/PMMA PAR | 1x58 (G13) | 1572x96x111 | 3,3 | 67 |
| Barat 258 I19 ABS/PMMA PAR | 2x58 (G13) | 1572x146x111 | 5,1 | 134 |
| Barat 136 I16 PC/PC PAR | 1x36 (G13) | 1272x96x111 | 2,6 | 42 |
| Barat 236 I17 PC/PC PAR | 2x36 (G13) | 1272x146x111 | 3,9 | 84 |
| Barat 158 I18 PC/PC PAR | 1x58 (G13) | 1572x96x111 | 3,3 | 67 |
| Barat 258 I19 PC/PC PAR | 2x58 (G13) | 1572x146x111 | 5,1 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 128 I66 PC/PC PAR | 1x28 (G5) | 1272x96x111 | 2 | 30 |
| Barat 228 I67 PC/PC PAR | 2x28 (G5) | 1272x146x111 | 2,9 | 60 |
| Barat 154 I73 PC/PC PAR | 1x54 (G5) | 1272x96x111 | 2 | 58 |
| Barat 254 I74 PC/PC PAR | 2x54 (G5) | 1272x146x111 | 2,9 | 116 |
| Barat 135 I68 PC/PC PAR | 1x35 (G5) | 1572x96x111 | 2,5 | 38 |
| Barat 235 I69 PC/PC PAR | 2x35 (G5) | 1572x146x111 | 3,9 | 75 |
| Barat 149 I70 PC/PC PAR | 1x49 (G5) | 1572x96x111 | 2,5 | 53 |
| Barat 249 I71 PC/PC PAR | 2x49 (G5) | 1572x146x111 | 3,9 | 104 |
| Barat 180 I75 PC/PC PAR | 1x80 (G5) | 1572x96x111 | 2,6 | 85 |
| Barat 280 I76 PC/PC PAR | 2x80 (G5) | 1572x146x111 | 4 | 170 |

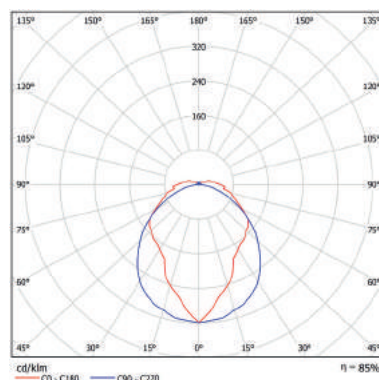


Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- Electric shock protection class II
- MW – MW sensor
- PC/PMMA – Body made of polycarbonate plastic and diffuser of acrylic
- PC/PC – Body and diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- AS – Asymmetric aluminium reflector
- PAR – Specular aluminium parabolic reflector

BARAT 249 I71 PC/PC PAR



NORD LED

tmax -40 to+50°C IP66 for
Extreme Temperature
Applications



- Type:** Water and dust resistant IP66 luminaire for use in extreme temperature environments.
- Specification:** Opal UV stabilized IK08 polycarbonate diffuser. White painted steel reflector. Stainless steel clips. Injection moulded thermoplastic canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.
- Application:** Indoor. Dust and moisture proof Luminaires, ideal for extreme ambient temperatures from -40°C up to + 50°C.



Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

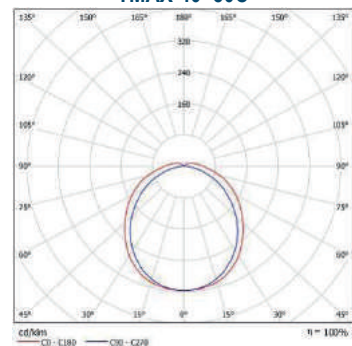
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Nord LED2x2700 E112 T840 OP PC IC tmax-40+50C | 1272x146x111 | 100000 | 5261 | 44 | 80+ | 4000 | 2,90 |
| Nord LED2x3300 E118 T840 OP PC IC tmax-40+50C | 1572x146x111 | 100000 | 6576 | 54 | 80+ | 4000 | 3,40 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

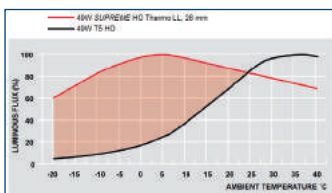
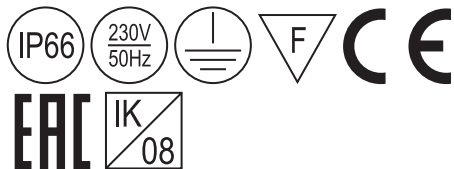
- IC – Stainless steel clips
- tmax-40+50C – For use in temperatures from -40°C up to + 50°C
- 5TB – 5 way terminal block for loop feed and ease of wiring
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

NORD LED2X3300 E118 T840 PC OP IC TMAX-40+50C



NORD TMIN-40 °C

IP66 for Low Temperature Applications



The special thermally insulated lamps should be used to obtain reliable operation in ambient temperatures -30°C to $+25^{\circ}\text{C}$ and reach up to five times more light than standard lamps under the same ambient temperature conditions. The unique construction with the outer glass tube provides a thermal insulation which results in excellent light output at low temperature.

Type: Water and dust resistant IP 66 luminaire with PC diffuser for use in cold stores and other low temperature environments.

Specification: Luminaires are available with injection moulded UV stabilized IK08 polycarbonate diffuser for high impact resistance. White painted steel reflector. Stainless steel clips. Injection moulded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Application: Indoor. Dust and moisture proof luminaires, ideal for low ambient temperatures down to -40°C .

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Nord 118 J43 IC tmin-40 | 1x18 (G13) | 667x96x111 | 1,5 | 26 |
| Nord 218 J44 IC tmin-40 | 2x18 (G13) | 667x146x111 | 2,2 | 42 |
| Nord 136 I82 IC tmin-40 | 1x36 (G13) | 1277x96x111 | 2,8 | 42 |
| Nord 236 I83 IC tmin-40 | 2x36 (G13) | 1277x146x111 | 3,6 | 84 |
| Nord 158 I84 IC tmin-40 | 1x58 (G13) | 1577x96x111 | 3,5 | 67 |
| Nord 258 I85 IC tmin-40 | 2x58 (G13) | 1577x146x111 | 4,6 | 134 |
| Nord 118 J43 HF IC tmin-25 | 1x18 (G13) | 667x96x111 | 1 | 19 |
| Nord 218 J44 HF IC tmin-25 | 2x18 (G13) | 667x146x111 | 1,7 | 36 |
| Nord 136 I82 HF IC tmin-25 | 1x36 (G13) | 1277x96x111 | 1,8 | 36 |
| Nord 236 I83 HF IC tmin-25 | 2x36 (G13) | 1277x146x111 | 2,7 | 70 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Nord 158 I84 HF IC tmin-25 | 1x58 (G13) | 1577x96x111 | 2,3 | 56 |
| Nord 258 I85 HF IC tmin-25 | 2x58 (G13) | 1577x146x111 | 3,7 | 108 |

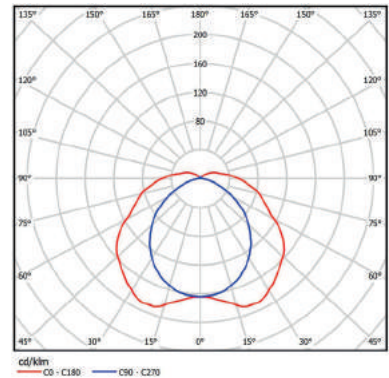
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Nord 136 I82 HF IC tmin-30 | 1x36 (G13) | 1277x96x111 | 1,9 | 36 |
| Nord 236 I83 HF IC tmin-30 | 2x36 (G13) | 1277x146x111 | 2,8 | 70 |
| Nord 158 I84 HF IC tmin-30 | 1x58 (G13) | 1577x96x111 | 2,4 | 56 |
| Nord 258 I85 HF IC tmin-30 | 2x58 (G13) | 1577x146x111 | 3,8 | 108 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Nord 154 I88 IC tmin-30 | 1x54 (G5) | 1277x96x111 | 2,2 | 58 |
| Nord 254 I89 IC tmin-30 | 2x54 (G5) | 1277x146x111 | 2,8 | 116 |
| Nord 149 I86 IC tmin-30 | 1x49 (G5) | 1577x96x111 | 3,1 | 53 |
| Nord 249 I87 IC tmin-30 | 2x49 (G5) | 1577x146x111 | 3,5 | 104 |
| Nord 180 I90 IC tmin-30 | 1x80 (G5) | 1577x96x111 | 3,1 | 85 |
| Nord 280 I91 IC tmin-30 | 2x80 (G5) | 1577x146x111 | 3,5 | 170 |

Options available on request:

- HF – High Frequency control gear
- IC – Stainless steel clips
- tmin-25 – For use in temperatures down to -25°C
- tmin-30 – For use in temperatures down to -30°C
- tmin-40 – For use in temperatures down to -40°C
- EMG tmin-25 – Emergency version 1 hour for use down to -25°C (except T5 49, 54, 80W)
- EM2 tmin-25 – Emergency version 2 hours for use down to -25°C (except T5 49, 54, 80W)
- 5TB – 5 way terminal block for loop feed and ease of wiring
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals

NORD 236 I83 HF IC TMIN-30



Emergency versions for use in cold stores and other low temperature environments.

One-hour or two-hour standby operation with a recharge time of 24 hours.
Ambient temperature: -25°C to +40°C.

NORD TMAX

+60°C

IP66 for High Temperature Applications



| | |
|-----------------------|---|
| Type: | Water and dust resistant IP 66 luminaire for use in higher temperature environments. |
| Specification: | Luminaires are available with injection moulded UV stabilized IK08 polycarbonate diffuser for high impact resistance. White painted steel reflector. Stainless steel clips. Injection moulded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | Indoor. Dust and moisture proof Luminaires, ideal for higher ambient temperatures upto + 60°C. |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Nord 118 J43 IC tmax60 | 1x18 (G13) | 667x96x111 | 1,5 | 26 |
| Nord 218 J44 IC tmax60 | 2x18 (G13) | 667x146x111 | 2,2 | 42 |
| Nord 136 I82 IC tmax60 | 1x36 (G13) | 1277x96x111 | 2,8 | 42 |
| Nord 236 I83 IC tmax60 | 2x36 (G13) | 1277x146x111 | 3,6 | 84 |
| Nord 158 I84 IC tmax60 | 1x58 (G13) | 1577x96x111 | 3,5 | 67 |
| Nord 258 I85 IC tmax60 | 2x58 (G13) | 1577x146x111 | 4,6 | 134 |

Options available on request:

| | | |
|---------|---|---|
| IC | - | Stainless steel clips |
| tmax60 | - | For use in temperatures up to +60°C |
| 5TB | - | 5 way terminal block for loop feed and ease of wiring |
| 1LIN | - | Through wiring 3x1.5 mm ² with two push-in terminals |
| 3LIN | - | Through wiring 5x1.5 mm ² with two push-in terminals |
| 1LIN2,5 | - | Through wiring 3x2.5 mm ² with two push-in terminals |
| 3LIN2,5 | - | Through wiring 5x2.5 mm ² with two push-in terminals |

PROOF

IP66 for Aggressive Environment



- Type:** Water and dust resistant IP 66 luminaire with PMMA diffuser for use in environments containing potentially corrosive chemicals and areas where specialised cleaning agents are used.
- Specification:** Luminaires are available with injection moulded acrylic diffuser for exposure to severe atmospheric conditions. White painted steel reflector. Stainless steel clips. Injection moulded thermoplastic canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface mounted luminaire designed to be fixed to ceiling of any type or suspended. Two fixing brackets for easy installation and accessories for chain and wire suspension are available on request.
- Application:** Dust and moisture proof luminaires, ideal for environments subject to high humidity and excessive dust. Suits well in food processing areas, agricultural buildings and other aggressive atmospheres with cleaning agents, salts, acids and mineral oils.



Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Proof 136 G61 AC IC | 1x36 (G13) | 1277x96x111 | 2,3 | 42 |
| Proof 236 G62 AC IC | 2x36 (G13) | 1277x146x111 | 3,4 | 84 |
| Proof 158 G63 AC IC | 1x58 (G13) | 1577x96x111 | 3,0 | 67 |
| Proof 258 G64 AC IC | 2x58 (G13) | 1577x146x111 | 4,4 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Proof 128 I56 AC IC | 1x28 (G5) | 1277x96x111 | 2,0 | 30 |
| Proof 228 I57 AC IC | 2x28 (G5) | 1277x146x111 | 2,2 | 60 |
| Proof 154 I62 AC IC | 1x54 (G5) | 1277x96x111 | 2,0 | 58 |
| Proof 254 I63 AC IC | 2x54 (G5) | 1277x146x111 | 2,3 | 116 |
| Proof 135 I58 AC IC | 1x35 (G5) | 1577x96x111 | 2,2 | 38 |
| Proof 235 I59 AC IC | 2x35 (G5) | 1577x146x111 | 2,8 | 75 |
| Proof 149 I60 AC IC | 1x49 (G5) | 1577x96x111 | 2,2 | 53 |
| Proof 249 I61 AC IC | 2x49 (G5) | 1577x146x111 | 2,8 | 104 |
| Proof 180 I64 AC IC | 1x80 (G5) | 1577x96x111 | 2,2 | 85 |
| Proof 280 I65 AC IC | 2x80 (G5) | 1577x146x111 | 2,9 | 170 |

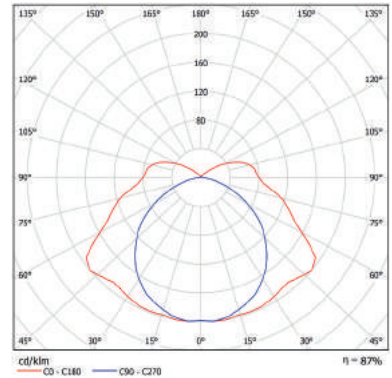
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Proof LED1x1400 E028 T840 OP LT80 AC IC | 662x96x111 | 50000 | 1379 | 12 | 80+ | 4000 | 1,20 |
| Proof LED1x1900 D422 T840 OP LT80 AC IC | 662x96x111 | 50000 | 1937 | 17 | 80+ | 4000 | 1,20 |
| Proof LED1x2000 E029 T840 OP LT80 AC IC | 662x96x111 | 50000 | 1997 | 16 | 80+ | 4000 | 1,20 |
| Proof LED1x2700 E030 T840 OP LT80 AC IC | 662x96x111 | 50000 | 2769 | 23 | 80+ | 4000 | 1,20 |
| Proof LED2x1400 E031 T840 OP LT80 AC IC | 662x146x111 | 50000 | 2759 | 23 | 80+ | 4000 | 1,80 |
| Proof LED2x1900 D423 T840 OP LT80 AC IC | 662x146x111 | 50000 | 3873 | 32 | 80+ | 4000 | 1,80 |
| Proof LED2x2000 E032 T840 OP LT80 AC IC | 662x146x111 | 50000 | 3994 | 30 | 80+ | 4000 | 1,80 |
| Proof LED1x2700 E034 T840 OP LT80 AC IC | 1272x96x111 | 50000 | 2759 | 23 | 80+ | 4000 | 2,00 |
| Proof LED1x3800 D424 T840 OP LT80 AC IC | 1272x96x111 | 50000 | 3873 | 32 | 80+ | 4000 | 2,00 |
| Proof LED1x3900 E035 T840 OP LT80 AC IC | 1272x96x111 | 50000 | 3994 | 30 | 80+ | 4000 | 2,00 |
| Proof LED1x5400 E036 T840 OP LT80 AC IC | 1272x96x111 | 50000 | 5538 | 44 | 80+ | 4000 | 2,00 |
| Proof LED2x2700 E037 T840 OP LT80 AC IC | 1272x146x111 | 50000 | 5518 | 44 | 80+ | 4000 | 2,80 |
| Proof LED2x3800 D425 T840 OP LT80 AC IC | 1272x146x111 | 50000 | 7747 | 64 | 80+ | 4000 | 2,80 |
| Proof LED2x3900 E038 T840 OP LT80 AC IC | 1272x146x111 | 50000 | 7988 | 60 | 80+ | 4000 | 2,80 |
| Proof LED1x3400 E040 T840 OP LT80 AC IC | 1572x96x111 | 50000 | 3449 | 28 | 80+ | 4000 | 2,60 |
| Proof LED1x4700 D426 T840 OP LT80 AC IC | 1572x96x111 | 50000 | 4842 | 40 | 80+ | 4000 | 2,60 |
| Proof LED1x4900 E041 T840 OP LT80 AC IC | 1572x96x111 | 50000 | 4992 | 38 | 80+ | 4000 | 2,60 |
| Proof LED1x6700 E042 T840 OP LT80 AC IC | 1572x96x111 | 50000 | 6923 | 54 | 80+ | 4000 | 2,60 |
| Proof LED2x3400 E043 T840 OP LT80 AC IC | 1572x146x111 | 50000 | 6897 | 54 | 80+ | 4000 | 3,60 |
| Proof LED2x4700 D427 T840 OP LT80 AC IC | 1572x146x111 | 50000 | 9684 | 80 | 80+ | 4000 | 3,60 |
| Proof LED2x4900 E044 T840 OP LT80 AC IC | 1572x146x111 | 50000 | 9985 | 76 | 80+ | 4000 | 3,60 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- MW – MW sensor
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- PAR – Specular aluminium parabolic reflector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

PROOF 249 I61 AC IC

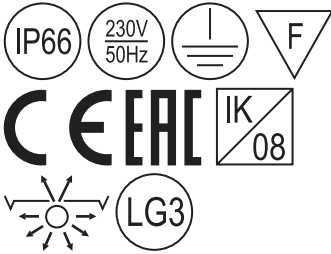


Chemical resistance of PROOF series parts made of thermoplasts

| Environment | Max concentration | PROOF diffuser resistant | | | PROOF body resistant | | |
|--|-------------------|--------------------------|-----------|----|----------------------|-----------|----|
| | | yes | partially | no | yes | partially | no |
| Aceton (ketones) | | | | • | | | • |
| Aniline | | | | • | | | • |
| Ammonia | 5% | • | | | • | | |
| Benzene and Benzaldehyde | | | | • | | | • |
| Diethylether(ethers) | | | • | | | | • |
| Potassium nitrate | | • | | | | | |
| Ethanol(alcohols) | 50% | | • | | | • | |
| Ethylacetate(esters) | | | | • | | | • |
| Ethyl alcohol | | | • | | • | | |
| Phenol | | | | • | | | • |
| Glycerine | | • | • | | | | |
| Heptane | | | | | | | • |
| Ammonium hydroxide | 25% | | | | | | |
| Sodium hydroxide-base | 60% | • | | | • | • | |
| Sodium chloride-salt solution | 15% | • | | | • | | |
| Sulphur chloride and calcium chloride | | • | | | | | |
| Carbon tetrachloride and Chloric ether | | | | • | | | • |
| Iron dichloride | | • | | | | | |
| Arsenic acid and Oleic acid | | • | | | • | | |
| Citric acid | 20% | • | | | • | | |
| Nitric acid | 20% | | • | | | • | |
| Nitric acid | 50% | | | • | | | • |
| Hydrochloride acid | 5% | • | | | • | | |
| Hydrochloride acid | 35% | | | • | | | • |
| Chromic acid | 40% | | • | | | • | |
| Formic acid | 30% | | • | | | | |
| Acetic acid | 10% | • | | | | • | |
| Sulphuric acid | 30% | • | | | | • | |
| Methanol | | | | • | | | • |
| Fuel oil | | | • | | • | | |
| Mineral oil | | • | | | • | | |
| Vegetable oil | | | | | • | | |
| Rape oil | | • | | | | | |
| Lamp oil | | | • | | | • | |
| Hydrogen peroxide | 30% | | | • | | • | |
| Ammonium sulphate | 15% | • | | | • | | |
| Toluene | | | | • | | | • |
| Turpentine oil | | | | • | | | • |
| Trichlorethylene | | | | • | | | • |
| Sodium carbonate | 20% | • | | | | | |
| Aliphatic hydrocarbons | | • | | | | • | |
| Aromatic hydrocarbons | | | | • | | | • |
| Alkali | | • | | | • | | |

BARAT LG3

IP66 for Direct/Indirect
Light Distribution



Type: Dust and moisture proof IP66 fixture for direct/indirect illumination.

Specification: Luminaires are available with injection moulded UV stabilised IK08 polycarbonate (or IK03 PMMA) diffuser for high impact resistance. White perforated (or slim) gear tray. Injection moulded polycarbonate or thermoplastic canopy, transparent. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Application: Indoor. Dust and moisture proof luminaire, ideal for installations where ceiling should be illuminated.

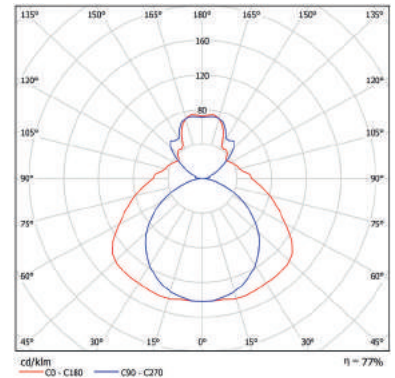
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 136 I16 ABS/PMMA LG3 | 1x36 (G13) | 1272x96x111 | 2,2 | 42 |
| Barat 236 I17 ABS/PMMA LG3 | 2x36 (G13) | 1272x146x111 | 3,3 | 84 |
| Barat 158 I18 ABS/PMMA LG3 | 1x58 (G13) | 1572x96x111 | 2,9 | 67 |
| Barat 258 I19 ABS/PMMA LG3 | 2x58 (G13) | 1572x146x111 | 4,3 | 134 |
| Barat 136 I16 PC/PC LG3 | 1x36 (G13) | 1272x96x111 | 2,2 | 42 |
| Barat 236 I17 PC/PC LG3 | 2x36 (G13) | 1272x146x111 | 3,3 | 84 |
| Barat 158 I18 PC/PC LG3 | 1x58 (G13) | 1572x96x111 | 2,9 | 67 |
| Barat 258 I19 PC/PC LG3 | 2x58 (G13) | 1572x146x111 | 4,3 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Barat 128 I66 ABS/PMMA LG3 | 1x28 (G5) | 1272x96x111 | 1,9 | 30 |
| Barat 228 I67 ABS/PMMA LG3 | 2x28 (G5) | 1272x146x111 | 2,2 | 60 |
| Barat 154 I73 ABS/PMMA LG3 | 1x54 (G5) | 1272x96x111 | 2,1 | 58 |
| Barat 254 I74 ABS/PMMA LG3 | 2x54 (G5) | 1272x146x111 | 2,7 | 116 |
| Barat 135 I68 ABS/PMMA LG3 | 1x35 (G5) | 1572x96x111 | 2,1 | 38 |
| Barat 235 I69 ABS/PMMA LG3 | 2x35 (G5) | 1572x146x111 | 2,7 | 75 |
| Barat 149 I70 ABS/PMMA LG3 | 1x49 (G5) | 1572x96x111 | 2,1 | 53 |
| Barat 249 I71 ABS/PMMA LG3 | 2x49 (G5) | 1572x146x111 | 2,8 | 104 |
| Barat 180 I75 ABS/PMMA LG3 | 1x80 (G5) | 1572x96x111 | 1,9 | 85 |
| Barat 280 I76 ABS/PMMA LG3 | 2x80 (G5) | 1572x146x111 | 2,2 | 170 |
| Barat 128 I66 PC/PC LG3 | 1x28 (G5) | 1272x96x111 | 1,9 | 30 |
| Barat 228 I67 PC/PC LG3 | 2x28 (G5) | 1272x146x111 | 2,2 | 60 |
| Barat 154 I73 PC/PC LG3 | 1x54 (G5) | 1272x96x111 | 1,9 | 58 |
| Barat 254 I74 PC/PC LG3 | 2x54 (G5) | 1272x146x111 | 2,2 | 116 |
| Barat 135 I68 PC/PC LG3 | 1x35 (G5) | 1572x96x111 | 2,1 | 38 |
| Barat 235 I69 PC/PC LG3 | 2x35 (G5) | 1572x146x111 | 2,7 | 75 |
| Barat 149 I70 PC/PC LG3 | 1x49 (G5) | 1572x96x111 | 2,1 | 53 |
| Barat 249 I71 PC/PC LG3 | 2x49 (G5) | 1572x146x111 | 2,7 | 104 |
| Barat 180 I75 PC/PC LG3 | 1x80 (G5) | 1572x96x111 | 2,1 | 85 |
| Barat 280 I76 PC/PC LG3 | 2x80 (G5) | 1572x146x111 | 2,8 | 170 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- MW – MW sensor
- ABS/PMMA – Body made of thermoplastic and diffuser of acrylic
- PC/PC – Body and diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- LG3 – 30% light up & 70% light down

BARAT 258 I19 PC/PC HF LG3



HERCULES

Aluminium IP65 Luminaire for Aggressive Environment



CE **EAC**

- Type:** Dust and moisture proof IP65 fixture made of aluminium profile.
- Specification:** Hardened safety glass is fixed to the body with stainless steel clips. Glossy aluminium reflector. The body made of extruded aluminium profile, light grey finished. Brass cable gland and silicone rubber sealing provide reliable IP protection. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface mounted luminaire designed to be fixed to ceiling of any type or suspended.
- Application:** Indoor. Dust and moisture proof luminaire, ideal for use in agricultural buildings, factories, warehouses, garages and also in corrosive environment.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|--------------------------------|------------|------------------|
| Hercules 118 Q21 | 1x18 (G13) | 670x140x90 | 3,1 | 26 |
| Hercules 218 Q22 | 2x18 (G13) | 670x140x90 | 3,4 | 42 |
| Hercules 136 Q23 | 1x36 (G13) | 1280x140x90 | 4,5 | 42 |
| Hercules 236 Q24 | 2x36 (G13) | 1280x140x90 | 4,9 | 84 |
| Hercules 158 Q25 | 1x58 (G13) | 1580x140x90 | 6,7 | 67 |
| Hercules 258 Q26 | 2x58 (G13) | 1580x140x90 | 7,3 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|--------------------------------|------------|------------------|
| Hercules 128 R27 | 1x28 (G5) | 1280x140x90 | 3,3 | 30 |
| Hercules 228 R28 | 2x28 (G5) | 1280x140x90 | 3,4 | 60 |
| Hercules 154 R33 | 1x54 (G5) | 1280x140x90 | 3,3 | 58 |
| Hercules 254 R34 | 2x54 (G5) | 1280x140x90 | 3,4 | 116 |
| Hercules 135 R29 | 1x35 (G5) | 1580x140x90 | 4,6 | 38 |
| Hercules 235 R30 | 2x35 (G5) | 1580x140x90 | 4,7 | 75 |
| Hercules 149 R31 | 1x49 (G5) | 1580x140x90 | 4,6 | 53 |
| Hercules 249 R32 | 2x49 (G5) | 1580x140x90 | 4,7 | 104 |
| Hercules 180 R35 | 1x80 (G5) | 1580x140x90 | 4,6 | 85 |
| Hercules 280 R36 | 2x80 (G5) | 1580x140x90 | 4,8 | 170 |

Options available on request:

- | | | | |
|------|-------------------------------|---------|---|
| HF | - High Frequency control gear | 5TB | - 5 way terminal block for easy wiring |
| DIM | - Dimmable ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminals |
| SDIM | - Switch-control/dimming | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminals |
| DALI | - DALI ballast | 1LIN2,5 | - Through wiring 3x2.5 mm ² with two push-in terminals |
| EMG | - Emergency version 1 hour | 3LIN2,5 | - Through wiring 5x2.5 mm ² with two push-in terminals |
| EM3 | - Emergency version 3 hours | | |

TUNEL

Stainless Steel IP65 Luminaire for Aggressive Environment



TUNEL LED2X2300 D126 T840 OP

- Type:** Dust and moisture proof IP65 fixture with Stainless steel body.
- Specification:** Hardened safety glass is fixed to the body with stainless steel clips. The body made of stainless steel sheet. Stainless steel cable gland and silicone rubber sealing provide reliable IP protection. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Surface mounted luminaire designed to be fixed to ceiling of any type or suspended.
- Application:** Indoor. Dust and moisture proof luminaire, ideal for use in agricultural buildings, factories, warehouses, garages and also in corrosive environment.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Tunel 118 R15 | 1x18 (G13) | 710x140x100 | 4,6 | 26 |
| Tunel 218 R16 | 2x18 (G13) | 710x210x100 | 5,8 | 42 |
| Tunel 136 R17 | 1x36 (G13) | 1310x140x100 | 5,9 | 42 |
| Tunel 236 R18 | 2x36 (G13) | 1310x210x100 | 7,7 | 84 |
| Tunel 158 R19 | 1x58 (G13) | 1610x140x100 | 7,6 | 67 |
| Tunel 258 R20 | 2x58 (G13) | 1610x210x100 | 10,5 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Tunel 114 T23 | 1x14 (G5) | 710x140x100 | 4,4 | 16 |
| Tunel 214 T24 | 2x14 (G5) | 710x210x100 | 5,4 | 31 |
| Tunel 124 T25 | 1x24 (G5) | 710x140x100 | 4,4 | 25 |
| Tunel 224 T26 | 2x24 (G5) | 710x210x100 | 5,4 | 49 |
| Tunel 128 T27 | 1x28 (G5) | 1310x140x100 | 5,4 | 30 |
| Tunel 228 T28 | 2x28 (G5) | 1310x210x100 | 6,9 | 60 |
| Tunel 154 T33 | 1x54 (G5) | 1310x140x100 | 5,4 | 58 |
| Tunel 254 T34 | 2x54 (G5) | 1310x210x100 | 6,9 | 116 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Tunel 135 T29 | 1x35 (G5) | 1610x140x100 | 7,1 | 38 |
| Tunel 235 T30 | 2x35 (G5) | 1610x210x100 | 9,5 | 75 |
| Tunel 149 T31 | 1x49 (G5) | 1610x140x100 | 7,1 | 53 |
| Tunel 249 T32 | 2x49 (G5) | 1610x210x100 | 9,5 | 104 |
| Tunel 180 T35 | 1x80 (G5) | 1610x140x100 | 7,1 | 85 |
| Tunel 280 T36 | 2x80 (G5) | 1610x210x100 | 9,6 | 170 |

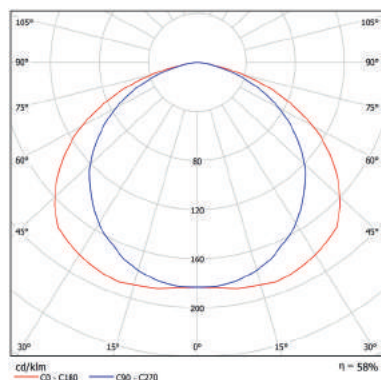
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Tunel LED1x1200 D118 T840 OP | 710x140x100 | 50000 | 1123 | 12 | 80+ | 4000 | 2,90 |
| Tunel LED1x1600 D428 T840 OP | 710x140x100 | 50000 | 1576 | 17 | 80+ | 4000 | 2,90 |
| Tunel LED1x1700 D119 T840 OP | 710x140x100 | 50000 | 1625 | 16 | 80+ | 4000 | 2,90 |
| Tunel LED1x2300 D120 T840 OP | 710x140x100 | 50000 | 2254 | 23 | 80+ | 4000 | 2,90 |
| Tunel LED2x1200 D121 T840 OP | 710x210x100 | 50000 | 2246 | 23 | 80+ | 4000 | 3,90 |
| Tunel LED2x1600 D429 T840 OP | 710x210x100 | 50000 | 3153 | 32 | 80+ | 4000 | 3,90 |
| Tunel LED2x1700 D122 T840 OP | 710x210x100 | 50000 | 3251 | 30 | 80+ | 4000 | 3,90 |
| Tunel LED1x2300 D123 T840 OP | 1310x140x100 | 50000 | 2246 | 23 | 80+ | 4000 | 5,20 |
| Tunel LED1x3200 D430 T840 OP | 1310x140x100 | 50000 | 3153 | 32 | 80+ | 4000 | 5,20 |
| Tunel LED1x3300 D124 T840 OP | 1310x140x100 | 50000 | 3251 | 30 | 80+ | 4000 | 5,20 |
| Tunel LED1x4600 D125 T840 OP | 1310x140x100 | 50000 | 4508 | 44 | 80+ | 4000 | 5,20 |
| Tunel LED2x2300 D126 T840 OP | 1310x210x100 | 50000 | 4491 | 44 | 80+ | 4000 | 7,10 |
| Tunel LED2x3200 D431 T840 OP | 1310x210x100 | 50000 | 6306 | 64 | 80+ | 4000 | 7,10 |
| Tunel LED2x3300 D127 T840 OP | 1310x210x100 | 50000 | 6502 | 60 | 80+ | 4000 | 7,10 |
| Tunel LED1x2900 D128 T840 OP | 1610x140x100 | 50000 | 2807 | 29 | 80+ | 4000 | 6,60 |
| Tunel LED1x4000 D432 T840 OP | 1610x140x100 | 50000 | 3941 | 40 | 80+ | 4000 | 6,60 |
| Tunel LED1x4100 D129 T840 OP | 1610x140x100 | 50000 | 4064 | 38 | 80+ | 4000 | 6,60 |
| Tunel LED1x5700 D130 T840 OP | 1610x140x100 | 50000 | 5635 | 54 | 80+ | 4000 | 6,60 |
| Tunel LED2x2900 D131 T840 OP | 1610x210x100 | 50000 | 5614 | 54 | 80+ | 4000 | 9,20 |
| Tunel LED2x4000 D433 T840 OP | 1610x210x100 | 50000 | 7882 | 80 | 80+ | 4000 | 9,20 |
| Tunel LED2x4100 D132 T840 OP | 1610x210x100 | 50000 | 8127 | 76 | 80+ | 4000 | 9,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for easy wiring
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- OP – Frosted glass
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

TUNEL 258 R20 HF



HERMETIC RD LED

**Recessed LED Luminaire
for Use in Sterile Areas**



CE EAC



- Type:** A range of IP65 rated recessed luminaires provides an ideal solution for food processing, pharmaceutical or medical applications. Outstanding design and look.
- Specification:** Luminaires are available with opal diffuser fastened in a steel frame for exposure to severe atmospheric conditions. The steel frame is fitted into the body with four screw locks for IP65 protection. Steel luminaire housing, white powder painted. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Fits 15-24mm exposed T-Bar and/or plasterboard ceiling. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets (available on request).
- Application:** Indoor. For use in pharmaceutical, medical or other sterile areas.

Recessed LED luminaires with IP65 degree of protection:

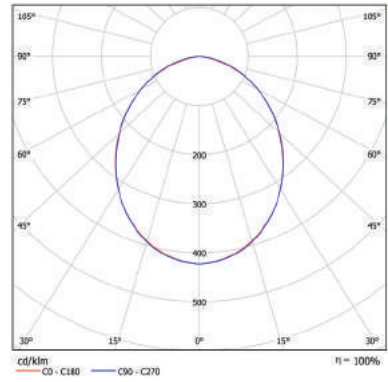
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Hermetic RD LED1x1100 D358 T840 OP LT80 | 595x295x60 | 50000 | 1083 | 11 | 80+ | 4000 | 3,00 |
| Hermetic RD LED1x1600 D359 T840 OP LT80 | 595x295x60 | 50000 | 1520 | 15 | 80+ | 4000 | 3,00 |
| Hermetic RD LED1x2200 D360 T840 OP LT80 | 595x295x60 | 50000 | 2173 | 21 | 80+ | 4000 | 3,00 |
| Hermetic RD LED2x1100 D176 T840 OP LT80 | 595x595x60 | 50000 | 2166 | 21 | 80+ | 4000 | 4,50 |
| Hermetic RD LED2x1600 D177 T840 OP LT80 | 595x595x60 | 50000 | 3041 | 29 | 80+ | 4000 | 4,50 |
| Hermetic RD LED2x2200 D178 T840 OP LT80 | 595x595x60 | 50000 | 4346 | 39 | 80+ | 4000 | 4,50 |
| Hermetic RD LED3x1100 D179 T840 OP LT80 | 595x595x60 | 50000 | 3249 | 29 | 80+ | 4000 | 4,50 |
| Hermetic RD LED3x1600 D180 T840 OP LT80 | 595x595x60 | 50000 | 4561 | 43 | 80+ | 4000 | 4,50 |
| Hermetic RD LED3x2200 D181 T840 OP LT80 | 595x595x60 | 50000 | 6518 | 59 | 80+ | 4000 | 4,50 |
| Hermetic RD LED1x2300 D182 T840 OP LT80 | 1195x295x60 | 50000 | 2286 | 22 | 80+ | 4000 | 4,50 |
| Hermetic RD LED1x3300 D183 T840 OP LT80 | 1195x295x60 | 50000 | 3209 | 30 | 80+ | 4000 | 4,50 |
| Hermetic RD LED1x4600 D184 T840 OP LT80 | 1195x295x60 | 50000 | 4588 | 41 | 80+ | 4000 | 4,50 |
| Hermetic RD LED1x2900 D185 T840 OP LT80 | 1495x295x60 | 50000 | 2888 | 28 | 80+ | 4000 | 6,00 |
| Hermetic RD LED1x4100 D186 T840 OP LT80 | 1495x295x60 | 50000 | 4054 | 38 | 80+ | 4000 | 6,00 |
| Hermetic RD LED1x5800 D187 T840 OP LT80 | 1495x295x60 | 50000 | 5795 | 52 | 80+ | 4000 | 6,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes
- OP LT80 – Opal diffuser with 80% light transmission
- GLASSOP – Frosted tempered glass diffuser
- SB – Support brackets for plasterboard ceiling
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

HERMETIC RD LED3X1600 D180 T840 OP LT80



HERMETIC SD LED

Surface LED Luminaire
for Use in Sterile Areas



CE **EAC**



- Type:** A range of IP65 rated surface luminaires provides an ideal solution for food processing, pharmaceutical or medical applications. Outstanding design and look.
- Specification:** Luminaires are available with opal diffuser fastened in a steel frame for exposure to severe atmospheric conditions. The steel frame is fitted into the body with four screw locks for IP65 protection. Steel luminaire housing, white powder painted. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Luminaire is designed to be fixed to ceiling of any type.
- Application:** Indoor. For use in pharmaceutical, medical or other sterile areas.

Surface mounted LED luminaires with IP65 degree of protection:

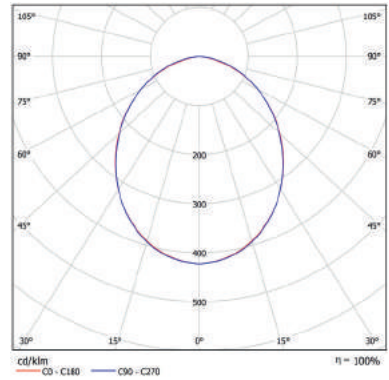
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Hermetic SD LED2x1100 D188 T840 OP LT80 | 602x602x65 | 50000 | 2166 | 21 | 80+ | 4000 | 4,50 |
| Hermetic SD LED2x1600 D189 T840 OP LT80 | 602x602x65 | 50000 | 3041 | 29 | 80+ | 4000 | 4,50 |
| Hermetic SD LED2x2200 D190 T840 OP LT80 | 602x602x65 | 50000 | 4346 | 39 | 80+ | 4000 | 4,50 |
| Hermetic SD LED3x1100 D191 T840 OP LT80 | 602x602x65 | 50000 | 3249 | 29 | 80+ | 4000 | 4,50 |
| Hermetic SD LED3x1600 D192 T840 OP LT80 | 602x602x65 | 50000 | 4561 | 43 | 80+ | 4000 | 4,50 |
| Hermetic SD LED3x2200 D193 T840 OP LT80 | 602x602x65 | 50000 | 6518 | 59 | 80+ | 4000 | 4,50 |
| Hermetic SD LED1x2300 D194 T840 OP LT80 | 1203x180x65 | 50000 | 2286 | 22 | 80+ | 4000 | 4,00 |
| Hermetic SD LED1x3300 D195 T840 OP LT80 | 1203x180x65 | 50000 | 3209 | 30 | 80+ | 4000 | 4,00 |
| Hermetic SD LED1x4600 D196 T840 OP LT80 | 1203x180x65 | 50000 | 4588 | 41 | 80+ | 4000 | 4,00 |
| Hermetic SD LED1x2900 D197 T840 OP LT80 | 1503x180x65 | 50000 | 2888 | 28 | 80+ | 4000 | 5,00 |
| Hermetic SD LED1x4100 D198 T840 OP LT80 | 1503x180x65 | 50000 | 4054 | 38 | 80+ | 4000 | 5,00 |
| Hermetic SD LED1x5800 D199 T840 OP LT80 | 1503x180x65 | 50000 | 5795 | 52 | 80+ | 4000 | 5,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes
- OP LT80 – Opal diffuser with 80% light transmission
- GLASSOP – Frosted tempered glass diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

HERMETIC SD LED3X1600 D192 T840 OP LT80

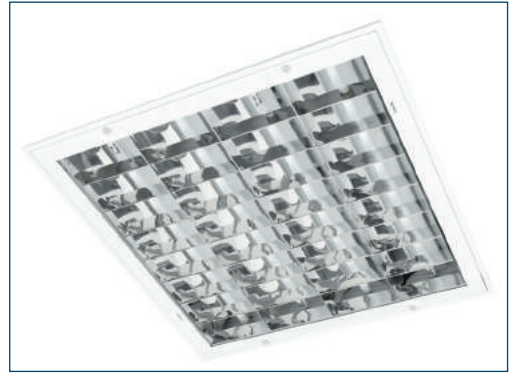


HERMETIC R

Recessed Luminaire for
Use in Sterile Areas



HERMETIC 418 K58 OP HF



HERMETIC 418 K58 IP65 PAR HF

Type: A range of IP54/IP65 rated recessed luminaires provides an ideal solution for food processing, pharmaceutical or medical applications.

Specification: Luminaires are available with opal, prismatic diffuser fastened in a steel frame for exposure to severe atmospheric conditions. Double parabolic louvre version with transparent diffuser can be ordered on request. The frame is fitted into the body with a four spring locks for maximum stability. Steel luminaire housing, white powder painted. Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Fits 15-24mm exposed T-Bar and/or plasterboard ceiling. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets (available on request).

Application: Indoor. For use in pharmaceutical, medical or other sterile areas.



The steel frame can be fitted into the body with four screw locks for IP65 protection. See option list.

Recessed T8 luminaires with IP54 degree of protection (IP65 versions on request):

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|----------------|---------------------|--------------------------------|------------|------------------|
| Hermetic R 318 L96 | IP54, recessed | 3x18 (G13) | 595x595x85 | 5,30 | 68 |
| Hermetic R 418 K58 | IP54, recessed | 4x18 (G13) | 595x595x85 | 5,40 | 84 |
| Hermetic R 236 Q30 | IP54, recessed | 2x36 (G13) | 1195x295x85 | 5,40 | 84 |
| Hermetic R 336 O31 | IP54, recessed | 3x36 (G13) | 1195x595x85 | 9,80 | 126 |
| Hermetic R 436 Q31 | IP54, recessed | 4x36 (G13) | 1195x595x85 | 10,40 | 168 |

Recessed T5 luminaires with IP54 degree of protection (IP65 versions on request):

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|----------------|---------------------|--------------------------------|------------|------------------|
| Hermetic R 314 L97 | IP54, recessed | 3x14 (G5) | 595x595x85 | 4,50 | 46 |
| Hermetic R 324 L98 | IP54, recessed | 3x24 (G5) | 595x595x85 | 4,50 | 73 |
| Hermetic R 414 K04 | IP54, recessed | 4x14 (G5) | 595x595x85 | 4,50 | 62 |
| Hermetic R 424 K05 | IP54, recessed | 4x24 (G5) | 595x595x85 | 4,50 | 97 |
| Hermetic R 228 K06 | IP54, recessed | 2x28 (G5) | 1195x295x85 | 4,5 | 60 |
| Hermetic R 254 K07 | IP54, recessed | 2x54 (G5) | 1195x295x85 | 4,5 | 116 |
| Hermetic R 328 K18 | IP54, recessed | 3x28 (G5) | 1195x595x85 | 8,9 | 90 |
| Hermetic R 354 K19 | IP54, recessed | 3x54 (G5) | 1195x595x85 | 8,9 | 174 |
| Hermetic R 428 K08 | IP54, recessed | 4x28 (G5) | 1195x595x85 | 9,0 | 120 |
| Hermetic R 454 K09 | IP54, recessed | 4x54 (G5) | 1195x595x85 | 9,0 | 232 |
| Hermetic R 235 Q27 | IP54, recessed | 2x35 (G5) | 1495x295x85 | 5,8 | 75 |
| Hermetic R 249 Q28 | IP54, recessed | 2x49 (G5) | 1495x295x85 | 5,8 | 104 |
| Hermetic R 280 Q29 | IP54, recessed | 2x80 (G5) | 1495x295x85 | 5,9 | 170 |

Recessed LED luminaires with IP65 degree of protection:

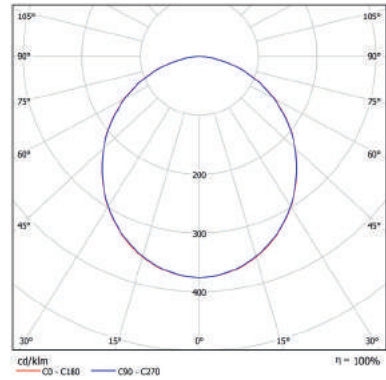
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Hermetic R LED3x1100 D149 T840 OP LT80 | 595x595x85 | 50000 | 3032 | 29 | 80+ | 4000 | 4,50 |
| Hermetic R LED3x1500 D150 T840 OP LT80 | 595x595x85 | 50000 | 4257 | 43 | 80+ | 4000 | 4,50 |
| Hermetic R LED4x1100 D151 T840 OP LT80 | 595x595x85 | 50000 | 4043 | 39 | 80+ | 4000 | 4,50 |
| Hermetic R LED4x1500 D152 T840 OP LT80 | 595x595x85 | 50000 | 5676 | 57 | 80+ | 4000 | 4,50 |
| Hermetic R LED2x2200 D153 T840 OP LT80 | 1195x295x85 | 50000 | 4267 | 41 | 80+ | 4000 | 4,50 |
| Hermetic R LED2x3000 D154 T840 OP LT80 | 1195x295x85 | 50000 | 5991 | 61 | 80+ | 4000 | 4,50 |
| Hermetic R LED2x4300 D155 T840 OP LT80 | 1195x295x85 | 50000 | 8564 | 83 | 80+ | 4000 | 4,50 |
| Hermetic R LED3x2200 D156 T840 OP LT80 | 1195x595x85 | 50000 | 6401 | 62 | 80+ | 4000 | 9,00 |
| Hermetic R LED3x3000 D157 T840 OP LT80 | 1195x595x85 | 50000 | 8986 | 91 | 80+ | 4000 | 9,00 |
| Hermetic R LED4x2200 D158 T840 OP LT80 | 1195x595x85 | 50000 | 8534 | 83 | 80+ | 4000 | 9,00 |
| Hermetic R LED4x3000 D159 T840 OP LT80 | 1195x595x85 | 50000 | 11981 | 121 | 80+ | 4000 | 9,00 |
| Hermetic R LED2x2700 D160 T840 OP LT80 | 1495x295x85 | 50000 | 5390 | 52 | 80+ | 4000 | 6,00 |
| Hermetic R LED2x3800 D161 T840 OP LT80 | 1495x295x85 | 50000 | 7567 | 77 | 80+ | 4000 | 6,00 |
| Hermetic R LED2x5500 D162 T840 OP LT80 | 1495x295x85 | 50000 | 10818 | 105 | 80+ | 4000 | 6,00 |
| Hermetic R LED1x3800 D163 T840 OP LT80 | 595x595x75 | 50000 | 3758 | 33 | 80+ | 4000 | 4,40 |
| Hermetic R LED1x4400 D164 T840 OP LT80 | 595x595x75 | 50000 | 4341 | 40 | 80+ | 4000 | 4,40 |
| Hermetic R LED1x6000 D165 T840 OP LT80 | 595x595x75 | 50000 | 5994 | 60 | 80+ | 4000 | 4,40 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IP65 – IP65 version with screw fixing
- 5TB – 5 way terminal block with two holes
- OP – Opal diffuser
- PRZ – Prismatic diffuser
- PAR – Clear diffuser with PAR reflector
- MAT – Matted reflector (subject to minimum quantity)
- GLASSPAR – Tempered glass diffuser with PAR reflector
- GLASSOP – Frosted tempered glass diffuser
- SB – Support brackets for plasterboard ceiling
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

HERMETIC R LED1X4400 D164 T840 OP LT80



HERMETIC S

Surface Luminaire for Use in Sterile Areas



Type: A range of IP54/IP65 rated surface luminaires provides an ideal solution for food processing, pharmaceutical or medical applications.

Specification: Luminaires are available with opal, prismatic diffuser fastened in a steel frame for exposure to severe atmospheric conditions. Double parabolic louvre version with transparent diffuser can be ordered on request. The frame is fitted into the body with a four spring locks for maximum stability (on request the steel frame can be fitted into the body with a four screw locks for IP65 protection).
Steel housing, white powder painted.
Luminaire is plastic-wrapped and packed in twin boxes.

Installation: Luminaire is designed to be fixed to ceiling of any type.

Application: Indoor. For use in pharmaceutical, medical or other sterile areas.

Surface mounted T8 luminaires with IP54 degree of protection (IP65 versions on request):

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------|---------------------|--------------------------------|------------|------------------|
| Hermetic S 318 L99 | IP54, surface | 3x18 (G13) | 635x600x85 | 5,50 | 68 |
| Hermetic S 418 K60 | IP54, surface | 4x18 (G13) | 635x600x85 | 5,60 | 84 |
| Hermetic S 236 Q32 | IP54, surface | 2x36 (G13) | 1235x300x85 | 5,60 | 84 |
| Hermetic S 336 Q33 | IP54, surface | 3x36 (G13) | 1235x600x85 | 10,0 | 126 |
| Hermetic S 436 Q34 | IP54, surface | 4x36 (G13) | 1235x600x85 | 10,6 | 168 |

Surface mounted T5 luminaires with IP54 degree of protection (IP65 versions on request):

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------|---------------------|--------------------------------|------------|------------------|
| Hermetic S 314 M01 | IP54, surface | 3x14 (G5) | 635x600x85 | 4,70 | 46 |
| Hermetic S 324 M02 | IP54, surface | 3x24 (G5) | 635x600x85 | 4,70 | 73 |
| Hermetic S 414 K12 | IP54, surface | 4x14 (G5) | 635x600x85 | 4,70 | 62 |
| Hermetic S 424 K13 | IP54, surface | 4x24 (G5) | 635x600x85 | 4,70 | 97 |
| Hermetic S 228 K14 | IP54, surface | 2x28 (G5) | 1235x300x85 | 4,70 | 60 |
| Hermetic S 254 K15 | IP54, surface | 2x54 (G5) | 1235x300x85 | 4,70 | 116 |
| Hermetic S 328 K20 | IP54, surface | 3x28 (G5) | 1235x600x85 | 9,1 | 90 |
| Hermetic S 354 K21 | IP54, surface | 3x54 (G5) | 1235x600x85 | 9,1 | 174 |
| Hermetic S 428 K16 | IP54, surface | 4x28 (G5) | 1235x600x85 | 9,2 | 120 |
| Hermetic S 454 K17 | IP54, surface | 4x54 (G5) | 1235x600x85 | 9,2 | 232 |

Surface mounted LED luminaires with IP65 degree of protection:

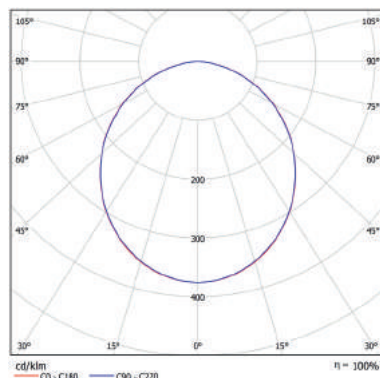
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Hermetic S LED3x1100 D166 T840 OP LT80 | 602x602x85 | 50000 | 3032 | 29 | 80+ | 4000 | 5,00 |
| Hermetic S LED3x1500 D167 T840 OP LT80 | 602x602x85 | 50000 | 4257 | 43 | 80+ | 4000 | 5,00 |
| Hermetic S LED4x1100 D168 T840 OP LT80 | 602x602x85 | 50000 | 4043 | 39 | 80+ | 4000 | 5,00 |
| Hermetic S LED4x1500 D169 T840 OP LT80 | 602x602x85 | 50000 | 5676 | 57 | 80+ | 4000 | 5,00 |
| Hermetic S LED2x2200 D170 T840 OP LT80 | 1203x302x85 | 50000 | 4267 | 41 | 80+ | 4000 | 5,00 |
| Hermetic S LED2x3000 D171 T840 OP LT80 | 1203x302x85 | 50000 | 5991 | 61 | 80+ | 4000 | 5,00 |
| Hermetic S LED2x4300 D172 T840 OP LT80 | 1203x302x85 | 50000 | 8564 | 83 | 80+ | 4000 | 5,00 |
| Hermetic S LED1x3800 D173 T840 OP LT80 | 602x602x85 | 50000 | 3758 | 33 | 80+ | 4000 | 5,00 |
| Hermetic S LED1x4400 D174 T840 OP LT80 | 602x602x85 | 50000 | 4341 | 40 | 80+ | 4000 | 5,00 |
| Hermetic S LED1x6000 D175 T840 OP LT80 | 602x602x85 | 50000 | 5994 | 60 | 80+ | 4000 | 5,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

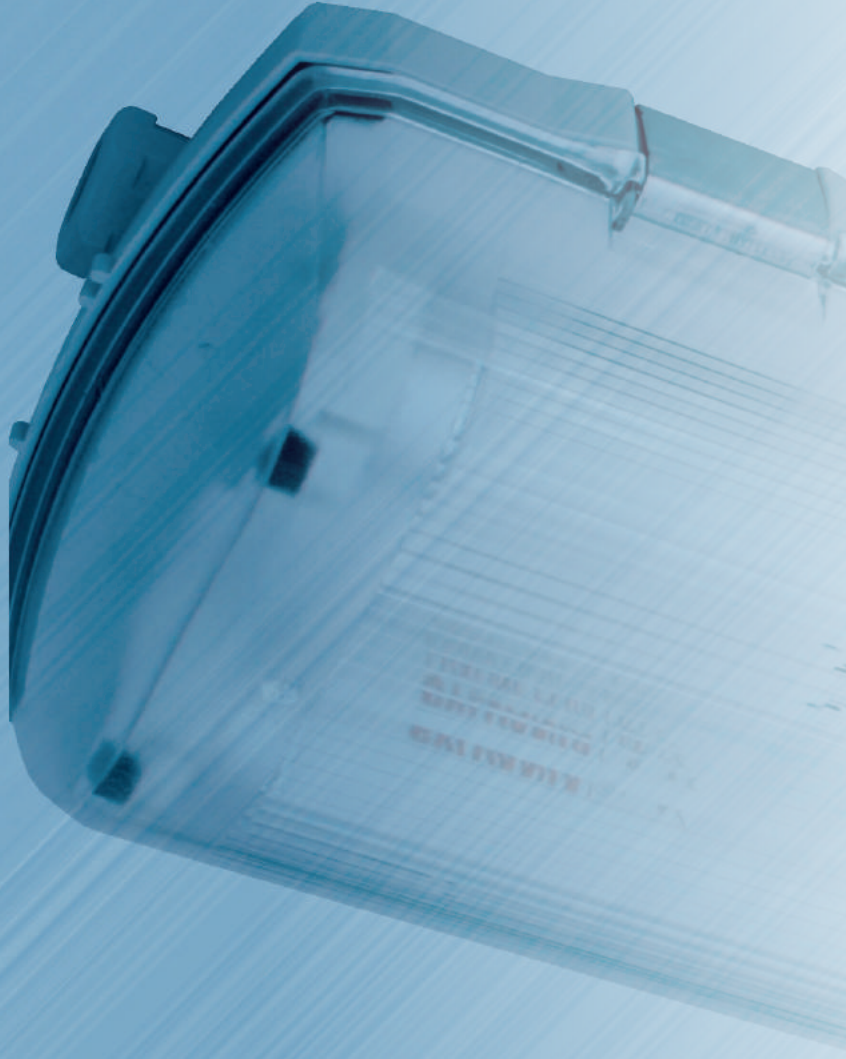
Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- IP65 – IP65 version with screws fixing
- 5TB – 5 way terminal block with two holes
- OP – Opal diffuser
- PRZ – Prismatic diffuser
- PAR – Clear diffuser with PAR reflector
- MAT – Matted reflector (subject to minimum quantity)
- GLASSPAR – Tempered glass diffuser with PAR reflector
- GLASSOP – Frosted tempered glass diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

HERMETIC S LED1X4400 D174 T840 OP LT80



NORTHCLIFFE
MAKING LIFE BRIGHTER



EXPLOSION PROOF LUMINAIRES

www.northcliffe.org

BARAT EX

**Explosion Proof
IP66 Luminaire for
Hazardous Zones 2, 22**



BARAT LED1X3800 C108 T840 PC/PC OP IC EX



BARAT LED2X3200 C116 T840 PC/PC OP IC EX



BARAT 236 Z22 PC/PC HF IC EX

Type: Explosion proof IP66 luminaire designed for illumination of hazardous areas where an explosive atmosphere persists for a short period. Hazardous zones: 2, 22.

Specification: Clear (T8) or opal (LED) UV stabilized IK08 polycarbonate diffuser. White powder coated gear tray. Injection moulded polycarbonate canopy, grey finished. Stainless steel diffuser retaining clips. Explosion group: gas: IIC, IIB, IIA dust: IIIC, IIIB, IIIA
Protection degree: IP66
ATEX cable gland: 2xM20, 1xblanking plug
Cable diameter: 7-13mm
Ta: -25°C to 40°C (Ta with emergency kit: +5°C to 40°C)
Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire is designed to be fixed to ceiling of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. Installed luminaires have to be protected from mechanical damage.

Application: Suitable for industrial areas and facilities with a danger of flammable gas, dust and vapour explosion.
Marking of explosion-protection: II 3G Ex nA IIC T6 Gc; II 3D Ex tD IIIC T85°C IP66 Dc.

| Name | Overall dimensions (LxWxH), mm | Lamp (W) and socket | Hazardous zones | System power*, W | EEL | Weight, kg |
|------------------------------|--------------------------------|---------------------|-----------------|------------------|-----|------------|
| Barat 118 Z19 PC/PC HF IC Ex | 662x96x111 | 1x18 (G13) | 2,22 | 19 | A2 | 1.2 |
| Barat 218 Z20 PC/PC HF IC Ex | 662x146x111 | 2x18 (G13) | 2,22 | 37 | A2 | 1.6 |
| Barat 136 Z21 PC/PC HF IC Ex | 1272x96x111 | 1x36 (G13) | 2,22 | 36 | A2 | 1.9 |
| Barat 236 Z22 PC/PC HF IC Ex | 1272x146x111 | 2x36 (G13) | 2,22 | 71 | A2 | 2.5 |
| Barat 158 Z23 PC/PC HF IC Ex | 1572x96x111 | 1x58 (G13) | 2,22 | 55 | A2 | 2.3 |
| Barat 258 Z24 PC/PC HF IC Ex | 1572x146x111 | 2x58 (G13) | 2,22 | 108 | A2 | 2.9 |

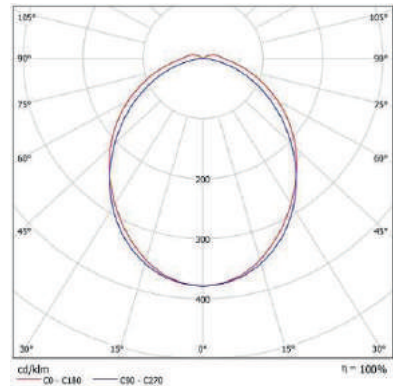
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Barat LED1x1300 C101 T840 PC/PC OP IC Ex | 662x96x111 | 50000 | 1279 | 12 | 80+ | 4000 | 1,30 |
| Barat LED1x1900 C102 T840 PC/PC OP IC Ex | 662x96x111 | 50000 | 1879 | 16 | 80+ | 4000 | 1,30 |
| Barat LED2x1300 C104 T840 PC/PC OP IC Ex | 662x146x111 | 50000 | 2558 | 24 | 80+ | 4000 | 1,80 |
| Barat LED2x1900 C105 T840 PC/PC OP IC Ex | 662x146x111 | 50000 | 3759 | 31 | 80+ | 4000 | 1,80 |
| Barat LED1x2600 C107 T840 PC/PC OP IC Ex | 1272x96x111 | 50000 | 2558 | 24 | 80+ | 4000 | 2,10 |
| Barat LED1x3800 C108 T840 PC/PC OP IC Ex | 1272x96x111 | 50000 | 3759 | 31 | 80+ | 4000 | 2,10 |
| Barat LED2x2600 C110 T840 PC/PC OP IC Ex | 1272x146x111 | 50000 | 5117 | 46 | 80+ | 4000 | 2,80 |
| Barat LED2x3800 C111 T840 PC/PC OP IC Ex | 1272x146x111 | 50000 | 7518 | 62 | 80+ | 4000 | 2,80 |
| Barat LED1x3200 C113 T840 PC/PC OP IC Ex | 1572x96x111 | 50000 | 3198 | 29 | 80+ | 4000 | 2,60 |
| Barat LED1x4700 C114 T840 PC/PC OP IC Ex | 1572x96x111 | 50000 | 4699 | 39 | 80+ | 4000 | 2,60 |
| Barat LED2x3200 C116 T840 PC/PC OP IC Ex | 1572x146x111 | 50000 | 6396 | 58 | 80+ | 4000 | 3,30 |
| Barat LED2x4700 C117 T840 PC/PC OP IC Ex | 1572x146x111 | 50000 | 9397 | 78 | 80+ | 4000 | 3,30 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- IC- – Stainless steel clips
- EM3 – Emergency version 3 hours (only 1272&1572mm luminaires)
- 5TB – 5 way terminal block for ease wiring
- PC/PC – Body and diffuser made of polycarbonate plastic
- OP – Opal UV stabilized polycarbonate diffuser
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

BARAT LED2X3200 C116 T840 PC/PC OP IC EX





ANTI-VANDAL LUMINAIRES

CAELUM

Surface Mounted Luminaire for High Risk of Damage



| | |
|-----------------------|--|
| Type: | A range of technical luminaires designed to withstand extreme vandalism in public areas. |
| Specification: | Luminaires are available with opal polycarbonate diffuser fastened in a steel frame. The frame is fitted into the body with stainless vandal-resistant screws. Steel housing, white polyester powder painted. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceiling of any type. |
| Application: | For use in areas with high risk of damage: prisons, subways and public transport stations, underground garages, psychiatric medical or other areas. |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Caelum 136 U02 OP | 1x36 (G13) | 1270x200x90 | 11 | 42 |
| Caelum 236 U03 OP | 2x36 (G13) | 1270x200x90 | 11 | 84 |
| Caelum 158 U04 OP | 1x58 (G13) | 570x200x190 | 14 | 67 |
| Caelum 258 U05 OP | 2x58 (G13) | 1570x200x90 | 14 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Caelum 128 U06 OP | 1x28 (G5) | 1270x200x90 | 10,5 | 30 |
| Caelum 228 U07 OP | 2x28 (G5) | 1270x200x90 | 10,5 | 60 |
| Caelum 154 U08 OP | 1x54 (G5) | 1270x200x90 | 10,5 | 58 |
| Caelum 254 U09 OP | 2x54 (G5) | 1270x200x90 | 10,5 | 116 |
| Caelum 135 U10 OP | 1x35 (G5) | 1570x200x90 | 13 | 38 |
| Caelum 235 U11 OP | 2x35 (G5) | 1570x200x90 | 13 | 75 |
| Caelum 149 U12 OP | 1x49 (G5) | 1570x200x90 | 13 | 53 |
| Caelum 249 U13 OP | 2x49 (G5) | 1570x200x90 | 13 | 104 |
| Caelum 180 U14 OP | 1x80 (G5) | 1570x200x90 | 13 | 85 |
| Caelum 280 U15 OP | 2x80 (G5) | 1570x200x90 | 13 | 170 |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Caelum LED1x2100 D133 T840 OP LT70 | 1270x200x95 | 50000 | 2085 | 23 | 80+ | 4000 | 10,50 |
| Caelum LED1x3000 D134 T840 OP LT70 | 1270x200x95 | 50000 | 2928 | 32 | 80+ | 4000 | 10,50 |
| Caelum LED2x2100 D135 T840 OP LT70 | 1270x200x95 | 50000 | 4170 | 44 | 80+ | 4000 | 10,50 |
| Caelum LED2x3000 D136 T840 OP LT70 | 1270x200x95 | 50000 | 5855 | 64 | 80+ | 4000 | 10,50 |
| Caelum LED1x2700 D137 T840 OP LT70 | 1570x200x95 | 50000 | 2607 | 29 | 80+ | 4000 | 12,50 |

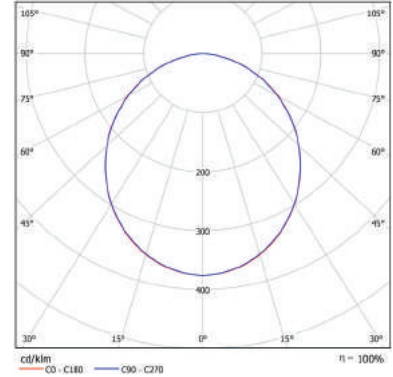
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Caelum LED1x3700 D138 T840 OP LT70 | 1570x200x95 | 50000 | 3660 | 40 | 80+ | 4000 | 12,50 |
| Caelum LED2x2700 D139 T840 OP LT70 | 1570x200x95 | 50000 | 5213 | 54 | 80+ | 4000 | 12,50 |
| Caelum LED2x3700 D140 T840 OP LT70 | 1570x200x95 | 50000 | 7319 | 80 | 80+ | 4000 | 12,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- EMG tmin-25 – Emergency version 1 hour for use down to -25°C (except T5 49, 54, 80W, LED)
- EM3 tmin-25 – Emergency version 3 hours for use down to -25°C (except T5 49, 54, 80W, LED)
- tmin-25 – For use in temperatures down to -25°C
- tmin-40 – For use in temperatures down to -40°C
- MW – MW sensor
- PZN – ZN primer to enhance the corrosion resistance;
- OP LT70 – Opal diffuser with 70% light transmission
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

Caelum LED2x2100 D135 T840 OP LT70



CAELUM ANGLE

**Corner-Mounted
Luminaire for High
Risk of Damage**



| | |
|-----------------------|--|
| Type: | A range of technical luminaires designed to withstand extreme vandalism in public areas. |
| Specification: | Luminaires are available with opal polycarbonate diffuser fastened in a steel frame. The frame is fitted into the body with stainless vandal-resistant screws. Steel luminaire housing, white polyester powder painted. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Corner-mounted. |
| Application: | For use in areas with high risk of damage: prisons, subways and public transport stations, underground garages, psychiatric medical or other areas. |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Caelum 136 U02 ANGLE OP | 1x36 (G13) | 1270x200x165 | 10,7 | 42 |
| Caelum 236 U03 ANGLE OP | 2x36 (G13) | 1270x200x165 | 10,7 | 84 |
| Caelum 158 U04 ANGLE OP | 1x58 (G13) | 1570x200x165 | 13,7 | 67 |
| Caelum 258 U05 ANGLE OP | 2x58 (G13) | 1570x200x165 | 13,7 | 134 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Caelum 128 U06 ANGLE OP | 1x28 (G5) | 1270x230x165 | 10,2 | 30 |
| Caelum 228 U07 ANGLE OP | 2x28 (G5) | 1270x230x165 | 10,2 | 60 |
| Caelum 154 U08 ANGLE OP | 1x54 (G5) | 1270x230x165 | 10,2 | 58 |
| Caelum 254 U09 ANGLE OP | 2x54 (G5) | 1270x230x165 | 10,2 | 116 |
| Caelum 135 U10 ANGLE OP | 1x35 (G5) | 1570x230x165 | 12,7 | 38 |
| Caelum 235 U11 ANGLE OP | 2x35 (G5) | 1570x230x165 | 12,7 | 75 |
| Caelum 149 U12 ANGLE OP | 1x49 (G5) | 1570x230x165 | 12,7 | 53 |
| Caelum 249 U13 ANGLE OP | 2x49 (G5) | 1570x230x165 | 12,7 | 104 |
| Caelum 180 U14 ANGLE OP | 1x80 (G5) | 1570x230x165 | 12,7 | 85 |
| Caelum 280 U15 ANGLE OP | 2x80 (G5) | 1570x230x165 | 12,7 | 170 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Caelum LED1x2100 D141 T840 ANGLE OP LT70 | 1270x230x165 | 50000 | 2085 | 23 | 80+ | 4000 | 10,50 |
| Caelum LED1x3000 D142 T840 ANGLE OP LT70 | 1270x230x165 | 50000 | 2928 | 32 | 80+ | 4000 | 10,50 |
| Caelum LED2x2100 D143 T840 ANGLE OP LT70 | 1270x230x165 | 50000 | 4170 | 44 | 80+ | 4000 | 10,50 |
| Caelum LED2x3000 D144 T840 ANGLE OP LT70 | 1270x230x165 | 50000 | 5855 | 64 | 80+ | 4000 | 10,50 |
| Caelum LED1x2700 D145 T840 ANGLE OP LT70 | 1570x230x165 | 50000 | 2607 | 29 | 80+ | 4000 | 12,50 |
| Caelum LED1x3700 D146 T840 ANGLE OP LT70 | 1570x230x165 | 50000 | 3660 | 40 | 80+ | 4000 | 12,50 |
| Caelum LED2x2700 D147 T840 ANGLE OP LT70 | 1570x230x165 | 50000 | 5213 | 54 | 80+ | 4000 | 12,50 |
| Caelum LED2x3700 D148 T840 ANGLE OP LT70 | 1570x230x165 | 50000 | 7319 | 80 | 80+ | 4000 | 12,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

| | | | |
|-------------|--|---------|--|
| HF | - High Frequency control gear | tmin-40 | - For use in temperatures down to -40°C |
| SDIM | - Switch-control/dimming | MW | - MW sensor |
| DALI | - DALI ballast / driver | PZN | - ZN primer to enhance the corrosion resistance; |
| EMG | - Emergency version 1 hour | OP LT70 | - Opal diffuser with 70% light transmission |
| EM3 | - Emergency version 3 hours | RAL | - RAL colours |
| EMG tmin-25 | - Emergency version 1 hour for use down to -25°C (except T5 49, 54, 80W, LED) | T830 | - Colour temperature 3000K |
| EM3 tmin-25 | - Emergency version 3 hours for use down to -25°C (except T5 49, 54, 80W, LED) | T840 | - Colour temperature 4000K |
| tmin-25 | - For use in temperatures down to -25°C | | |

CAELUM R LED

Surface Mounted Luminaire for High Risk of Damage



Type: A range of technical luminaires designed to withstand extreme vandalism in public areas.

Specification: Luminaires are available with opal polycarbonate diffuser fastened in a steel frame. The frame is fitted into the body with stainless vandal-resistant screws. Steel housing, white polyester powder painted. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to ceiling of any type.

Application: For use in areas with high risk of damage: prisons, subways and public transport stations, underground garages, psychiatric medical or other areas.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Caelum R LED1x1300 D030 T840 OP LT70 | 330x330x100 | 50000 | 1252 | 14 | 80+ | 4000 | 4,50 |
| Caelum R LED1x1800 D031 T840 OP LT70 | 330x330x100 | 50000 | 1759 | 20 | 80+ | 4000 | 4,50 |

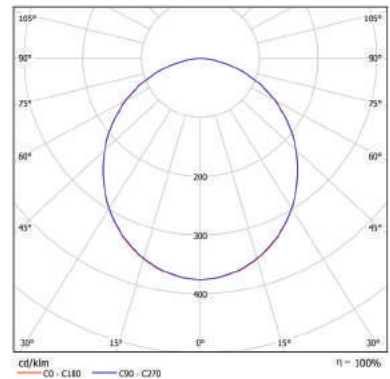
* Tolerance range for optical and electrical data: $\pm 10\%$

Versions with compact fluorescent tubes can be produced on request

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- EM3 – Emergency version 3 hours
- tmin-25 – For use in temperatures down to -25°C
- MW – MW sensor
- PZN – ZN primer to enhance the corrosion resistance
- OP LT70 – Opal diffuser with 70% light transmission
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CAELUM R LED1X1800 D031 T840 OP LT70



CAELUM W LED

Wall-Mounted Luminaire
for High Risk of Damage



Type: A range of technical luminaires designed to withstand extreme vandalism in public areas.

Specification: Luminaires are available with opal polycarbonate diffuser fastened in a steel frame. The frame is fitted into the body with stainless vandal-resistant screws. Steel housing, white polyester powder painted. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface luminaire designed to be fixed to wall of any type.

Application: For use in areas with high risk of damage: prisons, subways and public transport stations, underground garages, psychiatric medical or other areas.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Caelum W LED1x1100 D032 T840 OP LT70 | 360x220x135 | 50000 | 1043 | 12 | 80+ | 4000 | 4,50 |
| Caelum W LED1x1500 D033 T840 OP LT70 | 360x220x135 | 50000 | 1464 | 17 | 80+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

Versions with compact fluorescent tubes can be produced on request

Options available on request:

| | | | |
|---------|---|---------|---|
| SDIM | - Switch-control/dimming | PZN | - ZN primer to enhance the corrosion resistance |
| DALI | - DALI ballast / driver | OP LT70 | - Opal diffuser with 70% light transmission |
| EM3 | - Emergency version 3 hours | RAL | - RAL colours |
| tmin-25 | - For use in temperatures down to -25°C | T830 | - Colour temperature 3000K |
| MW | - MW sensor | T840 | - Colour temperature 4000K |
| ASW | - Anti-vandal switch | | |

EMERGENCY LIGHTING



EMERGENCY MONITORING SYSTEM (EMS)

IP20 C ENEC



Description: In buildings where there is a need to install a large number of independent emergency lighting fittings, there is always a problem related to the process of controlling the condition of the fittings. Manual controlling of the fittings condition requires a lot of time and may sometimes disturb the regular use of the premises. Emergency monitoring system, designed to monitor the operation of emergency fittings with independent power sources, was created to solve this problem. Modern solutions of the system allow the configuration and control of the fittings condition from one place.

Specification: Standard monitoring of 750 fittings with the possibility of extension up to 4 000 fittings. LCD monitor displays current system state. RJ45 socket for communication via any web browser. White polycarbonate body. Smaller monitoring system can be chosen for medium and small size buildings to monitor up to 500 fittings. Comes without LCD monitor, control unit mounts on TH-35 (DIN-3) rail.

Installation: Communication is run through **UTP CAT6** cable. Distance between the control unit and the furthest fitting – 1200 m, with possibility to extend the communication cable distance by another 1200m using the signal amplifier.

Application: For informational purposes when electricity supply fails.

COMPONENTS OF THE SYSTEM:



Nova NG EMS addressing emergency modules with unique individual address for magnetic and electronic ballasts. One-hour or three-hour standby operation with a recharge time of 24 hours. Addresses assigned by factory, no programmer is needed.

Green diode signals correct battery charge.

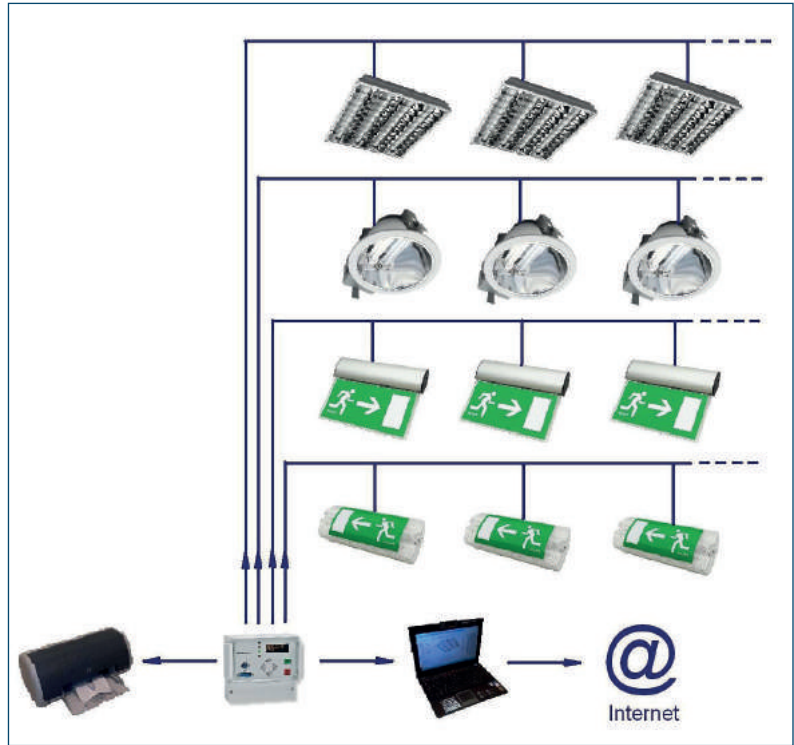
Red diode signals abnormal functioning of the fitting.

Ambient temperature: 0°C to +55°C.

Tmin -25°C, option available on request.

FUNCTIONS OF THE SYSTEM:

Constant communication between the central unit and the lighting fittings
 Running auto tests
 Running manual tests
 Registering test results (memory of central unit – minimum 1 year)
 Emergency operation blockade
 Dividing the monitored fittings into groups
 Reporting any abnormalities
 Connecting with a PC computer through an interface and creating visual presentations with the help of a special software
 Test calendar configured to suit individual needs
 Works with BMS (Building Management System)



Lighting fittings working under the system have unique addresses and are connected to Emergency system control unit with a communication cable. The fittings communicate with the central unit reporting any abnormalities which are signaled on the central unit display with LED diodes placed on the central unit panel. Each fitting connected to the system may have an individual description in the control unit. When abnormalities, related to the operation of a fitting, occur, information about the type of abnormality and the location of the fitting appears on the display of the control unit. The system allows manual testing of a single fitting. Central unit's software allows dividing the fittings into groups which enables one to run tests only chosen groups of fittings. Apart from manual tests, the following auto-tests are carried out:

TEST A – a short test, recommended every 30 days (LST-EN 50172) – checks the following parameters:

- Enforcing emergency operation of the fitting for 5 minutes
- Control of battery power discharge
- Control of minimum voltage of battery

TEST B – a long test recommended every 360 days (LST-EN 50172) – checks the following parameters:

- Enforcing emergency operation of the fitting for the time programmed for each fitting (1, 2, 3 h)
- Control of battery power discharge
- Control of minimum voltage of battery
- Control of the condition of battery

The frequency of running tests A and B may be programmed according to the needs of the user. There is a possibility of programming the tests with exact dates, when they should be carried out. Long tests B should be run when the premises are not used within 24 hours after finishing the test. This time is needed for the recharging of the batteries discharged during the long test.

Test results are stored in the memory of the central unit and may be viewed on the central unit's display. Test reports may be printed with any printer.

CENTRAL BATTERY LOW VOLTAGE SYSTEM (CEBLV)



Description:

Today the LED light fittings are more popular in the emergency lighting systems due to their greater durability, lower energy consumption and lower temperature. In addition, the increasing requirements concerning the safety, reliability and independence of the systems and lowering costs of system installation created demand for a new system of **CEBLV** central battery which combines the above-mentioned functions.

Thanks to the applied output voltage of 24V DC compliant with protection class III, the **CEBLV** system ensures the power supply to consumers with Safety Extra-Low Voltage (SELV). The application of the SELV voltage ensures high level of safety of servicing of the system and its elements compliant with the currently valid regulations.

Furthermore, the system allows the safe performance of fire-extinguishing operation despite the existence of voltage at end circuits. The **CEBLV** system combines the advantages of decentralised autonomous systems with the comfort of using central battery systems.

The system is equipped with its own batteries which capacity depends on the load and the necessary time of power supply preservation in the supply mode. The system is particularly adapted to be used within a single fire zone.

The application of low voltage has another basic advantage, as it allows for the usage of a set of accumulators with smaller dimensions, and thus to reduce the dimensions of the cabinet and enable the installation of the system in places where one cannot fit a large-size central battery system.

The **CEBLV** unit can be powered with two kinds of voltage: 230V AC and 216V DC. This allows to connect the device to the central battery systems as substations without the necessity to install internal batteries. This functionality enables the usage of the system in buildings which require the central battery system and safety voltage in areas particularly exposed to electrical shocks.

MODULE CONTROLLER

The system's module controller has a large touch panel enabling both the current reading of the status of the system, circuits and fittings, and the introduction of all settings and parameters of the system with the use of the user interface.

The statuses are displayed in both graphic and text form. Using module controller one can assign a name to the fitting that will clearly help to identify the fittings installed in the system. It has a non-volatile memory storing all events and test results

for the minimum period of 2 years, there is a menu with language selection options, system configuration and event log are saved on a SD card, normally in-built Ethernet interface enabling remote control of the system via the Internet, signalisation of the system status, automatic adding of fittings, configuration of the working modes and controls for every fitting.

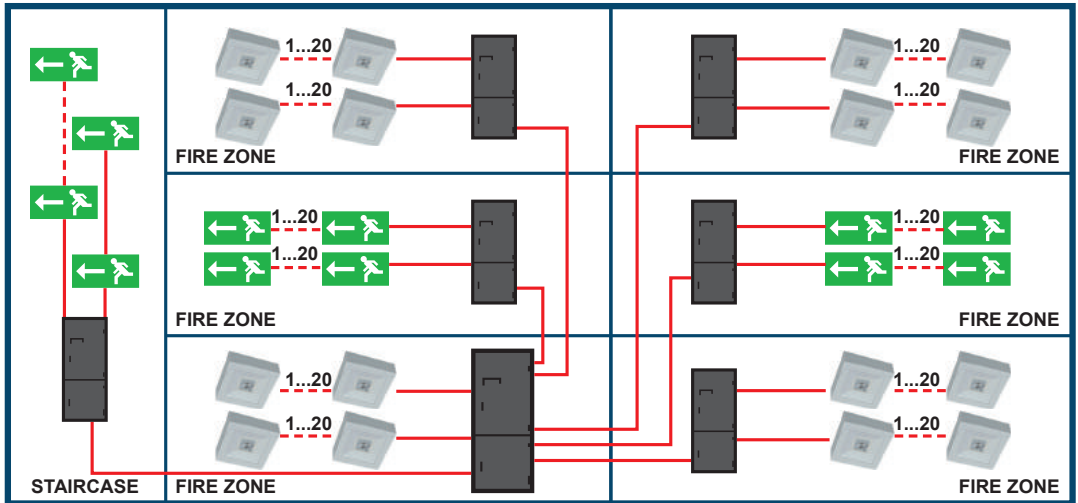
Touch Controller enables remote control of practically unlimited number of units from one central point. The controller ensures remote view, configuration and reading of events of every unit of the connected CEBLV system unit.



AVAILABLE FUNCTIONS IN THE TOUCH CONTROLLER:

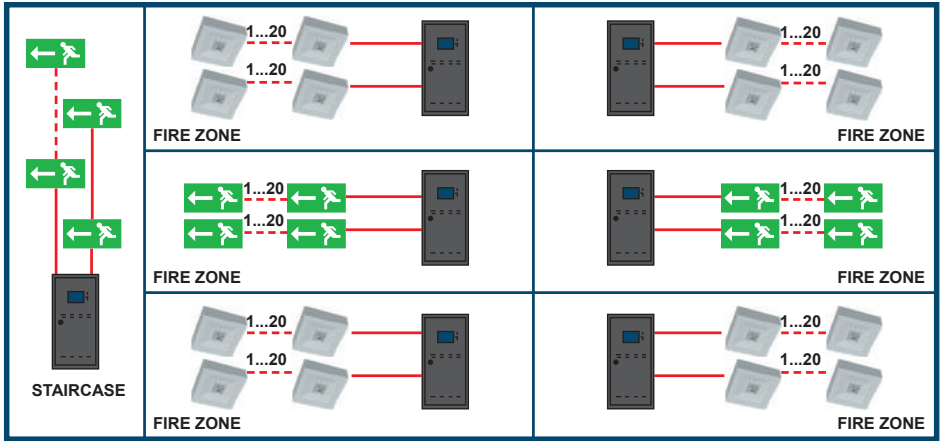
- Start of the function test/ battery test
- System blockade on/off
- Access to the controller is secured by password
- Reading of the status of individual systems
- Status of the circuits
- Status of the fittings
- Programing of test schedule
- View of events in the system
- Programming of the working mode of the circuit/fitting

COMPARISON OF DIFFERENT POWER SUPPLY CONCEPTS: CONVENTIONAL AND DECENTRALISED



| EVENT | RESULT |
|---|---|
| Failure of the main station | Failure of the entire emergency lighting system |
| Failure of cabling, main station – substation | Failure of the entire substation |
| Damage at the end circuit insulation | Shock threat to the service crew |

CEBLV -24V
central battery
system



| EVENT | RESULT |
|---|--|
| Failure of the main station | No central system |
| Failure of cabling, main station – substation | Every system is independent, failure only in the fire zone |
| Damage at the end circuit insulation | Minimal shock threat, SELV |

New Automatic Technology

The conventional installation of systems requires the specification of the work modes of individual circuits as early as the design phase. Any potential changes or mistakes can be very costly. In order to eliminate the above-mentioned inconveniences a new fully automatic technology controlling and steering every fitting in the circuit introduced.

This technology enables the installation of fittings working in three modes: constant, switching and switching-dimming within one circuit. The fittings are programmed and controlled via power supply cabling. The applied technology does not require a dedicated communication cabling. This technology is possible with the use of appropriate address modules in the fittings. These modules are normally installed in fittings dedicated to the **CEBLV** system. Each address module has a unique address with the help of which it is clearly identifiable in the system.

Advantages of New Automatic Technology

Installation of fittings working in different modes: light, dark, switching, switching-dimming within one circuit which provides such benefits as, shorter length of cables, reduction of the number of circuits, lower installation costs, possibility of changes in the work mode of every lamp in the future.

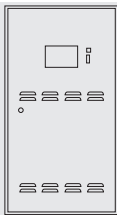


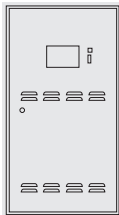
Conventional installation differs from New Automatic Technology in the following aspects, only one kind of fitting work at the end circuit, higher costs of installation, higher costs of later changes.

The **CEBLV** is normally equipped with the Ethernet plug which enables remote view of the status and configuration of the system via www site. With this solution almost everyone can remotely control the system without the necessity to purchase specialist software. It is sufficient to install an Internet browser. In order to connect the system to the Internet one should connect the system to the existing structural network in the building where it is installed. Every unit, circuit and fitting can be monitored via the website. The access to the website is secured by a password.

Vast installations with many systems can be supervised in one central point with the use of the optional software. The software integration involves the connection to the existing structural network (LAN).

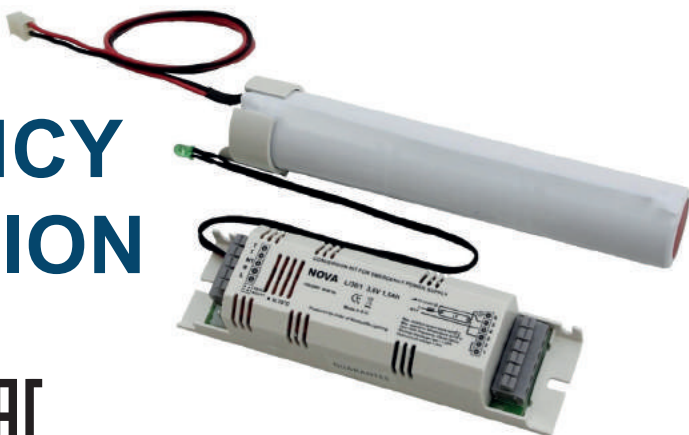
Available remote functions are, start of function test/battery test, system blockade on/off, printout of errors, status of the system, status of the circuits, status of fittings.

LIST OF CABINETS

| Technical data | CEBLV -12Ah | CEBLV -24Ah | CEBLV -33Ah | CEBLV -52Ah |
|--|---|---|---|---|
| Protection class: I Ingress protection: IP 20 DC voltage: 24V +/- 30% Operating temperature: - 5°C to 30°C |  |  |  |  |
| Power supply voltage | AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20% | AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20% | AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20% | AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20% |
| Battery capacity | 12 Ah | 24 Ah | 33 Ah | 52 Ah |
| Maximum power load | | | | |
| 1h | 123W | 219W | 263W | 288W |
| 2h | 70W | 142W | 154W | 288W |
| 3h | 49W | 102W | 110W | 219W |
| 8h | 21W | 47W | 51W | 106W |
| Number of circuits | 4 | 4 | 4 | 4 |
| Maximum circuit load | 72 W | 72 W | 72 W | 72 W |
| Terminal connectors [mm ²] | | | | |
| Power supply | 2.5 | 2.5 | 2.5 | 2.5 |
| Circuit connector | 2.5 | 2.5 | 2.5 | 2.5 |
| CAN bus | 2.5 | 2.5 | 2.5 | 2.5 |
| 24V out power connector | 2.5 | 2.5 | 2.5 | 2.5 |
| Potential inputs | 2.5 | 2.5 | 2.5 | 2.5 |
| Phase loss sensor connector | 2.5 | 2.5 | 2.5 | 2.5 |
| Blockade connector | 2.5 | 2.5 | 2.5 | 2.5 |
| Potential-free inputs | 2.5 | 2.5 | 2.5 | 2.5 |
| Potential-free outputs | | | | |
| Cable culverts | 9 x M20 6 x M16 | 9 x M20 6 x M16 | 1 x M25 9 x M20 6 x M16 | 1 x M25 9 x M20 6 x M16 |
| Weight | 15.5 kg | 24.3 kg | 31.1kg | 48.3 kg |
| Dimensions [mm] | 472x266x140 | 639x266x140 | 800x400x170 | 800x400x170 |

| Maximum power of the circuit | Cross-section [mm ²] | Length [m] |
|------------------------------|----------------------------------|------------|
| 24 W | 1.5 | 142 |
| | 2.5 | 236 |
| 48 W | 1.5 | 71 |
| | 2.5 | 118 |
| 72 W | 1.5 | 48 |
| | 2.5 | 79 |

NOVA NG EMERGENCY CONVERSION KIT



Type: A range of Conversion kits for magnetic and electronic ballasts. One or three hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +55°C.

Specification: White polycarbonate body with LED status sensor. High – temperature nickel-cadmium batteries. Conversion kit is boxed individually.

Installation: Designed to be fixed into fluorescent lighting fixtures.

Application: For informational purposes when electricity supply fails.

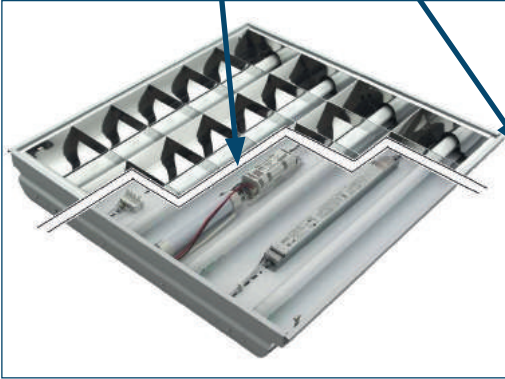
| Type | Description | Battery type | Overall inverter dimensions, mm | Weight, kg |
|-----------------|---------------------------|--------------|---------------------------------|------------|
| NOVA NG 6-36 1h | For CCG and ECG 8-36 W 1h | 3.6V/1.5Ah | 157x42x36 | 0,35 |
| NOVA NG 6-36 3h | For CCG and ECG 8-36 W 3h | 3.6V/4.0Ah | 157x42x36 | 0,75 |
| NOVA NG 6-58 1h | For CCG and ECG 8-58 W 1h | 4.8V/1.5Ah | 157x42x36 | 0,45 |
| NOVA NG 6-58 3h | For CCG and ECG 8-58 W 3h | 4.8V/4.0Ah | 157x42x36 | 0,85 |
| NOVA NG 6-80 1h | For CCG and ECG 8-80 W 1h | 6.0V/1.5Ah | 157x42x36 | 0,5 |
| NOVA NG 6-80 3h | For CCG and ECG 8-80 W 3h | 6.0V/4.0Ah | 157x42x36 | 0,95 |

Options available on request:

- AUT – The fitting is equipped with an autonomous testing system
- EMS – The emergency monitoring system
- Tmin -25 – Suitable for Ta -25°C to +55°C

| Type | T8 | | | | | | | | | T5 | | | | | CFL (G24d-2,G24d-3,G24q-2,G24q3) | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------------|-----|-----|--|
| | 18W | 36W | 38W | 58W | 14W | 24W | 21W | 39W | 28W | 54W | 35W | 49W | 80W | 13W | 18W | 26W | 32W | |
| Conversion kit/ Power | | | | | | | | | | | | | | | | | | |
| NOVA NG 6-36 1h | + | + | | | + | + | + | | + | | | | | + | + | + | | |
| NOVA NG 6-36 3h | + | + | | | + | + | + | | + | | | | | + | + | + | | |
| NOVA NG 6-58 1h | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | |
| NOVA NG 6-58 3h | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | |
| NOVA NG 6-80 1h | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NOVA NG 6-80 3h | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

One-hour or three-hour standby operation Emergency conversion kits can be factory fitted. See Products descriptions in Option list below.



PASSAT
T8
Recessed
Luminaire
with
Glossy V-
shaped
Louvre



| | |
|------------------------|--|
| Type: | Traditional recessed T8 luminaire with glossy V-shaped louvre. A classic design for general commercial lighting. |
| Specifications: | A glossy V-shaped louvre with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Number of cross blades is optional from 5 upto 11 for better glare protection. Two types of fully enclosed white painted steel bodies to choose from: standard (Passat 418 A06 RGD) or economic (Passat 418 A06). Wiring is concealed and not visible from ground level. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |

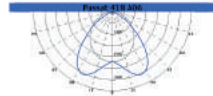
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Passat 218 D75 | 2x18 (G13) | 598x299x65 | 2,4 | 42 |
| Passat 418 A06 | 4x18 (G13) | 598x598x72 | 2,6 | 84 |
| Passat 418 A07 RGD | 4x18 (G13) | 598x598x72 | 3,7 | 84 |
| Passat 236 D76 | 2x36 (G13) | 1234x299x65 | 3,9 | 84 |
| Passat 436 D77 | 4x36 (G13) | 1234x598x65 | 7,2 | 168 |

Options available on request:

- HF- High Frequency control gear
- DM- Dimmable ballasts
- EH1- Emergency version 1 hour
- EH2- Emergency version 2 hour
- EH3- Emergency version 3 hour
- HTB- 4 way terminal block for loop feed and ease of wiring
- STB- 5 way terminal block for loop feed and ease of wiring

- MAT- Matt reflector
- 7CR- Louvre with 7 cross blades
- 9CR- Louvre with 9 cross blades
- 11CR- Louvre with 11 cross blades
- WIE- 2-poles connector (subject to minimum order)
- RCF- Low Power Factor

| PASSAT 418 A06 | | Factor of reflected Ceiling Illuminance (%) | | | | | | | | | | | | | | | | |
|----------------|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Beam width | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
| 0,6 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0,8 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 |
| 1,0 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
| 1,2 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| 1,5 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |
| 2 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| 3 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 |
| 4 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 |
| 5 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 |



ARA LED

LED Emergency Escape Lighting



Ara R 3HLED C365 LER



Ara S 3HLED C380 LOA



Ara S 3HLED C380 LER

Type: Recessed (Ara R LED) and surface (Ara S LED) LED emergency lighting luminaire for both mains and emergency operations. One or three hours standby operation with a recharge time of 12 hours. Ambient temperature: 0°C to +40°C.

Specification: White polycarbonate body with LED status indicator. Power LED 1W, 3W or 6W diode. High-temperature nickel-metal hydride battery. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be recessed mounted into plasterboard ceiling or surface mounted.

Application: For emergency escape routes and open areas.

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara R 1HLED C364 LER | For escape route | 1x1W (LED) | 1 | Non-maintained | Ø100(80)x37 | 0,60 |
| Ara R 3HLED C365 LER | For escape route | 1x1W (LED) | 3 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 1PLED C366 LER | For escape route | 1x1W (LED) | 1 | Maintained | Ø100(80)x37 | 0,60 |
| Ara R 3PLED C367 LER | For escape route | 1x1W (LED) | 3 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R CEbled C368 LER | For escape route | 1x1W (LED) | x | Central battery | Ø100(80)x37 | 0,60 |
| Ara R 1HLED C364 LOA | For open areas | 1x1W (LED) | 1 | Non-maintained | Ø100(80)x37 | 0,60 |
| Ara R 3HLED C365 LOA | For open areas | 1x1W (LED) | 3 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 1PLED C366 LOA | For open areas | 1x1W (LED) | 1 | Maintained | Ø100(80)x37 | 0,60 |
| Ara R 3PLED C367 LOA | For open areas | 1x1W (LED) | 3 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R CEbled C368 LOA | For open areas | 1x1W (LED) | x | Central battery | Ø100(80)x37 | 0,60 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara R 1HLED C369 LER | For escape route | 1x3W (LED) | 1 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 3HLED C370 LER | For escape route | 1x3W (LED) | 3 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 1PLED C371 LER | For escape route | 1x3W (LED) | 1 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R 3PLED C372 LER | For escape route | 1x3W (LED) | 3 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R CEBLED C373 LER | For escape route | 1x3W (LED) | x | Central battery | Ø100(80)x37 | 0,60 |
| Ara R 1HLED C369 LOA | For open areas | 1x3W (LED) | 1 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 3HLED C370 LOA | For open areas | 1x3W (LED) | 3 | Non-maintained | Ø100(80)x37 | 0,65 |
| Ara R 1PLED C371 LOA | For open areas | 1x3W (LED) | 1 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R 3PLED C372 LOA | For open areas | 1x3W (LED) | 3 | Maintained | Ø100(80)x37 | 0,65 |
| Ara R CEBLED C373 LOA | For open areas | 1x3W (LED) | x | Central battery | Ø100(80)x37 | 0,60 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|----------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara R 1HLED C374 LOA | For open areas | 1x6W (LED) | 1 | Non-maintained | Ø100(80)x37 | 0,75 |
| Ara R 3HLED C375 LOA | For open areas | 1x6W (LED) | 3 | Non-maintained | Ø100(80)x37 | 1,10 |
| Ara R 1PLED C376 LOA | For open areas | 1x6W (LED) | 1 | Maintained | Ø100(80)x37 | 0,75 |
| Ara R 3PLED C377 LOA | For open areas | 1x6W (LED) | 3 | Maintained | Ø100(80)x37 | 1,10 |
| Ara R CEBLED C378 LOA | For open areas | 1x6W (LED) | x | Central battery | Ø100(80)x37 | 0,75 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara S 1HLED C379 LER | For escape route | 1x1W (LED) | 1 | Non-maintained | Ø202x58 | 1,35 |
| Ara S 3HLED C380 LER | For escape route | 1x1W (LED) | 3 | Non-maintained | Ø202x58 | 1,40 |
| Ara S 1PLED C381 LER | For escape route | 1x1W (LED) | 1 | Maintained | Ø202x58 | 1,35 |
| Ara S 3PLED C382 LER | For escape route | 1x1W (LED) | 3 | Maintained | Ø202x58 | 1,40 |
| Ara S CEBLED C383 LER | For escape route | 1x1W (LED) | x | Central battery | Ø202x58 | 1,35 |
| Ara S 1HLED C379 LOA | For open areas | 1x1W (LED) | 1 | Non-maintained | Ø202x58 | 1,35 |
| Ara S 3HLED C380 LOA | For open areas | 1x1W (LED) | 3 | Non-maintained | Ø202x58 | 1,40 |
| Ara S 1PLED C381 LOA | For open areas | 1x1W (LED) | 1 | Maintained | Ø202x58 | 1,35 |
| Ara S 3PLED C382 LOA | For open areas | 1x1W (LED) | 3 | Maintained | Ø202x58 | 1,40 |
| Ara S CEBLED C383 LOA | For open areas | 1x1W (LED) | x | Central battery | Ø202x58 | 1,35 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara S 1HLED C384 LER | For escape route | 1x3W (LED) | 1 | Non-maintained | Ø202x58 | 1,35 |
| Ara S 3HLED C385 LER | For escape route | 1x3W (LED) | 3 | Non-maintained | Ø202x58 | 1,50 |
| Ara S 1PLED C386 LER | For escape route | 1x3W (LED) | 1 | Maintained | Ø202x58 | 1,35 |
| Ara S 3PLED C387 LER | For escape route | 1x3W (LED) | 3 | Maintained | Ø202x58 | 1,50 |
| Ara S CEBLED C388 LER | For escape route | 1x3W (LED) | x | Central battery | Ø202x58 | 1,35 |
| Ara S 1HLED C384 LOA | For open areas | 1x3W (LED) | 1 | Non-maintained | Ø202x58 | 1,35 |
| Ara S 3HLED C385 LOA | For open areas | 1x3W (LED) | 3 | Non-maintained | Ø202x58 | 1,50 |
| Ara S 1PLED C386 LOA | For open areas | 1x3W (LED) | 1 | Maintained | Ø202x58 | 1,35 |
| Ara S 3PLED C387 LOA | For open areas | 1x3W (LED) | 3 | Maintained | Ø202x58 | 1,50 |
| Ara S CEBLED C388 LOA | For open areas | 1x3W (LED) | x | Central battery | Ø202x58 | 1,35 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|----------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Ara S 1HLED C389 LOA | For open areas | 1x6W (LED) | 1 | Non-maintained | Ø202x58 | 1,50 |
| Ara S 3HLED C390 LOA | For open areas | 1x6W (LED) | 3 | Non-maintained | Ø202x58 | 1,75 |
| Ara S 1PLED C391 LOA | For open areas | 1x6W (LED) | 1 | Maintained | Ø202x58 | 1,50 |
| Ara S 3PLED C392 LOA | For open areas | 1x6W (LED) | 3 | Maintained | Ø202x58 | 1,75 |
| Ara S CEBLED C393 LOA | For open areas | 1x6W (LED) | x | Central battery | Ø202x58 | 1,50 |

Options available on request:

- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system
- LER – Optics for escape route
- LOA – Optics for open areas
- Tmin -25 – Suitable for Ta -25°C to +55°C (for surface S version)
- IP65 – Face side IP65 (for recessed R version), full IP65 (for surface S version)

ESCAPE ROUTE ILLUMINATION (1X1W VERSION)

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2.50 | 5.50 | 12.00 |
| 3.00 | 6.50 | 13.50 |
| 3.50 | 7.00 | 15.00 |
| 4.00 | 7.50 | 17.00 |

OPEN AREA ILLUMINATION (1X1W VERSION)

| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 2.50 | 3.00 | 6.50 |
| 3.00 | 3.00 | 7.50 |
| 3.50 | 3.50 | 8.00 |
| 4.00 | 3.50 | 8.50 |
| 4.50 | 4.00 | 8.50 |
| 5.00 | 4.50 | 9.00 |
| 6.00 | 4.50 | 8.00 |

ESCAPE ROUTE ILLUMINATION (1X3W VERSION)

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2.50 | 6.00 | 15.00 |
| 3.00 | 7.00 | 15.50 |
| 3.50 | 8.00 | 17.00 |
| 4.00 | 8.50 | 19.00 |
| 4.50 | 9.50 | 20.50 |
| 5.00 | 10.50 | 22.00 |
| 6.00 | 11.50 | 25.00 |

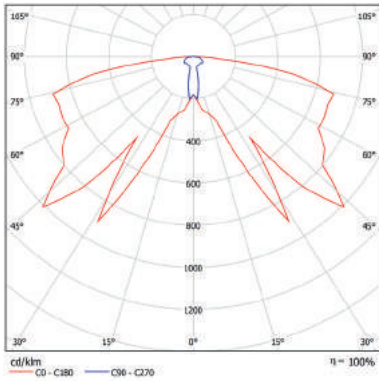
OPEN AREA ILLUMINATION (1X3W VERSION)

| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 2.50 | 3.50 | 8.00 |
| 3.00 | 3.50 | 8.50 |
| 3.50 | 4.50 | 9.50 |
| 4.00 | 4.50 | 10.50 |
| 4.50 | 5.50 | 11.00 |
| 5.00 | 5.50 | 12.50 |
| 6.00 | 6.00 | 13.50 |

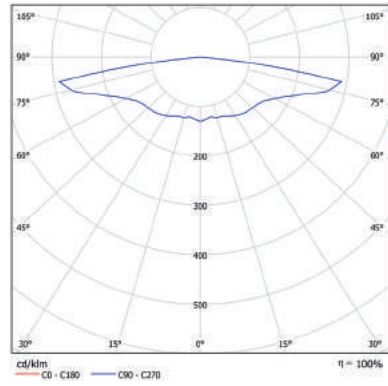
OPEN AREA ILLUMINATION (1X6W VERSION)

| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 2.50 | 4.00 | 8.50 |
| 3.00 | 4.00 | 9.50 |
| 3.50 | 4.50 | 10.50 |
| 4.00 | 5.00 | 11.00 |
| 4.50 | 5.50 | 12.00 |
| 5.00 | 6.00 | 13.00 |
| 6.00 | 7.00 | 14.00 |

Ara R 3HLED C365 LER



Ara R 3PLED C367 LOA



CORRIDOR LED

LED Emergency Escape Lighting



CEEC



Corridor R 3HLED U24 LOA



Corridor S 3HLED C322 LER



Corridor S 3HLED C322 LOA

Type: Recessed (Corridor R LED) or surface (Corridor S LED) square shape LED emergency lighting luminaire for both mains and emergency operations. One or three hour standby operation with a recharge time of 12 hours.
Ambient temperature: 0°C to +40°C.

Specification: White polycarbonate body with LED status indicator. Power LED 1 or 3W diode. High-temperature nickel-metal hydride battery.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be surfaced mounted or recessed mounted into plasterboard ceiling.

Application: For emergency escape routes and open areas.

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Corridor R 1HLED U22 LER | For escape route | 1x1W (LED) | 1 | Non-maintained | 95x95x48 | 0,60 |
| Corridor R 3HLED U24 LER | For escape route | 1x1W (LED) | 3 | Non-maintained | 95x95x48 | 0,65 |
| Corridor R 1PLED U25 LER | For escape route | 1x1W (LED) | 1 | Maintained | 95x95x48 | 0,60 |
| Corridor R 3PLED U27 LER | For escape route | 1x1W (LED) | 3 | Maintained | 95x95x48 | 0,65 |
| Corridor R CEBLED C319 LER | For escape route | 1x1W (LED) | x | Central battery | 95x95x48 | 0,60 |
| Corridor R 1HLED U22 LOA | For open areas | 1x1W (LED) | 1 | Non-maintained | 95x95x48 | 0,60 |
| Corridor R 3HLED U24 LOA | For open areas | 1x1W (LED) | 3 | Non-maintained | 95x95x48 | 0,65 |
| Corridor R 1PLED U25 LOA | For open areas | 1x1W (LED) | 1 | Maintained | 95x95x48 | 0,60 |
| Corridor R 3PLED U27 LOA | For open areas | 1x1W (LED) | 3 | Maintained | 95x95x48 | 0,65 |
| Corridor R CEBLED C319 LOA | For open areas | 1x1W (LED) | x | Central battery | 95x95x48 | 0,60 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Corridor R 1HLED J07 LER | For escape route | 1x3W (LED) | 1 | Non-maintained | 95x95x48 | 0,65 |
| Corridor R 3HLED J09 LER | For escape route | 1x3W (LED) | 3 | Non-maintained | 95x95x48 | 0,70 |
| Corridor R 1PLED J10 LER | For escape route | 1x3W (LED) | 1 | Maintained | 95x95x48 | 0,65 |
| Corridor R 3PLED J12 LER | For escape route | 1x3W (LED) | 3 | Maintained | 95x95x48 | 0,70 |
| Corridor R CEBLED C320 LER | For escape route | 1x3W (LED) | x | Central battery | 95x95x48 | 0,65 |
| Corridor R 1HLED J07 LOA | For open areas | 1x3W (LED) | 1 | Non-maintained | 95x95x48 | 0,65 |
| Corridor R 3HLED J09 LOA | For open areas | 1x3W (LED) | 3 | Non-maintained | 95x95x48 | 0,70 |
| Corridor R 1PLED J10 LOA | For open areas | 1x3W (LED) | 1 | Maintained | 95x95x48 | 0,65 |
| Corridor R 3PLED J12 LOA | For open areas | 1x3W (LED) | 3 | Maintained | 95x95x48 | 0,70 |
| Corridor R CEBLED C320 LOA | For open areas | 1x3W (LED) | x | Central battery | 95x95x48 | 0,65 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Corridor S 1HLED C321 LER | For escape route | 1x1W (LED) | 1 | Non-maintained | 132x132x55 | 0,45 |
| Corridor S 3HLED C322 LER | For escape route | 1x1W (LED) | 3 | Non-maintained | 132x132x55 | 0,50 |
| Corridor S 1PLED C323 LER | For escape route | 1x1W (LED) | 1 | Maintained | 132x132x55 | 0,45 |
| Corridor S 3PLED C324 LER | For escape route | 1x1W (LED) | 3 | Maintained | 132x132x55 | 0,50 |
| Corridor S CEBLED C325 LER | For escape route | 1x1W (LED) | x | Central battery | 132x132x55 | 0,45 |
| Corridor S 1HLED C321 LOA | For open areas | 1x1W (LED) | 1 | Non-maintained | 132x132x55 | 0,45 |
| Corridor S 3HLED C322 LOA | For open areas | 1x1W (LED) | 3 | Non-maintained | 132x132x55 | 0,50 |
| Corridor S 1PLED C323 LOA | For open areas | 1x1W (LED) | 1 | Maintained | 132x132x55 | 0,45 |
| Corridor S 3PLED C324 LOA | For open areas | 1x1W (LED) | 3 | Maintained | 132x132x55 | 0,50 |
| Corridor S CEBLED C325 LOA | For open areas | 1x1W (LED) | x | Central battery | 132x132x55 | 0,45 |

| Name | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------------------|------------------|------------|-----------------------|--------------------|--------------------------------|------------|
| Corridor S 1HLED C326 LER | For escape route | 1x3W (LED) | 1 | Non-maintained | 132x132x55 | 0,65 |
| Corridor S 3HLED C327 LER | For escape route | 1x3W (LED) | 3 | Non-maintained | 132x132x55 | 0,70 |
| Corridor S 1PLED C328 LER | For escape route | 1x3W (LED) | 1 | Maintained | 132x132x55 | 0,65 |
| Corridor S 3PLED C329 LER | For escape route | 1x3W (LED) | 3 | Maintained | 132x132x55 | 0,70 |
| Corridor S CEBLED C330 LER | For escape route | 1x3W (LED) | x | Central battery | 132x132x55 | 0,65 |
| Corridor S 1HLED C326 LOA | For open areas | 1x3W (LED) | 1 | Non-maintained | 132x132x55 | 0,65 |
| Corridor S 3HLED C327 LOA | For open areas | 1x3W (LED) | 3 | Non-maintained | 132x132x55 | 0,70 |
| Corridor S 1PLED C328 LOA | For open areas | 1x3W (LED) | 1 | Maintained | 132x132x55 | 0,65 |
| Corridor S 3PLED C329 LOA | For open areas | 1x3W (LED) | 3 | Maintained | 132x132x55 | 0,70 |
| Corridor S CEBLED C330 LOA | For open areas | 1x3W (LED) | x | Central battery | 132x132x55 | 0,65 |

Options available on request:

- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system
- LER – Optics for escape route
- LOA – Optics for open areas

ESCAPE ROUTE ILLUMINATION (1X1W VERSION)

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2.50 | 6.00 | 14.00 |
| 3.00 | 6.50 | 15.50 |
| 3.50 | 7.00 | 17.00 |
| 4.00 | 6.50 | 18.00 |

OPEN AREA ILLUMINATION (1X1W VERSION)

| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 2.50 | 3.00 | 7.00 |
| 3.00 | 3.50 | 7.50 |
| 3.50 | 3.50 | 8.50 |
| 4.00 | 4.00 | 9.50 |
| 4.50 | 4.00 | 10.00 |
| 5.00 | 4.00 | 10.50 |
| 6.00 | 4.00 | 10.50 |

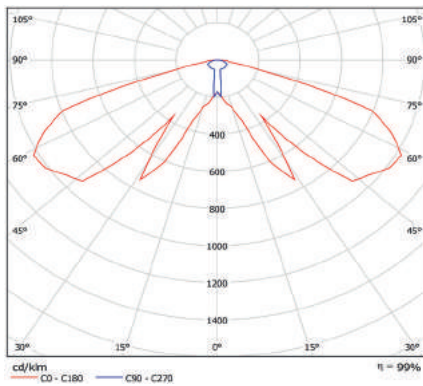
ESCAPE ROUTE ILLUMINATION (1X3W VERSION)

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2.50 | 7.50 | 17.00 |
| 3.00 | 8.00 | 18.50 |
| 3.50 | 9.00 | 20.00 |
| 4.00 | 9.50 | 22.00 |
| 4.50 | 10.00 | 23.50 |
| 5.00 | 10.50 | 25.00 |
| 6.00 | 10.50 | 27.00 |

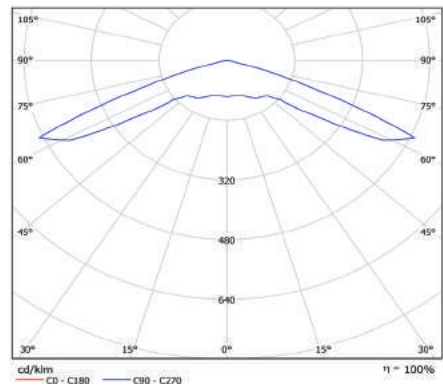
OPEN AREA ILLUMINATION (1X3W VERSION)

| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 2.50 | 3.50 | 8.50 |
| 3.00 | 4.00 | 9.50 |
| 3.50 | 4.00 | 10.50 |
| 4.00 | 5.00 | 11.00 |
| 4.50 | 5.50 | 12.50 |
| 5.00 | 5.50 | 13.50 |
| 6.00 | 6.00 | 15.00 |

Corridor R 3HLED U24 LER

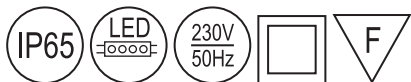


Corridor R 3HLED U24 LOA



APOLLO HIGH LED

LED IP65 Emergency Escape Lighting



CE EAC



Type: A range of IP65 LED emergency lighting luminaires for high mounting applications.
Operations: mains and emergency.
One or three hour standby operation with a recharge time of 12 hours.
Ambient temperature: 0°C to +40°C.

Specification: Durable transparent polycarbonate diffuser.
White polycarbonate body with LED status indicator. Power LED 1W diodes. High-temperature nickel-metal hydride battery.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: For emergency escape routes and open areas.

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-------------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| Apollo HIGH 1HLED R38 | 3x1W (LED) | 1 | IP65 | Non-maintained | 356x136x79 | 1,20 |
| Apollo HIGH 3HLED R40 | 3x1W (LED) | 3 | IP65 | Non-maintained | 356x136x79 | 1,40 |
| Apollo HIGH 1PLED R41 | 3x1W (LED) | 1 | IP65 | Maintained | 356x136x79 | 1,20 |
| Apollo HIGH 3PLED R43 | 3x1W (LED) | 3 | IP65 | Maintained | 356x136x79 | 1,40 |
| Apollo HIGH CEBLED C331 | 3x1W (LED) | x | IP65 | Central battery | 356x136x79 | 1,20 |

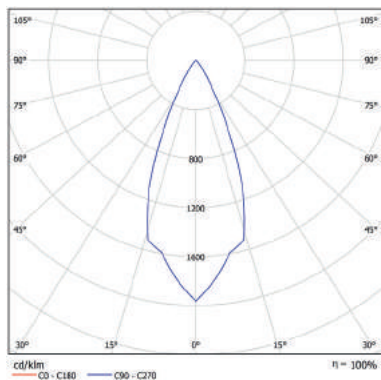
Options available on request:

- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system
- Tmin -25 Suitable for Ta -25°C to +55°C

OPEN AREA ILLUMINATION

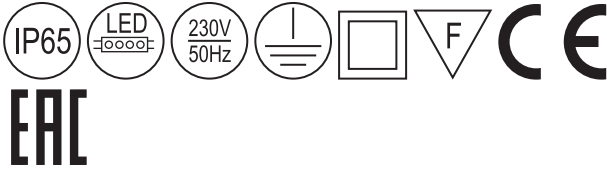
| Height, m | Mounting distance from the wall, m (0,5 lx) | Mounting distance between the fittings, m (0,5 lx) |
|-----------|---|--|
| 8.00 | 5.00 | 9.00 |
| 8.50 | 5.00 | 9.00 |
| 9.00 | 5.00 | 9.00 |
| 9.50 | 6.00 | 9.50 |
| 10.00 | 6.00 | 10.00 |
| 10.50 | 6.00 | 10.50 |
| 11.00 | 6.00 | 10.50 |
| 11.50 | 7.00 | 11.00 |
| 12.00 | 7.00 | 11.00 |
| 13.00 | 7.00 | 12.00 |
| 14.00 | 7.00 | 12.00 |

Apollo HIGH 3PLED R43



NORTHER LED

LED IP65 Emergency Escape Lighting



Type: A range of IP65 LED emergency lighting luminaires for outdoor applications.
 Operations: mains and emergency.
 One or three hour standby operation with a recharge time of 12 hours.
 Ambient temperature: 0°C to +40°C.

Specification: Clear glass diffuser.
 Stainless steel white painted body with LED status indicator. Power LED 1W diodes. High-temperature nickel-metal hydride battery.
 Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

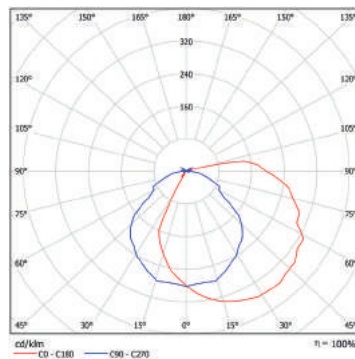
Application: For emergency escape routes and open areas.

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|---------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| Norther 1HLED C332 | 3x1W (LED) | 1 | IP65 | Non-maintained | 222x77x227 | 1,50 |
| Norther 3HLED C333 | 3x1W (LED) | 3 | IP65 | Non-maintained | 222x77x227 | 1,65 |
| Norther 1PLED C334 | 3x1W (LED) | 1 | IP65 | Maintained | 222x77x227 | 1,50 |
| Norther 3PLED C335 | 3x1W (LED) | 3 | IP65 | Maintained | 222x77x227 | 1,65 |
| Norther CEBLED C336 | 3x1W (LED) | x | IP65 | Central battery | 222x77x227 | 1,50 |

Options available on request:

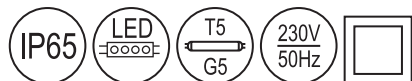
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system
- Tmin -25 – Suitable for Ta -25°C to +55°C

Norther 3HLED C333



APOLLO T5/LED

IP65 Emergency Exit Sign



Type: A range of IP65 Emergency Luminaires for both mains and emergency operations. One or three hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: Durable transparent polycarbonate diffuser.
White polycarbonate body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| APOLLO 1H18 B91 | 1x8 (T5, G5) | 1 | IP65 | Non-maintained | 356x136x79 | 1,20 |
| APOLLO 3H18 B93 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 356x136x79 | 1,20 |
| APOLLO 1P18 B94 | 1x8 (T5, G5) | 1 | IP65 | Maintained | 356x136x79 | 1,20 |
| APOLLO 3P18 B96 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 356x136x79 | 1,40 |
| APOLLO CEB C347 | 1x8 (T5, G5) | x | IP65 | Central battery | 356x136x79 | 1,20 |

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| Apollo 1HLED G27 | 1,2W LED | 1 | IP65 | Non-maintained | 356x136x79 | 1,15 |
| Apollo 3HLED G29 | 1,2W LED | 3 | IP65 | Non-maintained | 356x136x79 | 1,20 |
| Apollo 1PLED G30 | 1,2W LED | 1 | IP65 | Maintained | 356x136x79 | 1,10 |
| Apollo 3PLED G32 | 1,2W LED | 3 | IP65 | Maintained | 356x136x79 | 1,20 |

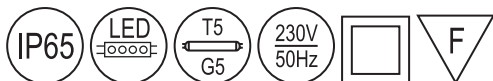
Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV (only for LED version)
- EMS – The emergency monitoring system
- OP – Opalised PC diffuser (for LED version)
- Tmin -25 – Suitable for Ta -25°C to +55°C

SCORPIUS T5/LED



IP65 Emergency Exit Sign



CE EAC

Type: Surface-mounted/suspended double-sided exit box for both mains and emergency operations. One or three hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: Durable polycarbonate opal diffuser.
White polycarbonate body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or suspended.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| SCORPIUS 1H18 C10 | 1x8 (T5, G5) | 1 | IP65 | Non-maintained | 356x136x219 | 1,45 |
| SCORPIUS 3H18 C12 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 356x136x219 | 1,60 |
| SCORPIUS 1P18 C13 | 1x8 (T5, G5) | 1 | IP65 | Maintained | 356x136x219 | 1,50 |
| SCORPIUS 3P18 C15 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 356x136x219 | 1,65 |
| SCORPIUS CEB C346 | 1x8 (T5, G5) | x | IP65 | Central battery | 356x136x219 | 1,45 |

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|--------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| SCORPIUS 1H G39 OP | 1,2W LED | 1 | IP65 | Non-maintained | 356x136x219 | 1,40 |
| SCORPIUS 3H G41 OP | 1,2W LED | 3 | IP65 | Non-maintained | 356x136x219 | 1,50 |
| SCORPIUS 1P G42 OP | 1,2W LED | 1 | IP65 | Maintained | 356x136x219 | 1,40 |
| SCORPIUS 3P G44 OP | 1,2W LED | 3 | IP65 | Maintained | 356x136x219 | 1,65 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV (only for LED version)
- EMS – The emergency monitoring system
- Tmin -25 – Suitable for Ta -25°C to +55°C

TAURUS DELUXE

LED Emergency Exit Sign



Type: Surface/suspended double-sided LED exit sign for both mains and emergency operations. One or three hour operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 30 m.

Specification: Durable transparent PMMA diffuser.
Extruded aluminium silver body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling/walls of any type, including flammable surfaces, or suspended.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|---------------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| TAURUS 1H G05 Deluxe | 1,2W LED | 1 | IP41 | Non-maintained | 315x48x243 | 1,25 |
| TAURUS 3H G07 Deluxe | 1,2W LED | 3 | IP41 | Non-maintained | 315x48x243 | 1,30 |
| TAURUS 1P G08 Deluxe | 1,2W LED | 1 | IP41 | Maintained | 315x48x243 | 1,20 |
| TAURUS 3P G10 Deluxe | 1,2W LED | 3 | IP41 | Maintained | 315x48x243 | 1,25 |
| TAURUS CEBLED C339 Deluxe | 1,2W LED | x | IP41 | Central battery | 315x48x243 | 1,25 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system

CAPELLA

LED Emergency Exit Sign



Type: Recessed double-sided LED exit sign for both mains and emergency operations. One or three hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 30 m.

Specification: Durable transparent PMMA diffuser.
Silver painted steel body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|---------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| CAPELLA 1H G17 | 1,2W LED | 1 | IP20 | Non-maintained | 355x110x210 | 1,60 |
| CAPELLA 3H C24 | 1,2W LED | 3 | IP20 | Non-maintained | 355x110x210 | 1,65 |
| CAPELLA 1P G19 | 1,2W LED | 1 | IP20 | Maintained | 355x110x210 | 1,60 |
| CAPELLA 3P C25 | 1,2W LED | 3 | IP20 | Maintained | 355x110x210 | 1,65 |
| CAPELLA CEBLED C340 | 1,2W LED | x | IP20 | Central battery | 355x110x210 | 1,60 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system

HELM

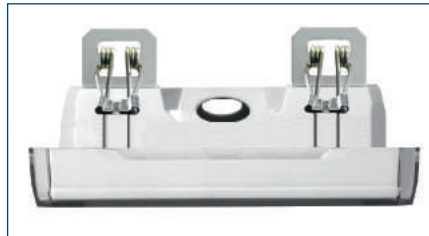
LED Emergency Escape Lighting/Emergency Exit Sign



CE EAC



Helm LED Exit blade



Helm LED recessed

Type: Wall/ceiling mounted one or double sided LED exit sign or escape light for both mains and emergency operations. One or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: Transparent polycarbonate diffuser.
White polycarbonate body with LED status indicator. High – temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Helm 1HLED C356 | 1W LED | 1 | IP65 | Non-maintained | 276x143x44 | 0,50 |
| Helm 3HLED C357 | 1W LED | 3 | IP65 | Non-maintained | 276x143x44 | 0,55 |
| Helm 1PLED C358 | 1W LED | 1 | IP65 | Maintained/NM | 276x143x44 | 0,50 |
| Helm 3PLED C359 | 1W LED | 3 | IP65 | Maintained/NM | 276x143x44 | 0,55 |
| Helm CEBLED C362 | 1W LED | x | IP65 | Central battery | 276x143x44 | 0,50 |
| Helm 1PLED C360 | 3W LED | 1 | IP65 | Maintained/NM | 276x143x44 | 0,60 |
| Helm 3PLED C361 | 3W LED | 3 | IP65 | Maintained/NM | 276x143x44 | 0,65 |
| Helm CEBLED C363 | 3W LED | x | IP65 | Central battery | 276x143x44 | 0,60 |

Options available on request:

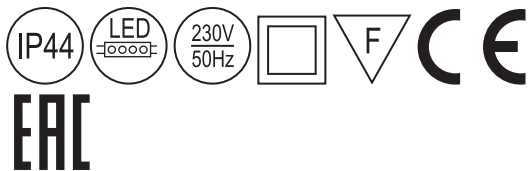
- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV (only for LED version)
- EMS – The emergency monitoring system
- Tmin -25 – Suitable for Ta -25°C to +55°C

Accessories:

- Helm LED Exit blade
- Helm LED Recessed MTG kit

ZONDA

LED Emergency Exit Sign



Type: Wall/ceiling mounted double-sided LED exit sign for both mains and emergency operations. One or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 30 m.

Specification: Opal or transparent polycarbonate diffuser. Transparent diffuser (2CLR) with additional illumination under the luminaire (double optics system).
White polycarbonate body with LED status indicator. High – temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or suspended.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit (“Exit”, “Left” and “Right”)

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|------------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Zonda 1HLED C348 OP | 1.2W LED | 1 | IP44 | Non-maintained | 310x41x250 | 1,00 |
| Zonda 3HLED C349 OP | 1.2W LED | 3 | IP44 | Non-maintained | 310x41x250 | 1,20 |
| Zonda 1PLED C350 OP | 1.2W LED | 1 | IP44 | Maintained/NM | 310x41x250 | 1,15 |
| Zonda 3PLED C351 OP | 1.2W LED | 3 | IP44 | Maintained/NM | 310x41x250 | 1,15 |
| Zonda CEBLED C352 OP | 1.2W LED | x | IP44 | Central battery | 310x41x250 | 1,00 |
| Zonda 1PLED C353 2CLR | 3.2W LED | 1 | IP44 | Maintained/NM | 310x41x250 | 1,15 |
| Zonda 3PLED C354 2CLR | 3.2W LED | 3 | IP44 | Maintained/NM | 310x41x250 | 1,20 |
| Zonda CEBLED C355 2CLR | 3.2W LED | x | IP44 | Central battery | 310x41x250 | 1,05 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV (only for LED version)
- EMS – The emergency monitoring system
- OP – Opal diffuser
- 2CLR – Transparent diffuser with additional illumination under the luminaire (double optics system)
- GC – Grey PC body

Accessories:

Zonda LED Wall MTG kit

NASHI

LED Emergency Exit Sign



CE EAC



Nashi R 3PLED C439

Type: Surface mounted or recessed double-sided exit sign for both mains and emergency operations. One or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: PMMA clear diffuser.
White polycarbonate body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or recessed.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

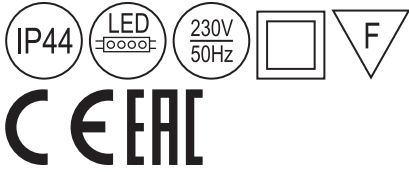
| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|---------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Nashi S 1HLED C431 | 1W LED | 1 | IP44 | Non-maintained | 299x43x206 | 1,00 |
| Nashi S 3HLED C432 | 1W LED | 3 | IP44 | Non-maintained | 299x43x206 | 1,20 |
| Nashi S 1PLED C433 | 1W LED | 1 | IP44 | Maintained | 299x43x206 | 1,15 |
| Nashi S 3PLED C434 | 1W LED | 3 | IP44 | Maintained | 299x43x206 | 1,20 |
| Nashi S CEBLED C435 | 1W LED | x | IP44 | Central battery | 299x43x206 | 1,00 |
| Nashi R 1HLED C436 | 1W LED | 1 | IP44 | Non-maintained | 328x62x206 | 1,00 |
| Nashi R 3HLED C437 | 1W LED | 3 | IP44 | Non-maintained | 328x62x206 | 1,20 |
| Nashi R 1PLED C438 | 1W LED | 1 | IP44 | Maintained | 328x62x206 | 1,15 |
| Nashi R 3PLED C439 | 1W LED | 3 | IP44 | Maintained | 328x62x206 | 1,20 |
| Nashi R CEBLED C440 | 1W LED | x | IP44 | Central battery | 328x62x206 | 1,00 |

Options available on request:

- | | | | | | |
|-----|---|--|-----|---|---|
| AUT | - | The fitting is equipped with an autonomous testing system | CLV | - | Fitting to low voltage central battery system CEBLV |
| CEB | - | The fitting is equipped with electronic AC/DC ballast compatible with any central battery system | EMS | - | The emergency monitoring system |

LEPUS

LED Emergency Exit Sign



Type: Wall mounted LED emergency exit sign for both mains and emergency operations. One or three hour standby operation with a recharge time of 12 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 30 m.

Specification: PMMA diffuser.
Grey polycarbonate body with LED status indicator. High – temperature nickel-metal hydride batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto walls, including flammable surfaces.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit (“Exit”, “Left” and “Right”)

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Lepus 1HLED J13 | 3.2W LED | 1 | IP44 | Non-maintained | 337x58x189 | 1,20 |
| Lepus 3HLED J15 | 3.2W LED | 3 | IP44 | Non-maintained | 337x58x189 | 1,25 |
| Lepus 1PLED J16 | 3.2W LED | 1 | IP44 | Maintained | 337x58x189 | 1,15 |
| Lepus 3PLED J18 | 3.2W LED | 3 | IP44 | Maintained | 337x58x189 | 1,20 |
| Lepus CEBLED C337 | 3.2W LED | x | IP44 | Central battery | 337x58x189 | 1,10 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV
- EMS – The emergency monitoring system

LEPORIS

LED Emergency Exit Sign



CE EAC



Leporis 3PLED J24 ROPE

Type: Ceiling mounted or suspended, LED emergency exit sign for both mains and emergency operations. One or three hour standby operation with a recharge time of 12 hours. Ambient temperature: 0°C to +40°C. Recognition distance 30 m.

Specification: PMMA diffuser. Grey polycarbonate body with LED status indicator. High-temperature nickel-metal hydride batteries. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling, including flammable surfaces. ROPE – for suspended mounting.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|--------------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Leporis 1HLED J19 ROPE | 3.2W LED | 1 | IP44 | Non-maintained | 337x72x1224(224) | 1,35 |
| Leporis 3HLED J21 ROPE | 3.2W LED | 3 | IP44 | Non-maintained | 337x72x1224(224) | 1,40 |
| Leporis 1PLED J22 ROPE | 3.2W LED | 1 | IP44 | Maintained | 337x72x1224(224) | 1,35 |
| Leporis 3PLED J24 ROPE | 3.2W LED | 3 | IP44 | Maintained | 337x72x1224(224) | 1,40 |
| Leporis CEBLED C338 ROPE | 3.2W LED | x | IP44 | Central battery | 337x72x1224(224) | 1,45 |
| Leporis 1HLED J19 | 3.2W LED | 1 | IP44 | Non-maintained | 337x72x224 | 1,40 |
| Leporis 3HLED J21 | 3.2W LED | 3 | IP44 | Non-maintained | 337x72x224 | 1,50 |
| Leporis 1PLED J22 | 3.2W LED | 1 | IP44 | Maintained | 337x72x224 | 1,35 |
| Leporis 3PLED J24 | 3.2W LED | 3 | IP44 | Maintained | 337x72x224 | 1,40 |
| Leporis CEBLED C338 | 3.2W LED | x | IP44 | Central battery | 337x72x224 | 1,40 |

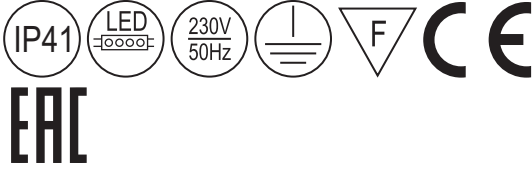
Options available on request:

ROPE – Suspended version
 TEST – Manual test button
 AUT – The fitting is equipped with an autonomous testing system

CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
 CLV – Fitting to low voltage central battery system
 CEBLV EMS – The emergency monitoring system

SEASON LED

LED Emergency Exit Sign



Type: Surface-mounted/suspended four-sided exit box for both mains and emergency operations. One or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: Opal PMMA body with LED status indicator. High-temperature nickel-cadmium batteries. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or suspended.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|-----------------------|-----------|-----------------------|----------|--------------------|--------------------------------|------------|
| Season 1HLED C341 OP | 3W LED | 1 | IP41 | Non-maintained | 240x240x240 | 1,65 |
| Season 3HLED C342 OP | 3W LED | 3 | IP41 | Non-maintained | 240x240x240 | 1,75 |
| Season 1PLED C343 OP | 3W LED | 1 | IP41 | Maintained | 240x240x240 | 1,95 |
| Season 3PLED C344 OP | 3W LED | 3 | IP41 | Maintained | 240x240x240 | 2,15 |
| Season CEBLED C345 OP | 3W LED | x | IP41 | Central battery | 240x240x240 | 1,65 |

Options available on request:

- TEST – Manual test button
- AUT – The fitting is equipped with an autonomous testing system
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- CLV – Fitting to low voltage central battery system CEBLV (only for LED version)
- EMS – The emergency monitoring system

LIBRA T5/LED

T5/LED IP65 Emergency Exit Sign



LIBRA 3PLED B234 OP

Type: A range of IP65 Emergency luminaires for both mains and emergency operations. Three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 20 m.

Specification: Transparent polycarbonate IP65 diffuser for T5, opal for LED.
White polycarbonate body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling or walls of any type, including flammable surfaces.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.



SPORT version is equipped with a special white painted steel protective grid for sport halls and others areas, where a high degree of protection is required. See option list.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| LIBRA 3H18 G11 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 350x120x75 | 1,35 |
| LIBRA 3P18 G12 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 350x120x75 | 1,35 |

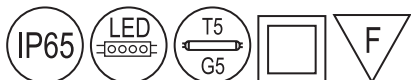
| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|---------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| LIBRA 3HLED B231 OP | 1.2 LED | 3 | IP65 | Non-maintained | 350x110x60 | 1,35 |
| LIBRA 3PLED B234 OP | 1.2 LED | 3 | IP65 | Maintained | 350x110x60 | 1,35 |

Options available on request:

- SPORT – protective grid
- TEST – test button
- CLR – clear diffuser (for LED version)

HYDRA T5/LED

T5/LED IP65 Emergency Exit Sign



CE EAC



Type: Surface-mounted/suspended double-sided exit box for both mains and emergency operations. Three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 20 m.

Specification: Polycarbonate IP65 opal diffuser.
White polycarbonate body with LED status indicator. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceiling of any type, including flammable surfaces, or suspended.

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

*Supplied with legend kit ("Exit", "Left" and "Right")

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|----------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| HYDRA 3H18 G13 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 350x120x200 | 1,65 |
| HYDRA 3P18 G14 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 350x120x200 | 1,65 |

| Name | Lamp (W) and holder | Operating time, hours | IP level | Illumination modes | Overall dimensions (LxWxH), mm | Weight, kg |
|------------------|---------------------|-----------------------|----------|--------------------|--------------------------------|------------|
| HYDRA 3HLED B237 | 1.2 LED | 3 | IP65 | Non-maintained | 350x110x220 | 1,65 |
| HYDRA 3PLED B240 | 1.2 LED | 3 | IP65 | Maintained | 350x110x220 | 1,65 |

Options available on request:

TEST – test button

NORTHCLIFFE
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SPOTLIGHTS

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PEGASUS LED

Recessed Adjustable LED Spotlight



CEAC



PEGASUS LED1X550 B119
T840 R24



PEGASUS LED2X550 B120 T840 R24



PEGASUS LED2X550 B120 T840 R24

Type: A range of recessed LED spotlights adjustable in all directions, providing unique interior design solutions. Ideal for areas requiring good colour rendering and high lighting levels.

Specification: Double-ring aluminium reflectors adjustable in all directions. Black powder coated steel housing with silver coated frame outside. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Ideal for all display lighting, showrooms and exhibitions.



Fittings with 50W halogen lamps can be directly replaced by PEGASUS fitting with 10W LED unit. Reflector of LED unit designed to prevent glare and the LED is hidden behind the metal bracket and the light beam is reflected, softened and focused to a beam angle of 8, 24 or 35 ° degrees.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Pegasus LED1x550 B119 T840 R24 | 190x190x173 | 30000 | 550 | 10 | 80+ | 4000 | 0,8 |
| Pegasus LED2x550 B120 T840 R24 | 375x190x173 | 30000 | 1100 | 20 | 80+ | 4000 | 1,6 |
| Pegasus LED3x550 B121 T840 R24 | 550x190x173 | 30000 | 1650 | 30 | 80+ | 4000 | 2,2 |
| Pegasus LED4x550 B122 T840 R24 | 350x350x173 | 30000 | 2200 | 40 | 80+ | 4000 | 3,0 |

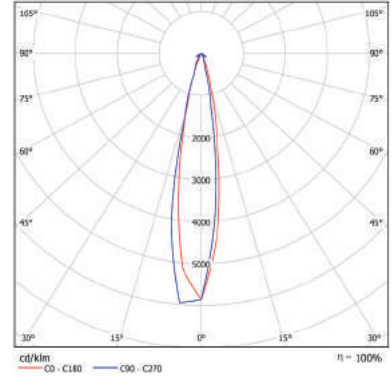
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Lamp AR111 LED1x550 T840 R24 | | 30000 | 550 | 10 | 80+ | 4000 | |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- RAL – RAL colours
- R24 – Reflector with 24° light beam angle
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

PEGASUS LED2X550 B120 T840 R24



PEGASUS

Recessed Adjustable Spotlight for Halogen Lamps



CEAC



PEGASUS 150 B29



PEGASUS 250 B30



PEGASUS 350 B31

Type: A range of elegant recessed adjustable spotlights for halogen lamp, providing unique interior design solutions. Ideal for areas requiring good colour rendering and high lighting levels.

Specification: Double-ring aluminium reflectors adjustable in all directions.
Black powder coated steel housing with silver coated frame outside.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

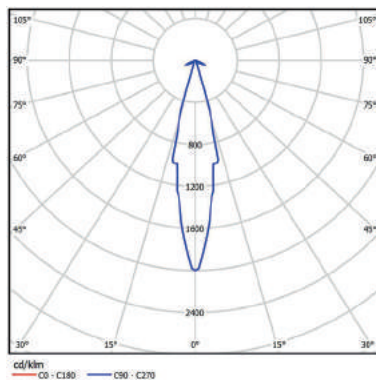
Application: Indoor. Ideal for all display lighting, showrooms and exhibitions.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Pegasus 150 B29 | 1x50W (GY6,35) | 190x190x173 | 0,8 | 50 |
| Pegasus 250 B30 | 2x50W (GY6,35) | 375x190x173 | 1,6 | 100 |
| Pegasus 350 B31 | 3x50W (GY6,35) | 550x190x173 | 2,2 | 150 |
| Pegasus 450 B32 | 4x50W (GY6,35) | 350x350x173 | 3,0 | 200 |

Options available on request:

- HV – Version with lamps for 220-240V AC voltage
- RAL – RAL colours

PEGASUS 150 B29



| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Pegasus HID 135 O97 HF | 1x35W (GX8,5) | 190x190x173 | 1,2 | 43,5 |
| Pegasus HID 170 O98 HF | 1x70W (GX8,5) | 190x190x173 | 1,2 | 80 |
| Pegasus HID 235 O99 HF | 2x35W (GX8,5) | 375x190x173 | 2 | 87 |
| Pegasus HID 270 P01 HF | 2x70W (GX8,5) | 375x190x173 | 2 | 160 |
| Pegasus HID 335 Q38 HF | 3x35W (GX8,5) | 550x190x173 | 3 | 130,5 |
| Pegasus HID 370 Q39 HF | 3x70W (GX8,5) | 550x190x173 | 3 | 240 |
| Pegasus HID 435 P02 HF | 4x35W (GX8,5) | 350x350x173 | 3,6 | 174 |
| Pegasus HID 470 P03 HF | 4x70W (GX8,5) | 350x350x173 | 3,6 | 320 |

CRATER

Square Recessed Spotlight



CRATER 1GU10 U01 ANGLE



CRATER 1GU10 U01

Type: A range of square recessed spotlights, providing unique interior design solutions.

Specification: Body in cast aluminium in white finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Ideal for all display lighting, showrooms and receptions.



Suitable for use with GU10 LED lamps.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Crater 1GU10 U01 | GU10 | 83x83(75x75)x110 | 0,13 | - |
| Crater 1GU10 U01 ANGLE | GU10 | 83x83(75x75)x110 | 0,13 | - |

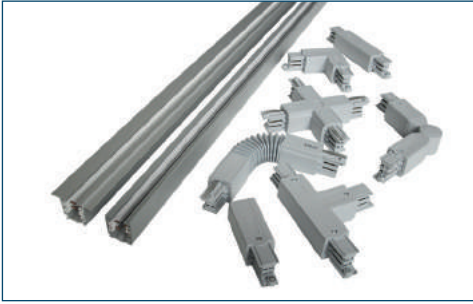
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Lamp 1GU10 LED1x400 T830 L120 | Ø50x58 | 30000 | 350 | 5 | 80+ | 3000 | 0,05 |
| Lamp 1GU10 LED1x400 T830 L90 | Ø50x58 | 30000 | 350 | 5 | 80+ | 3000 | 0,05 |
| Lamp 1GU10 LED1x400 T830 L30 | Ø50x58 | 30000 | 350 | 5 | 80+ | 3000 | 0,05 |
| Lamp 1GU10 LED1x400 T840 L120 | Ø50x58 | 30000 | 350 | 5 | 80+ | 4000 | 0,05 |
| Lamp 1GU10 LED1x400 T840 L90 | Ø50x58 | 30000 | 350 | 5 | 80+ | 4000 | 0,05 |
| Lamp 1GU10 LED1x400 T840 L30 | Ø50x58 | 30000 | 350 | 5 | 80+ | 4000 | 0,05 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

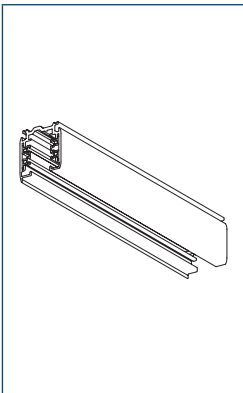
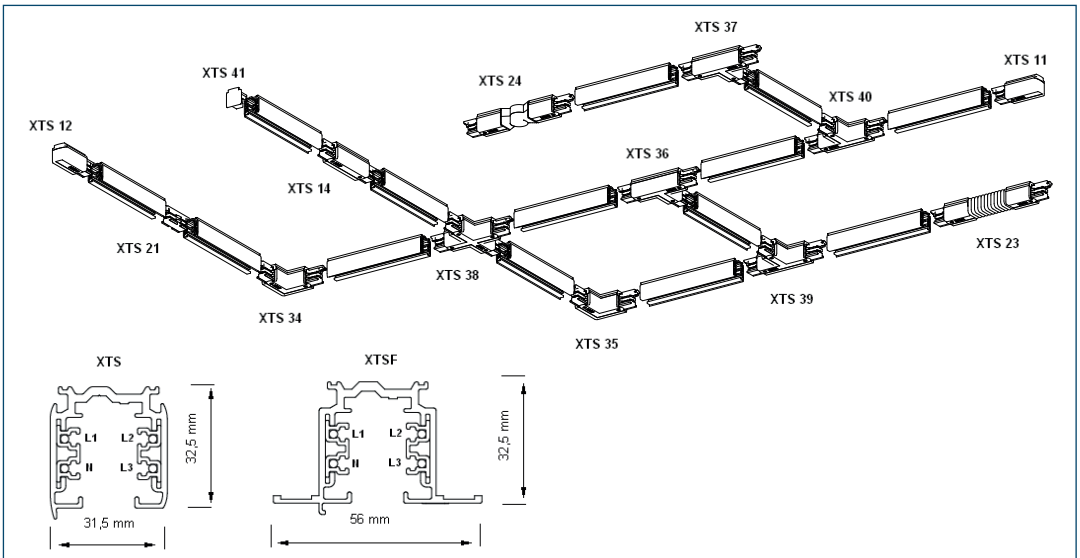
- L30 – with 30° beam angle
- L90 – with 90° beam angle
- L120 – with 120° beam angle
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

GLOBAL TRACK PRO



- the most popular three-circuit track
- circuits can be controlled individually
- easy to mount and change position
- modular solution, easy to extend/adapt
- suitable for department stores and shops
- recessed version also available

THE THREE-CIRCUIT LIGHTING TRACK CONNECTION DIAGRAM



Article: XTS 4100-4400

Surface track – three-circuit surface track.

Colour options: Natural anodized aluminium, white (RAL 9010), black (RAL 9005).

Dimensions:

XTS 4100 H32.5xW31.5xL1000 mm

XTS 4200 H32.5xW31.5xL2000 mm

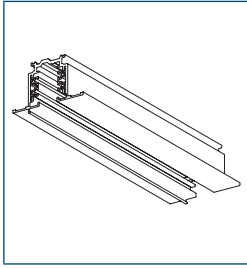
XTS 4300 H32.5xW31.5xL3000 mm

XTS 4400 H32.5xW31.5xL4000 mm

Possible connections:

1-phase, 3-circuit 230V AC, 16A, 3.7kVA IP 20

3-phase, 3-circuit 230/400V AC, 16A, 3x3.7kVA IP 20



Article: XTSF 4100-4400

Recessed track – three-circuit recessed track.

Colour options: Natural anodized aluminium, white (RAL 9010), black (RAL 9005).

Dimensions: H32.5xW56xL1000/2000/3000/4000 mm

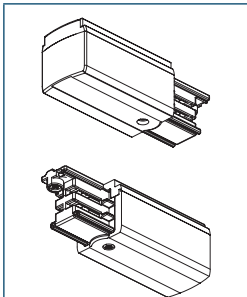
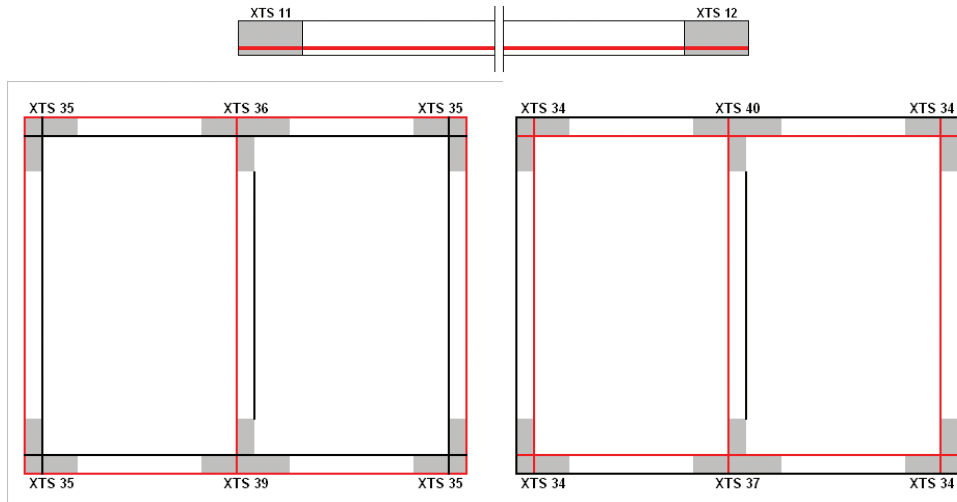
Possible connections:

1-phase, 3-circuit 230V AC, 16A, 3.7kVA IP 20

3-phase, 3-circuit 230/400V AC, 16A, 3x3.7kVA IP 20

Use of L – and T – accessories

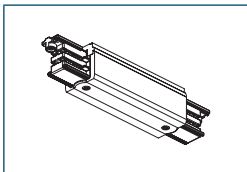
Red line indicates polarity ridge



Article: XTS 11, 12

End-feed – used to feed track from the end chosen, these could have 2 different polarity ridges.

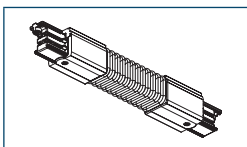
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 14

Middle-feed – used to feed track from the point chosen, these have 1 polarity ridge.

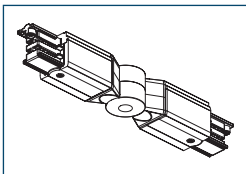
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 23

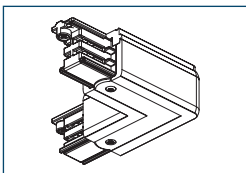
Flexible middle-feed – used to obtain angle needed, these have 1 polarity ridge.

Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



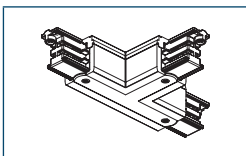
Article: XTS 24

Adjusting middle-feed – used to obtain angle needed, these have 1 polarity ridge.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



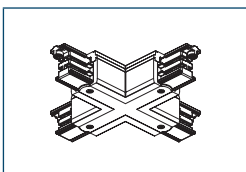
Article: XTS 34, 35

L-feed – used to make track turn, these could have 2 different polarity ridges.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



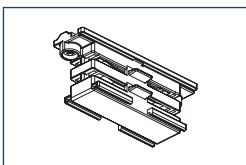
Article: XTS 36, 37, 39, 40

T-feed – allows distributing through 3 branches, these could have 4 different polarity ridges.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



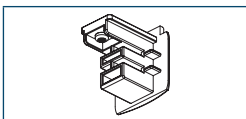
Article: XTS 38

X-feed – allows distributing through 4 branches, these have 1 polarity ridge.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



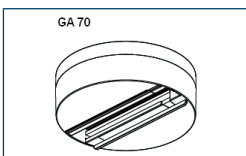
Article: XTS 21

Straight connector – allows connecting tracks together.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 41

End cap – used to secure live ends of track.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).

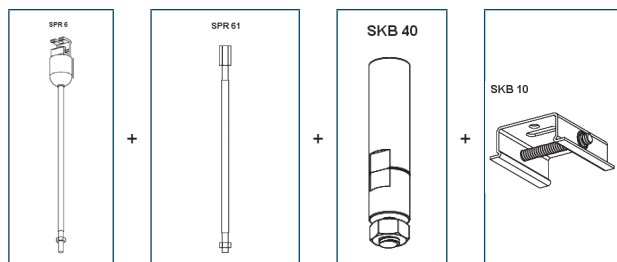


Article: GA 70

FIX point – used for single track light installation at point chosen.
Colour options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).

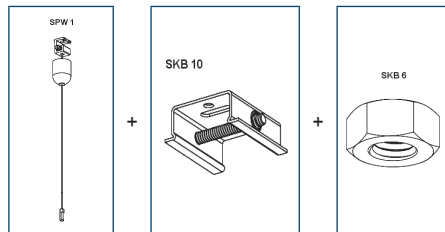
The suspension applications for track system

Available colours for parts: 1 grey (RAL 7040), 2 – black (RAL 9005), 3 – white (RAL 9010)



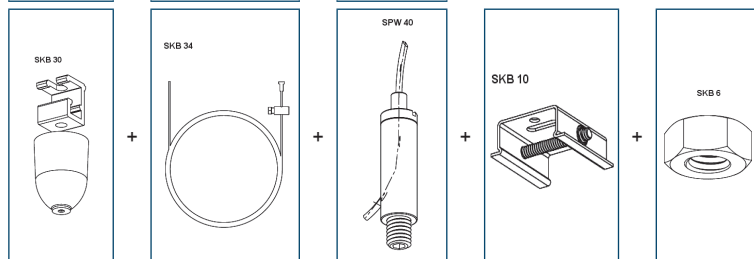
Rod suspension application with rod extension set or without:

SPR 6 1000mm
SPR 61 1000mm



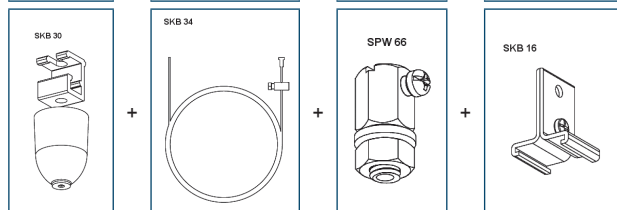
Wire suspension application with wire suspension set:

SPW 1 1500mm

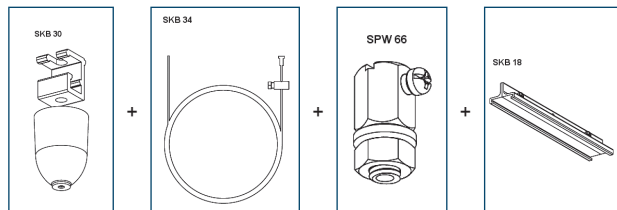


Wire suspension application with fast mounting "click" and optional wire length:

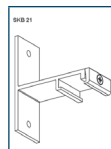
SKB 34-1 1500mm
SKB 34-1/3m 3000mm
SKB 34-1/5m 3000mm



Wire suspension application with "T" clamp and optional wire length



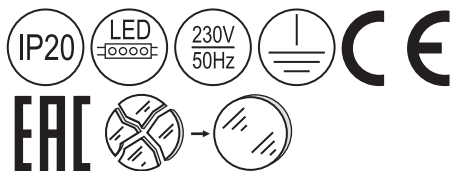
Wire suspension application with "T" clamp for track connection and optional wire length



Wall fixing bracket application:
SKB 21

CAPHEUS LED

Tracklight Luminaire with
Symmetric Reflector



CAPHEUS LED series are available in two *different sizes*

Type: A wide application LED tracklight series with symmetric reflector designed for the accent lighting. Tracklight system ensures flexibility by adjusting Luminaires according to your requirements. Luminaires could be removed or added without disconnecting system from power network.

Specification: Specular aluminium reflector available in R24 (standard), R15, R40 or R60 beam angles. Tempered glass cover.
White aluminium housing with track adaptor.
Luminaire is plastic-wrapped and packed separately.

Installation: Surface luminaire is designed to be fixed into 3-phase GLOBAL tracks.

Application: Indoor. Shops, department stores, public facilities, museums, etc.

| Name** | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Capheus AS LED1x2400 E047 T840 | 190xø110x180 | 50000 | 2324 | 21 | 80+ | 4000 | 1,40 |
| Capheus AS LED1x3200 E048 T840 | 190xø110x180 | 50000 | 3136 | 28 | 80+ | 4000 | 1,40 |
| Capheus AM LED1x4600 E049 T840 | 190xø130x210 | 50000 | 4586 | 42 | 80+ | 4000 | 1,50 |

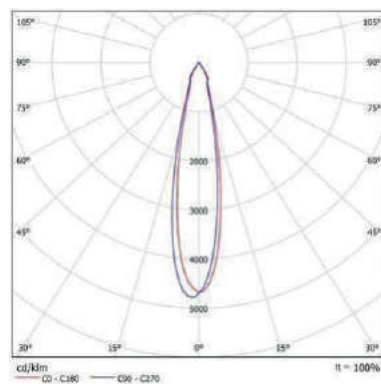
* Tolerance range for optical and electrical data: ±10 %

** Reflectors for different light beam angles available on request (see options list)

Options available on request:

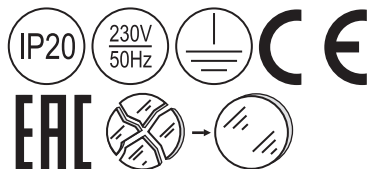
- R24 – Reflector with 24° light beam angle (standard version)
- R15 – Reflector with 15° light beam angle
- R40 – Reflector with 40° light beam angle
- R60 – Reflector with 60° light beam angle
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CAPHEUS S LED1X2500 C020 T840 R24



ATTIS

Recessed Adjustable Luminaire with Symmetric Reflector



Type: A discharge recessed luminaire designed for the accent lighting. Luminaire could be 120° far and wide adjusted without removing or disconnecting system from power network.

Specification: Specular aluminium reflector with tempered glass cover.
Die-cast aluminium housing, grey powder coated. Protection degree IP20.
Luminaire is plastic-wrapped and packed separately.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Shops, department stores, public facilities, museums, etc.



Can be equipped with electronic, dimmable or DALI ballast and independent gear box. For more check option list.

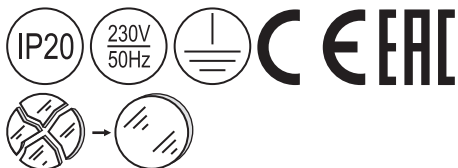
| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Attis 135 O86 R24 HF | 1x35W (G12) | Ø110x90x140(130) | 1,1 | 43 |
| Attis 170 O87 R24 HF | 1x70W (G12) | Ø110x90x140(130) | 1,2 | 78 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- DALI – DALI ballast
- R24 – Reflector with 24° light beam angle (standard)

ARES

Tracklight Luminaire with Symmetric Reflector



Type: A wide application discharge tracklight series with symmetric reflector designed for the accent lighting. Tracklight system ensures flexibility by adjusting luminaires according to your requirements.

Specification: Specular aluminium reflector with tempered glass cover.
Die-cast aluminium housing grey powder coated. Protection degree IP20.
Luminaire is plastic-wrapped and packed separately.

Installation: Surface luminaire designed to be fixed into tracks or at fixed points by removing track adaptor.

Application: Shops, department stores, public facilities, museums, etc.

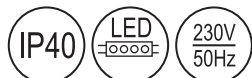
| Type | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Ares 135 I02 R24 HF | 1x35 W(G 12) | Ø110x140x100 | 1,1 | 43 |
| Ares 170 I03 R24 HF | 1x70 W(G 12) | Ø110x140x100 | 1,2 | 78 |

Options available on request:

- HF – High Frequency control gear
- R24 – Reflector with 24° light beam angle (standard)
- FXP – Fixed point installation box

AQUARIUS LED

Adjustable Circular LED Downlight



Type: A range of round adjustable circular LED downlights for accent lighting applications.

Specification: Aluminium faceted reflector with tempered glass. Light beam 60°. Body in cast aluminium in white finish. Removable gearbox with thermoplastic body. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

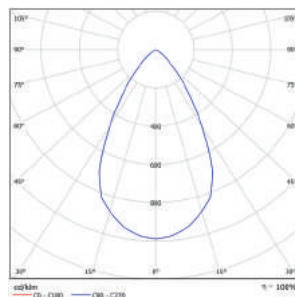
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Aquarius LED1x1600 D323 T840 CLR | Ø185(177)x150 | 50000 | 1597 | 14 | 80+ | 4000 | 2,50 |
| Aquarius LED1x2300 D324 T840 CLR | Ø185(177)x150 | 50000 | 2216 | 21 | 80+ | 4000 | 2,50 |
| Aquarius LED1x3000 D325 T840 CLR | Ø185(177)x150 | 50000 | 2990 | 28 | 80+ | 4000 | 2,50 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- CLR – Clear glass
- R36 – Reflector with 36° light beam angle (subject to minimum quantity)
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- RAL – RAL colours

AQUARIUS LED1X3000 D325 T840 CLR



CANIS

Adjustable Circular Downlight for Discharge Lamps



Canis 170 O17

Type: A range of round adjustable downlights for metal halide lamps.

Specification: Aluminium reflector with tempered glass cover.
Body in cast aluminium in white finish, gearbox in black finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Type | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|----------------------------------|------------|------------------|
| Canis 135 O16 | 1x35W (G12) | Ø191(181)x160 | 2,65 | 44 |
| Canis 170 O17 | 1x70W (G12) | Ø191(181)x160 | 2,65 | 84 |

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- RAL – RAL colours

CORVUS LED

Adjustable Square LED Downlight



Type: A range of square adjustable LED downlights for accent lighting applications.

Specification: Aluminium faceted reflector with tempered glass. Light beam 60°. Body in cast aluminium in white finish. Removable gearbox with thermoplastic body. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

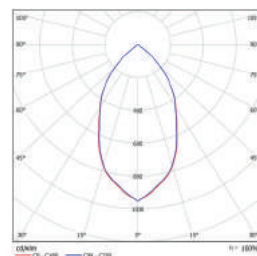
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Corvus LED1x1600 D326 T840 CLR | 145x145(138x138)x115 | 50000 | 1597 | 14 | 80+ | 4000 | 2,00 |
| Corvus LED1x2300 D327 T840 CLR | 145x145(138x138)x115 | 50000 | 2216 | 21 | 80+ | 4000 | 2,00 |
| Corvus LED1x3000 D328 T840 CLR | 145x145(138x138)x115 | 50000 | 2990 | 28 | 80+ | 4000 | 2,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- CLR – Clear glass
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- RAL – RAL colours

CORVUS LED1X3000 D328 T840 CLR



DELPHINUS

Adjustable Rectangular Downlight for Discharge Lamps



DELPHINUS 170 O18

Type: A range of rectangular adjustable downlights for discharge lamps.

Specification: Aluminium reflector with tempered glass cover.
Body in cast aluminium in white finish, gearbox in black finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------------------------------|------------|------------------|
| Delphinus 170 O18 | 1x70W (Rx7s) | 230x144 (220x134) | 2,6 | 84 |
| Delphinus 1150 O19 | 1x150W (Rx7s) | 230x144 (220x134) | 3,2 | 168 |

Options available on request:

- HF – High Frequency control gear
- TP – With built-in thermal protector
- TIM – Timed ignitor
- RAL – RAL colours

MIZAR

Recessed Downlight for Discharge Lamps with Frosted Glass



Mizar 170 D98 SOP

Type: Recessed downlight with frosted glass cover and horizontal lamp position for discharge lamps. Ideal for high mounting applications.

Specification: Aluminium reflector with frosted glass cover.
Body in steel in white finish, gearbox in black finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------------------------------|------------|------------------|
| Mizar 170 E01 OP | 1x70W (Rx7s) | ø265(230)x195 | 2,7 | 80 |
| Mizar 1150 E02 OP | 1x150W (Rx7s) | ø265(230)x195 | 2,9 | 170 |
| Mizar 170 D98 SOP | 1x70W (Rx7s) | ø265(230)x195 | 2,7 | 80 |
| Mizar 1150 D99 SOP | 1x150W (Rx7s) | ø265(230)x195 | 2,9 | 170 |

Options available on request:

- HF – High Frequency control gear
- HS – For high pressure sodium lamp
- RAL – RAL colours

NORTHCLIFFE
MAKING LIFE BRIGHTER



DOWNLIGHTS

www.northcliffe.org

AURIGA LED

Recessed LED Downlight with Clear Glass Cover



- Type:** Traditional LED downlight with clear diffuser for most applications.
- Specification:** Faceted aluminium reflector with white powder coated aluminium ring. Clear glass cover. Light beam 60°.
Removable gearbox with thermoplastic body.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for plasterboard or similar types of ceiling, requires a cut-out.
- Application:** Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

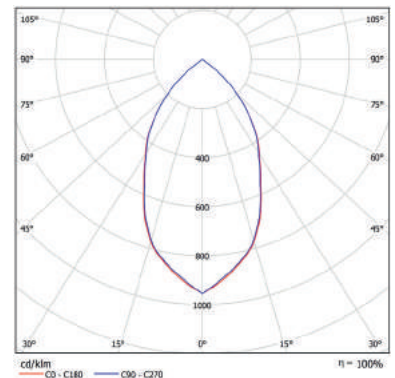
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Auriga LED1x1600 D329 T840 CLR | ø195(165)x100 | 50000 | 1597 | 14 | 80+ | 4000 | 0,80 |
| Auriga LED1x2300 D330 T840 CLR | ø195(165)x100 | 50000 | 2216 | 21 | 80+ | 4000 | 0,80 |
| Auriga LED1x3000 D331 T840 CLR | ø195(165)x100 | 50000 | 2990 | 28 | 80+ | 4000 | 0,80 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- CLR – Clear glass
- OP – Opal diffuser
- MPRZ – Microprismatic diffuser
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

AURIGA LED1X2300 D330 T840 CLR



AURIGA C LED

Recessed LED Downlight
with Deep Glass Cover



Type: A unique LED downlight with deep diffuser for most applications.

Specification: Faceted aluminium reflector with white powder coated aluminium ring. Deep clear glass cover. Light beam 40°. Removable gearbox with thermoplastic body. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

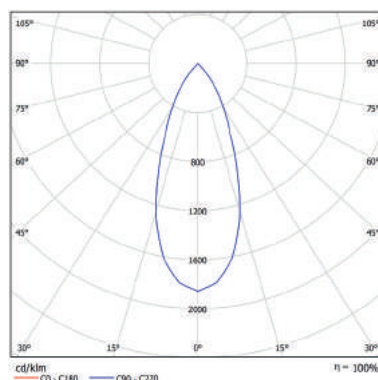
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Auriga C LED1x1600 D336 T840 CLR | ø195(176)x140 | 50000 | 1597 | 14 | 80+ | 4000 | 0,80 |
| Auriga C LED1x2300 D337 T840 CLR | ø195(176)x140 | 50000 | 2216 | 21 | 80+ | 4000 | 0,80 |
| Auriga C LED1x3000 D338 T840 CLR | ø195(176)x140 | 50000 | 2990 | 28 | 80+ | 4000 | 0,80 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- CLR – Clear glass
- OP – Opal diffuser
- MPRZ – Microprismatic diffuser
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

AURIGA C LED1X2300 D337 T840 CLR



CRUX LED

Recessed LED Downlight with Opal Diffuser



CE **EAC**



Type: Recessed LED downlight with opal diffuser for installations with minimum ceiling void.

Specification: Aluminium reflector with white coated ring. Opal diffuser. Body in aluminium in white finish. Removable gearbox with thermoplastic body. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

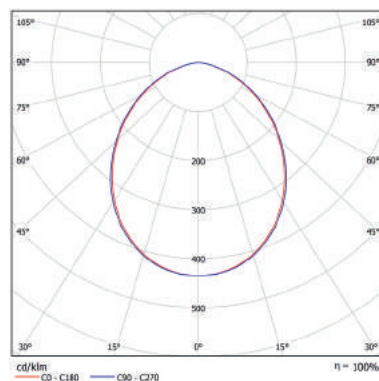
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Crux LED1x1100 E307 T840 OP | ø200(185)x90 | 50000 | 1053 | 10 | 80+ | 4000 | 0,80 |
| Crux LED1x1500 E308 T840 OP | ø200(185)x90 | 50000 | 1479 | 13 | 80+ | 4000 | 0,80 |
| Crux LED1x2100 E309 T840 OP | ø200(185)x90 | 50000 | 2035 | 19 | 80+ | 4000 | 0,80 |
| Crux LED1x1400 E310 T840 OP | ø235(220)x90 | 50000 | 1321 | 12 | 80+ | 4000 | 0,90 |
| Crux LED1x1900 E311 T840 OP | ø235(220)x90 | 50000 | 1858 | 16 | 80+ | 4000 | 0,90 |
| Crux LED1x2600 E312 T840 OP | ø235(220)x90 | 50000 | 2575 | 23 | 80+ | 4000 | 0,90 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP – Opal diffuser
- MPRZ – Microprismatic diffuser
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

CRUX LED1X1500 E308 T840 OP



ANDROMEDA LED

Budget LED Downlight with Opal Diffuser



CE **EAC**



Type: A budget range of recessed LED downlights with opal diffuser for installations with minimum ceiling void.

Specification: Opal diffuser.
Body in aluminium in white finish. Tool free spring clip installation.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

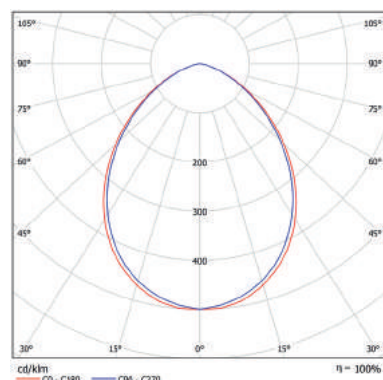
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Andromeda LED1x800 B876 T840 OP | Ø125(100)x66 | 30000 | 800 | 10 | 80+ | 4000 | 0,15 |
| Andromeda LED1x1040 B877 T840 OP | Ø150(125)x72 | 30000 | 1040 | 12 | 80+ | 4000 | 0,17 |
| Andromeda LED1x1280 B878 T840 OP | Ø181(165)x82 | 30000 | 1280 | 16 | 80+ | 4000 | 0,22 |
| Andromeda LED1x1680 B879 T840 OP | Ø227(210)x97 | 30000 | 1680 | 20 | 80+ | 4000 | 0,26 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- OP – Opal diffuser
- T840 – Colour temperature 4000K

ANDROMEDA LED1X1280 B878 T840 OP



ROUND LED

**Recessed LED
Downlight with
Low Height Body**



Type: A low height LED downlight with opal diffuser to allow installation into low and restricted ceiling voids.

Specification: Opal diffuser.
Body in aluminium in white finish. Tool free spring clip installation.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

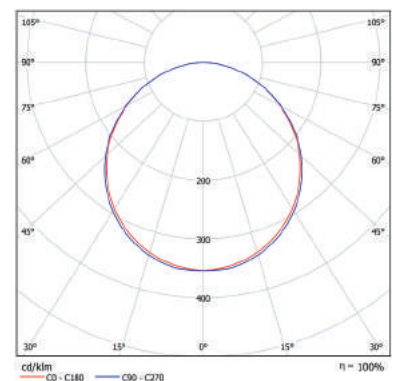
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Round LED1x450 C218 T840 OP | Ø120(100)x12 | 30000 | 450 | 6 | 80+ | 4000 | 0,28 |
| Round LED1x700 C219 T840 OP | Ø145(128)x12 | 30000 | 676 | 9 | 80+ | 4000 | 0,30 |
| Round LED1x900 C220 T840 OP | Ø170(150)x12 | 30000 | 917 | 12 | 80+ | 4000 | 0,32 |
| Round LED1x1150 C221 T840 OP | Ø200(175)x12 | 30000 | 1125 | 15 | 80+ | 4000 | 0,46 |
| Round LED1x1350 C222 T840 OP | Ø225(200)x12 | 30000 | 1351 | 18 | 80+ | 4000 | 0,54 |
| Round LED1x1800 C223 T840 OP | Ø240(225)x12 | 30000 | 1800 | 24 | 80+ | 4000 | 0,60 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

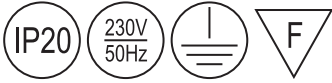
- SDIM – Switch-control/dimming
- DALI – DALI driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- OP – Opal diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

ROUND LED1X1150 C221 T840 OP



ORION

Recessed Downlight for Compact Fluorescent Lamp



CE EAC



ORION 226 B28 GLR



ORION 226 B28 OGL

Type: Recessed downlight with horizontal lamp position for compact fluorescent lamps.

Specification: Gloss aluminium reflector with white powder coated steel ring.
Body in steel in white finish, gearbox in grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 | 1x13W (G24d-1) | ø193(165)x100 | 1,3 | 19 |
| Orion 213 D46 | 2x13W (G24d-1) | ø193(165)x100 | 1,7 | 38 |
| Orion 118 E60 | 1x18W (G24d-2) | ø193(165)x100 | 1,4 | 26 |
| Orion 218 B27 | 2x18W (G24d-2) | ø193(165)x100 | 1,8 | 52 |
| Orion 126 I95 | 1x26W (G24d-3) | ø193(165)x100 | 1,5 | 34 |
| Orion 226 I96 | 2x26W (G24d-3) | ø193(165)x100 | 1,9 | 68 |
| Orion 126 D47 | 1x26W (G24d-3) | ø235(210)x126 | 1,6 | 34 |
| Orion 226 B28 | 2x26W (G24d-3) | ø235(210)x126 | 2,1 | 68 |
| Orion 132 J40 HF | 1x32W (Gx24q-3) | ø235(210)x126 | 1,2 | 32 |
| Orion 142 J41 HF | 1x42W (Gx24q-4) | ø235(210)x126 | 1,2 | 44 |
| Orion 132 J38 HF | 1x32W (Gx24q-3) | ø265(235)x178 | 1,7 | 32 |

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------------------------------|------------|------------------|
| Orion 232 K28 HF | 2x32W (Gx24q-3) | ø265(235)x178 | 1,8 | 64 |
| Orion 142 J39 HF | 1x42W (Gx24q-4) | ø265(235)x178 | 1,7 | 44 |
| Orion 242 K29 HF | 2x42W (Gx24q-4) | ø265(235)x178 | 1,8 | 85 |

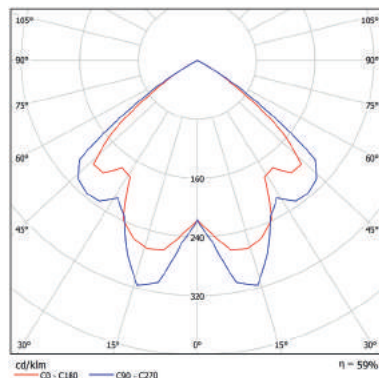


Steel ring can be optional:
RAL powder coated, chrome
or gold plated (see option list)

Options available on request:

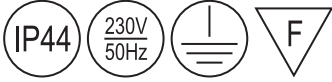
- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matted reflector
- FCT – Faceted reflector
- OGL – Decorative glass outside (in middle frosted)
- GLR – Decorative frosted ring outside
- RAL – RAL colours
- CR – Chrome plated ring
- GOLD – Gold plated ring

ORION 218 B27 HF



ORION OP

Recessed Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



CE EAC



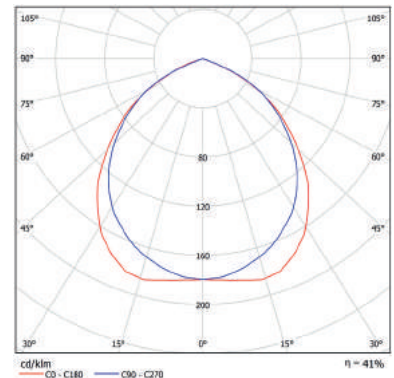
- Type:** Recessed downlight with frosted glass cover for compact fluorescent lamps.
- Specification:** Matted aluminium reflector with white powder coated steel ring. Frosted glass cover. Body in steel in white finish, gearbox in grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for plasterboard or similar types of ceiling, requires a cut-out.
- Application:** Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 OP | 1x13W (G24d-1) | ø193(165)x100 | 1,3 | 19 |
| Orion 213 D46 OP | 2x13W (G24d-1) | ø193(165)x100 | 1,7 | 38 |
| Orion 118 E60 OP | 1x18W (G24d-2) | ø193(165)x100 | 1,4 | 26 |
| Orion 218 B27 OP | 2x18W (G24d-2) | ø193(165)x100 | 1,8 | 52 |
| Orion 126 I95 OP | 1x26W (G24d-3) | ø193(165)x100 | 1,5 | 34 |
| Orion 226 I96 OP | 2x26W (G24d-3) | ø193(165)x100 | 1,9 | 68 |
| Orion 126 D47 OP | 1x26W (G24d-3) | ø235(210)x126 | 1,6 | 34 |
| Orion 226 B28 OP | 2x26W (G24d-3) | ø235(210)x126 | 2,1 | 68 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- PRZ – Prismatic diffuser
- CLR – Clear glass
- IP44 – IP44 protection degree
- RAL – RAL colours

ORION 218 B27 OP HF



ORION SOP

Recessed Downlight for
Compact Fluorescent Lamps
with Frosted Glass Cover



Orion 226 B28 SOP CLR



Orion 226 B28 SOP PRZ

Type: Recessed downlight with frosted glass cover for compact fluorescent lamps.

Specification: Aluminium reflector with white powder coated steel ring. Frosted glass cover. Body in steel in white finish, gearbox in grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

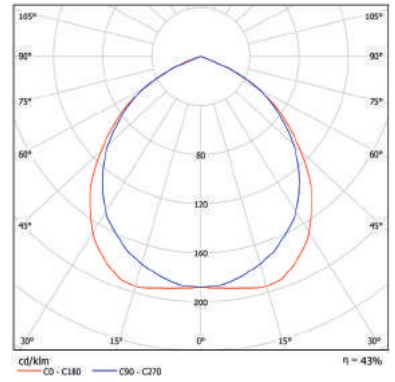
Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 SOP | 1x13W (G24d-1) | ø193(165)x100 | 1,3 | 19 |
| Orion 213 D46 SOP | 2x13W (G24d-1) | ø193(165)x100 | 1,7 | 38 |
| Orion 118 E60 SOP | 1x18W (G24d-2) | ø193(165)x100 | 1,4 | 26 |
| Orion 218 B27 SOP | 2x18W (G24d-2) | ø193(165)x100 | 1,8 | 52 |
| Orion 126 I95 SOP | 1x26W (G24d-3) | ø193(165)x100 | 1,5 | 34 |
| Orion 226 I96 SOP | 2x26W (G24d-3) | ø193(165)x100 | 1,9 | 68 |
| Orion 126 D47 SOP | 1x26W (G24d-3) | ø235(210)x126 | 1,6 | 34 |
| Orion 226 B28 SOP | 2x26W (G24d-3) | ø235(210)x126 | 2,1 | 68 |
| Orion 132 J40 SOP HF | 1x32W (Gx24q-3) | ø235(210)x126 | 1,2 | 32 |
| Orion 142 J41 SOP HF | 1x42W (Gx24q-4) | ø235(210)x126 | 1,2 | 44 |
| Orion 132 J38 SOP HF | 1x32W (Gx24q-3) | ø265(235)x178 | 1,7 | 32 |
| Orion 232 K28 SOP HF | 2x32W (Gx24q-3) | ø265(235)x178 | 1,8 | 64 |
| Orion 142 J39 SOP HF | 1x42W (Gx24q-4) | ø265(235)x178 | 1,7 | 44 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- RAL – RAL colours
- CLR – Clear glass
- MPRZ – Microprismatic diffuser
- PRZ – Prismatic diffuser

ORION 218 B27 SOP HF



ORION MIR

Recessed Downlight for Compact Fluorescent Lamp with Radial Louvre



CEEC



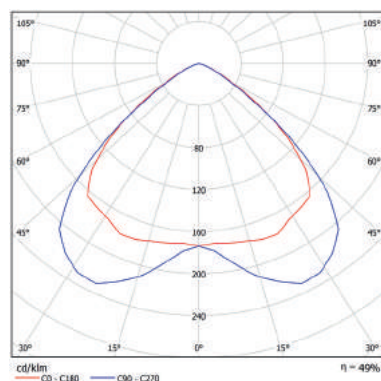
- Type:** Recessed downlight with radial louvre for compact fluorescent lamps.
- Specification:** Gloss aluminium reflector with radial cross blades for better protection from direct glare. White powder coated steel ring outside.
Body in steel in white finish, gearbox in grey finish.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for plasterboard or similar types of ceiling, requires a cut-out.
- Application:** Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|----------------------------------|------------|------------------|
| Orion 213 D46 MIR | 2x13W (G24d-1) | ø235(210)x155 | 1,95 | 38 |
| Orion 218 B27 MIR | 2x18W (G24d-2) | ø235(210)x155 | 1,95 | 42 |
| Orion 226 B28 MIR | 2x26W (G24d-3) | ø235(210)x155 | 2,5 | 60 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring

ORION 218 B27 MIR



URSA

Recessed Downlight with Vertical Lamp Position



CE EAC



Ursa 118 I22 SOP



Ursa 118 I22

Type: Recessed downlight with vertical lamp position for compact fluorescent lamps.

Specification: Glossy aluminium reflector with white powder coated steel ring.
Body in steel in white finish, gearbox in grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|----------------------------------|------------|------------------|
| Ursa 1E27 I20 FCT | 40W (E27) | ø180(155)x205 | 0,8 | - |
| Ursa 113 I21 FCT | 1x13W (G24d-1) | ø180(155)x205 | 1,1 | 19 |
| Ursa 118 I22 FCT | 1x18W (G24d-2) | ø180(155)x205 | 1,1 | 26 |
| Ursa 1E27 I20 SOP | 40W (E27) | ø180(155)x185 | 1,0 | - |
| Ursa 113 I21 SOP | 1x13W (G24d-1) | ø180(155)x185 | 1,2 | 19 |
| Ursa 118 I22 SOP | 1x18W (G24d-2) | ø180(155)x185 | 1,2 | 26 |

Options available on request:

HF – High Frequency control gear
DIM – Dimmable ballast
SDIM – Switch-control/dimming
DALI – DALI ballast
EMG – Emergency version 1 hour

EM3 – Emergency version 3 hours
FCT – Faceted reflector
SOP – Surface frosted glass cover (IP44)
RAL – RAL colours

TETRA LED SOP / TETRA SOP

**Square Recessed Downlight
with Frosted Glass Cover**



CE



Type: A square shaped recessed downlight with horizontal lamp position for compact fluorescent lamps.

Specification: Aluminium reflector with white powder coated aluminium frame. Frosted glass cover. Body in steel in white finish, gearbox in grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Tetra LED1x900 D339 T840 SOP LT80 | 220x220(200x200)x90 | 50000 | 899 | 10 | 80+ | 4000 | 1,80 |
| Tetra LED1x1300 D340 T840 SOP LT80 | 220x220(200x200)x90 | 50000 | 1263 | 14 | 80+ | 4000 | 1,80 |
| Tetra LED1x1600 D341 T840 SOP LT80 | 220x220(200x200)x90 | 50000 | 1579 | 17 | 80+ | 4000 | 1,80 |

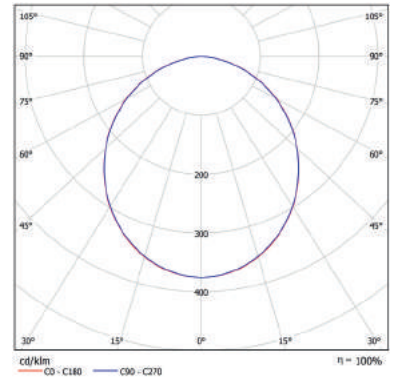
* Tolerance range for optical and electrical data: $\pm 10\%$

| Name | Lamp (W) and holder | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Tetra 113 K35 SOP | 1x13W (G24d-1) | 220x220(200x200)x90 | 1,4 | 19 |
| Tetra 213 K36 SOP | 2x13W (G24d-1) | 220x220(200x200)x90 | 1,8 | 38 |
| Tetra 118 K37 SOP | 1x18W (G24d-2) | 220x220(200x200)x90 | 1,4 | 26 |
| Tetra 218 K38 SOP | 2x18W (G24d-2) | 220x220(200x200)x90 | 1,8 | 52 |
| Tetra 126 K39 SOP | 1x26W (G24d-3) | 220x220(200x200)x90 | 1,6 | 34 |
| Tetra 226 K40 SOP | 2x26W (G24d-3) | 220x220(200x200)x90 | 2,1 | 68 |
| Tetra 132 K41 SOP HF | 1x32W (G24q-3) | 220x220(200x200)x90 | 1,7 | 32 |
| Tetra 142 K43 SOP HF | 1x42W (G24q-4) | 220x220(200x200)x90 | 1,7 | 44 |
| Tetra 1E27 K45 SOP | max. 60W (E27) | 220x220(200x200)x90 | 1,2 | - |
| Tetra 2E27 M64 SOP | max. 2x40W (E27) | 220x220(200x200)x90 | 1,3 | - |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast /driver
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block
- MPRZ – Microprismatic diffuser
- PRZ – Prismatic diffuser
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

TETRA LED1X1600 D341 T840 SOP



ANTLIA LED

Surface LED Downlight with Faceted Reflector



CEAC



Type: Surface mounted LED downlight with faceted aluminium reflector.

Specification: Faceted aluminium reflector with white coated ring. Light beam angle 40°. White painted aluminium body. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on ceiling.

Application: Indoor. Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

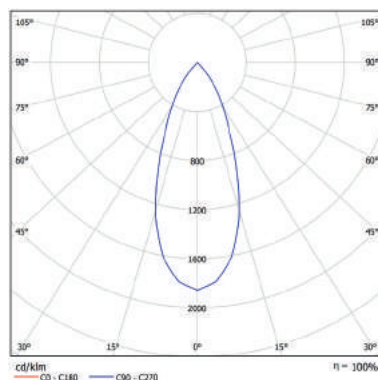
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Antlia LED1x1600 D342 T840 | Ø168x172 | 50000 | 1597 | 14 | 80+ | 4000 | 1,00 |
| Antlia LED1x2300 D343 T840 | Ø168x172 | 50000 | 2216 | 21 | 80+ | 4000 | 1,00 |
| Antlia LED1x3000 D344 T840 | Ø168x172 | 50000 | 2990 | 28 | 80+ | 4000 | 1,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

ANTLIA LED1X2300 D343 T840



ANTLIA C LED

Surface LED Downlight with Opal Diffuser



CE **EAC**



Type: Surface mounted LED downlight with opal diffuser.

Specification: Opal diffuser with white coated ring.
White painted aluminium body. IP44 ingress protection.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on ceiling.

Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

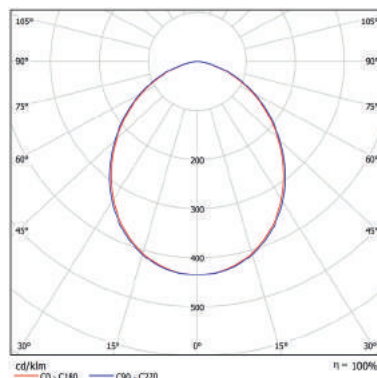
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Antlia C LED1x1400 D345 T840 OP | Ø200x130 | 50000 | 1321 | 12 | 80+ | 4000 | 1,00 |
| Antlia C LED1x1900 D346 T840 OP | Ø200x130 | 50000 | 1858 | 16 | 80+ | 4000 | 1,00 |
| Antlia C LED1x2600 D347 T840 OP | Ø200x130 | 50000 | 2575 | 23 | 80+ | 4000 | 1,00 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- OP – Opal diffuser
- MPRZ – Microprismatic diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- RAL – RAL colours

ANTLIA C LED1X1900 D346 T840 OP



ORION

Surface Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



CEAC



| | |
|-----------------------|---|
| Type: | Surface mounted downlight for compact fluorescent lamps with frosted glass cover and horizontal lamp position with minimal body height. |
| Specification: | Aluminium reflector with frosted glass cover. White painted steel body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on ceiling. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Name | Lamp (W) and holder | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Orion 113 K22 | 1x13W (G24d-1) | ø268x70 | 1,4 | 19 |
| Orion 213 D97 | 2x13W (G24d-1) | ø268x70 | 1,7 | 38 |
| Orion 118 K23 | 1x18W (G24d-2) | ø268x70 | 1,5 | 26 |
| Orion 218 D04 | 2x18W (G24d-2) | ø268x70 | 1,8 | 52 |
| Orion 126 K24 | 1x26W (G24d-3) | ø268x70 | 1,7 | 34 |
| Orion 226 D05 | 2x26W (G24d-3) | ø268x70 | 2,1 | 68 |

Options available on request:

| | |
|------|-------------------------------|
| HF | - High Frequency control gear |
| EMG | - Emergency version 1 hour |
| CLR | - Clear glass |
| MPRZ | - Microprismatic diffuser |
| PRZ | - Prismatic diffuser |

PERSEUS C LED

**Recessed LED Downlight with
IP65 Ingress Protection**



Type: A recessed LED downlight for maximum protection and use in adverse conditions.

Specification: Faceted aluminium reflector with clear glass cover.
White aluminium body. Silicon gasket.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for plasterboard or similar types of ceiling, requires a cut-out.

Application: Indoor. Dust and moisture proof luminaire, ideal for environments subject to humidity and excessive dust.

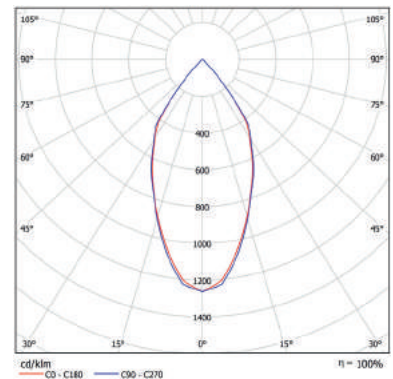
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Perseus C LED1x2300 D028 T840 CLR | Ø225(205)x125 | 50000 | 2224 | 20 | 80+ | 4000 | 1,20 |
| Perseus C LED1x3100 D029 T840 CLR | Ø225(205)x125 | 50000 | 3037 | 29 | 80+ | 4000 | 1,20 |
| Perseus C LED1x4400 D348 T840 CLR | Ø225(205)x125 | 50000 | 4373 | 42 | 80+ | 4000 | 1,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- CLR – Clear glass
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- RAL – RAL colours

PERSEUS C LED1X3100 D029 T840 CLR



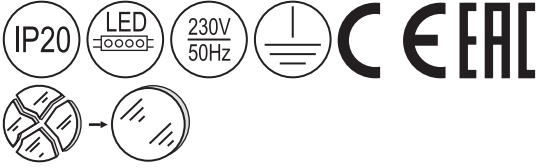
NORTHCLIFFE
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HIGH BAYS

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MONTBLANC

High-Bay Luminaire



Type: Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications.

Specification: Reflector in aluminium in mat finish. Frosted glass cover.
Body in aluminium in silver finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Supplied with suspension hook and chain for easy mounting.

Application: Indoor. For use in halls, shops and many other commercial applications.



Suspension kit is supplied together with the fixture.

| Name | Lamp type, W | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------|--------------------------------|------------|------------------|
| Montblanc 142 M53 | 1x42 (G24q-4) | ø330x350 | 3,6 | 44 |
| Montblanc 242 M54 | 2x42 (G24q-4) | ø330x350 | 3,7 | 85 |
| Montblanc 170 B42 | 1x70W (E27) | ø330x350 | 4.6 | 80 |
| Montblanc 1150 B41 | 1x150W (E27) | ø330x350 | 5.5 | 170 |

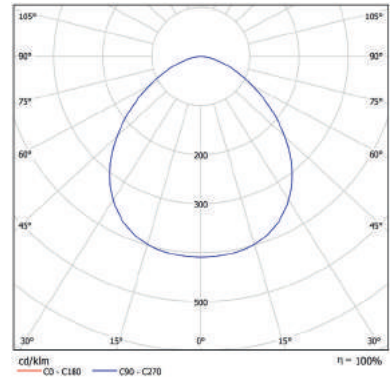
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Montblanc LED1x2800 D016 T840 | 330x350 | 50000 | 2778 | 28 | 80+ | 4000 | 4,60 |
| Montblanc LED1x4000 D017 T840 | 330x350 | 50000 | 4000 | 42 | 80+ | 4000 | 4,60 |
| Montblanc LED1x5200 D018 T840 | 330x350 | 50000 | 5130 | 58 | 80+ | 4000 | 4,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

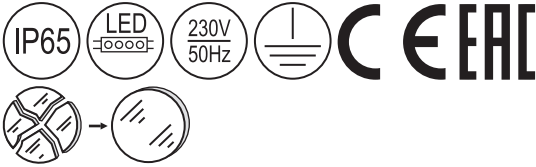
- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming
- DALI – DALI ballast / driver
- RAL – RAL colours
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K

MONTBLANC LED1X4000 D017 T840



PRIZMA LED

High-Bay LED Luminaire with Prismatic Reflector



Type: Luminaire for high mounting applications with transparent prismatic reflector.

Specification: Prismatic polycarbonate reflector. Protective cover can be supplied on request. Body in die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Supplied with suspension hook for easy mounting.

Application: Indoor. For use in halls, factories, shops and many other commercial applications.



Protective cover (**COVER**) for glare control available on request. For more information check option list.

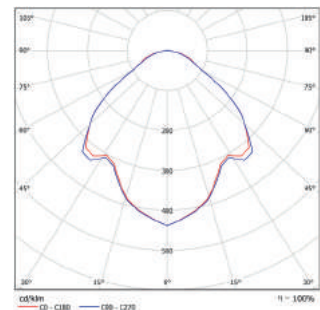
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Prizma LED1x4100 D434 T840 | Ø410x425 | 50000 | 4088 | 34 | 80+ | 4000 | 3,50 |
| Prizma LED1x5800 D435 T840 | Ø410x425 | 50000 | 5718 | 51 | 80+ | 4000 | 3,50 |
| Prizma LED1x9000 D436 T840 | Ø510x540 | 50000 | 8915 | 84 | 80+ | 4000 | 5,80 |
| Prizma LED1x10900 D437 T840 | Ø510x540 | 50000 | 10851 | 107 | 80+ | 4000 | 5,80 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- SDIM – Switch-control/dimming
- DALI – DALI driver
- COVER – Protective PC cover
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K

PRIZMA LED1X5800 D435 T840



PRIZMA

High-Bay Luminaire with Prismatic Reflector



Type: Luminaire for high mounting applications with transparent prismatic reflector.

Specification: Prismatic polycarbonate reflector. Protective cover can be supplied on request. Aluminium body in light grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Supplied with suspension hook for easy mounting.

Application: Indoor. For use in halls, shops and many other commercial applications.



Protective cover (**COVER**) for glare control available on request. For more information check option list.

| Name | Lamp type, W | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------|--------------------------------|------------|------------------|
| Prizma 142 K74 HF | 1x42 (G24q-4) | Ø420x530 | 3,6 | 44 |
| Prizma 242 K75 HF | 2x42 (G24q-4) | Ø420x530 | 3,7 | 88 |
| Prizma 170 K71 | 1x70 (E27) | Ø420x530 | 4,6 | 80 |
| Prizma 1150 K72 | 1x150 (E27) | Ø420x530 | 5,5 | 170 |
| Prizma 342 K76 HF | 3x42 (G24q-4) | Ø510x595 | 4,9 | 132 |
| Prizma 1250 K73 | 1x250 (E40) | Ø510x595 | 6,8 | 280 |

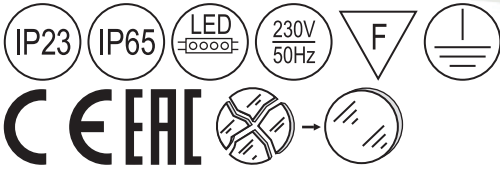
Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- COVER – Protective PC cover

NORTE M LED



Industrial LED High-Bay Luminaire



Norte M LED1x12500 D019 T740 SPORT LS90

- Type:** High-bay luminaire with various LED optics for precise light control. Energy saving, robust and ideal for high mounting applications.
- Specification:** Optics: 45°, 60°, 90°, 120°, 25x115° and asymmetric light beam.
Frame: UV stable polycarbonate diffuser (IP65), protective grid (SPORT) or both (SPORT... IP65).
White painted steel body with aluminium heatsink.
Luminaire is plastic-wrapped and packed individually.
- Installation:** Suitable for surface mounting on ceiling or suspended.
- Application:** Indoor. For use in factories, warehouses, garages, sport halls and many others commercial applications.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Norte M LED1x12300 D019 T740 LS90 IP65 | 640x320x135 | 50000 | 12211 | 106 | 70+ | 4000 | 8,00 |
| Norte M LED1x15300 D020 T740 LS90 IP65 | 640x320x135 | 50000 | 15264 | 132 | 70+ | 4000 | 8,00 |
| Norte M LED1x18400 D021 T740 LS90 IP65 | 840x320x135 | 50000 | 18316 | 159 | 70+ | 4000 | 10,00 |
| Norte M LED1x21400 D022 T740 LS90 IP65 | 840x320x135 | 50000 | 21369 | 185 | 70+ | 4000 | 10,00 |
| Norte M LED1x24500 D023 T740 LS90 IP65 | 840x320x135 | 50000 | 24422 | 212 | 70+ | 4000 | 10,00 |
| Norte M LED1x12300 D019 T740 SPORT LS90 | 640x320x135 | 50000 | 11656 | 106 | 70+ | 4000 | 8,00 |
| Norte M LED1x15300 D020 T740 SPORT LS90 | 640x320x135 | 50000 | 14570 | 132 | 70+ | 4000 | 8,00 |
| Norte M LED1x18400 D021 T740 SPORT LS90 | 840x320x135 | 50000 | 17484 | 159 | 70+ | 4000 | 10,00 |
| Norte M LED1x21400 D022 T740 SPORT LS90 | 840x320x135 | 50000 | 20398 | 185 | 70+ | 4000 | 10,00 |
| Norte M LED1x24500 D023 T740 SPORT LS90 | 840x320x135 | 50000 | 23312 | 212 | 70+ | 4000 | 10,00 |

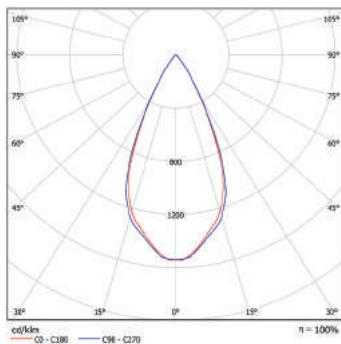
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Norte M LED1x12300 D019 T740 SPORT LS90 IP65 | 640x320x135 | 50000 | 11240 | 106 | 70+ | 4000 | 8,00 |
| Norte M LED1x15300 D020 T740 SPORT LS90 IP65 | 640x320x135 | 50000 | 14049 | 132 | 70+ | 4000 | 8,00 |
| Norte M LED1x18400 D021 T740 SPORT LS90 IP65 | 840x320x135 | 50000 | 16859 | 159 | 70+ | 4000 | 10,00 |
| Norte M LED1x21400 D022 T740 SPORT LS90 IP65 | 840x320x135 | 50000 | 19669 | 185 | 70+ | 4000 | 10,00 |
| Norte M LED1x24500 D023 T740 SPORT LS90 IP65 | 840x320x135 | 50000 | 22479 | 212 | 70+ | 4000 | 10,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

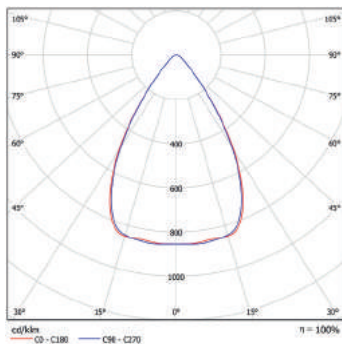
Options available on request:

- | | |
|---|---------------------------------|
| DIM – Dimmable driver | T740 – Colour temperature 4000K |
| SDIM – Switch-control/dimming | LS45 – 45° beam angle |
| DALI – DALI driver | LS60 – 60° beam angle |
| HBPIR – PIR sensor for high ceiling applications (<12 meters) | LS90 – 90° beam angle |
| SPORT – Protective grid | LS120 – 120° beam angle |
| IP65 – IP65 version with polycarbonate diffuser | LS25x115 – 25x115° beam angle |
| T730 – Colour temperature 3000K | LSA1 – Asymmetric optics |

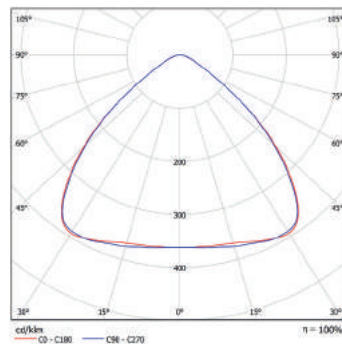
**Norte M LED1x12300 D019 T740
LS45 IP65**



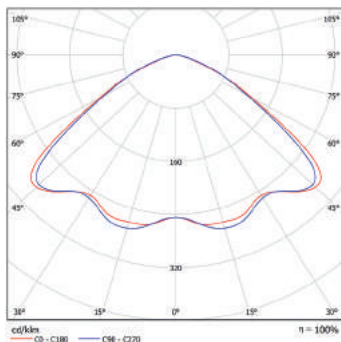
**Norte M LED1x12300 D019 T740
LS60 IP65**



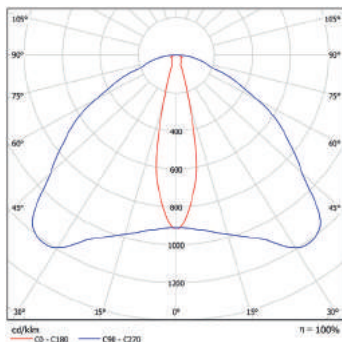
**Norte M LED1x12300 D019 T740
LS90 IP65**



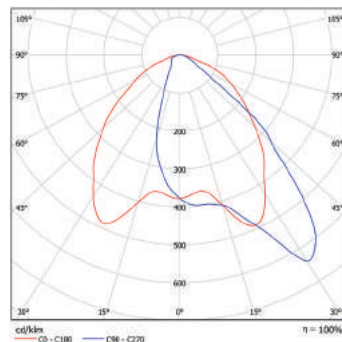
**Norte M LED1x12300 D019 T740
LS120 IP65**



**Norte M LED1x12300 D019 T740
LS25x115 IP65**

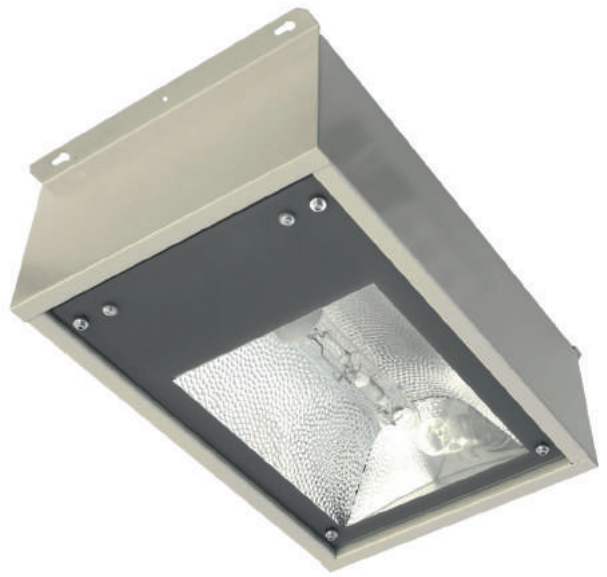
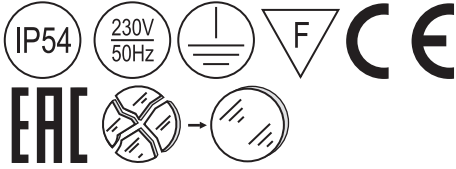


**Norte M LED1x12300 D019 T740
LSA1 IP65**



NORTE

Low-Bay Luminaire



NORTE 1250 G96 HI GRID



NORTE 1250 G96 HI FRAME



NORTE LED1X10800 D439 T750 L60

Type: Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications.

Specification: Parabolic symmetric reflector in faceted aluminium. Tempered glass cover.
Light grey painted steel body.
Luminaire is plastic-wrapped and packed individually.

Installation: Suitable for surface mounting on ceiling.

Application: Indoor. For use in factories, warehouses, garages, halls and many others commercial applications.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Norte 1150 G95 HI | HI | 1x150 (E27) | 490x365x175 | 7,5 | 170 |
| Norte 1250 G96 HI | HI | 1x250 (E40) | 490x365x175 | 7,9 | 280 |
| Norte 1400 G97 HI | HI | 1x400 (E40) | 490x365x175 | 8,4 | 440 |
| Norte 1150 G98 HS | HS | 1x150 (E40) | 490x365x175 | 7,5 | 170 |
| Norte 1250 G96 HS | HS | 1x250 (E40) | 490x365x175 | 7,9 | 280 |
| Norte 1400 G97 HS | HS | 1x400 (E40) | 490x365x175 | 8,4 | 440 |

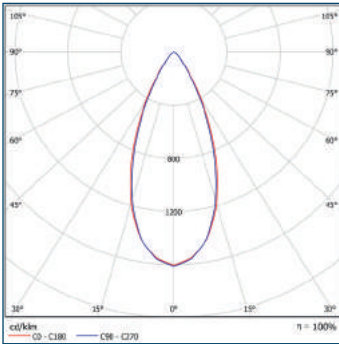
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Norte LED1x8600 D438 T750 L45 | 490x365x175 | 50000 | 9085 | 80 | 70+ | 5000 | 8,50 |
| Norte LED1x10800 D439 T750 L45 | 490x365x175 | 50000 | 11356 | 99 | 70+ | 5000 | 8,50 |
| Norte LED1x8600 D438 T750 L60 | 490x365x175 | 50000 | 9085 | 80 | 70+ | 5000 | 8,50 |
| Norte LED1x10800 D439 T750 L60 | 490x365x175 | 50000 | 11356 | 99 | 70+ | 5000 | 8,50 |
| Norte LED1x8600 D438 T750 L60x120 | 490x365x175 | 50000 | 9085 | 80 | 70+ | 5000 | 8,50 |
| Norte LED1x10800 D439 T750 L60x120 | 490x365x175 | 50000 | 11356 | 99 | 70+ | 5000 | 8,50 |

* Tolerance range for optical and electrical data: $\pm 10\%$

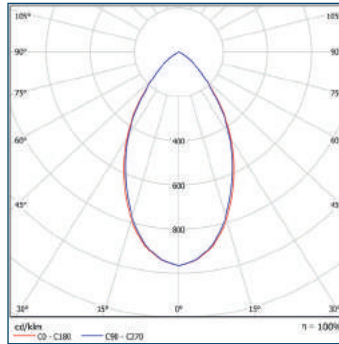
Options available on request:

| | | | |
|-------|---------------------------------|---------|----------------------------|
| DIM | - Dimmable ballast / driver | AS | - Asymmetric reflector |
| SDIM | - Switch-control/dimming | T830 | - Colour temperature 3000K |
| DALI | - DALI ballast / driver | T840 | - Colour temperature 4000K |
| HS | - For high pressure sodium lamp | T850 | - Colour temperature 5000K |
| GRID | - Protective grid | L45 | - Lens 45° |
| FRAME | - Frame for recessed mounting | L60 | - Lens 60° |
| IP65 | - IP65 version | L60x120 | - Lens 60x120° |

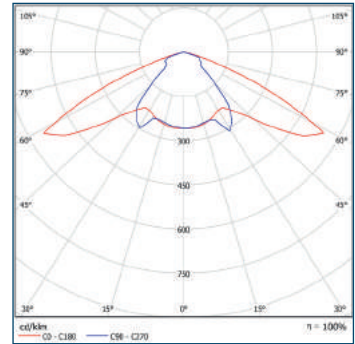
**NORTE LED1X10800 D439
T750 L45**



**NORTE LED1X10800 D439
T750 L60**



**NORTE LED1X10800 D439 T750
L60X120**



BRUBU M LED



**Recessed LED Luminaire
for use in Petrol Stations**



Type: Recessed LED luminaire with precise light control for use in petrol stations.

Specification: Optics: 60°, 90°, 120° and asymmetric light beam.
IP65 version is made with tempered glass diffuser.
White painted steel body with aluminium heatsink.
Luminaire is plastic-wrapped and packed individually.

Installation: Recessed luminaire is designed to be fixed to ceiling of any type.

Application: Outdoor. For use in petrol stations.



IP67 connector with housing and cable glands from both sides (optional).

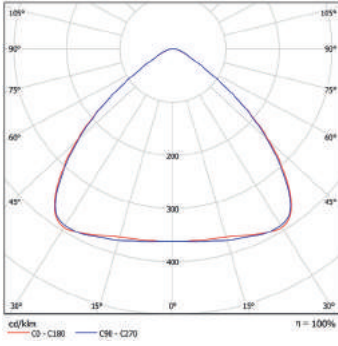
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Brubu M LED1x9200 D024 T740 LS90 | 435x435x95 | 50000 | 9158 | 79 | 70+ | 4000 | 8,00 |
| Brubu M LED1x12300 D025 T740 LS90 | 435x435x95 | 50000 | 12211 | 106 | 70+ | 4000 | 8,00 |
| Brubu M LED1x15300 D026 T740 LS90 | 435x435x95 | 50000 | 15264 | 132 | 70+ | 4000 | 8,00 |

* Tolerance range for optical and electrical data: ±10 %

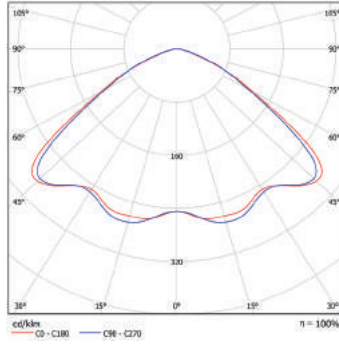
Options available on request:

- | | | | |
|------|----------------------------|-------|---------------------|
| DIM | - Dimmable driver | LS60 | - 60° beam angle |
| SDIM | - Switch-control/dimming | LS90 | - 90° beam angle |
| DALI | - DALI driver | LS120 | - 120° beam angle |
| T730 | - Colour temperature 3000K | LSA1 | - Asymmetric optics |
| T740 | - Colour temperature 4000K | | |

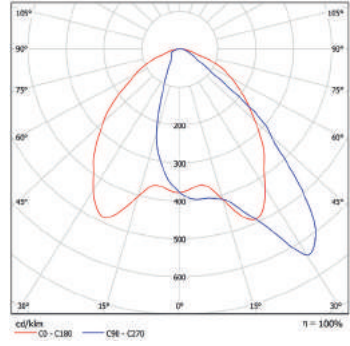
**Brubu M LED1x12400 D025 T740
LS90**



**Brubu M LED1x12400 D025 T740
LS120**



**Brubu M LED1x12400 D025 T740
LSA1**



BRUBU LED

Recessed Luminaire for Use in Petrol Stations



Type: LED Recessed Luminaire for use in petrol stations.

Specification: IP65 version is made with tempered glass diffuser.
Optics: 45°, 60° or 120x60° beam.
Body in steel in white finish.
Luminaire is plastic-wrapped and packed individually.

Installation: Recessed luminaire is designed to be fixed to ceiling of any type.

Application: For use in petrol stations.

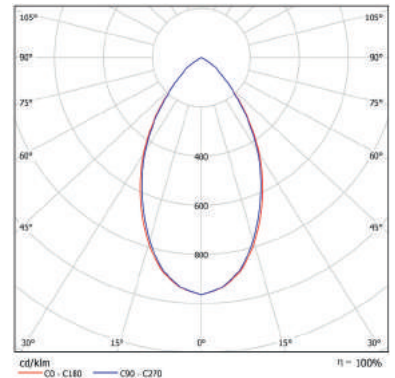
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Brubu LED1x8600 D440 T750 L60 | 425x425x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,80 |
| Brubu LED1x10800 D441 T750 L60 | 425x425x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,80 |
| Brubu LED1x12900 D442 T750 L60 | 425x425x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,80 |
| Brubu LED1x8600 D440 T750 L60x120 | 425x425x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,80 |
| Brubu LED1x10800 D441 T750 L60x120 | 425x425x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,80 |
| Brubu LED1x12900 D442 T750 L60x120 | 425x425x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,80 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- DIM – Dimmable driver 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

BRUBU LED1X10800 D441 T750 L60



SKY A LED

Industrial LED High-Bay Luminaire



SKY A LED3X5050 C137 T840 MID SPORT

Type: An industrial LED High-Bay Luminaire for high mounting applications in open areas and between shelves.

Specification: Reflector: mirror aluminium with narrow (NAR), middle (MID) or wide (WID) beam pattern. Diffuser: clear polycarbonate. White protective grid (SPORT) available on request. Three versions available: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor. White painted steel body. Luminaire is plastic-wrapped and packed individually.

Installation: Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended.

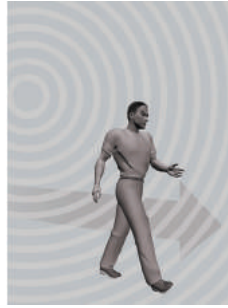
Application: Indoor. For use in warehouse, production facilities, sports, athletics and recreational halls and logistics centers with ceiling heights of 4 meters and higher.



Surface mounted **SHBPIR** Occupancy Sensor is designed simply to automatically turn lights ON or OFF. The sensor utilizes Passive Infrared Technology (PIR) combined with lenses to determine when an area is occupied. This is determined when a heat source is detected and moves from one facet in the lens to another. The sensor recognizes this as a motion and provides power to the light fixture. Simultaneously a timer is started and restarts with each motion, once expired, the lights will turn OFF. The **SHBPIR** sensor maximizes energy savings, incorporating false detection algorithms to eliminate false ONs by nuisance tripping or background environmental conditions. The sensor also optimizes energy savings and safety concerns during power loss scenarios by assuming a return to last known state of operation.



PASSIVE INFRARED (PIR)



MICROWAVE (MW)

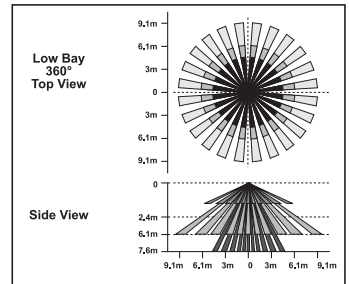
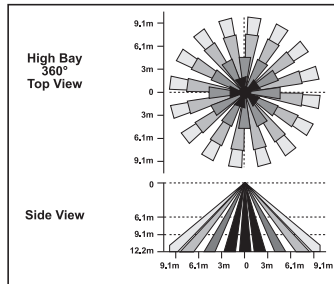
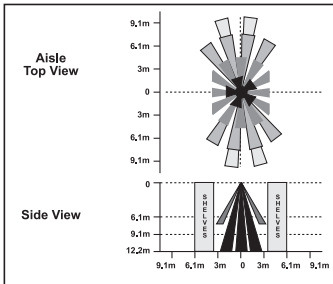
DEFINITIONS:

- **Passive Infrared (PIR):** A line of sight beam that reacts to heated motion across a field of view. It is a type of sensor technology, where no energy is emitted from the sensor.
- **Microwave (MW):** It is a type of sensor technology, which sends out microwave pulses (active) and measures the reflection of a moving object. Similar to a police radar gun.



Fixture mounted **HBPIR** and **HBPIR&LIGHT** sensors provide fast installation and immediate energy savings by automatically activating lighting only during periods of occupancy. Reliable passive infrared (PIR) technology detects occupancy, and the variable time delay – up to 30 minutes – is user accessible without power, tools or disassembly, and allows the ideal setting based on application needs. Included with the sensor are lenses for high-bay, low-bay and aisle mounting, allowing one unit to cover a variety of applications. The innovative Autocal feature performs an automatic daylight level calibration. Once calibrated, the sensor requires no further adjustment and immediately enters daylight harvesting mode, actively switching the connected fixture load ON and OFF in response to occupancy and available natural light maximizing energy savings through efficient light harvesting.

FIELD OF VIEW



Fast and Simple Setting: The HBPIR does not require power to set the time delay saving valuable time during installation.

– Load = 30s – 30m

Fast and Simple Testing: The HBPIR will “instant on” within 5 seconds. Upon initial power, relay is closed enabling labor savings testing in seconds.

Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.

Range and Coverage:

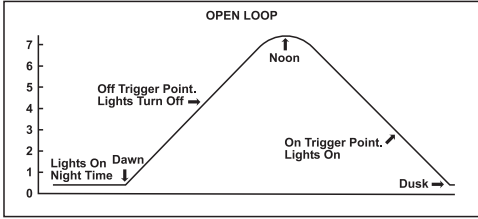
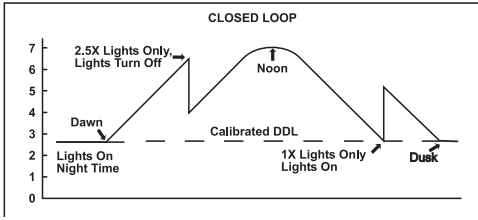
The 360° *high-bay PIR lens* provides a 2:1 spacing to mounting height coverage under 7,6 meters mounting and a 1.5:1 for heights up to 12,2 meters mounting.

The 360° *low-bay lens* provides 2:1 spacing to mounting height coverage for 2,4 to 6,1 meters mounting.

The *aisle lens* is designed to provide detection of 18,2 meters long by 6 meters wide for heights up to 12,2 meters mounting.

LED: Super bright green LED indicates occupancy detection and can be seen at 12,2 meters.

False Detection Protection: Energy saving technology is designed into the HBPIR to assure your lights are ON only when needed.



HBPIR&LIGHT SENSOR

Rotating Light Sensor: Optimal for the best performance in locating light measurements (up, down and side lighting).

Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.

Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.

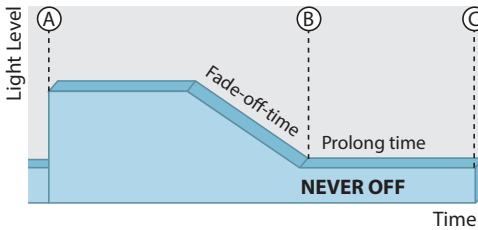
Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON in +/- 1 minute).

COR OPTION

Automatic switching is based on presence/motion with the time delay set on site to suit the customers requirements, where no presence is detected the light level will fade from 100% down to 10% saving up to 60% of the energy usage.

The **COR** function does not abruptly switch off the lighting but dims it to a 10% level. Depending on the profile selected the device remains at this light level ("never off" profile) or switches off completely after the appropriate delay ("Switch off" profile).

This arrangement provides efficient energy savings in 24-hour applications where light is needed round the clock for safety reasons, for example in stairwells and corridors in public buildings, and in large apartment complexes, car parks, pedestrian underpasses, warehouses and underground railway stations.

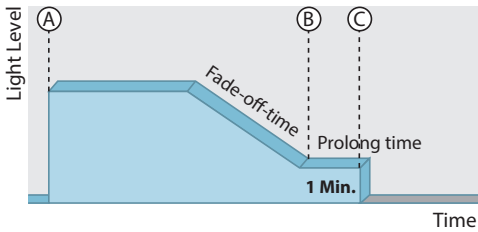


COR option

Standard profile "Never OFF" (A...100 %, B...10 %, Fade time 32 s, never OFF).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached.

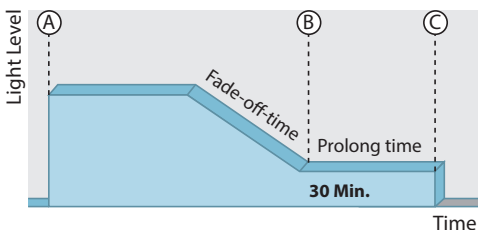
This corresponds to the default parameters.



COR1min option

Profile 2 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 1 minute).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next minute the ballast switches off completely.



COR30min option

Profile 3 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 30 minutes).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next 30 minutes the ballast switches off completely.

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Sky A LED2x5200 E096 T840 MID | 1400x236x60 | 50000 | 10399 | 83 | 80+ | 4000 | 7,00 |
| Sky A LED3x5200 E137 T840 MID | 1400x293x60 | 50000 | 15598 | 124 | 80+ | 4000 | 8,50 |
| Sky A LED4x5200 E097 T840 MID | 1400x350x60 | 50000 | 20798 | 166 | 80+ | 4000 | 9,00 |
| Sky A LED6x5200 E768 T840 MID | 1400x600x60 | 50000 | 31197 | 249 | 80+ | 4000 | 14,50 |
| Sky A LED8x5200 E769 T840 MID | 1400x780x60 | 50000 | 41596 | 332 | 80+ | 4000 | 14,50 |
| Sky A LED2x5200 E096 T840 NAR | 1400x286x65 | 50000 | 10399 | 83 | 80+ | 4000 | 7,00 |
| Sky A LED3x5200 E137 T840 NAR | 1400x393x65 | 50000 | 15598 | 124 | 80+ | 4000 | 8,50 |
| Sky A LED4x5200 E097 T840 NAR | 1400x500x65 | 50000 | 20798 | 166 | 80+ | 4000 | 9,00 |
| Sky A LED2x5200 E096 T840 MID SPORT | 1400x236x68 | 50000 | 9543 | 83 | 80+ | 4000 | 7,00 |
| Sky A LED3x5200 E137 T840 MID SPORT | 1400x293x68 | 50000 | 14314 | 124 | 80+ | 4000 | 8,50 |
| Sky A LED4x5200 E097 T840 MID SPORT | 1400x350x68 | 50000 | 19085 | 166 | 80+ | 4000 | 9,00 |

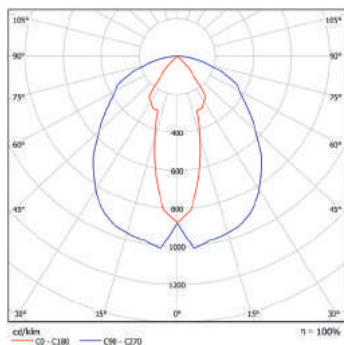
* Tolerance range for optical and electrical data: ±10 %

Higher output versions available on request

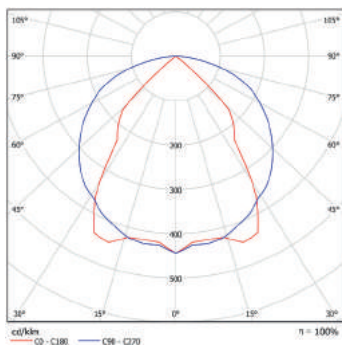
Options available on request:

- | | | | |
|----------|--|-----------------|---|
| DALI | - DALI driver | NAR | - Narrow beam reflector |
| SDIM | - Switch-control/dimming | SPORT | - White powder coated protective grid |
| COR | - Corridor function (never OFF) | HBPIR | - PIR sensor for high ceiling applications (<12 meters) |
| COR1min | - Corridor function (switch OFF after 1 minute) | HBPIR&LIGHT | - PIR & LIGHT sensor for high ceiling applications (<12 meters) |
| COR30min | - Corridor function (switch OFF after 30 minutes) | HBPIRCOLD | - PIR sensor for cold storage (<12 meters) |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | HBPIRCOLD&LIGHT | - PIR & LIGHT sensor for cold storage (<12 meters) |
| EMG | - Emergency version 1 hour | T830 | - Colour temperature 3000K |
| EM3 | - Emergency version 3 hours | T840 | - Colour temperature 4000K |
| MID | - Middle beam reflector | | |
| WID | - Wide beam reflector | | |

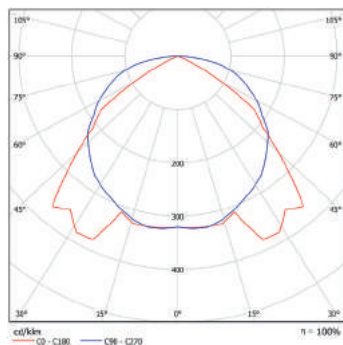
SKY A LED3X5200 E137 T840 NAR



SKY A LED3X5200 E137 T840 MID



SKY A LED3X5200 E137 T840 WID



SKY SPORT

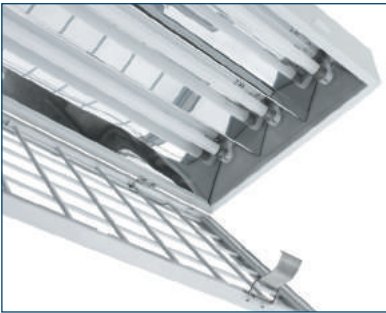
Luminaire with Wire-guard
for use in Sport Halls



CE EAC



- Type:** Luminaire with protective grid for use in sport halls. High performance, ideal for high mounting applications.
- Specification:** Mirror aluminium reflector. Protective frame retaining clips and hinges for easy maintenance. IP44 version is made with clear polycarbonate diffuser (see option list). White painted steel body with wire-guard. Luminaire is plastic-wrapped and packed individually.
- Installation:** Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended.
- Application:** Indoor. For use in all sports, athletics and recreational halls with ceiling heights of 4 meters and higher.



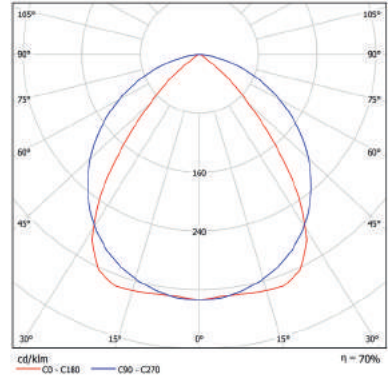
Protective grid hinges and stainless steel clips for easy access to maintain luminaire

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Sky 235 K46 SPORT | 2x35 (G5) | 1510x315x135 | 6,2 | 76 |
| Sky 249 K48 SPORT | 2x49 (G5) | 1510x315x135 | 6,2 | 105 |
| Sky 280 K50 SPORT | 2x80 (G5) | 1510x315x135 | 6,2 | 170 |
| Sky 335 K47 SPORT | 3x35 (G5) | 1510x315x135 | 6,6 | 114 |
| Sky 349 K49 SPORT | 3x49 (G5) | 1510x315x135 | 6,6 | 158 |
| Sky 380 K51 SPORT | 3x80 (G5) | 1510x315x135 | 6,6 | 255 |
| Sky 435 T37 SPORT | 4x35 (G5) | 1510x395x135 | 8,6 | 152 |
| Sky 449 T38 SPORT | 4x49 (G5) | 1510x395x135 | 8,6 | 210 |
| Sky 480 S17 SPORT | 4x80 (G5) | 1510x395x135 | 8,6 | 340 |

Options available on request:

- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- IP44 – With PC diffuser and IP44 protection

SKY 380 K51 SPORT



BLADE

Luminaire for Use in Logistics Centers



BLADE 380 R60 DELUXE HBPIR&LIGHT



BLADE 380 R60 DELUXE



BLADE 280 T08 DELUXE HBPIR

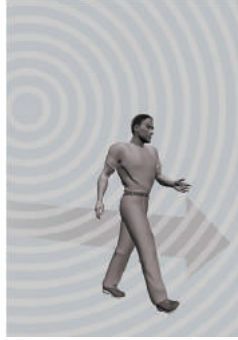
| | |
|-----------------------|---|
| Type: | Luminaire for high mounting applications between shelves or open areas. |
| Specification: | Narrow beam mirror aluminium reflector. Three versions available: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor. IP54 version is made with clear polycarbonate diffuser (see option list) for protection from sprinklers water jet. White painted steel body. Luminaire is plastic-wrapped and packed individually. |
| Installation: | Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended. |
| Application: | Indoor. For use in warehouse, production facilities, halls and logistics centers with ceiling heights of 10-12 meters and higher. |



Surface Mounted **SHBPIR** Occupancy Sensor is designed simply to automatically turn lights ON or OFF. The sensor utilizes Passive Infrared Technology (PIR) combined with lenses to determine when an area is occupied. This is determined when a heat source is detected and moves from one facet in the lens to another. The sensor recognizes this as a motion and provides power to the light fixture. Simultaneously a timer is started and restarts with each motion, once expired, the lights will turn OFF. The **SHBPIR** sensor maximizes energy savings, incorporating false detection algorithms to eliminate false ONs by nuisance tripping or background environmental conditions. The sensor also optimizes energy savings and safety concerns during power loss scenarios by assuming a return to last known state of operation.



PASSIVE INFRARED
(PIR)



MICROWAVE (MW)

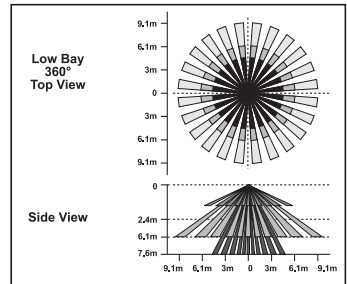
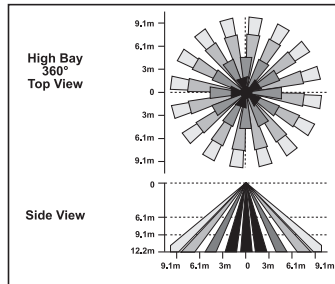
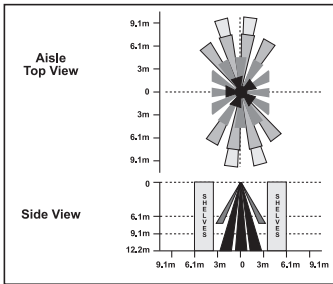
DEFINITIONS:

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Fixture mounted **HBPIR** and **HBPIR&LIGHT** sensors provide fast installation and immediate energy savings by automatically activating lighting only during periods of occupancy. Reliable passive infrared (PIR) technology detects occupancy, and the variable time delay – up to 30 minutes – is user accessible without power, tools or disassembly, and allows the ideal setting based on application needs. Included with the sensor are lenses for high-bay, low-bay and aisle mounting, allowing one unit to cover a variety of applications. The innovative Autocal feature performs an automatic daylight level calibration. Once calibrated, the sensor requires no further adjustment and immediately enters daylight harvesting mode, actively switching the connected fixture load ON and OFF in response to occupancy and available natural light maximizing energy savings through efficient light harvesting.

FIELD OF VIEW



Fast and Simple Setting: The HBPIR does not require power to set the time delay saving valuable time during installation.

– Load = 30s – 30m

Fast and Simple Testing: The HBPIR will “instant on” within 5 seconds. Upon initial power, relay is closed enabling labor savings testing in seconds.

Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.

Range and Coverage:

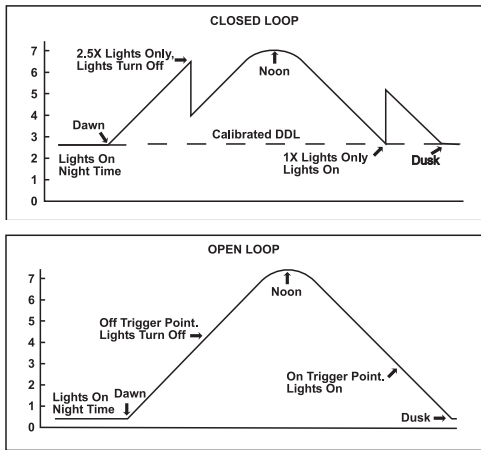
The 360° *high-bay PIR lens* provides a 2:1 spacing to mounting height coverage under 7,6 meters mounting and a 1.5:1 for heights up to 12,2 meters mounting.

The 360° *low-bay lens* provides 2:1 spacing to mounting height coverage for 2,4 to 6,1 meters mounting.

The *aisle lens* is designed to provide detection of 18,2 meters long by 6 meters wide for heights up to 12,2 meters mounting.

LED: Super bright green LED indicates occupancy detection and can be seen at 12,2 meters.

False Detection Protection: Energy saving technology is designed into the HBPIR to assure your lights are ON only when needed.



HBPIR&LIGHT SENSOR

Rotating Light Sensor: Optimal for best performance in locating light measurements (up, down and side lighting).

Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.

Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.

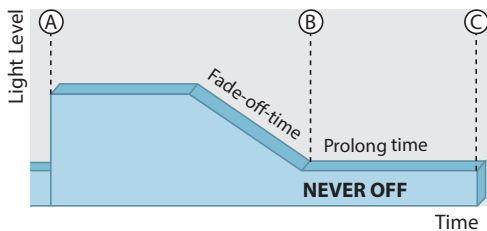
Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON in +/- 1 minute).

COR OPTION

Automatic switching is based on presence/motion with the time delay set on site to suit the customers requirements, where no presence is detected the light level will fade from 100% down to 10% saving up to 60% of the energy usage.

The **COR** function does not abruptly switch off the lighting but dims it to a 10% level. Depending on the profile selected the device remains at this light level (“never off” profile) or switches off completely after the appropriate delay (“Switch off” profile).

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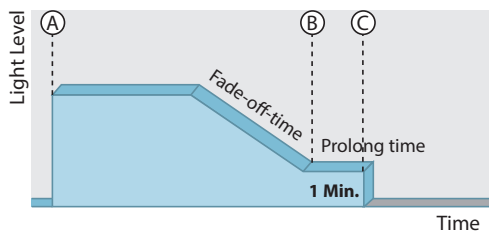


COR option

Standard profile “Never OFF” (A...100 %, B...10 %, Fade time 32 s, never OFF).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached.

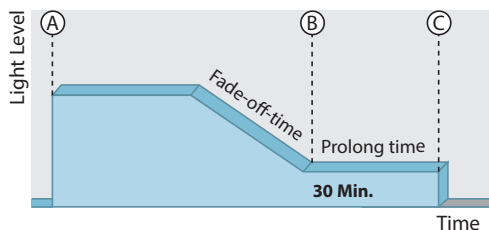
This corresponds to the default parameters.



COR1min option

Profile 2 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 1 minute).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next minute the ballast switches off completely.



COR30min option

Profile 3 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 30 minutes).

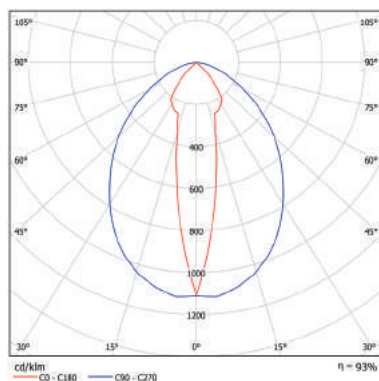
If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next 30 minutes the ballast switches off completely.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Blade 135 T04 Deluxe | 1x35 (G5) | 1590x225x180 | 7,4 | 38 |
| Blade 149 T05 Deluxe | 1x49 (G5) | 1590x225x180 | 7,4 | 53 |
| Blade 180 R62 Deluxe | 1x80 (G5) | 1590x225x180 | 7,4 | 85 |
| Blade 235 T06 Deluxe | 2x35 (G5) | 1590x225x180 | 7,4 | 75 |
| Blade 249 T07 Deluxe | 2x49 (G5) | 1590x225x180 | 7,4 | 104 |
| Blade 280 T08 Deluxe | 2x80 (G5) | 1590x225x180 | 7,5 | 170 |
| Blade 335 R64 Deluxe | 3x35 (G5) | 1590x580x180 | 19,6 | 113 |
| Blade 349 R65 Deluxe | 3x49 (G5) | 1590x580x180 | 19,6 | 157 |
| Blade 380 R60 Deluxe | 3x80 (G5) | 1590x580x180 | 19,8 | 255 |
| Blade 135235 R66 Deluxe | 1x35+2x35 (G5) | 1590x580x180 | 19,6 | 113 |
| Blade 149249 R67 Deluxe | 1x49+2x49 (G5) | 1590x580x180 | 19,6 | 158 |
| Blade 180280 R61 Deluxe | 1x80+2x80 (G5) | 1590x580x180 | 19,8 | 255 |

Options available on request:

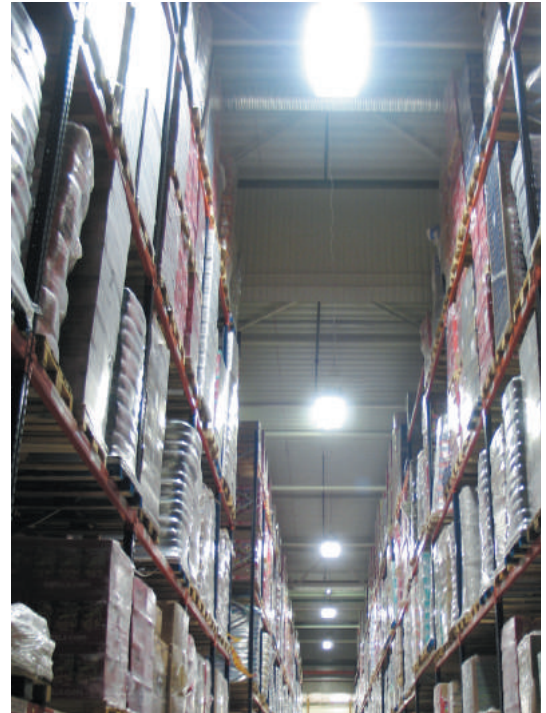
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- COR – Corridor function (never OFF)
- COR1min – Corridor function (switch OFF after 1 minute)
- COR30min – Corridor function (switch OFF after 30 minutes)
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- Deluxe – MIRO4 reflector
- HBPIR – PIR sensor for high ceiling applications (<12 meters)
- HBPIR&LIGHT – PIR & LIGHT sensor for high ceiling applications (<12 meters)
- HBPIRCOLD – PIR sensor for cold storage (<12 meters)
- HBPIRCOLD&LIGHT – PIR & LIGHT sensor for cold storage (<12 meters)
- IP54 – With PC diffuser and IP54 protection

BLADE 380 R60 DELUXE





Highbay fittings with metal halide lamp and energy consumptions of **440W** each before. Height 10-12 meters.

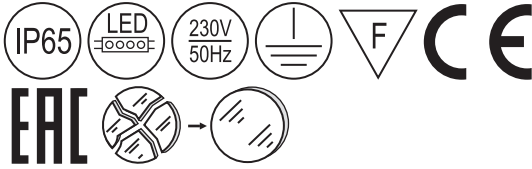


BLADE 380 R60 Deluxe COR HBPIR with energy consumptions from 76 to **255 W** each after. Height 10-12 meters.

BENTU LED



Luminaire for Use in Logistics Centers



Type: Luminaire for high mounting applications between shelves or open areas.

Specification: IP65 version is made with clear polycarbonate diffuser for protection from splinklers water jet. Optics: 45°, 60° or 120x60° beam. Three versions: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor. Light grey aluminium body. Luminaire is plastic-wrapped and packed individually.

Installation: Surface mounted luminaire is designed to be fixed to ceiling of any type or suspended.

Application: Indoor. For use in warehouse, production facilities, halls and logistics centers with ceiling heights of 10-12 meters and higher.

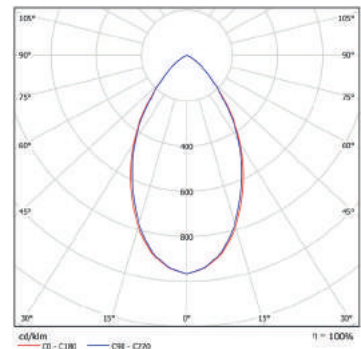
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Bentu LED1x8600 D443 T750 L45 | 1200x100x76 | 50000 | 9085 | 80 | 70+ | 5000 | 7,00 |
| Bentu LED1x10800 D444 T750 L45 | 1200x100x76 | 50000 | 11356 | 99 | 70+ | 5000 | 7,20 |
| Bentu LED1x12900 D445 T750 L45 | 1200x100x76 | 50000 | 13627 | 119 | 70+ | 5000 | 7,20 |
| Bentu LED1x15000 D446 T750 L45 | 1500x100x76 | 50000 | 15898 | 139 | 70+ | 5000 | 8,90 |
| Bentu LED1x17200 D447 T750 L45 | 1500x100x76 | 50000 | 18170 | 159 | 70+ | 5000 | 8,90 |
| Bentu LED1x8600 D443 T750 L60 | 1200x100x76 | 50000 | 9085 | 80 | 70+ | 5000 | 7,00 |
| Bentu LED1x10800 D444 T750 L60 | 1200x100x76 | 50000 | 11356 | 99 | 70+ | 5000 | 7,20 |
| Bentu LED1x12900 D445 T750 L60 | 1200x100x76 | 50000 | 13627 | 119 | 70+ | 5000 | 7,20 |
| Bentu LED1x15000 D446 T750 L60 | 1500x100x76 | 50000 | 15898 | 139 | 70+ | 5000 | 8,90 |
| Bentu LED1x17200 D447 T750 L60 | 1500x100x76 | 50000 | 18170 | 159 | 70+ | 5000 | 8,90 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

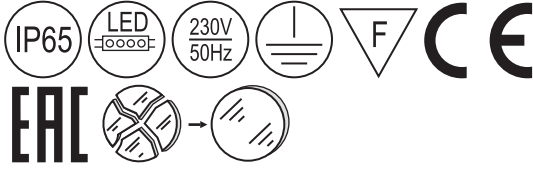
- DIM – Dimmable driver 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°

BENTU LED1X12900 D445 T750 L60



BRISA LED

Low-Bay Luminaire



Type: LED Luminaire for high mounting applications.

Specification: IP65 version is made with tempered glass diffuser.
Optics: 45°, 60° or 120x60° beam.
Light grey aluminium body.
Luminaire is plastic-wrapped and packed individually.

Installation: Suitable for surface mounting on ceiling.

Application: Indoor. For use in factories, warehouses, garages, halls and many others commercial applications.

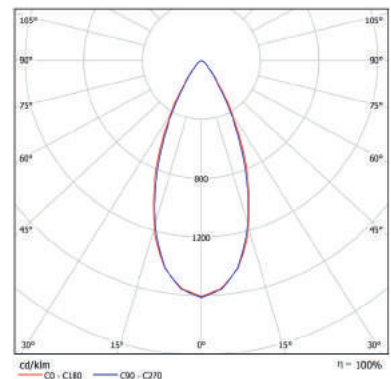
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Brisa LED1x8600 D448 T750 L45 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Brisa LED1x10800 D449 T750 L45 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Brisa LED1x12900 D450 T750 L45 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |
| Brisa LED1x8600 D448 T750 L60 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Brisa LED1x10800 D449 T750 L60 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Brisa LED1x12900 D450 T750 L60 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |
| Brisa LED1x8600 D448 T750 L60x120 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Brisa LED1x12900 D449 T750 L60x120 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Brisa LED1x12900 D450 T750 L60x120 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- DIM – Dimmable driver 1-10V
- SDIM – Switch-control/dimming
- DALI – DALI driver
- PC – PC diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

BRISA LED1X12900 D450 T750 L45



EVEREST A LED

Energy Saving LED
High-Bay Luminaire



**EVEREST AM LED1X13700 E068 T850
WID**

Type: An energy saving LED High-Bay Luminaire for high mounting applications and one-for-one replacement of 150W, 250W and 400W HID luminaires. With exceptional rated lifetimes, zero restrike time and significantly reduced lamp change maintenance costs.

Specification: Parabolic aluminium reflector with an optional tempered non-glare glass cover (DGL). Body in die-cast aluminium, in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suspended. Supplied with suspension hook and sealing washer for easy mounting.

Application: Indoor. For use in most industrial and many commercial applications.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Everest AS LED1x4400 E064 T850 WID | Ø358x231 | 50 000 | 4448 | 34 | 80+ | 5000 | 3,30 |
| Everest AS LED1x6200 E065 T850 WID | Ø358x231 | 50 000 | 6223 | 51 | 80+ | 5000 | 3,30 |
| Everest AM LED1x9600 E066 T850 WID | Ø459x301 | 50 000 | 9703 | 84 | 80+ | 5000 | 5,80 |
| Everest AM LED1x11700 E067 T850 WID | Ø459x301 | 50 000 | 11810 | 107 | 80+ | 5000 | 5,80 |
| Everest AM LED1x13700 E068 T850 WID | Ø459x301 | 50 000 | 13814 | 131 | 80+ | 5000 | 5,90 |
| Everest AB LED1x18500 E069 T850 WID | Ø561x361 | 50 000 | 18670 | 154 | 80+ | 5000 | 10,70 |

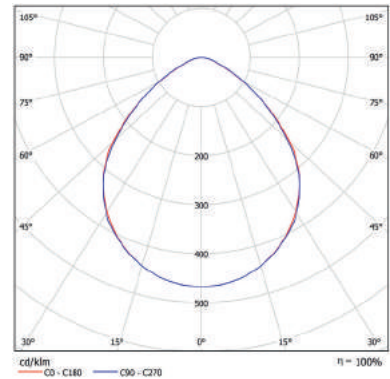
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Everest AB LED1x21000 E070 T850 WID | Ø561x361 | 50 000 | 21210 | 180 | 80+ | 5000 | 11,30 |
| Everest AS LED1x4400 E064 T850 DGL WID | Ø358x231 | 50 000 | 4246 | 34 | 80+ | 5000 | 3,30 |
| Everest AS LED1x6200 E065 T850 DGL WID | Ø358x231 | 50 000 | 5940 | 51 | 80+ | 5000 | 3,30 |
| Everest AM LED1x9600 E066 T850 DGL WID | Ø459x301 | 50 000 | 9262 | 84 | 80+ | 5000 | 5,80 |
| Everest AM LED1x11700 E067 T850 DGL WID | Ø459x301 | 50 000 | 11273 | 107 | 80+ | 5000 | 5,80 |
| Everest AM LED1x13700 E068 T850 DGL WID | Ø459x301 | 50 000 | 13186 | 131 | 80+ | 5000 | 5,90 |
| Everest AB LED1x18500 E069 T850 DGL WID | Ø561x361 | 50 000 | 17821 | 154 | 80+ | 5000 | 10,70 |
| Everest AB LED1x21000 E070 T850 DGL WID | Ø561x361 | 50 000 | 20487 | 180 | 80+ | 5000 | 11,30 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- DALI – DALI driver
- SDIM – Switch-control/dimming
- IP65 – IP65 protection lens cover
- WID – Wide beam reflector
- DGL – De-glare glass cover
- RAL – Reflector and body painted in RAL colour (subject to min. quantity)
- T830 – Colour temperature 3000K (subject to min. quantity)
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K

EVEREST AM LED1X12600 C068 T850 DGL WID



EVEREST

High-Bay Luminaire for Metal Halide Lamps



EVEREST 1250 E65 HI STR



EVEREST 1250 E65 HI GRID

- Type:** Luminaire for high mounting applications for metal halide lamps.
- Specification:** Parabolic reflector in aluminium in matted finish. Tempered glass cover.
Body in die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped. Reflector, gear box and glass cover are packed separately.
- Installation:** Supplied with suspension hook and sealing washer for easy mounting.
- Application:** Indoor. For use in most industrial and many commercial applications.



Through wired version is available on request



Switching device



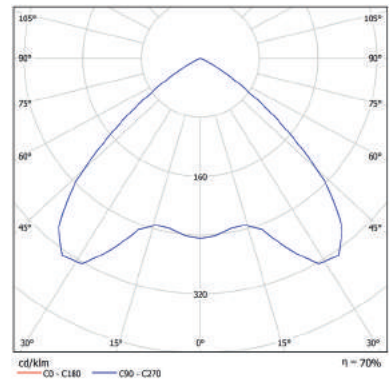
Reflector and body painted in RAL colour (subject to a minimum quantity)

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Everest 332 K77 | IP65, CFL | 3x32 (G24q-4) | ø485x615 | 7,2 | 96 |
| Everest 342 K78 | IP65, CFL | 3x42 (G24q-4) | ø485x615 | 7,2 | 132 |
| Everest 1150 I31 HI | IP65, HI | 1x150 (E27) | ø485x615 | 8,6 | 170 |
| Everest 1250 E65 HI | IP65, HI | 1x250 (E40) | ø485x615 | 9 | 280 |
| Everest 1400 E66 HI | IP65, HI | 1x400 (E40) | ø485x615 | 9,5 | 440 |
| Everest 1150 I31 HS | IP65, HS | 1x150 (E40) | ø485x615 | 8,6 | 170 |
| Everest 1250 E65 HS | IP65, HS | 1x250 (E40) | ø485x615 | 9 | 280 |
| Everest 1400 E60 HS | IP65, HS | 1x400 (E40) | ø485x615 | 9,5 | 440 |

Options available on request:

- TiM – Timed ignitor
- HS – For high pressure sodium lamp
- STR – Strip type reflector
- IP23 – Without protective glass
- GRID – Protective grid
- 1LIN – Through wiring version with two sealing washers
- GLMAT – Frosted tempered glass
- SWITCH – Switching device
- SINGLE – Single packing (assembled)
- RAL – Reflector and body painted in RAL colour

EVEREST 1250 E65 HI





NORTHCLIFFE
MAKING LIFE BRIGHTER

FLOODLIGHTS

www.northcliffe.org

BOREAS E LED

Budget LED Floodlight with Symmetric Reflector



Type: A budget range of LED floodlights with symmetric reflector. IP65 – water and dust protection for use in adverse conditions.

Specification: Symmetric reflector in anodized aluminium. Tempered non-glare glass diffuser. Body in die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. For building facades and perimeters, billboards, displays, car parks, etc.



A compact design with integral gear and light outputs in 3 body sizes: small, medium and large.

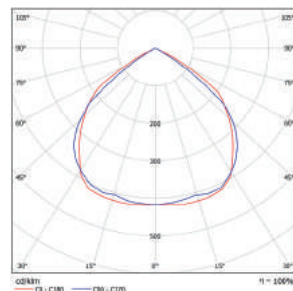
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Boreas ES LED1x800 B870 T750 | 184x118x35 | 20000 | 800 | 10 | 70+ | 5000 | 0,50 |
| Boreas EM LED1x1600 B871 T750 | 228x149x42 | 20000 | 1600 | 20 | 70+ | 5000 | 0,80 |
| Boreas EB LED1x2400 B872 T750 | 331x217x45 | 20000 | 2400 | 30 | 70+ | 5000 | 1,80 |
| Boreas EB LED1x3200 B873 T750 | 331x217x45 | 20000 | 3200 | 40 | 70+ | 5000 | 1,80 |
| Boreas EB LED1x4000 B874 T750 | 331x217x45 | 20000 | 4000 | 50 | 70+ | 5000 | 1,90 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

T750 – Colour temperature 5000K

BOREAS EB LED1x2400 B872 T750



BOREAS S LED

Modern LED Floodlight with Symmetric Reflector



Type: A modern range of compact design LED floodlights with IP65 water and dust protection for use in adverse conditions.

Specification: Symmetric reflector in anodized aluminium. Tempered glass diffuser with aluminium clip. Body in die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. For building facades and perimeters, billboards, displays, car parks, etc.



A compact design with integral gear and light outputs in 2 body sizes: small and medium.

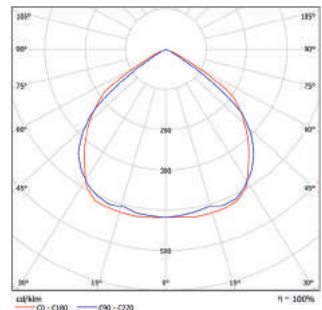
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Boreas SS LED1x2200 C061 T850 | 220x182x57 | 50000 | 2154 | 19 | 80+ | 5000 | 1,40 |
| Boreas SM LED1x4000 C062 T850 | 296x246x75 | 50000 | 3956 | 34 | 80+ | 5000 | 2,60 |
| Boreas SM LED1x5400 C063 T850 | 296x246x75 | 50000 | 5358 | 48 | 80+ | 5000 | 2,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

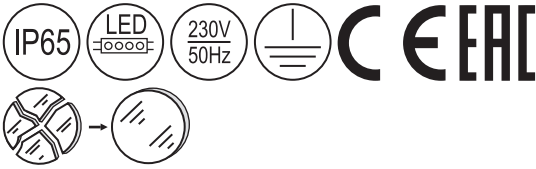
- DALI – DALI driver
- SDIM – Switch-control/dimming
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K (subject to min. quantity)

BOREAS SM LED1X4000 C062 T850



BOREAS C LED

Architectural LED
Floodlight with Clips



BOREAS CB LED1X20000 C060 T850

Type: An architectural range of high output LED floodlights with IP65 water and dust protection for use in adverse conditions.

Specification: Symmetric reflector in anodized aluminium. Clear tempered glass diffuser with aluminium clips. Body in die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. For building facades and perimeters, billboards, displays, car parks, etc.



An architectural design with integral gear and light outputs in 2 body sizes: medium and large.

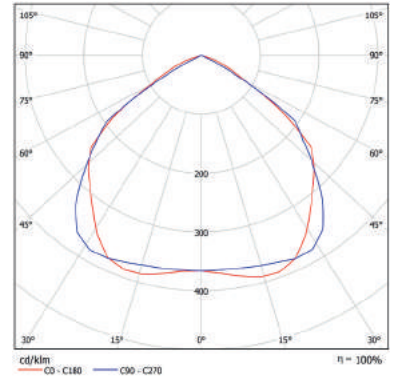
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Boreas CM LED1x7400 E056 T850 | 386x285x133 | 50000 | 7481 | 61 | 80+ | 5000 | 4,60 |
| Boreas CM LED1x9600 E057 T850 | 386x285x133 | 50000 | 9703 | 84 | 80+ | 5000 | 4,60 |
| Boreas CM LED1x11100 E058 T850 | 386x285x133 | 50000 | 11219 | 100 | 80+ | 5000 | 4,60 |
| Boreas CB LED1x19200 E059 T850 | 430x438x150 | 50000 | 19406 | 167 | 80+ | 5000 | 9,30 |
| Boreas CB LED1x22200 E060 T850 | 430x438x150 | 50000 | 22438 | 200 | 80+ | 5000 | 9,30 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

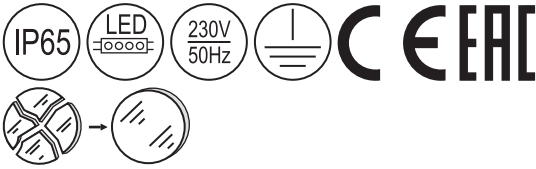
- DALI – DALI driver
- SDIM – Switch-control/dimming
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K (subject to min. quantity)

BOREAS CB LED1X22200 E060 T850



BOREAS M LED

Architectural LED Floodlight
with Wide Choice of Optics



Type: An architectural range of high output LED floodlights with IP65 water and dust protection for use in adverse conditions.

Specification: Tempered glass fixed with aluminium clips. Ability to choose lenses with 12°, 30°, 45°, 60°, 90° and several asymmetric light beam optics.
Body in die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. For building facades and perimeters, displays, car parks, etc.

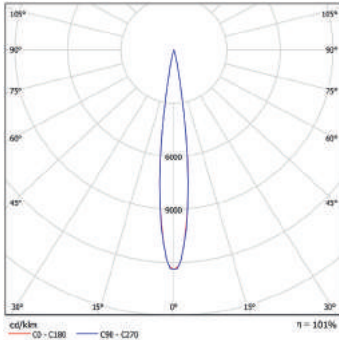
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Boreas MS LED1x4400 D349 T740 LSA2 | 338x280x60 | 50000 | 4319 | 34 | 70+ | 4000 | 2,80 |
| Boreas MS LED1x6100 D350 T740 LSA2 | 338x280x60 | 50000 | 6036 | 53 | 70+ | 4000 | 2,80 |
| Boreas MM LED1x8800 D351 T740 LSA2 | 444x353x66 | 50000 | 8712 | 79 | 70+ | 4000 | 5,00 |
| Boreas MM LED1x12100 D352 T740 LSA2 | 444x353x66 | 50000 | 12072 | 106 | 70+ | 4000 | 5,00 |
| Boreas MB LED1x15100 D353 T740 LSA2 | 515x420x87 | 50000 | 15090 | 132 | 70+ | 4000 | 7,60 |
| Boreas MB LED1x18200 D354 T740 LSA2 | 515x420x87 | 50000 | 18108 | 159 | 70+ | 4000 | 7,60 |
| Boreas MB LED1x24200 D355 T740 LSA2 | 515x420x87 | 50000 | 24144 | 212 | 70+ | 4000 | 7,60 |

* Tolerance range for optical and electrical data: ±10 %

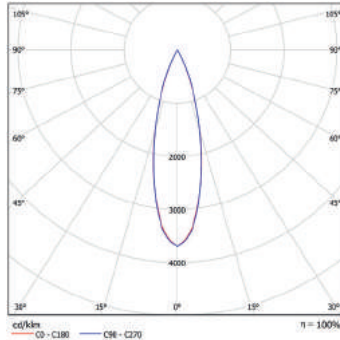
OPTIONS AVAILABLE ON REQUEST:

- | | | | |
|------|--|------|-------------------------|
| DALI | - DALI driver | LS30 | - 30° beam angle |
| ADIM | - Power reduction device with automatic reduction and middle night detection | LS45 | - 45° beam angle |
| T730 | - Colour temperature 3000K (subject to min. quantity) | LS60 | - 60° beam angle |
| T740 | - Colour temperature 4000K | LS90 | - 90° beam angle |
| LS12 | - 12° beam angle | LSA1 | - Asymmetric optics SA1 |
| | | LSA2 | - Asymmetric optics SA2 |
| | | LSM1 | - Asymmetric optics SM1 |

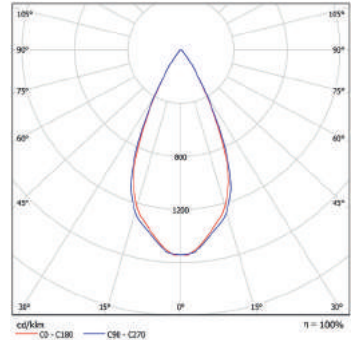
**BOREAS MM LED1X12100 D352
T740 LS12**



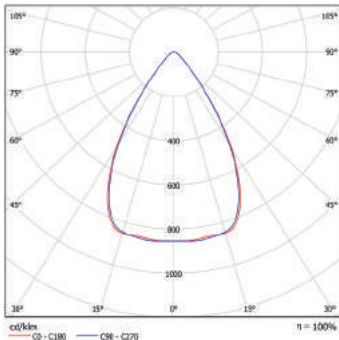
**BOREAS MM LED1X12100 D352
T740 LS30**



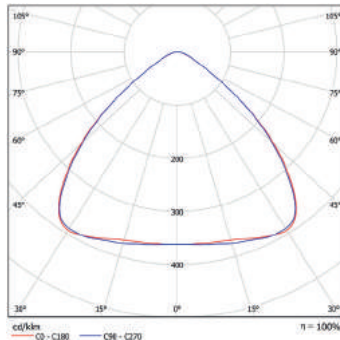
**BOREAS MM LED1X12100 D352
T740 LS45**



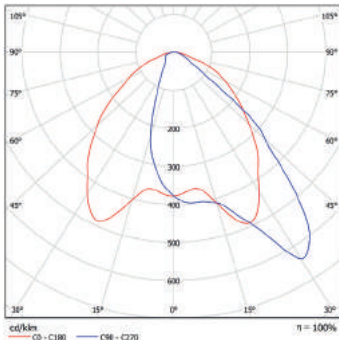
**BOREAS MM LED1X12100 D352
T740 LS60**



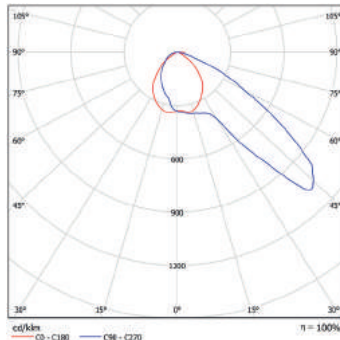
**BOREAS MM LED1X12100 D352
T740 LS90**



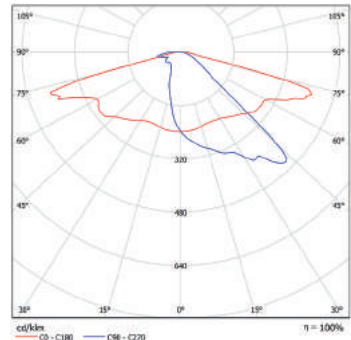
**BOREAS MM LED1X12100 D352
T740 LSA1**



**BOREAS MM LED1X12100 D352
T740 LSA2**

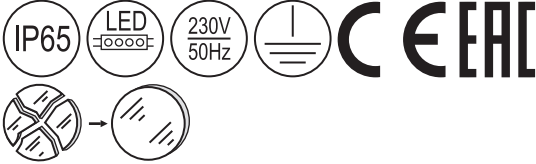


**BOREAS MM LED1X12100 D352
T740 LSM1**



BORASCO LED

LED Floodlight with Lens optics



- Type:** A range of LED floodlights with IP65 water and dust protection for use in adverse conditions.
- Specification:** Tempered glass diffuser. Ability to choose lenses with 45°, 60° or 120x60° optics.
Body in aluminium in light grey finish.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Description | Overall dimensions, mm | Luminous flux, lm | Colour temperature, K | Colour rendering, Ra | Total wattage, W | Weight, kg |
|--------------------------------------|--------------|------------------------|-------------------|-----------------------|----------------------|------------------|------------|
| Borasco LED1x10000 B647 T750 L45 | Lens 45° | 460x350x110 | 10080 | 5000 | 70 | 88 | 8,8 |
| Borasco LED1x12500 B648 T750 L45 | Lens 45° | 460x350x110 | 12600 | 5000 | 70 | 110 | 8,8 |
| Borasco LED1x15000 B649 T750 L45 | Lens 45° | 460x350x110 | 15120 | 5000 | 70 | 132 | 8,8 |
| Borasco LED1x10000 B647 T750 L60 | Lens 60° | 460x350x110 | 10080 | 5000 | 70 | 88 | 8,8 |
| Borasco LED1x12500 B648 T750 L60 | Lens 60° | 460x350x110 | 12600 | 5000 | 70 | 110 | 8,8 |
| Borasco LED1x15000 B649 T750 L60 | Lens 60° | 460x350x110 | 15120 | 5000 | 70 | 132 | 8,8 |
| Borasco LED1x10000 B647 T750 L60x120 | Lens 60x120° | 460x350x110 | 10080 | 5000 | 70 | 88 | 8,8 |
| Borasco LED1x12500 B648 T750 L60x120 | Lens 60x120° | 460x350x110 | 12600 | 5000 | 70 | 110 | 8,8 |
| Borasco LED1x15000 B649 T750 L60x120 | Lens 60x120° | 460x350x110 | 15120 | 5000 | 70 | 132 | 8,8 |

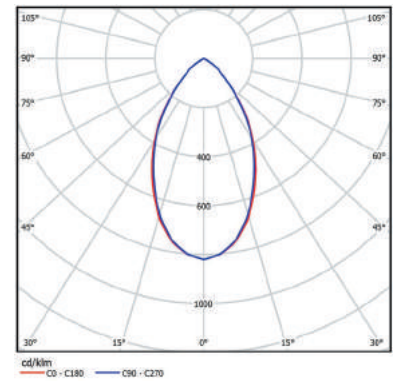
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Borasco LED1x8600 D451 T750 L45 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Borasco LED1x10800 D452 T750 L45 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Borasco LED1x12900 D453 T750 L45 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |
| Borasco LED1x8600 D451 T750 L60 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Borasco LED1x10800 D452 T750 L60 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Borasco LED1x12900 D453 T750 L60 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |
| Borasco LED1x8600 D451 T750 L60x120 | 370x310x190 | 50000 | 9085 | 80 | 70+ | 5000 | 8,60 |
| Borasco LED1x10800 D452 T750 L60x120 | 370x310x190 | 50000 | 11356 | 99 | 70+ | 5000 | 8,60 |
| Borasco LED1x12900 D453 T750 L60x120 | 370x310x190 | 50000 | 13627 | 119 | 70+ | 5000 | 8,60 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

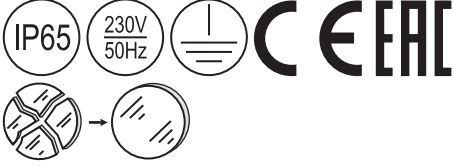
- SDIM – Switch-control/dimming
- DALI – DALI driver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

BORASCO LED1x15000 B649 T750 L60



BOREAS

Discharge Floodlight for Metal Halide Lamps with Symmetric Reflector



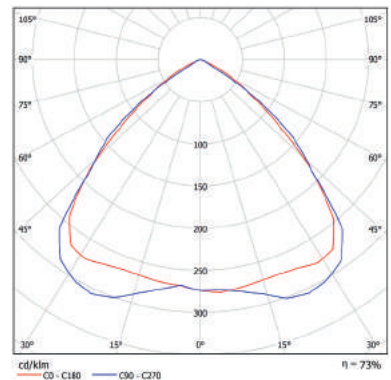
- Type:** A range of discharge floodlights with symmetric reflector for metal halide lamps. IP65 – water and dust protection for use in adverse conditions.
- Specification:** Faceted symmetric reflector in anodized aluminium. Tempered glass diffuser. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 170 E73 HI | 1x70 (RX7s) | 280x232x170 | 3,5 | 83,5 |
| Boreas 1150 E74 HI | 1x150 (RX7s) | 280x232x170 | 4,2 | 168 |
| Boreas 170 E73 HS | 1x70 (RX7s) | 280x232x170 | 3,5 | 83,5 |
| Boreas 1150 E74 HS | 1x150 (RX7s) | 280x232x170 | 4,2 | 168 |

Options available on request:

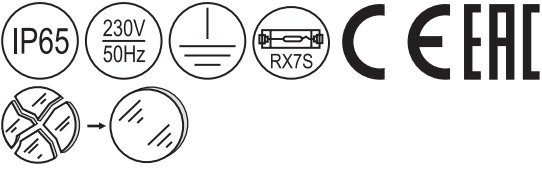
- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 170 E73 HI



BOREAS

Discharge Floodlight for Metal Halide Lamps with Asymmetric Reflector



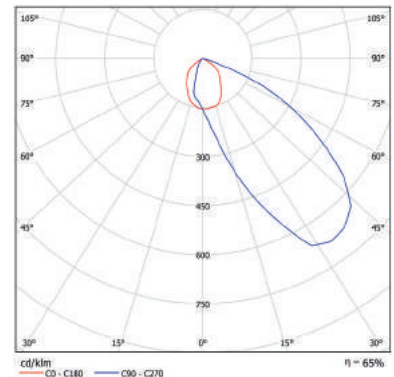
- Type:** A range of discharge floodlights with asymmetric reflector for metal halide lamps. IP65 – water and dust protection for use in adverse conditions.
- Specification:** Body in aluminium in dark grey finish. Faceted asymmetric reflector in anodized aluminium, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 170 E71 HI | 1x70 (RX7s) | 434x230x87 | 3,6 | 83,5 |
| Boreas 1150 E72 HI | 1x150 (RX7s) | 434x230x87 | 4,5 | 168 |
| Boreas 170 E71 HS | 1x70 (RX7s) | 434x230x87 | 3,6 | 83,5 |
| Boreas 1150 E72 HS | 1x150 (RX7s) | 434x230x87 | 4,5 | 168 |

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 170 E71 HI



BOREAS

Discharge Floodlight for Metal Halide Lamps with Asymmetric Reflector



Type: A range of discharge floodlights with asymmetric reflector for metal halide lamps. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted asymmetric reflector in anodized aluminium, clear glass diffuser.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

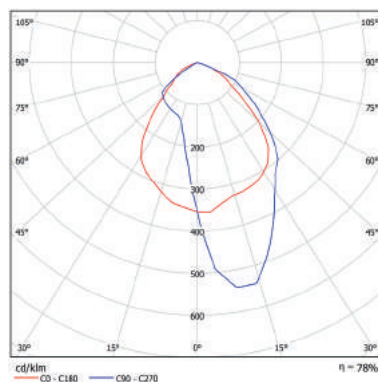
Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 1150 I77 HI | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E75 HI | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E76 HI | 1x400 (E40) | 514x420x146 | 9 | 440 |
| Boreas 1150 I77 HS | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E75 HS | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E76 HS | 1x400 (E40) | 514x420x146 | 9 | 440 |

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 E75 HI



BOREAS

Discharge Floodlight for Metal Halide Lamps with Symmetric Reflector



Type: A range of discharge floodlights with symmetric reflector for metal halide lamps. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted symmetric reflector in anodized aluminium. Tempered glass diffuser. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

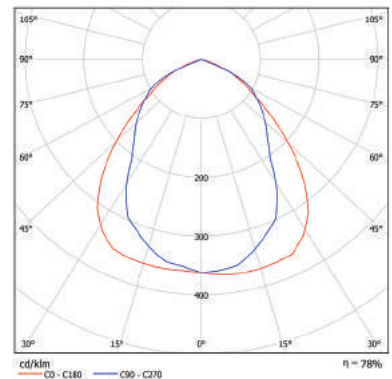
Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 1150 I79 HI | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E77 HI | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E78 HI | 1x400 (E40) | 514x420x146 | 9 | 440 |
| Boreas 1150 I79 HS | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E77 HS | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E78 HS | 1x400 (E40) | 514x420x146 | 9 | 440 |

Options available on request:

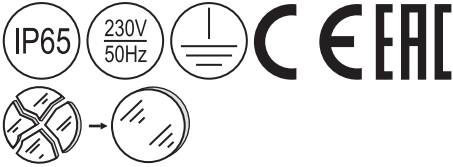
- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 E77 HI



BOREAS CL

Discharge Floodlight with Clips and Asymmetric Reflector



Type: A range of discharge floodlights with asymmetric reflector and aluminium clips. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted asymmetric reflector in anodized aluminium. Clear glass diffuser with aluminium clips. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

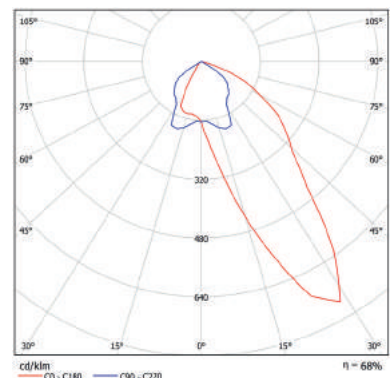
Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 170 K52 CL HI | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K53 CL HI | 1x150 W(RX7s) | 445x275x130 | 4,5 | 168 |
| Boreas 170 K52 CL HS | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K53 CL HS | 1x150 W(RX7s) | 445x275x130 | 4,5 | 168 |

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1150 K53 CL HI



BOREAS CL

Discharge Floodlight with Clips and Asymmetric Reflector



Type: A range of discharge floodlights with asymmetric reflector and aluminium clips. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted asymmetric reflector in anodized aluminium. Clear glass diffuser with aluminium clips. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

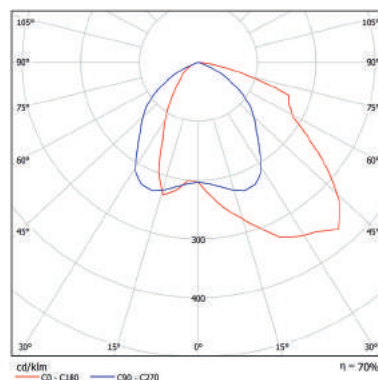
Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 1150 K54 CL HI | 1x150 (E27) | 500x420x145 | 7 | 168 |
| Boreas 1250 K55 CL HI | 1x250 (E40) | 500x420x145 | 8,2 | 280 |
| Boreas 1400 K56 CL HI | 1x400 (E40) | 500x420x145 | 9 | 440 |
| Boreas 1150 K54 CL HS | 1x150 (E40) | 500x420x145 | 7 | 168 |
| Boreas 1250 K55 CL HS | 1x250 (E40) | 500x420x145 | 8,2 | 280 |
| Boreas 1400 K56 CL HS | 1x400 (E40) | 500x420x145 | 9 | 440 |

Options available on request:

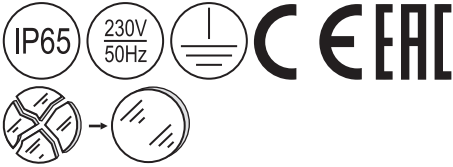
- TIM – Timed ignitor
- HF – High Frequency control gear
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 K55 CL HI



BOREAS CL

Discharge Floodlight with Clips and Spot Reflector



- Type:** A range of discharge floodlights with spot reflector and aluminium clips. IP65 – water and dust protection for use in adverse conditions.
- Specification:** Spot reflector made of bright anodized aluminium. Clear glass cover with aluminium clips. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Outdoor. Efficient floodlight for building facades, churches, statues, displays, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 170 K02 CL SPOT HI | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K03 CL SPOT HI | 1x150 W(RX7s) | 445x275x130 | 4,5 | 168 |
| Boreas 170 K02 CL SPOT HS | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K03 CL SPOT HS | 1x150 W(RX7s) | 445x275x130 | 4,5 | 168 |

Options available on request:

- TIM – Timed ignitor
- HF – High Frequency control gear
- HI – For metal halide lamps
- HS – For high pressure sodium lamp

BOREAS

Discharge Floodlight for Metal Halide Lamps with Symmetric Reflector



Type: A high power discharge floodlight with symmetric reflector for metal halide lamps. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted symmetric reflector in anodized aluminium. Clear glass cover with aluminium clips. Body in aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

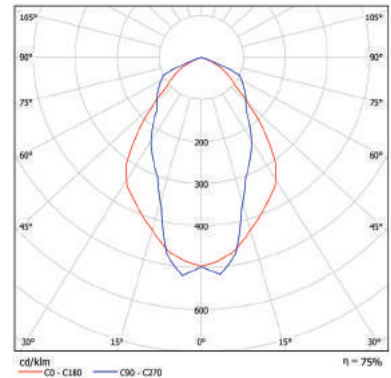
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 1600 R83 HS | 1x600 (E40) | 600x525x165 | 17,9 | 660 |
| Boreas 11000 M03 HI | 1x1000 (E40) | 600x525x165 | 19,8 | 1075 |
| Boreas 11000 M03 HS | 1x1000 (E40) | 600x525x165 | 19,8 | 1075 |

With separate gear box

Options available on request:

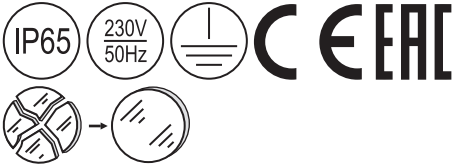
- TIM – Timed ignitor
- HI – For metal halide lamps
- HS – For high pressure sodium lamp

BOREAS 11000 M03 HI



BOREAS

Asymmetric Floodlight for Discharge Lamps



Type: A high power asymmetric floodlight for discharge lamps. IP65 – water and dust protection for use in adverse conditions.

Specification: Faceted asymmetric reflector in anodized aluminium. Tempered glass cover.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

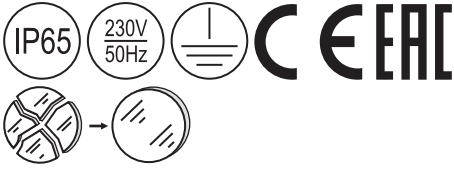
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|--------------------------------|------------|------------------|
| Boreas 11000 R71 AS HI | 1x1000 (E40) | 530x500x195 | 19,8 | 1075 |
| Boreas 11000 R71 AS HS | 1x1000 (E40) | 530x500x195 | 19,8 | 1075 |

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp
- AS – Asymmetric reflector

ARENA

Discharge Floodlight for Sports
Field and Stadium Lighting



ARENA 11000 N86 BLD

ARENA 11000 N86

Type: A high specification and performance discharge floodlight with a choice of symmetric or asymmetric reflector. IP65 – water and dust protection for use in adverse conditions.

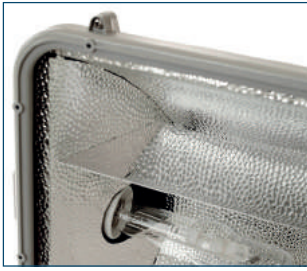
Specification: Faceted symmetric reflector in anodized aluminium or circular reflector in matted aluminium. Thermal resistant glass diffuser sealed with anti-ageing silicone gasket. Body in aluminium in dark grey finish. Luminaire and gear box is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient floodlight for sport fields, stadiums, perimeters and airports etc.



Easy installation and maintenance with rear access to the lamp and IP65 water/dust protection. Stainless steel clips.



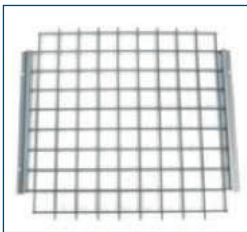
Additional blade provides better glare control and serves for asymmetric light distribution. See option list (BLD).



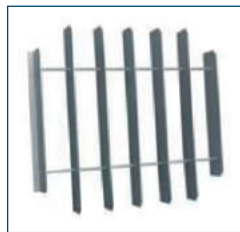
Ventilation valve ensures excess moisture depletion from inside of the luminaire and protects internal parts from corrosion.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Arena 11000 N86 | symmetric | 1x1000 (E40) | 744x665x265 | 26 | 1075 |
| Arena 11000 N86 BLD | asymmetric | 1x1000 (E40) | 744x665x265 | 26 | 1075 |
| Arena 12000 N89 | symmetric | 1x2000 (E40) | 744x665x265 | 28 | 2150 |
| Arena 12000 N89 BLD | asymmetric | 1x2000 (E40) | 744x665x265 | 28 | 2150 |

All luminaires are supplied with separate gear box



GRID A2



FRAME A1



FRAME A2

Accessories for glass protection or better glare control are available on request. Please use short names placing order.

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamps
- HS – For high pressure sodium lamp
- BLD – For asymmetric light distribution



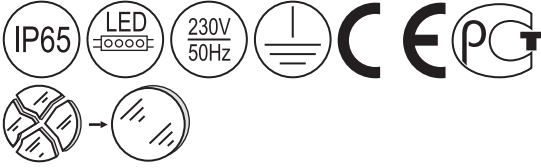
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OUTDOOR ACCENT LIGHTING

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GRUS LED

A Narrow Beam LED Projector



Type: A range of narrow beam and high intensity LED projectors with lenses.

Specification: Tempered glass. Ability to choose lenses with 15° and 30° beam optics. Tempered glass fixed with stainless steel screws.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient projector for illuminating the churches, flag poles, monuments, building facades, etc.

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Grus S LED1x800 C313 T740 L15 | Ø120x90 | 50000 | 802 | 8 | 70+ | 4000 | 0,9 |
| Grus S LED1x1100 C314 T740 L15 | Ø120x90 | 50000 | 1087 | 11 | 70+ | 4000 | 0,9 |
| Grus S LED1x800 C313 T740 L30 | Ø120x90 | 50000 | 802 | 8 | 70+ | 4000 | 0,9 |
| Grus S LED1x1100 C314 T740 L30 | Ø120x90 | 50000 | 1087 | 11 | 70+ | 4000 | 0,9 |

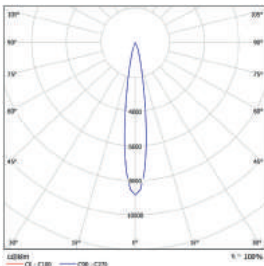
* Tolerance range for optical and electrical data: ±10 %

Options available on request:

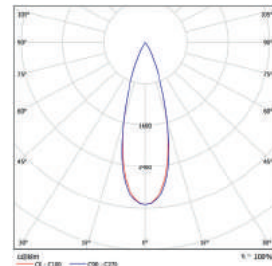
T730 – Colour temperature 3000K (subject to min. quantity)
T740 – Colour temperature 4000K

L12 – 15° beam angle
L30 – 30° beam angle

GRUS S LED1X1100 C314 T740 L15

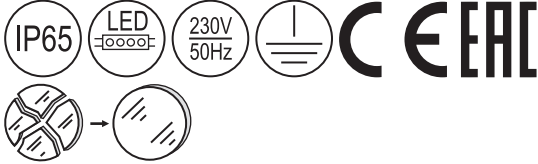


GRUS S LED1X1100 C314 T740 L30



GRUS M&B LED

A Narrow Beam LED Projector



Type: A range of narrow beam and high intensity LED projectors with lenses.

Specification: Tempered glass. Ability to choose lenses with 15° and 30° beam optics. Tempered glass fixed with stainless steel screws.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient projector for illuminating the churches, flag poles, monuments, building facades, etc.



Accessories for better glare control are available on request. Please use short names when placing order (**Grus LED Louver D230** for **GRUS M LED** version and **Grus LED Louver D310** for **GRUS B LED** version).

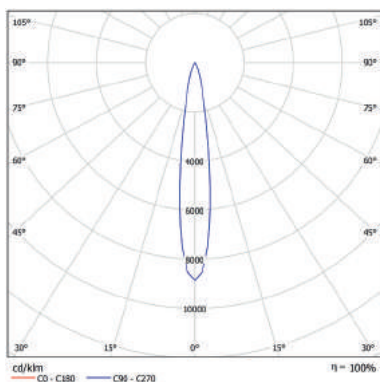
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Grus M LED1x3800 C399 T740 L15 | Ø230x118 | 50000 | 3739 | 32 | 70+ | 4000 | 3,7 |
| Grus M LED1x5300 C400 T740 L15 | Ø230x118 | 50000 | 5280 | 49 | 70+ | 4000 | 3,7 |
| Grus M LED1x5900 C401 T740 L15 | Ø230x118 | 50000 | 5891 | 57 | 70+ | 4000 | 3,7 |
| Grus B LED1x8400 C413 T740 L15 | Ø310x137 | 50000 | 8396 | 73 | 70+ | 4000 | 6,5 |
| Grus B LED1x10600 C414 T740 L15 | Ø310x137 | 50000 | 10560 | 99 | 70+ | 4000 | 6,5 |
| Grus B LED1x12000 C415 T740 L15 | Ø310x137 | 50000 | 11977 | 117 | 70+ | 4000 | 6,5 |
| Grus LED Louver D230 | Ø230x50 | | | | | | |
| Grus LED Louver D310 | Ø310x50 | | | | | | |

* Tolerance range for optical and electrical data: $\pm 10\%$

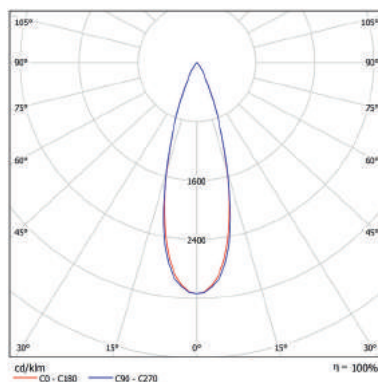
Options available on request:

- DALI – DALI driver
- ADIM – Power reduction device with automatic reduction and middle night detection
- T730 – Colour temperature 3000K (subject to min. quantity)
- T740 – Colour temperature 4000K
- L12 – 15° beam angle
- L30 – 30° beam angle

GRUS M LED1X5300 C400 T740 L15



GRUS M LED1X5300 C400 T740 L30



RADIUS

A Narrow Beam Projector with Spot Reflector



Type: A range of narrow beam and high intensity projectors with spot reflector. IP65 – water and dust protection for use in adverse conditions.

Specification: Spot reflector is made of bright anodized aluminium. Tempered glass cover is fixed with stainless steel screws.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient projector for illuminating the churches, flag poles, monuments, building facades, etc.

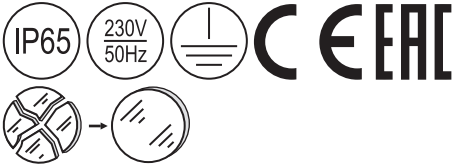
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|--------------------------------|------------|------------------|
| Radius 135 N81 HI | 1x35 W(G12) | Ø175x265 | 3,4 | 44 |
| Radius 170 N82 HI | 1x70 W(G12) | Ø175x265 | 3,4 | 83,5 |

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamps
- HF – High Frequency control gear

GRUS

A Spotlight Projector with Stainless Steel Clips



GRUS 1150 N98

Type: A range of projectors with a spot reflector and high intensity beam. IP65 – water and dust protection for use in adverse conditions.

Specification: Spot reflector is made of bright anodized aluminium. Tempered glass cover fixed with stainless steel clips.
Body in aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

Application: Outdoor. Efficient projector for illuminating the churches, flag poles, monuments, building facades, etc.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Grus 150 N95 | 1x50 W(E27) | Ø275x400x255 | 3,5 | 62 |
| Grus 170 N96 | 1x70 W(E27) | Ø275x400x255 | 3,5 | 84 |
| Grus 1100 N97 | 1x100 W(E27) | Ø275x400x255 | 3,5 | 116 |
| Grus 1150 N98 | 1x150 W(E27) | Ø275x400x255 | 4,1 | 168 |

Options available on request:

- HI – For metal halide lamps
- HS – For high pressure sodium lamp
- TIM – Timed ignitor
- HF – High Frequency control gear

CAVER LED

Slim IP65 Luminaire for Lighting Building Facades



Type: Dust and moisture proof LED IP65 fixture for lighting building facades.

Specification: Clear PC glass is fixed to the body. Ability to choose lenses with 60° or 120x60° optics. The body is made of extruded aluminium profile, light grey finished. Silicone rubber sealing provides reliable IP protection. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface mounted luminaire is designed to be fixed to walls of any type.

Application: Outdoor. Dust and moisture proof luminaire, efficient floodlight for building facades and bridges.



The fixture is supplied with adjustable angle bracket which can be slid along the length of the extrusion.

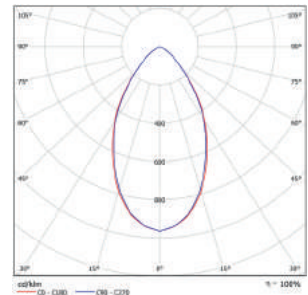
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Caver LED1x3100 C416 T750 L60 | 380x80x170 | 50000 | 3206 | 30 | 70+ | 5000 | 4,0 |
| Caver LED1x3100 C416 T750 L60x120 | 380x80x170 | 50000 | 3206 | 30 | 70+ | 5000 | 4,0 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

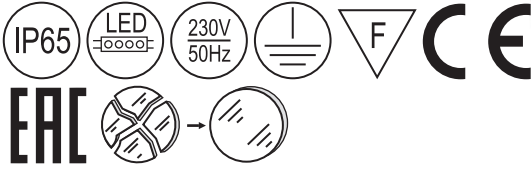
- DIM – Dimmable driver 1-10V
- DALI – DALI driver
- SDIM – Switch-control/dimming
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L60 – Lens 60°
- L60x120 – Lens 60x120°

CAVER LED1X3100 C416 T750 L60



CYGNI

Aluminium IP65 Luminaire



CYGNI 128 Q99

Type: Dust and moisture proof IP65 fixture is made of aluminium profile.

Specification: Tempered safety glass is fixed to the body. Glossy aluminium reflector. The body is made of extruded aluminium profile, dark grey finished. Silicone rubber sealing provides reliable IP protection. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface mounted luminaire is designed to be fixed to walls of any type.

Application: Outdoor. Dust and moisture proof luminaire, efficient floodlight for building facades and bridges.

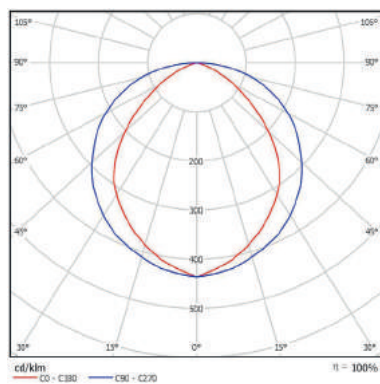
| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|--------------------------------|------------|------------------|
| Cygni 114 Q97 | 1x14 (G5) | 630x62x63 | 2,1 | 16 |
| Cygni 124 Q98 | 1x24 (G5) | 630x62x63 | 2,1 | 25 |
| Cygni 128 Q99 | 1x28 (G5) | 1200x62x63 | 4,1 | 30 |
| Cygni 154 R01 | 1x54 (G5) | 1200x62x63 | 4,1 | 58 |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Cygni LED1x1200 E257 T830 | 630x62x63 | 50000 | 1106 | 10 | 80+ | 3000 | 2,1 |
| Cygni LED1x2500 E258 T830 | 1200x62x63 | 50000 | 2335 | 21 | 80+ | 3000 | 4,1 |
| Cygni LED1x1200 E257 T840 | 630x62x63 | 50000 | 1123 | 10 | 80+ | 4000 | 2,1 |
| Cygni LED1x2500 E258 T840 | 1200x62x63 | 50000 | 2438 | 21 | 80+ | 4000 | 4,1 |

* Tolerance range for optical and electrical data: ±10 %

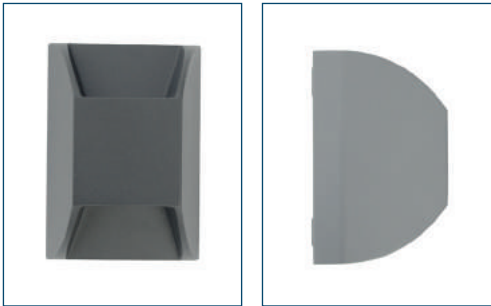
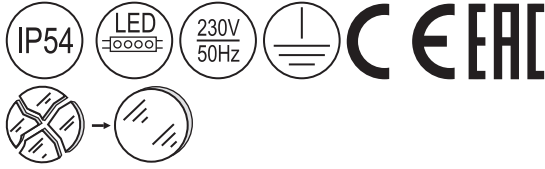
Options available on request:

- DIM – Dimmable ballast / driver 1-10V
- DALI – DALI ballast / driver
- SDIM – Switch-control/dimming
- OP – Opal diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K



AUSTRU D LED

Wall Mounted Luminaire



Type: A non-corrosive architectural luminaire. IP54 – water and dust protection for use in adverse conditions.

Specification: 2x60° beam angle optics. Tempered glass cover.
Die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on walls.

Application: Outdoor. Building exteriors and other areas.

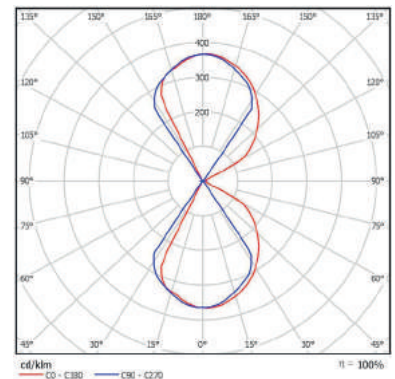
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Austru D LED1x600 C406 T740 2L60 | 125x90x80 | 40000 | 510 | 7 | 70+ | 4000 | 0,55 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

T740 – Colour temperature 4000K

AUSTRU D LED1X600 C406 T740 2L60



TUBE B & M

Wall Mounted Luminaire for
Decorative Lighting



TUBE M SR LED1X1500 D049 T750 L45

TUBE M UP LED1X1500 D046 T750 L45

Type: A range of wall mounted luminaires with pleasing direct/indirect light distribution.

Specification: Tempered glass diffuser.
Die-cast aluminium body in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for wall mounting on any vertical surface. TUBE SR version designed for mounting on ceiling.

Application: Outdoor. Ideal for numerous indoor and outdoor applications.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Tube B 270 R05 | 2x70 W(Rx7s) | Ø180x500 | 3,4 | 160 |
| Tube B UP 170 Z51 | 1x70 W(Rx7s) | Ø180x220 | 3,0 | 80 |
| Tube B UP 1150 Z52 | 1x150 W(Rx7s) | Ø180x220 | 3,1 | 170 |
| Tube B SUR 170 Z53 | 1x70 W(Rx7s) | Ø180x220 | 3,0 | 80 |
| Tube B SUR 1150 Z54 | 1x150 W(Rx7s) | Ø180x220 | 3,1 | 170 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|--------------------------------|------------|------------------|
| Tube M 235 R10 | 2x35 W(G12) | Ø155x464 | 2,8 | 88 |
| Tube M UP 135 R12 | 1x35 W(G12) | Ø155x250 | 1,8 | 44 |
| Tube M UP 170 R14 | 1x70 W(G12) | Ø155x250 | 2,2 | 80 |
| Tube M SUR 135 Z55 | 1x35 W(G12) | Ø155x250 | 1,8 | 44 |
| Tube M SUR 170 Z56 | 1x70 W(G12) | Ø155x250 | 2,2 | 80 |

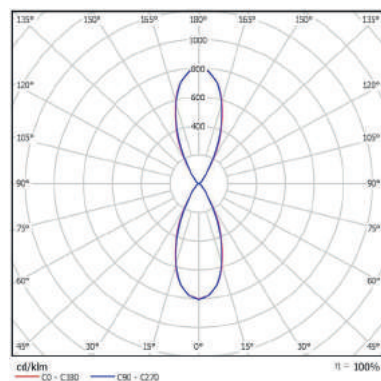
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Tube M LED2x1100 D042 T750 L45 | Ø155x464 | 50000 | 2271 | 21 | 70+ | 5000 | 3,2 |
| Tube M LED2x1500 D043 T750 L45 | Ø155x464 | 50000 | 3052 | 29 | 70+ | 5000 | 3,2 |
| Tube M LED2x2000 D044 T750 L45 | Ø155x464 | 50000 | 4111 | 43 | 70+ | 5000 | 3,2 |
| Tube M LED2x1100 D042 T750 L60 | Ø155x464 | 50000 | 2271 | 21 | 70+ | 5000 | 3,2 |
| Tube M LED2x1500 D043 T750 L60 | Ø155x464 | 50000 | 3052 | 29 | 70+ | 5000 | 3,2 |
| Tube M LED2x2000 D044 T750 L60 | Ø155x464 | 50000 | 4111 | 43 | 70+ | 5000 | 3,2 |
| Tube M UP LED1x1100 D045 T750 L45 | Ø155x250 | 50000 | 1136 | 11 | 70+ | 5000 | 2,2 |
| Tube M UP LED1x1500 D046 T750 L45 | Ø155x250 | 50000 | 1526 | 15 | 70+ | 5000 | 2,2 |
| Tube M UP LED1x2000 D047 T750 L45 | Ø155x250 | 50000 | 2055 | 23 | 70+ | 5000 | 2,2 |
| Tube M UP LED1x1100 D045 T750 L60 | Ø155x250 | 50000 | 1136 | 11 | 70+ | 5000 | 2,2 |
| Tube M UP LED1x1500 D046 T750 L60 | Ø155x250 | 50000 | 1526 | 15 | 70+ | 5000 | 2,2 |
| Tube M UP LED1x2000 D047 T750 L60 | Ø155x250 | 50000 | 2055 | 23 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x1100 D048 T750 L45 | Ø155x250 | 50000 | 1136 | 11 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x1500 D049 T750 L45 | Ø155x250 | 50000 | 1526 | 15 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x2000 D050 T750 L45 | Ø155x250 | 50000 | 2055 | 23 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x1100 D048 T750 L60 | Ø155x250 | 50000 | 1136 | 11 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x1500 D049 T750 L60 | Ø155x250 | 50000 | 1526 | 15 | 70+ | 5000 | 2,2 |
| Tube M SR LED1x2000 D050 T750 L60 | Ø155x250 | 50000 | 2055 | 23 | 70+ | 5000 | 2,2 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamps
- HF – High Frequency control gear
- DIM – Dimmable ballast / driver 1-10V
- DALI – DALI ballast / driver
- SDIM – Switch-control/dimming
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – 45° beam angle
- L60 – 60° beam angle

TUBE M LED2X1500 D043 T750 L45



TUBE S

Wall Mounted Luminaire for Lighting of Building Facades



Type: A range of wall mounted luminaires with pleasing direct/indirect light distribution.

Specification: Tempered glass diffuser.
Die-cast aluminium body in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for wall mounting on any vertical surface.

Application: Outdoor. Ideal for numerous indoor and outdoor applications.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|--------------------------------|------------|------------------|
| Tube S 2GU10 O13 | max 2x50W (GU10) | Ø90x300 | 1,4 | - |
| Tube S 1GU10 O14 UP | max 1x50W (GU10) | Ø90x158 | 1,4 | - |
| Tube S 1GU10 O15 DOWN | max 1x50W (GU10) | Ø90x158 | 1,4 | - |

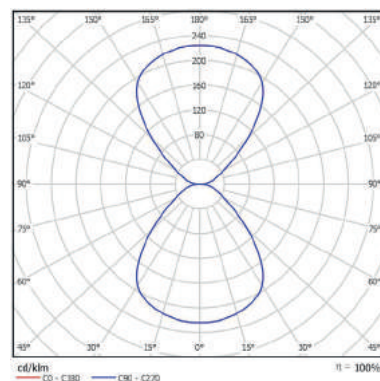
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Tube S LED2x400 B194 T840 | Ø90x300 | 30000 | 700 | 10 | 80+ | 4000 | 1,5 |
| Tube S LED2x400 B194 T840 L90 | Ø90x300 | 30000 | 700 | 10 | 80+ | 4000 | 1,5 |
| Tube S LED2x400 B194 T840 L30 | Ø90x300 | 30000 | 700 | 10 | 80+ | 4000 | 1,5 |
| Tube S UP LED1x400 B195 T840 | Ø90x158 | 30000 | 350 | 5 | 80+ | 4000 | 1,4 |
| Tube S UP LED1x400 B195 T840 L90 | Ø90x158 | 30000 | 350 | 5 | 80+ | 4000 | 1,4 |
| Tube S UP LED1x400 B195 T840 L30 | Ø90x158 | 30000 | 350 | 5 | 80+ | 4000 | 1,4 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

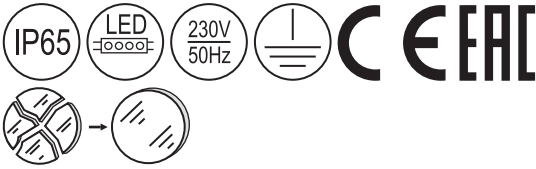
- UP – With uplight source only
- DOWN – With downlight source only
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- L30 – LED tube with 30° beam angle
- L90 – LED tube with 90° beam angle

TUBE S LED2X400 B194 T840 L90



ARCTURUS LED

Vandal Resistant LED Bulkhead for Wall Mounting



Type: A range of vandal resistant LED bulkheads for outdoor wall applications. Designed to spread light sideways and sealed to IP65.

Specification: The opal diffuser is made of impact resistant UV stable polycarbonate. Body in die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on the walls.

Application: Outdoor. Building exteriors and other areas.

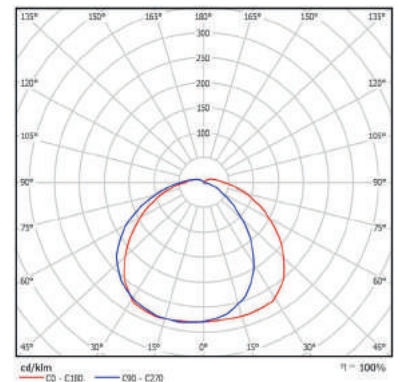
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Arcturus LED1x2800 E054 T850 OP | 308x264x182 | 50 000 | 2759 | 27 | 80+ | 5000 | 2,4 |
| Arcturus LED1x4000 E055 T850 OP | 308x264x182 | 50 000 | 4020 | 41 | 80+ | 5000 | 2,4 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

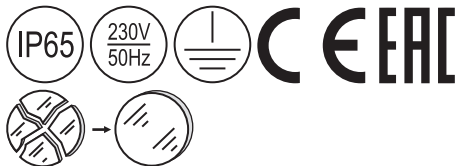
- DALI – DALI driver
- SDIM – Switch-control/dimming
- MW – MW sensor
- T830 – Colour temperature 3000K (subject to min. quantity)
- T840 – Colour temperature 4000K
- T850 – Colour temperature 5000K

ARCTURUS LED1X2800 E054 T850 OP



ARCTURUS

Vandal Resistant Bulkhead



Type: A non-corrosive vandal resistant luminaire manufactured of tough and durable polycarbonate.

Specification: Anodized aluminium reflector to maximize light output and efficiency. The diffuser is made of impact resistant UV stable polycarbonate.
Injection moulded polycarbonate body in black finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on the walls.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Arcturus 1E27 M52 | max 100W (E27) | 300x260x185 | 1,9 | - |
| Arcturus 132 M50 HF | 1x32W (G24q-3) | 300x260x185 | 2,1 | 32 |
| Arcturus 142 M51 HF | 1x42W (G24q-4) | 300x260x185 | 2,1 | 44 |
| Arcturus 150 F09 | 1x50 (E27) | 300x260x185 | 2,6 | 62 |
| Arcturus 170 F10 | 1x70 (E27) | 300x260x185 | 2,6 | 85 |

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast
- SDIM – Switch-control/dimming
- DALI – DALI ballast
- TP – With built-in thermal protector
- HS – For high pressure sodium lamp
- HI – For metal halide lamp

LEO

Decorative Bulkhead



LEO 1E27 C402 LOUVER

Type: A non-corrosive decorative luminaire. IP54 – water and dust protection for use in adverse conditions.

Specification: The diffuser is made of polycarbonate.
Die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on walls or ceiling.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|--------------------------------|------------|------------------|
| Leo 1E27 C402 | E27 (max. 60W) | Ø265x90 | 1,6 | - |
| Leo 1E27 C402 LOUVER | E27 (max. 60W) | Ø265x100 | 1,9 | - |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Leo LED1x1200 D034 T840 | Ø265x90 | 50000 | 1173 | 14 | 80+ | 4000 | 1,7 |
| Leo LED1x1200 D034 T840 LOUVER | Ø265x100 | 50000 | 722 | 14 | 80+ | 4000 | 2,0 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

ETA

Impact Resistant Bulkhead



ETA 126 Q80 LOUVER

Type: A non-corrosive vandal resistant luminaire. IP65 – water and dust protection for use in adverse conditions.

Specification: The diffuser is made of impact resistant UV stable polycarbonate.
Die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on the walls or ceiling.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|--------------------------------|------------|------------------|
| Eta B 1E27 Q78 | 1x60W (max) (E27) | Ø360x130 | 2,0 | - |
| Eta B 2E27 S53 | 2x60W (max) (E27) | Ø360x130 | 2,0 | - |
| Eta B 118 Q79 | 1x18W (G24d-2) | Ø360x130 | 2,3 | 26 |
| Eta B 126 Q80 | 1x26W (G24d-3) | Ø360x130 | 2,4 | 34 |
| Eta B 132 Q81 HF | 1x32W (Gx24q-3) | Ø360x130 | 2,3 | 32 |
| Eta B 142 Q82 HF | 1x42W (Gx24q-4) | Ø360x130 | 2,3 | 44 |
| Eta B 218 S50 | 2x18W (G24d-2) | Ø360x130 | 2,7 | 52 |
| Eta B 226 S51 | 2x26W (G24d-3) | Ø360x130 | 2,9 | 68 |
| Eta B 150 S52 | 1x50 (E27) | Ø360x130 | 2,9 | 62 |
| Eta B 1E27 Q78 LOUVER | 1x60W (max) (E27) | Ø360x145 | 2,1 | - |
| Eta B 2E27 S53 LOUVER | 2x60W (max) (E27) | Ø360x145 | 2,1 | - |
| Eta B 118 Q79 LOUVER | 1x18W (G24d-2) | Ø360x145 | 2,4 | 26 |

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Eta B 126 Q80 LOUVER | 1x26W (G24d-3) | Ø360x145 | 2,50 | 34 |
| Eta B 132 Q81 LOUVER HF | 1x32W (Gx24q-3) | Ø360x145 | 2,40 | 32 |
| Eta B 142 Q82 LOUVER HF | 1x42W (Gx24q-4) | Ø360x145 | 2,40 | 44 |
| Eta B 218 S50 LOUVER | 2x18W (G24d-2) | Ø360x145 | 2,80 | 52 |
| Eta B 226 S51 LOUVER | 2x26W (G24d-3) | Ø360x145 | 3,00 | 68 |
| Eta B 150 S52 LOUVER | 1x50 (E27) | Ø360x145 | 3,00 | 62 |
| Eta M 1E27 C404 | 1x60W (max) (E27) | Ø265x90 | 1,60 | - |
| Eta M 1E27 C404 LOUVER | 1x60W (max) (E27) | Ø265x100 | 1,90 | - |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Eta B LED1x900 C418 T840 ECO | Ø360x130 | 50000 | 845 | 16 | 80+ | 4000 | 2,50 |
| Eta B LED1x1300 D057 T840 | Ø360x130 | 50000 | 1252 | 14 | 80+ | 4000 | 2,50 |
| Eta B LED1x1800 D038 T840 | Ø360x130 | 50000 | 1759 | 20 | 80+ | 4000 | 2,50 |
| Eta B LED1x700 C419 T840 LOUVER ECO | Ø360x145 | 50000 | 650 | 16 | 80+ | 4000 | 2,60 |
| Eta B LED1x700 D051 T840 LOUVER | Ø360x145 | 50000 | 642 | 10 | 80+ | 4000 | 2,60 |
| Eta B LED1x1000 D039 T840 LOUVER | Ø360x145 | 50000 | 902 | 14 | 80+ | 4000 | 2,60 |
| Eta M LED1x500 C405 T830 | Ø265x90 | 50000 | 423 | 8 | 80+ | 3000 | 1,70 |
| Eta M LED1x1200 D036 T840 | Ø265x90 | 50000 | 1173 | 14 | 80+ | 4000 | 1,70 |
| Eta M LED1x400 C417 T830 LOUVER | Ø265x100 | 50000 | 325 | 8 | 80+ | 3000 | 2,00 |
| Eta M LED1x700 D037 T840 LOUVER | Ø265x100 | 50000 | 677 | 11 | 80+ | 4000 | 2,00 |

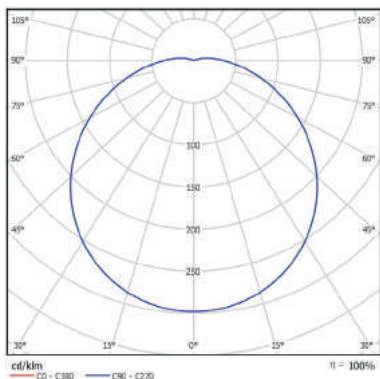
* Tolerance range for optical and electrical data: ±10 %

Options available on request:

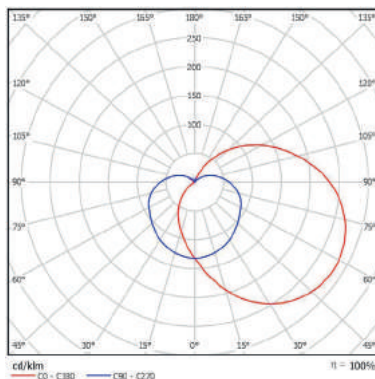
- HF – High Frequency control gear
- DIM – Dimmable ballast / driver
- SDIM – Switch-control/dimming

- DALI – DALI ballast / driver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

ETA M LED1X1200 D036 T840

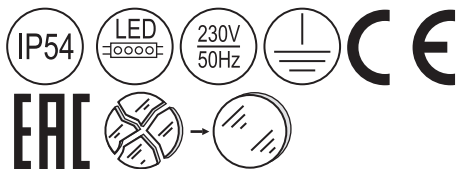


ETA M LED1X700 D037 T840 LOUVER



DUBHE S&M

Wall Mounted Bulkhead



DUBHE M LED1X500 D053 T840 LOUVER

Type: A non-corrosive durable luminaire. IP54 – water and dust protection for use in adverse conditions.

Specification: The diffuser is made of polycarbonate.
Die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on walls or ceiling.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (Lx-WxH), mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|---------------------------------|------------|------------------|
| Dubhe S 1E27 C420 | E27 (max. 40W) | Ø190x60 | 1,10 | - |
| Dubhe S 1E27 C420 LOUVER | E27 (max. 40W) | Ø190x65 | 1,20 | - |
| Dubhe M 1E27 C423 | E27 (max. 60W) | Ø270x80 | 1,30 | - |
| Dubhe M 1E27 C423 LOUVER | E27 (max. 60W) | Ø270x85 | 1,50 | - |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Dubhe S LED1x300 C421 T830 | Ø190x60 | 50000 | 215 | 4 | 80+ | 3000 | 1,20 |
| Dubhe S LED1x300 C421 T830 LOUVER | Ø190x65 | 50000 | 132 | 4 | 80+ | 3000 | 1,30 |
| Dubhe M LED1x500 C424 T830 | Ø270x80 | 50000 | 423 | 8 | 80+ | 3000 | 1,40 |
| Dubhe M LED1x900 D052 T840 | Ø270x80 | 50000 | 835 | 10 | 80+ | 4000 | 1,40 |
| Dubhe M LED1x400 C425 T830 LOUVER | Ø270x85 | 50000 | 325 | 8 | 80+ | 3000 | 1,60 |
| Dubhe M LED1x500 D053 T840 LOUVER | Ø270x85 | 50000 | 451 | 7 | 80+ | 4000 | 1,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

T830 – Colour temperature 3000K

T840 – Colour temperature 4000K

OVAL

Vandal Resistant Bulkhead



OVAL B LED1X500 D056 T840 LOUVER

Type: A non-corrosive vandal resistant luminaire. IP54 – water and dust protection for use in adverse conditions.

Specification: The diffuser is made of impact resistant UV stable polycarbonate. Die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on walls or ceiling.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (Lx-WxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|---------------------------------|------------|------------------|
| OVAL B 1E27 Q83 | 1x60W (max) (E27) | 280x185x95 | 1,20 | - |
| OVAL B 118 Q84 | 1x18W (G24d-2) | 280x185x95 | 1,50 | 26 |
| OVAL B 126 Q85 | 1x26W (G24d-3) | 280x185x95 | 1,60 | 34 |
| OVAL B 1E27 Q83 LOUVER | 1x60W (max) (E27) | 280x185x95 | 1,30 | - |
| OVAL B 118 Q84 LOUVER | 1x18W (G24d-2) | 280x185x95 | 1,60 | 26 |
| OVAL B 126 Q85 LOUVER | 1x26W (G24d-3) | 280x185x95 | 1,70 | 34 |
| Oval S 1E27 C428 | 1x25W (max) (E27) | 220x135x70 | 1,00 | - |
| Oval S 1E27 C428 LOUVER | 1x25W (max) (E27) | 220x135x70 | 1,10 | - |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Oval B LED1x500 C426 T830 | 280x185x95 | 50000 | 429 | 8 | 80+ | 3000 | 1,40 |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Oval B LED1x700 D054 T840 | 280x185x95 | 50000 | 603 | 7 | 80+ | 3000 | 1,50 |
| Oval B LED1x900 D055 T840 | 280x185x95 | 50000 | 835 | 10 | 80+ | 4000 | 1,50 |
| Oval B LED1x400 C427 T830 LOUVER | 280x185x95 | 50000 | 330 | 8 | 80+ | 3000 | 1,50 |
| Oval B LED1x500 D056 T840 LOUVER | 280x185x95 | 50000 | 451 | 7 | 80+ | 4000 | 1,60 |
| Oval S LED1x500 D473 T840 | 220x135x70 | 50000 | 436 | 5 | 80+ | 4000 | 1,10 |
| Oval S LED1x500 D473 T840 LOUVER | 220x135x70 | 50000 | 268 | 5 | 80+ | 4000 | 1,20 |

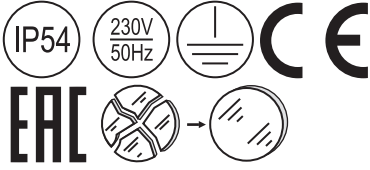
* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- HF – High Frequency control gear
- IP65 – Water and dust protection IP65
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

PYXIS

Wall Mounted Luminaire



Type: A non-corrosive decorative luminaire.

Specification: Tempered glass diffuser.
Die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

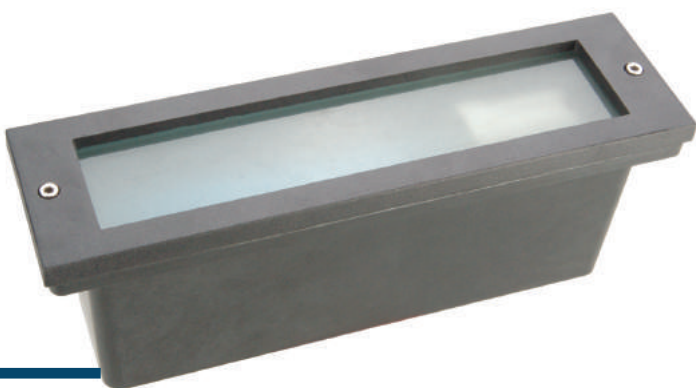
Installation: Suitable for surface mounting on the walls.

Application: Outdoor. Building indoor and other areas.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Pyxis 1E27 Q90 | 1x60W (max) (E27) | 220x90x125 | 1,5 | - |

THETA

Wall Recessed Luminaire



THETA 118 Q77 GRID

Type: A range of square wall recessed luminaires with indirect light distribution and good vandal resistance.

Specification: Tempered frosted glass diffuser.
Die-cast aluminium body in dark grey finish with a thermoplastic recessed housing.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for recessed mounting into the walls. Supplied with recessed housing.

Application: Outdoor. Ideal for numerous indoor and outdoor applications.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|--------------------------------|------------|------------------|
| Theta 1E27 Q75 | 1x40W (max) (E27) | 255x95x70 | 1,0 | - |
| Theta 113 Q76 | 1x13W (G24d-1) | 255x95x70 | 1,3 | 19 |
| Theta 118 Q77 | 1x18W (G24d-2) | 255x95x70 | 1,3 | 26 |
| Theta 1E27 Q75 GRID | 1x40W (max) (E27) | 255x95x70 | 1,0 | - |
| Theta 113 Q76 GRID | 1x13W (G24d-1) | 255x95x70 | 1,3 | 19 |
| Theta 118 Q77 GRID | 1x18W (G24d-2) | 255x95x70 | 1,3 | 26 |

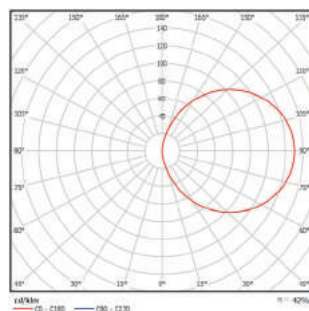
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Theta LED1x300 D058 T840 | 255x95x70 | 50000 | 232 | 4 | 80+ | 4000 | 1,20 |
| Theta LED1x300 D058 T840 GRID | 255x95x70 | 50000 | 116 | 4 | 80+ | 4000 | 1,20 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

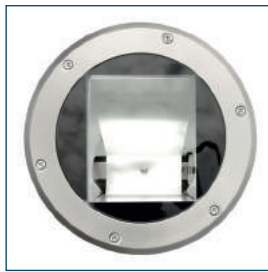
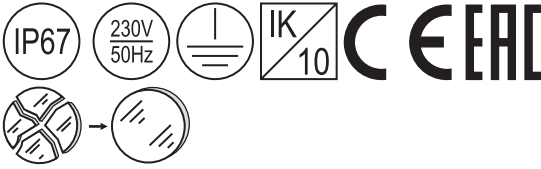
- NCP – Low Power Factor
- GRID – Protective grid
- HF – High Frequency control gear
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

THETA LED1X300 D058 T840

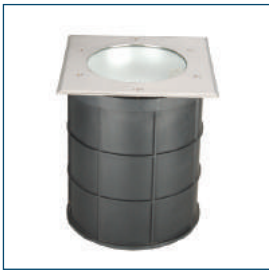


ATLAS B

Ground Recessed Floodlight
with a Choice of Symmetric
or Asymmetric Reflector



A choice of symmetric or asymmetric (**AS**) reflector. See product names in description table.



Square stainless steel frame with tempered glass. See option list (**SQUARE**)

Type: A range of ground recessed floodlights with a choice of symmetric or asymmetric reflector. IP67 – water and dust protection for use in adverse conditions.

Specification: Symmetric or asymmetric reflector is made of matted anodized aluminium. Body in aluminium in dark grey finish and recessed housing in polypropylene. Tempered glass cover with anti-ageing silicone gasket and stainless steel ring gives IP67 protection. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for recessed mounting in any horizontal surface. Gravel must be used to ensure efficient drainage, 300 mm in depth and around.

Application: Outdoor. Efficient floodlight for building facades, statues, sculptures, etc.



Recessed housing is used for easy access and service of floodlight during all life time.



Symmetric reflector positioned at angle suitable for wall illumination applications. See option list (**ANGLE**).



Louver is used to direct light and prevent from blinding effect. See option list (**LOUVER**).



Symmetric moveable reflector is available on request (**MOVE**).



Domed with single window
(COVER1)



Domed with twin window
(COVER2)



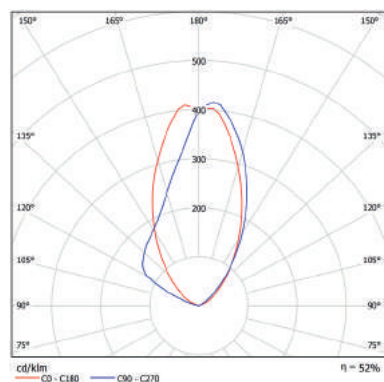
Domed with twelve window
(COVER12)

| Name | Lamp (W) and holder | Light distribution | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|--------------------|--------------------------------|------------|------------------|
| Atlas B 135 N78 | 1x35 W(G12) | symmetric | Ø258x370 | 5,7 | 44 |
| Atlas B 170 N79 | 1x70 W(G12) | symmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas B 1150 N80 | 1x150 W(G12) | symmetric | Ø258x370 | 6,3 | 168 |
| Atlas B 170 N79 AS | 1x70 W(Rx7s) | asymmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas B 1150 N80 AS | 1x150 W(Rx7s) | asymmetric | Ø258x370 | 6,3 | 168 |
| Atlas B 135 N78 SQUARE | 1x35 W(G12) | symmetric | Ø258x258x370 | 5,7 | 44 |
| Atlas B 170 N79 SQUARE | 1x70 W(G12) | symmetric | Ø258x258x370 | 5,7 | 83,5 |
| Atlas B 1150 N80 SQUARE | 1x150 W(G12) | symmetric | Ø258x258x370 | 6,3 | 168 |
| Atlas B 170 N79 AS SQUARE | 1x70 W(Rx7s) | asymmetric | Ø258x258x370 | 5,7 | 83,5 |
| Atlas B 1150 N80 AS SQUARE | 1x150 W(Rx7s) | asymmetric | Ø258x258x370 | 6,3 | 168 |
| Atlas B 135 N78 ANGLE | 1x35 W(G12) | symmetric | Ø258x450 | 5,7 | 44 |
| Atlas B 170 N79 ANGLE | 1x70 W(G12) | symmetric | Ø258x450 | 5,7 | 83,5 |
| Atlas B 1150 N80 ANGLE | 1x150 W(G12) | symmetric | Ø258x450 | 6,3 | 168 |
| Atlas B 135 N78 MOVE | 1x35 W(G12) | symmetric | Ø258x370 | 5,7 | 44 |
| Atlas B 170 N79 MOVE | 1x70 W(G12) | symmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas B 1150 N80 MOVE | 1x150 W(G12) | symmetric | Ø258x370 | 6,3 | 168 |
| Atlas B 135 N78 LOUVER | 1x35 W(G12) | symmetric | Ø258x480 | 5,7 | 44 |
| Atlas B 170 N79 LOUVER | 1x70 W(G12) | symmetric | Ø258x480 | 5,7 | 83,5 |
| Atlas B 1150 N80 LOUVER | 1x150 W(G12) | symmetric | Ø258x480 | 6,3 | 168 |
| Atlas B 135 N78 COVER1 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas B 170 N79 COVER1 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas B 1150 N80 COVER1 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |
| Atlas B 135 N78 COVER2 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas B 170 N79 COVER2 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas B 1150 N80 COVER2 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |
| Atlas B 135 N78 COVER12 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas B 170 N79 COVER12 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas B 1150 N80 COVER12 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |

Options available on request:

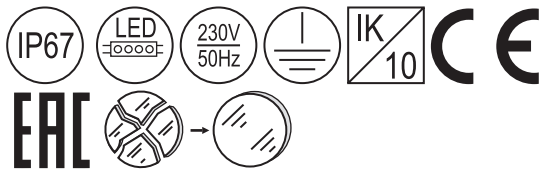
- SQUARE – Square stainless steel frame
- AS – Asymmetric reflector
- LOUVER – Louver to prevent from blinding effect
- MOVE – Symmetric moveable reflector
- COVER1 – Dome with single window
- COVER2 – Dome with double window
- COVER12 – Dome with twelve window
- TIM – Timed ignitor

ATLAS B 170 N79 AS



ATLAS M

Middle Size Ground Recessed Floodlight with a Choice of Round or Square Stainless Steel Frame



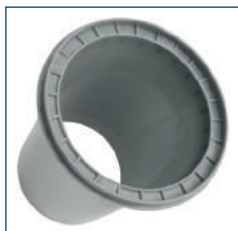
Square stainless steel frame with tempered glass. See option list (**SQUARE**)

Type: A range of small size ground recessed floodlights with a choice of round or square stainless steel frame. IP67 – water and dust protection for use in adverse conditions.

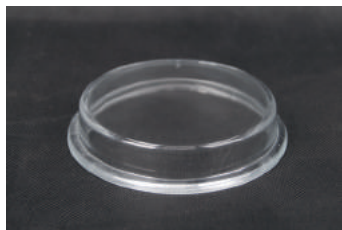
Specification: Symmetric reflector made of matted anodized aluminium.
Body in aluminium with dark grey finish and recessed housing in polypropylene.
Tempered glass cover with anti-ageing silicone gasket and stainless steel ring gives IP67 protection.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for recessed mounting in any horizontal surface. Gravel must be used to ensure efficient drainage, 300 mm in depth and around.

Application: Outdoor. Efficient floodlight for building facades, statues, sculptures, etc.



Recessed housing is used for easy access and service of floodlight during all life time.



Special glass to increase light efficiency is available on request (**GLASS ATLAS S**). Can be used in set with COVER1, COVER2 or COVER12 only.



**Domed with single window
(COVER1)**

**Domed with twin window
(COVER2)**

**Domed with twelve window
(COVER12)**

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|--------------------------------|------------|------------------|
| Atlas M 135 Q73 | 1x35 W(G12) | Ø200x235 | 3,9 | 44 |
| Atlas M 170 Q74 | 1x70 W(G12) | Ø200x235 | 4,5 | 83,5 |
| Atlas M 135 Q73 SQUARE | 1x35 W(G12) | Ø200x200x235 | 3,9 | 44 |
| Atlas M 170 Q74 SQUARE | 1x70 W(G12) | Ø200x200x235 | 4,5 | 83,5 |
| Atlas M 135 Q73 COVER1 | 1x35 W(G12) | Ø200x260 | 3,9 | 44 |
| Atlas M 170 Q74 COVER1 | 1x70 W(G12) | Ø200x260 | 4,5 | 83,5 |
| Atlas M 135 Q73 COVER2 | 1x35 W(G12) | Ø200x260 | 3,9 | 44 |
| Atlas M 170 Q74 COVER2 | 1x70 W(G12) | Ø200x260 | 4,5 | 83,5 |
| Atlas M 135 Q73 COVER12 | 1x35 W(G12) | Ø200x260 | 3,9 | 44 |
| Atlas M 170 Q74 COVER12 | 1x70 W(G12) | Ø200x260 | 4,5 | 83,5 |

| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Atlas M LED1x1100 D454 T750 L45 | Ø200x235 | 50000 | 1136 | 11 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1500 D455 T750 L45 | Ø200x235 | 50000 | 1526 | 15 | 70+ | 5000 | 4,50 |
| Atlas M LED1x2000 D456 T750 L45 | Ø200x235 | 50000 | 2055 | 23 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1100 D454 T750 L60 | Ø200x235 | 50000 | 1136 | 11 | 70+ | 5000 | 4,50 |

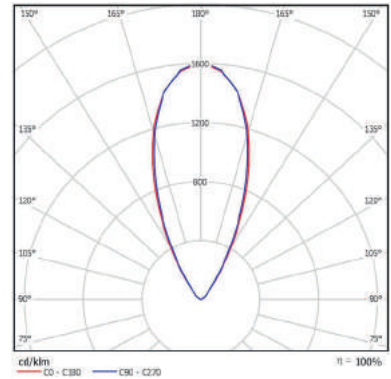
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--|--------------------------------|-----------|-------------------------------|------------------|----------|--------|------------|
| Atlas M LED1x1500 D455 T750 L60 | Ø200x235 | 50000 | 1526 | 15 | 70+ | 5000 | 4,50 |
| Atlas M LED1x2000 D456 T750 L60 | Ø200x235 | 50000 | 2055 | 23 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1100 D454 T750 L45 SQUARE | Ø200x200x235 | 50000 | 1136 | 11 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1500 D455 T750 L45 SQUARE | Ø200x200x235 | 50000 | 1526 | 15 | 70+ | 5000 | 4,50 |
| Atlas M LED1x2000 D456 T750 L45 SQUARE | Ø200x200x235 | 50000 | 2055 | 23 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1100 D454 T750 L60 SQUARE | Ø200x200x235 | 50000 | 1136 | 11 | 70+ | 5000 | 4,50 |
| Atlas M LED1x1500 D455 T750 L60 SQUARE | Ø200x200x235 | 50000 | 1526 | 15 | 70+ | 5000 | 4,50 |
| Atlas M LED1x2000 D456 T750 L60 SQUARE | Ø200x200x235 | 50000 | 2055 | 23 | 70+ | 5000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

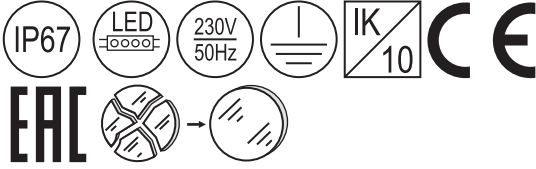
- TIM – Timed ignitor
- HI – For metal halide lamps
- HF – High Frequency control gear
- DIM – Dimmable ballast / driver 1-10V
- DALI – DALI ballast / driver
- SDIM – Switch-control/dimming
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L45 – 45° beam angle
- L60 – 60° beam angle
- SQUARE – Square stainless steel frame
- COVER1 – Dome with single window
- COVER2 – Dome with double window
- COVER12 – Dome with twelve window
- GLASS – Special glass to increase light efficiency

ATLAS M LED1X1500 D455 T750 L45



ATLAS S

Small Size Ground Recessed Floodlight with a Choice of Round or Square Stainless Steel Frame



Square stainless steel frame with tempered glass. See option list (**SQUARE**)

Type: A range of small size ground recessed floodlights with a choice of round or square stainless steel frame. IP67 – water and dust protection for use in adverse conditions.

Specification: Tempered glass cover with anti-ageing silicone gasket and stainless steel ring gives IP67 protection. Body in aluminium with dark grey finish and recessed housing in polypropylene. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for recessed mounting in any horizontal surface. Gravel must be used to ensure efficient drainage, 200 mm in depth and around.

Application: Outdoor. Efficient floodlight for building facades, statues, sculptures, etc.



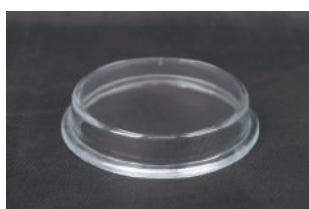
Recessed housing is used for easy access and service of floodlight during all life time.



**Domed with single window
(COVER1)**

**Domed with twin window
(COVER2)**

**Domed with twelve window
(COVER12)**



Special glass to increase light efficiency is available on request (**GLASS ATLAS S**).
Can be used in set with COVER1, COVER2 or COVER12 only.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|---------------------------------|---------------------|--------------------------------|------------|------------------|
| Atlas S 1GU10 Q72 | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 SQUARE | max 1x50W (GU10) | Ø105x105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER1 | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER2 | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER12 | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER1 GLASS | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER2 GLASS | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 COVER12 GLASS | max 1x50W (GU10) | Ø105x165 | 0,5 | - |

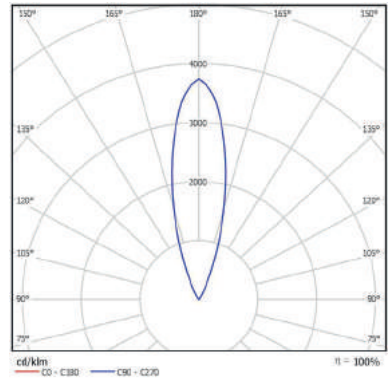
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Atlas S LED1x400 B677 T840 | Ø105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Atlas S LED1x400 B677 T840 L90 | Ø105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Atlas S LED1x400 B677 T840 L30 | Ø105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Atlas S LED1x400 B677 T840 SQUARE | 105x105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Atlas S LED1x400 B677 T840 SQUARE L90 | 105x105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Atlas S LED1x400 B677 T840 SQUARE L30 | 105x105x165 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

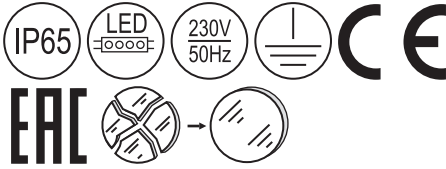
- SQUARE – Square stainless steel frame
- COVER1 – Dome with single window
- COVER2 – Dome with double window
- COVER12 – Dome with twelve window
- GLASS – Special glass to increase light efficiency
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- L30 – LED tube with 30° beam angle
- L90 – LED tube with 90° beam angle

ATLAS S LED1X400 B677 T840 L30



KAPPA

A Miniature Floodlight for Halogen Lamps



KAPPA 1GU10 Q88 LONG

Type: A range of miniature wall mounted luminaires with IP65 protection.

Specification: Tempered glass diffuser.
Die-cast aluminium body in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for surface mounting on walls or ceiling.

Application: Outdoor. Building exteriors and other areas.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|--------------------------------|------------|------------------|
| KAPPA 1GU10 Q87 | max 1x50W (GU10) | Ø70x150x210 | 0,7 | - |
| KAPPA 1GU10 Q88 LONG | max 1x50W (GU10) | Ø70x150x605 | 1,2 | - |

| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Kappa LED1x400 B678 T840 | Ø70x150x210 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Kappa LED1x400 B678 T840 L90 | Ø70x150x210 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Kappa LED1x400 B678 T840 L30 | Ø70x150x210 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Kappa LED1x400 B679 T840 LONG | Ø70x150x605 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Kappa LED1x400 B679 T840 LONG L90 | Ø70x150x605 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Kappa LED1x400 B679 T840 LONG L30 | Ø70x150x605 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |

* Tolerance range for optical and electrical data: ±10 %

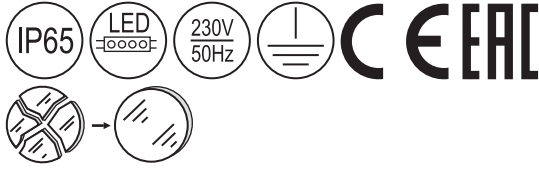
Options available on request:

T830 – Colour temperature 3000K
T840 – Colour temperature 4000K

L30 – LED tube with 30° beam angle
L90 – LED tube with 90° beam angle

APUS

Miniature Floodlight for Halogen Lamps



APUS 1GU10 O11 HOL



APUS 1GU10 O11 HOL LOUVER

Holder for wall mounted version should be ordered. See option list: HOL.



APUS 1GU10 O12 GRO



APUS 1GU10 O12 GRO LOUVER

Ground spike for tree and plant should be ordered. See option list: GRO.

Type: A range of miniature ground recessed&surface mounted luminaires with IP65 protection.

Specification: Tempered glass diffuser.
Die-cast aluminium body in dark grey finish with a thermoplastic recessing housing.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for recessed mounting in any horizontal surface. Gravel must be used to ensure efficient drainage, 300 mm in depth and around. Ground spike or holder for wall mounting can be ordered separately.

Application: Outdoor. Ideal for lighting of architectural details, sculptures, plants and trees.



Recessed housing is used for easy access and service of floodlight during all life time.
Supplied with Apus REC versions.

| Name | Lamp (W) and holder | Overall dimensions (Lx-WxH), mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|---------------------------------|------------|------------------|
| Apus 1GU10 O10 REC | max 1x50W (GU10) | Ø98x98 | 0,5 | - |
| Apus 1GU10 O11 HOL | max 1x50W (GU10) | Ø98x98 | 0,5 | - |
| Apus 1GU10 O12 GRO | max 1x50W (GU10) | Ø98x98 | 0,5 | - |
| Apus 1GU10 O10 REC LOUVER | max 1x50W (GU10) | Ø98x130 | 0,5 | - |
| Apus 1GU10 O11 HOL LOUVER | max 1x50W (GU10) | Ø98x130 | 0,5 | - |
| Apus 1GU10 O12 GRO LOUVER | max 1x50W (GU10) | Ø98x130 | 0,5 | - |

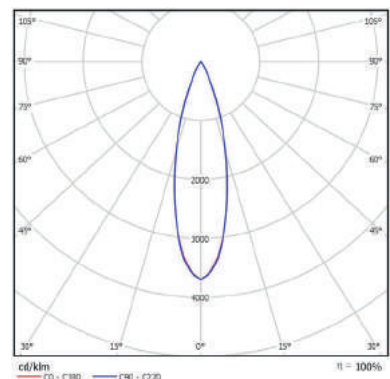
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Apus LED1x400 B191 T840 REC | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B191 T840 REC L90 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B191 T840 REC L30 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B192 T840 HOL | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B192 T840 HOL L90 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B192 T840 HOL L30 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B193 T840 GRO | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B193 T840 GRO L90 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |
| Apus LED1x400 B193 T840 GRO L30 | Ø98x98 | 30000 | 350 | 5 | 80+ | 4000 | 1,40 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

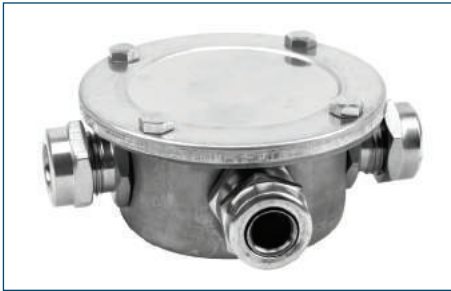
- REC – Recessed version with plastic housing
- HOL – Wall mounted version with holder
- GRO – Ground mounted version with spike
- LOUVER – Anti-glare louver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- L30 – LED tube with 30° beam angle
- L90 – LED tube with 90° beam angle

APUS LED1X400 B193 T840 GRO L30



FISH

Underwater Projector for Pool Illumination



INOX BOX4



FISH 1G5.3 R03



FISH 1G5.3 R04

Type: A range of underwater projectors for pool illumination. IP68 – water and dust protection for use in adverse conditions.

Specification: Tempered glass diffuser with anti-ageing silicone gasket.
Stainless steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for fixing on any vertical or horizontal surface.

Application: Outdoor. Ideal for lighting pools.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|---------------------|--------------------------------|------------|------------------|
| Fish 1G5.3 R03 | max 1x50W (G5.3) | Ø90x90 | 0,9 | - |
| Fish 1G5.3 R04 | max 1x50W (G5.3) | Ø90x120 | 1,1 | - |
| Inox Box4 | - | Ø85x55 | 0,4 | - |

NORTHCLIFFE
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PARK AND STREET LUMINAIRES

www.northcliffe.org

NIGEA LED

IP65 Bollard with Opal Diffuser



Type: A stylish circular bollard emphasizing simple design and high vandal resistance.

Specification: Diffuser is made of clear PC material.
Body in extruded aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Flange mounting plate.

Application: Outdoor. Suitable for many applications including parks, path and side walks, residential areas and public places.

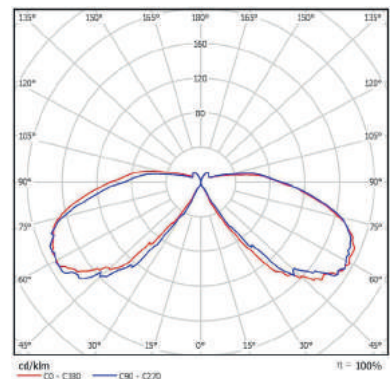
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|--------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Nigea LED1x700 C413 T840 | Ø165x800 | 40000 | 680 | 9 | 70+ | 4000 | 4,50 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

T840 – Colour temperature 4000K

NIGEA LED1X700 C413 T840



DRACO

IP54 Bollard with Opal Diffuser



Type: A stylish circular bollard emphasizing simple design and high vandal resistance.

Specification: Diffuser is made of opal PC material.
Body in extruded aluminium in dark grey finish. Gear tray is made of zinc plated steel.
Luminaire is plastic-wrapped and boxed individually.

Installation: Flange mounting plate (3x12,5 mm holes).

Application: Outdoor. Suitable for many applications including parks, path and side walks, residential areas and public places.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|--------------------------------|------------|------------------|
| Draco 1E27 N62 | E27 (max.60 W) | Ø140(225)x800 | 4,5 | - |
| Draco 126 N63 | 1x26 (G24d-3) | Ø140(225)x800 | 4,6 | 34 |
| Draco 132 N64 HF | 1x32 (G24q-3) | Ø140(225)x800 | 4,6 | 32 |
| Draco 142 N65 HF | 1x42 (G24q-4) | Ø140(225)x800 | 4,6 | 44 |
| Draco 135 N66 HI | 1x35 (G12) | Ø140(225)x800 | 5,8 | 44 |
| Draco 150 N67 HI | 1x50 (E27) | Ø140(225)x800 | 5,8 | 62 |

Bollard height can be adjusted on request

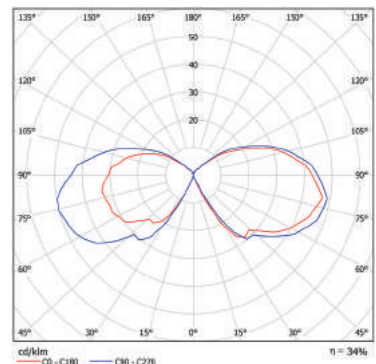
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Draco LED1x1100 D059 T840 | Ø140(225)x800 | 50000 | 1040 | 14 | 80+ | 4000 | 4,60 |
| Draco LED1x1500 D060 T840 | Ø140(225)x800 | 50000 | 1461 | 20 | 80+ | 4000 | 4,60 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- HF – High Frequency control gear
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

DRACO LED1X1500 D060 T840



SPHERE

IP54 Sphere-Shaped Park Lights



SPHERE 170 H96 PRZ



SPHERE 170 H98 CLR RFL

Type: A range of non-corrosive sphere-shaped park lights.

Specification: Diffuser can be made of UV stable PMMA or PC material with a choice from three designs – opal, clear or prismatic. A stainless steel reflector for better glare control and light distribution in clear version is recommended.

Black colour chassis is made of injection moulded PC. Attached to diffuser with a help of quick lock system.

Gear tray is made of zinc plated steel.

Luminaire is plastic-wrapped and boxed individually.

Installation: Post top installation with three screws on poles Ø60mm. Suggested mounting height from 3 to 5 meters.

Application: Outdoor. Suitable for many applications including parks, path and side walks, minor roads, residential areas and public places.



A stainless steel reflector for better glare control and light distribution can be ordered on request. See option list – RFL. Recommended in versions with a clear diffuser.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total watt-age, W |
|------------------------|--------------------------|---------------------|--------------------------------|------------|-------------------|
| Sphere 1E27 Z39 OP | Opal | E27 (150W) | Ø400x455 | 1,8 | - |
| Sphere 150 Z40 OP | Opal, HS | 1x50 (E27) | Ø400x455 | 3,2 | 62 |
| Sphere 170 Z41 OP | Opal, HS | 1x70 (E27) | Ø400x455 | 3,2 | 85 |
| Sphere 1100 Z42 OP | Opal, HS | 1x100 (E40) | Ø500x555 | 4,05 | 116 |
| Sphere 1150 Z43 OP | Opal, HS | 1x150 (E40) | Ø500x555 | 4,6 | 168 |
| Sphere 150 Z40 PRZ | Prismatic, HS | 1x50 (E27) | Ø400x455 | 3,4 | 62 |
| Sphere 170 Z41 PRZ | Prismatic, HS | 1x70 (E27) | Ø400x455 | 3,4 | 85 |
| Sphere 150 Z44 CLR RFL | Clear, HS with reflector | 1x50 (E27) | Ø400x455 | 4,0 | 62 |
| Sphere 170 Z45 CLR RFL | Clear, HS with reflector | 1x70 (E27) | Ø400x455 | 4,0 | 85 |

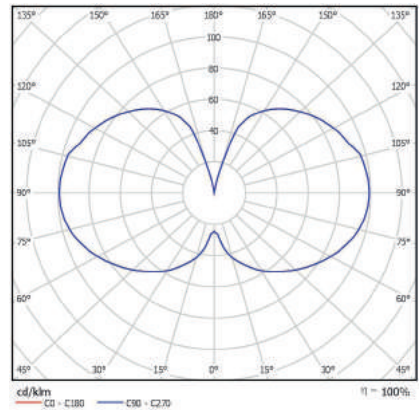
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|----------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Sphere LED1x3000 D061 T840 OP PC | Ø500x555 | 50000 | 2928 | 32 | 80+ | 4000 | 4,9 |
| Sphere LED1x4200 D062 T840 OP PC | Ø500x555 | 50000 | 4170 | 44 | 80+ | 4000 | 4,9 |
| Sphere LED1x5900 D063 T840 OP PC | Ø500x555 | 50000 | 5855 | 64 | 80+ | 4000 | 4,9 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

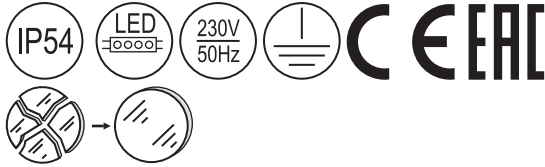
- HF – High Frequency control gear
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl
- OP – Opal diffuser
- CLR – Clear diffuser
- PRZ – Prismatic diffuser
- RFL – Stainless steel reflector
- IP65 – IP65 protection
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

SPHERE LED1X4200 D062 T840 OP PC



VELA

IP54 Park Lights with a Large Round Canopy



Vela 170 N94 FROST



Vela 170 N94 CLR RFL ROOF



Vela 170 N94 CLR RFL

Type: A range of decorative park lights with a large round canopy.

Specification: Diffuser is made of UV stable PMMA material with a choice from two designs clear or mat coated. A stainless steel reflector for better glare control and light distribution in clear version is recommended. Canopy in aluminium in light grey finish. Gear tray is made of zinc plated steel. Black colour chassis is made of injection moulded PC. Attached to diffuser with help of quick lock system. Luminaire is plastic-wrapped and boxed individually.

Installation: Post top installation with three screws on poles Ø60mm. Suggested mounting height from 3,5 to 5 meters.

Application: Outdoor. Suitable for many applications including parks, path and sidewalks, minor roads, residential areas and public places.



A stainless steel reflector for a better glare control and light distribution can be ordered on request. See option list – RFL. Recommended in versions with clear diffuser.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------------------|---------------------------------|---------------------|--------------------------------|------------|------------------|
| Vela 1E27 N91 FROST | Mat coated | E27 (max.100 W) | Ø400x510 | 3,1 | - |
| Vela 142 N92 HF FROST | Mat coated | 1x42 (G24q-4) | Ø400x510 | 3,2 | 44 |
| Vela 150 N93 FROST | Mat coated | 1x50 (E27) | Ø400x510 | 4,3 | 62 |
| Vela 170 N94 FROST | Mat coated | 1x70 (E27) | Ø400x510 | 4,3 | 85 |
| Vela 1100 O02 FROST PC | Mat coated | 1x100 (E40) | Ø400x510 | 4,4 | 116 |
| Vela 1E27 N91 FROST ROOF | Mat coated with canopy | E27 (max.100 W) | Ø500x540 | 4,0 | - |
| Vela 142 N92 HF FROST ROOF | Mat coated with canopy | 1x42 (G24q-4) | Ø500x540 | 4,1 | 44 |
| Vela 150 N93 FROST ROOF | Mat coated with canopy | 1x50 (E27) | Ø500x540 | 5,2 | 62 |
| Vela 170 N94 FROST ROOF | Mat coated with canopy | 1x70 (E27) | Ø500x540 | 5,2 | 85 |
| Vela 1100 O02 FROST PC ROOF | Mat coated with canopy | 1x100 (E40) | Ø500x540 | 5,3 | 116 |
| Vela 1E27 N91 CLR RFL | Clear with reflector | E27 (max.100 W) | Ø400x510 | 3,4 | - |
| Vela 142 N92 HF CLR RFL | Clear with reflector | 1x42 (G24q-4) | Ø400x510 | 3,5 | 44 |
| Vela 150 N93 CLR RFL | Clear with reflector | 1x50 (E27) | Ø400x510 | 4,6 | 62 |
| Vela 170 N94 CLR RFL | Clear with reflector | 1x70 (E27) | Ø400x510 | 4,6 | 85 |
| Vela 1100 O02 CLR PC RFL | Clear with reflector | 1x100 (E40) | Ø400x510 | 4,7 | 116 |
| Vela 1E27 N91 CLR RFL ROOF | Clear with reflector and canopy | E27 (max.100 W) | Ø500x540 | 4,3 | - |
| Vela 142 N92 HF CLR RFL ROOF | Clear with reflector and canopy | 1x42 (G24q-4) | Ø500x540 | 4,4 | 44 |
| Vela 150 N93 CLR RFL ROOF | Clear with reflector and canopy | 1x50 (E27) | Ø500x540 | 5,6 | 62 |
| Vela 170 N94 CLR RFL ROOF | Clear with reflector and canopy | 1x70 (E27) | Ø500x540 | 5,6 | 85 |
| Vela 1100 O02 CLR PC RFL ROOF | Clear with reflector and canopy | 1x100 (E40) | Ø500x540 | 5,7 | 116 |

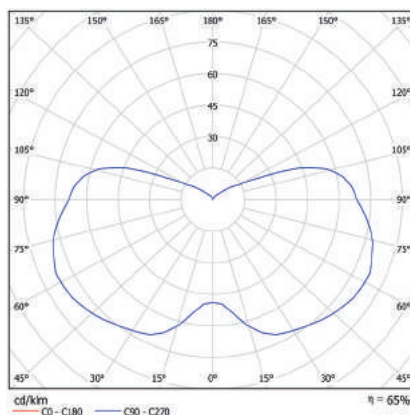
| Name | Overall dimensions (LxWxH), mm | Life-time | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------------|--------------------------------|-----------|----------------------------------|------------------|----------|--------|------------|
| Vela LED1x3200 D474 T840 FROST | Ø400x510 | 50000 | 3153 | 32 | 80+ | 4000 | 4,3 |
| Vela LED1x4500 D475 T840 FROST | Ø400x510 | 50000 | 4491 | 44 | 80+ | 4000 | 4,3 |
| Vela LED1x6400 D476 T840 FROST | Ø400x510 | 50000 | 6306 | 64 | 80+ | 4000 | 4,3 |
| Vela LED1x3200 D474 T840 FROST ROOF | Ø500x540 | 50000 | 2928 | 32 | 80+ | 4000 | 5,30 |
| Vela LED1x4500 D475 T840 FROST ROOF | Ø500x540 | 50000 | 4170 | 44 | 80+ | 4000 | 5,30 |
| Vela LED1x6400 D476 T840 FROST ROOF | Ø500x540 | 50000 | 5855 | 64 | 80+ | 4000 | 5,30 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- HF – High Frequency control gear
- PC – PC bowl
- CLR – Clear diffuser
- FROST – Mat coated
- RFL – Stainless steel reflector
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K

VELA LED1X4500 D475 T840 FROST ROOF



CASTLE

IP54 Classic-Shaped Park Lights



Type: A range of classic shaped park lights with a low light pollution.

Specification: Flat tempered glass diffuser with a clear top cap part made of UV stable PC material. Canopy in aluminium in dark grey finish. Gear tray is made of zinc plated steel. Luminaire is plastic-wrapped and boxed individually.

Installation: Post top installation with three screws on poles Ø60mm. Suggested mounting height from 3 to 5 meters. Suspended mounting versions are available on request.

Application: Outdoor. Suitable for many applications including parks, old cities path walks and public places.

| Name | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|--------------------------------|------------|------------------|
| Castle 1E27 N73 | E27 (max.100 W) | 430x430x900 | 8,2 | |
| Castle 150 N74 | 1x50 (E27) | 430x430x900 | 9,6 | 62 |
| Castle 170 N75 | 1x70 (E27) | 430x430x900 | 9,6 | 85 |
| Castle 1100 N76 | 1x100 (E27) | 430x430x900 | 9,6 | 116 |
| Castle 1150 N77 | 1x150 (E27) | 430x430x900 | 10,2 | 168 |

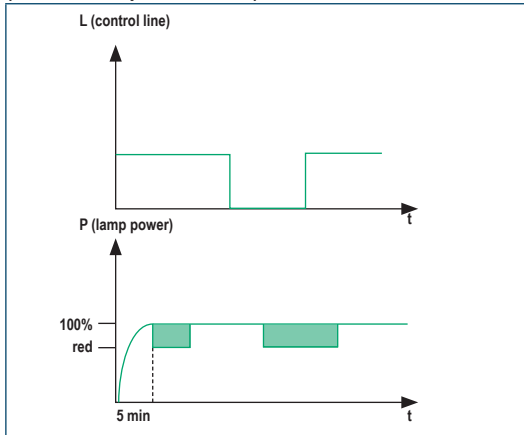
Options available on request:

- HF – High Frequency control gear
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps

ENERGY SAVINGS AND POWER REDUCTION DEVICES FOR STREET LIGHTING

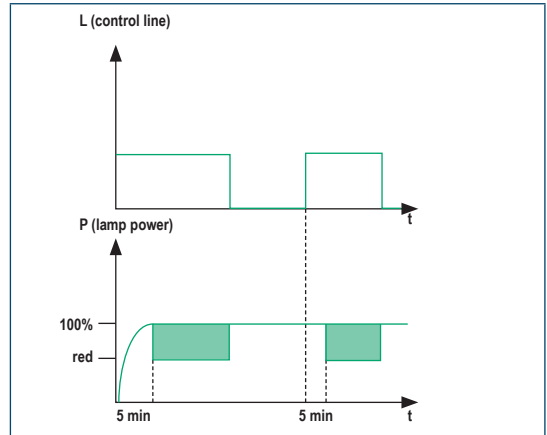


WCoFFPRD – power reduction device with control wire (reduce then phase is **OFF**)



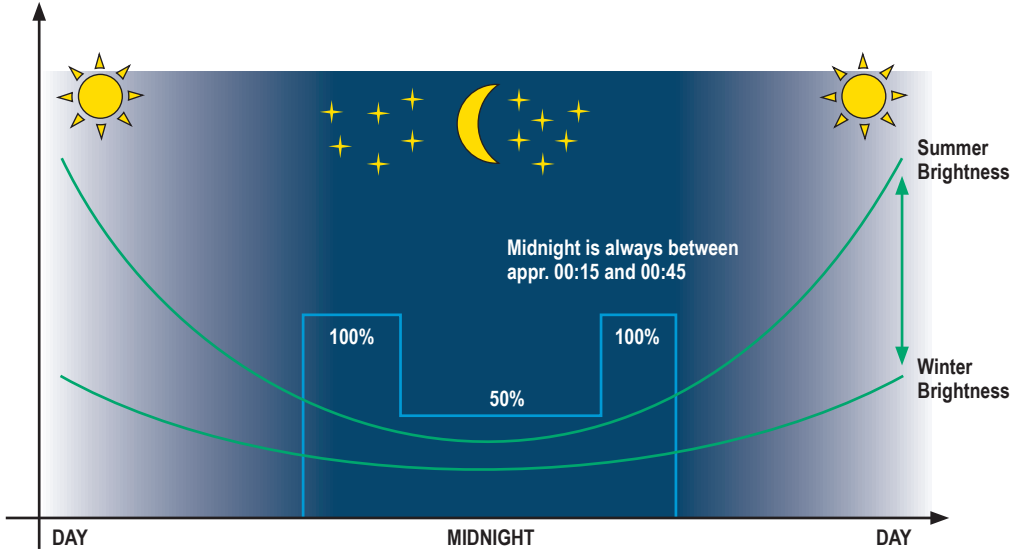
- Switch over to reduced power without applying control voltage
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

WConPRD – power reduction device with control wire (reduce then phase is **ON**)



- Switch over to reduced power when control voltage applied, after delay of 5 minutes.
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

ACmidPRD – power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.



- Microprocessor controlled
- No additional cables required
- Reference point is “natural midnight”.
- Factory settings, reduces power 2h before reference point power increase follows 5h after reference point
- Factory settings could be changed, if needed.



EXAMPLE: at 19 o'clock street lights are turned ON and at 6 o'clock turned OFF. In this case we have total of 11 hours long operation, middle point in this case is 5.5 hours which makes “natural midnight” at 00:30, so power goes down to 50% operation at 22:30 (00:30 – 2h), returns to 100% operation at 05:30 (00:30 + 5h). Power switch always takes average of last 4 operating times to calculate reference point.

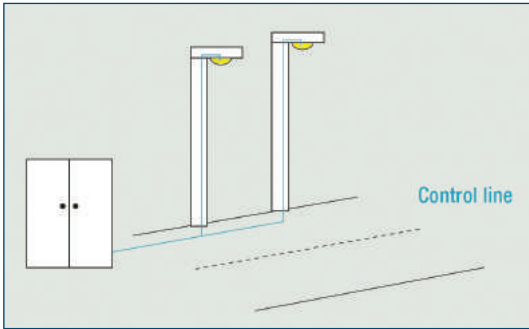
DIMMING OF LED STREET LIGHTING



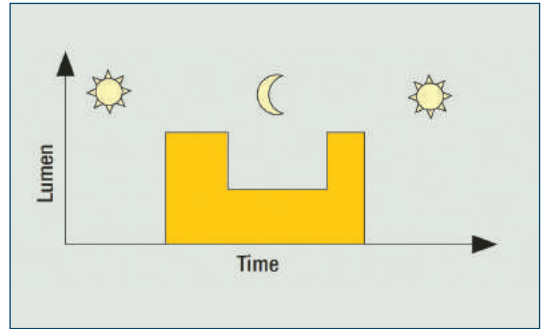
LED street lighting dimming feature helps to flexibly adapt street and outdoor lighting to the varied nightlife of cities and municipalities and enables big energy savings. It offers three different control and dimming functions in one electronic control gear:

- DALI – digital interface for bi-directional communication
- CDIM – dimming with the help of a control line
- ADIM – autonomous two-level dimming

CDIM – midnight step-down switch is used in installations where a control line (switched phase) is available in addition to the power line. The switched phase is connected to the terminal board of street lighting fixture and an external actuator is used to start and end dimming. The dimming parameters (e.g. dim levels and fade times) are factory pre-set.

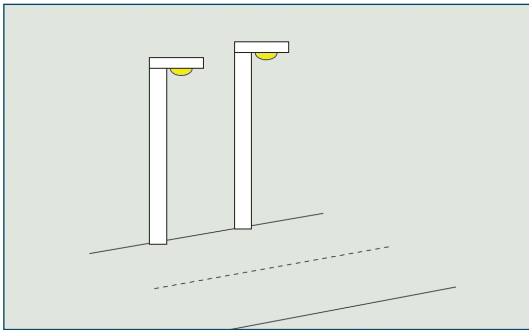


Installation with external control line for CDIM operation

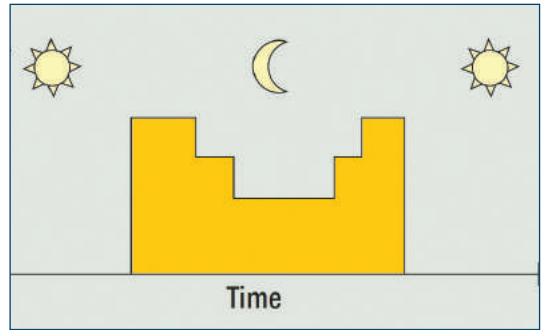


CDIM operation – light output over time: one dim level.

ADIM – autonomous dimming is designed for dimming without any external control wiring and helps to save energy and reduce light pollution, even if only a power line is available. In ADIM operation, the street lighting fixtures executes a pre-set dimming profile, which can be factory programmed. The autonomous dimming is regulated by an integrated timer, which adjusts the dimming profile according to the previous night (operation from switch-on to switch-off).



Installation without external control line for ADIM operation



ADIM operation – light output over time: with one or two dim levels

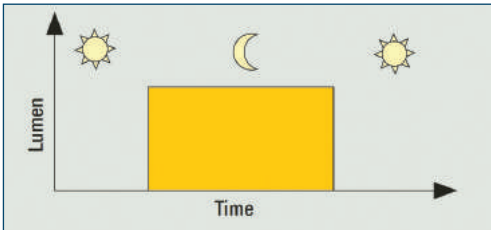
NIGHTSWITCH

IP55

230V
50Hz



CE ENEC



The built-in photo-sensor measures ambient brightness and automatically switches on connected lighting fixtures when darkness falls and off again at the dawn. Other OFF settings are available like 2, 4, 6 or 8 hours after dusk.

Switch-On Level can be set from 3 to 1000 lx.

* – Make sure that the NightSwitch is not affected by light from light fixtures to which it is connected (by light shining directly on the sensor).

Type: Nightswitch switches lighting fixtures ON or OFF.

Specification: Dimensions: 105 × 79 × 36 mm
Colour: white
IP rating: IP55
Protection class: II
Max. output (resistive/inductive load): 1 000 / 500 W
Response brightness: 3 – 1 000 lx
Internal power consumptions: < 2 W
Switching delay, s: 15-30
Ta range: – 20C...+50C

Installation: For wall mounting, outdoor use.

Application: Outdoor.

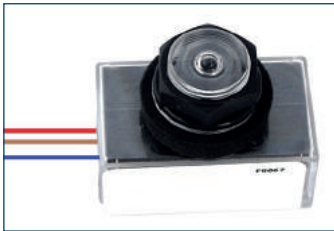
MINI-NIGHT-SWITCH

IP65

230V
50Hz



EAC



MINI-NIGHTSWITCH switches lighting fixtures ON or OFF, at the same time it can be mounted into IP protected light fitting serving as a standalone solution.

Type: Mini-nightswitch switches lighting fixtures ON or OFF, at the same time it can be mounted into IP protected light fitting serving as standalone solution. The built-in photo-sensor records the brightness of the surroundings and switches the connected lighting fixtures on at dusk and off again at dawn.

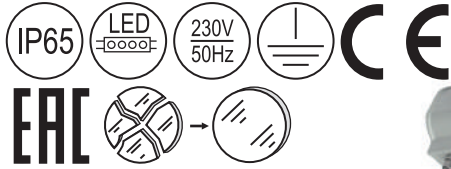
Specification: Dimensions: 54 × 32 × 44 mm
Colours: face black
IP rating: IP20
IP rating installed: IP65
Protection class: II
Max. output (resistive/discharge lighting load): 1200 / 500 W
Response brightness: 35 lx (55 and 70 lx are available on request)
Internal power consumptions: < 0.25 W
Switching delay, s: 15-30
Ta range: – 20C...+70C

Installation: For built-in solutions.

Application: Outdoor.

ALGOL S LED

Range of Economic LED Road and Street Lights



- Type:** An economic range of aluminium LED street lights with the latest solutions for outdoor lighting. Excellent heat dissipation and a long time for low maintenance cost.
- Specification:** High performance street lighting asymmetric optics with high efficiency. Tempered glass cover fixed with stainless steel clips. Silicone rubber sealing. Body in high-pressure die-cast aluminum in light grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 12 meters.
- Application:** Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.

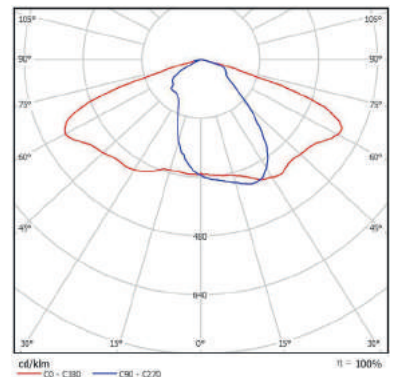
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|-------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Algol SS LED1x4800 C050 T750 | 522x216x137 | 50000 | 4743 | 50 | 70+ | 5000 | 3,10 |
| Algol SM LED1x7800 C051 T750 | 629x268x148 | 50000 | 7725 | 78 | 70+ | 5000 | 4,50 |
| Algol SB LED1x11600 C052 T750 | 752x310x178 | 50000 | 11588 | 117 | 70+ | 5000 | 7,10 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

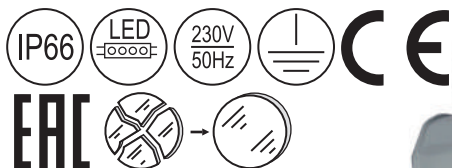
- DALI – DALI driver
- SDIM – Switch-control/dimming
- T750 – Colour temperature 5000K

ALGOL SS LED1X4800 C050 T750



ALGOL M LED

High Efficiency LED Road Lighting Luminaire



- Type:** A high efficiency road lighting luminaire incorporating the latest LED technology for outdoor lighting. Excellent heat dissipation and a long time for low maintenance cost.
- Specification:** An asymmetric optics with high efficiency. Tempered glass fixed with stainless steel clips. Silicone rubber sealing. Body in high-pressure die-cast aluminium in light grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 12 meters.
- Application:** Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Mini-nightswitch turns lighting fixtures ON or OFF, at the same time it can be mounted into IP protected light fitting serving as a standalone solution. The built-in photo-sensor records the brightness of the surroundings and switches the connected lighting fixtures on at dusk and of again at dawn.

- Accessories to order:
- Photocell 12A/35lux

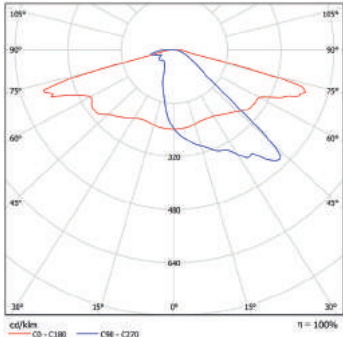
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Algol MS LED1x3000 D004 T740 LSM1 | 522x216x137 | 50000 | 2949 | 28 | 70+ | 4000 | 3,20 |
| Algol MS LED1x5300 D005 T740 LSM1 | 522x216x137 | 50000 | 5214 | 45 | 70+ | 4000 | 3,20 |
| Algol MM LED1x8900 D006 T740 LSM1 | 629x268x148 | 50000 | 8846 | 79 | 70+ | 4000 | 4,60 |
| Algol MM LED1x11800 D007 T740 LSM1 | 629x268x148 | 50000 | 11795 | 106 | 70+ | 4000 | 4,60 |
| Algol MB LED1x14800 D008 T740 LSM1 | 752x310x178 | 50000 | 14743 | 132 | 70+ | 4000 | 7,20 |
| Algol MB LED1x17700 D009 T740 LSM1 | 752x310x178 | 50000 | 17692 | 159 | 70+ | 4000 | 7,20 |
| Algol MX LED1x19900 D010 T740 LSM1 | 863x359x199 | 50000 | 19861 | 176 | 70+ | 4000 | 12,00 |
| Algol MX LED1x23600 D111 T740 LSM1 | 863x359x199 | 50000 | 23589 | 212 | 70+ | 4000 | 12,00 |

* Tolerance range for optical and electrical data: ±10 %

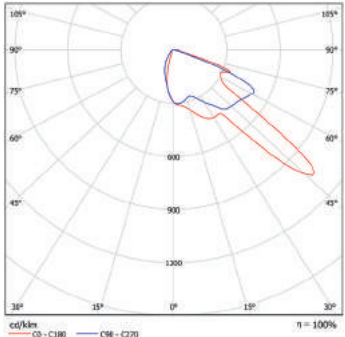
Options available on request:

- DALI – DALI driver
- ADIM – Power reduction device with automatic reduction and middle night detection
- CDIM – Power reduction device with control wire
- LSM1 – Asymmetric optics for streets
- LSPR – Asymmetric optics for pedestrian-crossing „right“
- LSPL – Asymmetric optics for pedestrian-crossing „left“
- T730 – Colour temperature 3000K (subject to min. quantity)
- T740 – Colour temperature 4000K
- T750 – Colour temperature 5000K (subject to min. quantity)
- PCA – Photocell 20 mm miniature type, IP65, 35 lux; 1:05 ratio

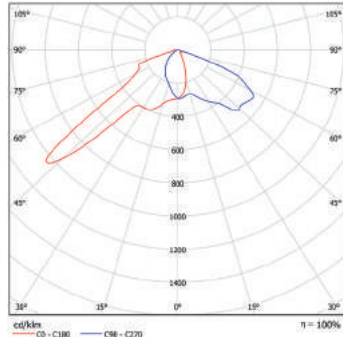
**Algol MM LED1x8900 D006 T740
LSM1**



**Algol MM LED1x8900 D006 T740
LSPR**

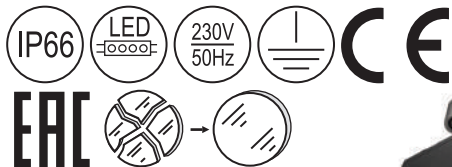


**Algol MM LED1x8900 D006 T740
LSPL**



ALGOL T LED

IP66 LED Road and Street Lights



ALGOL TS LED1X4300 D477 T750
L60X120



ALGOL TM LED1X8500 D479 T750
L60X120



ALGOL TB LED1X12800 D481 T750
L60X120

Type: A range of aluminium street lights with the latest LED solutions for outdoor lighting. Vandal and vibration proof luminaire, designed to match the highest required standards.

Specification: Optics: 60x120° beam lenses. Tempered glass cover fixed with stainless steel screws. Silicone rubber sealing.
Body in high-pressure die-cast aluminium in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 12 meters.

Application: Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Adjustable installation angles:

- for side entry: 0, 10, 15 degrees;
- for post entry 0, 5, 15 degrees.

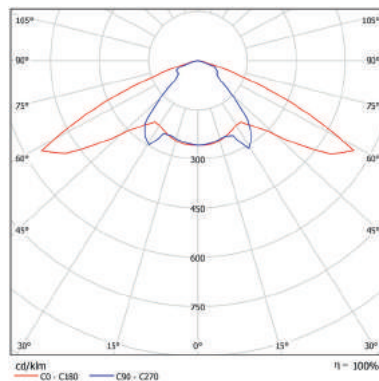
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|---------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Algol TS LED1x4300 D477 T750 L60x120 | 484x240x146 | 50000 | 4489 | 40 | 70+ | 5000 | 5,00 |
| Algol TM LED1x6400 D478 T750 L60x120 | 640x242x146 | 50000 | 6733 | 60 | 70+ | 5000 | 7,00 |
| Algol TM LED1x8500 D479 T750 L60x120 | 640x242x146 | 50000 | 8978 | 80 | 70+ | 5000 | 7,00 |
| Algol TB LED1x10600 D480 T750 L60x120 | 720x360x195 | 50000 | 11222 | 99 | 70+ | 5000 | 11,00 |
| Algol TB LED1x12800 D481 T750 L60x120 | 720x360x195 | 50000 | 13467 | 119 | 70+ | 5000 | 11,00 |

* Tolerance range for optical and electrical data: $\pm 10\%$

Options available on request:

- DALI – DALI driver
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L60x120 – Lens 60x120°
- ADIM – Power reduction device with automatic reduction and middle night detection (only for Algol TB model)
- CDIM – Power reduction device with control wire

ALGOL TM LED1X8500 D479 T750 L60X120



ALGOL L LED

IP66 LED Road and Street Lights



CE ENEC



- Type:** A range of aluminium street lights with the latest LED solutions for outdoor lighting.
- Specification:** Optics: asymmetric, pedestrian crossing right and left. Tempered glass cover. Silicone rubber sealing. Body in high-pressure die-cast aluminum in dark grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 12 meters.
- Application:** Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Adjustable installation angles:

- for side entry: 0, 10, 15 degrees;
- for post entry 0, 5, 15 degrees.

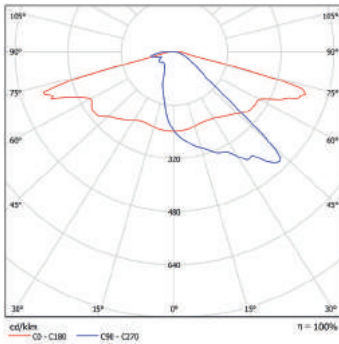
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|-------------------------------|------------------|----------|--------|------------|
| Algol LS LED1x3000 D112 T740 LSM1 | 484x240x146 | 50000 | 2949 | 28 | 70+ | 4000 | 5,00 |
| Algol LS LED1x5900 D113 T740 LSM1 | 484x240x146 | 50000 | 5897 | 53 | 70+ | 4000 | 5,00 |
| Algol LM LED1x8900 D114 T740 LSM1 | 640x242x146 | 50000 | 8846 | 79 | 70+ | 4000 | 7,00 |
| Algol LM LED1x11800 D115 T740 LSM1 | 640x242x146 | 50000 | 11795 | 106 | 70+ | 4000 | 7,00 |
| Algol LB LED1x17700 D116 T740 LSM1 | 720x360x195 | 50000 | 17692 | 159 | 70+ | 4000 | 12,00 |
| Algol LB LED1x23600 D117 T740 LSM1 | 720x360x195 | 50000 | 23589 | 212 | 70+ | 4000 | 12,00 |

* Tolerance range for optical and electrical data: ±10 %

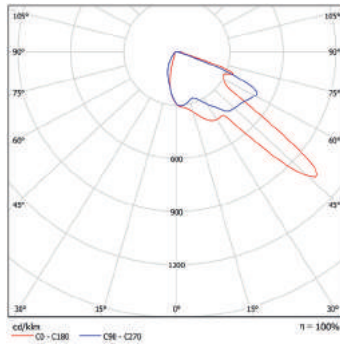
Options available on request:

- DALI – DALI driver
- ADIM – Power reduction device with automatic reduction and middle night detection
- CDIM – Power reduction device with control wire
- LSM1 – Asymmetric optics for streets
- LSPR – Asymmetric optics for pedestrian-crossing „right“
- LSPL – Asymmetric optics for pedestrian-crossing „left“
- T730 – Colour temperature 3000K (subject to min. quantity)
- T740 – Colour temperature 4000K
- T750 – Colour temperature 5000K (subject to min. quantity)

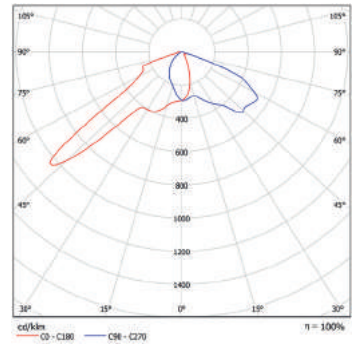
**ALGOL LM LED1X8900 D114 T740
LSM1**



**ALGOL LM LED1X8900 D114 T740
LSPR**

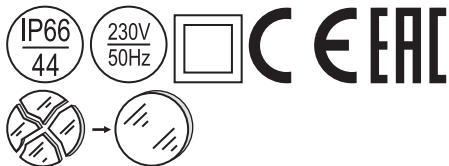


**ALGOL LM LED1X8900 D114 T740
LSPL**



ALGOL

IP66/IP44 Road and Street Lights



Type: A range of multi-purpose street lights made of injection moulded glass-fibre reinforced polypropylene with a choice of two different sizes for the majority of applications. High lighting output and optical performance. IP66 optical compartment and IP44 control gear compartment.

Specification: Anodised aluminium reflector with transparent PMMA or PC bowl. UV stable polyamide clips with stainless steel springs enable tool-free bowl and gear compartment cover removal. Upper canopy and gear compartment cover is made of injection moulded glass-fibre UV stabilized polypropylene in grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 12 meters.

Application: Suitable for many applications including car parks, minor and major roads, residential areas and public places.



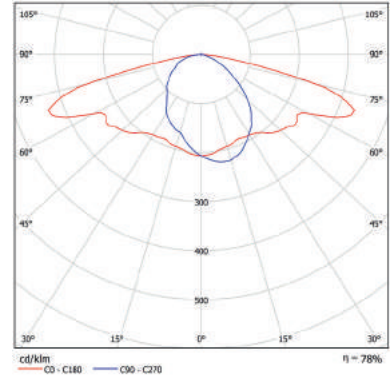
Supplied with special adjustable joint for horizontal or vertical mounting.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Algol 170 E91 | HS | 1x70 (E27) | 630x320x230 | 4,32 | 85 |
| Algol 1100 E92 | HS | 1x100 (E40) | 630x320x230 | 4,32 | 116 |
| Algol 1150 E93 | HS | 1x150 (E40) | 630x320x230 | 4,92 | 168 |
| Algol 1250 E94 | HS | 1x250 (E40) | 730x370x310 | 7,11 | 279 |
| Algol 1125 F16 HM | HM | 1x125 (E27) | 630x320x230 | 4,15 | 138 |
| Algol 1250 E94 HM | HM | 1x250 (E40) | 730x370x310 | 6,94 | 269 |

Options available on request:

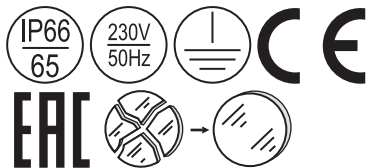
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl
- WCoffPRD – Power reduction device with control wire (reduce when phase is OFF)
- WConPRD – Power reduction device with control wire (reduce when phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control wire needed
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed
- TIM – Timed ignitor
- RS – Special design reflector

ALGOL 1150 E93 RS



ALGOL

IP66/65 Aluminium Road
and Street Lights



Type: A range of aluminium street lights with security switch. IP66 optical and IP65 control gear compartment.

Specification: Anodized aluminium reflector with tempered glass bowl. Stainless steel clips. Upper canopy and gear compartment cover is made of die-cast aluminium in light grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Side entry or post top installation with two screws on poles Ø50 or Ø60mm. Suggested mounting height from 6 to 12 meters.

Application: Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Supplied with special adjustable joint for horizontal or vertical mounting.



Upper canopy fixing in open position allows convenient service and access to the fitting.



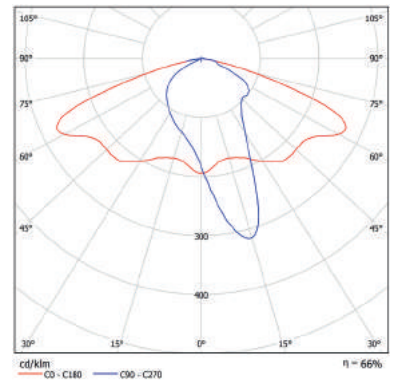
Security switch (SWT) cuts power supply to fitting, once it is opened. This way ensures safe maintenance of the luminaire.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Algol 150 J33 SWT | HS | 1x50 (E27) | 570x265x110 | 5,50 | 62 |
| Algol 170 K67 SWT | HS | 1x70 (E27) | 570x265x110 | 5,50 | 85 |
| Algol 1100 K68 SWT | HS | 1x100 (E40) | 570x265x110 | 5,50 | 116 |
| Algol 1150 K69 SWT | HS | 1x150 (E40) | 570x265x110 | 6,30 | 168 |
| Algol 1250 K70 SWT | HS | 1x250 (E40) | 660x296x192 | 8,4 | 279 |

Options available on request:

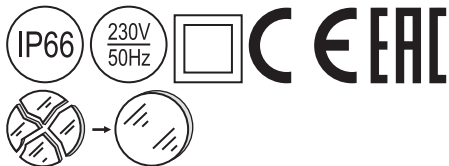
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- TIM – Timed ignitor
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- WCoffPRD – Power reduction device with control wire (reduce when phase is OFF)
- WConPRD – power reduction device with control wire (reduce when phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control wire needed.

ALGOL 170 K67



ALGOL

IP66 Slim-line Road and Street Lights



Type: A range of IP65 slim street lights with optimal light output at competitive prices.

Specification: Bright anodized aluminium reflector with transparent PMMA bowl. UV stable polyamide clips with stainless steel springs enable tool-free bowl and gear compartment cover removal. Upper canopy is made of injection moulded glass-fibre UV stabilized polypropylene in grey finish. Luminaire is plastic-wrapped and boxed individually.

Installation: Side entry mounting with two screws on pole $\varnothing 60$ mm. Suggested mounting height from 4 to 6 meters.

Application: Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.

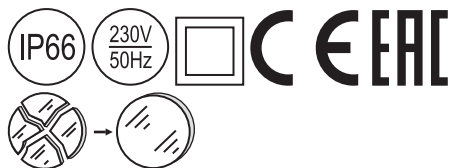
| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|-------------------|-------------|---------------------|--------------------------------|------------|------------------|
| Algol 170 E95 | HS | 1x70 (E27) | 438x308x162 | 2,95 | 85 |
| Algol 1125 F17 HM | HM | 1x125 (E27) | 438x308x162 | 2,78 | 138 |

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- WCoffPRD – Power reduction device with control wire (reduce when phase is OFF)
- WConPRD – Power reduction device with control wire (reduce when phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control wire needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- TIM – Timed ignitor

ALGOL

IP66 Road and Street Lights with Adjustable Lamp Position



Type: A range of non-corrosive street lights with unique curved profile. High lighting output and optical performance, designed to match the highest required standards.

Specification: Bright anodized aluminum reflector with transparent PMMA or PC bowl. Adjustable lamp position. Upper and lower canopies are made of injection moulded glass-fibre UV stabilized polycarbonate. Luminaire is plastic-wrapped and boxed individually.

Installation: Side entry or post top installation with two screws on poles $\varnothing 60$ mm. Suggested mounting height from 6 to 10 meters.

Application: Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



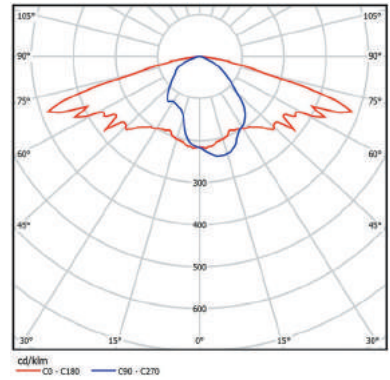
Supplied with special adjustable joint for horizontal or vertical mounting.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|-------------|---------------------|--------------------------------|------------|------------------|
| Algol 170 F12 | HS | 1x70 (E27) | 530x350x175 | 3,8 | 85 |
| Algol 1100 F13 | HS | 1x100 (E40) | 530x350x175 | 3,8 | 116 |
| Algol 1150 F14 | HS | 1x150 (E40) | 530x350x175 | 4,4 | 168 |
| Algol 1125 F15 | HM | 1x125 (E27) | 530x350x175 | 4,24 | 138 |

Options available on request:

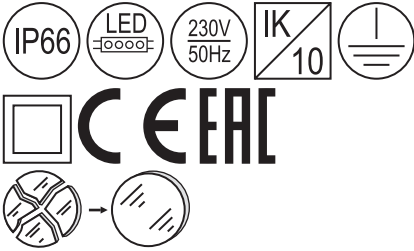
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl
- WCoffPRD – Power reduction device with control wire (reduce when phase is OFF)
- WConPRD – Power reduction device with control wire (reduce when phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control wire needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- TIM – Timed ignitor

ALGOL 1100 F13



ALGOL

IP66 Road and Street Lights with Adjustable Lamp Position



Type:

A range of aluminium street lights with unique curved profile. High lighting output and optical performance, designed to match the highest required standards.

Specification:

Bright anodized aluminum reflector with tempered glass cover. Adjustable lamp position. Upper and lower canopies are made of high-pressure die-cast aluminium. Polyester powder painted. Luminaire is plastic-wrapped and boxed individually.

Installation:

Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 18 meters.

Application:

Outdoor. Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Ease of installation and maintenance with removable gear tray (plug and socket connection). See option list.

| Name | Description | Lamp (W) and holder | Overall dimensions (LxWxH), mm | Weight, kg | Total wattage, W |
|----------------|-------------|---------------------|--------------------------------|------------|------------------|
| Algol 150 R74 | HS | 1x50 (E27) | 525x335x185 | 6,1 | 62 |
| Algol 170 R75 | HS | 1x70 (E27) | 525x335x185 | 6,4 | 85 |
| Algol 1100 R76 | HS | 1x100 (E40) | 525x335x185 | 6,9 | 116 |
| Algol 1150 R77 | HS | 1x150 (E40) | 525x335x185 | 7,1 | 168 |
| Algol 1250 R78 | HS | 1x250 (E40) | 715x390x215 | 11,7 | 279 |
| Algol 1400 R79 | HS | 1x400 (E40) | 715x390x215 | 13,7 | 432 |
| Algol 1600 R80 | HS | 1x600 (E40) | 715x390x215 | 17,4 | 660 |



Supplied with special adjustable joint for horizontal or vertical mounting.



A range of LED aluminium street lights with unique curved profile and 60x120° beam lenses.

Tempered glass cover with canopies made of high-pressure die-cast aluminium. Polyester powder painted RAL9006

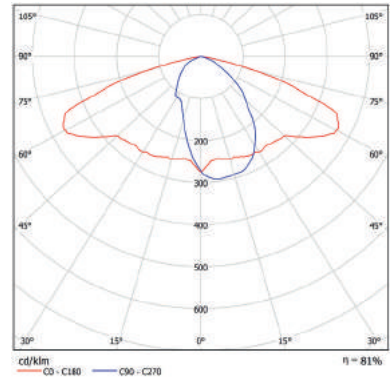
| Name | Overall dimensions (LxWxH), mm | Lifetime | Luminaire output*, lm Ta=25°C | System power*, W | CRI (Ra) | CCT, K | Weight, kg |
|------------------------------------|--------------------------------|----------|----------------------------------|------------------|----------|--------|------------|
| Algol LED1x4300 D482 T750 L60x120 | 525x335x185 | 50000 | 4489 | 40 | 70+ | 5000 | 7,20 |
| Algol LED1x6400 D483 T750 L60x120 | 525x335x185 | 50000 | 6733 | 60 | 70+ | 5000 | 7,20 |
| Algol LED1x8500 D484 T750 L60x120 | 715x390x215 | 50000 | 8978 | 80 | 70+ | 5000 | 12,80 |
| Algol LED1x10600 D485 T750 L60x120 | 715x390x215 | 50000 | 11222 | 99 | 70+ | 5000 | 12,80 |
| Algol LED1x12800 D486 T750 L60x120 | 715x390x215 | 50000 | 13467 | 119 | 70+ | 5000 | 12,80 |

* Tolerance range for optical and electrical data: ±10 %

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- WCoffPRD – Power reduction device with control wire (reduce when phase is OFF)
- WConPRD – Power reduction device with control wire (reduce when phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control wire needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- TIM – Timed ignitor
- RGBOX – Removable gear tray
- II – Electric shock protection class II
- PC – PC diffuser
- T830 – Colour temperature 3000K
- T840 – Colour temperature 4000K
- T750 – Colour temperature 5000K
- L60x120 – Lens 60x120°

ALGOL 1150 R77 HS



INFORMATION

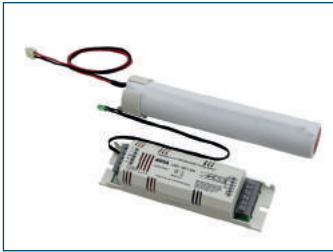


Table of light stream values for fluorescent light sources supplied by emergency kits Nova NG in %:

| Light source | Kit type | NOVA NG/36 | NOVA NG/58 | NOVA NG/80 |
|--------------|-----------------------|------------|------------|------------|
| | Time of work Power | 1h/3h | 1h/3h | 1h/3h |
| T8 | 18W | 10 | 12 | 23 |
| | 30W | 9 | 13 | 17 |
| | 36W | 8 | 10 | 16 |
| | 58W | - | 7 | 9 |
| TC-SEL | 5W | 20 | 23 | - |
| | 7W | 16 | 19 | - |
| | 9W | 14 | 17 | - |
| | 11W | 16 | 19 | - |
| TC-L | 18W | 12 | 16 | 21 |
| | 24W | - | 14 | 20 |
| | 34W | - | 11 | 19 |
| | 36W | - | 10 | 17 |
| | 40W | - | 10 | 13 |
| TC-DEL | 55W | - | 7 | 10 |
| | 10W | 13 | 17 | 19 |
| | 13W | 11 | 16 | 18 |
| | 18W | 9 | 14 | 16 |
| T5 | 26W | - | 12 | 14 |
| | 4W | 26 | 30 | 37 |
| | 6W | 23 | 32 | 36 |
| | 8W | 20 | 32 | 34 |
| | 13W | 18 | 30 | 33 |
| | 14W | 16 | 21 | 27 |
| | 21W | - | 21 | 23 |
| | 24W | - | 17 | 19 |
| | 28W | - | 14 | 18 |
| | 34W | - | 11 | 13 |
| 49W | - | - | 10 | |
| 54W | - | - | 9 | |
| 80W | - | - | 7 | |
| TC-2D | 10W | 25 | 30 | 36 |
| | 16W | 24 | 31 | 34 |
| | 21W | - | 20 | 25 |
| | 28W | - | 19 | 21 |
| | 38W | - | 15 | 18 |
| TC-TEL | 13W | 9 | 14 | 16 |
| | 18W | - | 12 | 17 |
| | 26W | - | 12 | 15 |
| | 32W | - | 7 | 9 |
| | 42W | - | 5 | 7 |








Degrees of protection IP (International Protection)

| 1-st number | 2-nd number | added letter | additional letter |
|-------------|-------------|--------------|-------------------|
| 0..6 | 0..8 | A...D | H...W |










Added letter (optional)

| Letter | protection of the persons |
|--------|--|
| A | protect against the access with the back of the hand |
| B | protect against the access with a finger |
| C | protect against the access with a tool |
| D | protect against the access with a wire |
| H | equipment to high tension |
| M | tested against the harmful due effects to the entry of the water with apparatus in operation. |
| S | tested against the harmful due effects to the entry of the water with apparatus not in operation |
| W | adapted to the use in specified atmospheric conditions |

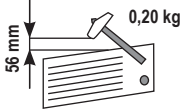
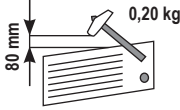
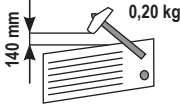
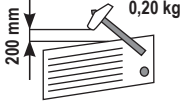
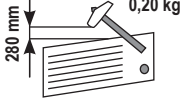
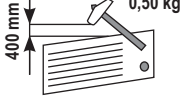
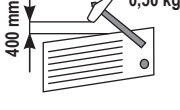



1-ST NUMBER protection against the contact of external solid bodies and against the access to dangerous parts

| | | | |
|---|---|---|--|
| 0 | No protection |  | – |
| 1 | Protection against large foreign bodies |  | Protection of persons from accidental large area direct contact with active or internal moving parts (e.g. hand contact). Protection of the object from access of solid foreign matter larger than Ø50mm. |
| 2 | Protection against medium-size foreign bodies |  | Protection of persons from finger contact with active or internal moving parts. Protection of the object from access of solid foreign matter larger than Ø12mm. |
| 3 | Protection against small foreign bodies |  | Protection of persons from contact with active or internal moving parts with tools, wires or similar foreign matter thicker than Ø2.5mm. Protection of the object from access of solid foreign matter larger than Ø2.5mm. |
| 4 | Protection against granular foreign bodies |  | Protection of persons from contact with active or internal moving parts with tools, wires or similar foreign matter thicker than > than Ø1mm. |
| 5 | Protection against deposits of dust |  | Total protection of persons from contact with voltage carrying or internal moving parts. Protection of the object from harmful deposits of dust. Ingress of dust is not completely prevented, but dust is prevented from entering in a quantity that would impair the functioning of the object. |
| 6 | Protection against ingress of dust |  | Total protection of persons from contact with voltage carrying or internal moving parts. Protection of the object from ingress of dust. |

2-nd NUMBER protection against the penetration of the liquids

| | | | |
|---|--|---|---|
| 0 | No protection |  | - |
| 1 | Protection against water dripping vertically |  | Water drops falling vertically must not have any harmful effect. |
| 2 | Protection against water dripping up to 15° |  | Water drops falling at any angle up to 15° from vertical must not have any harmful effect. |
| 3 | Protection against spray water |  | Water hitting the object at any angle up to 60° from vertical must not have any harmful effect. |
| 4 | Protection against splash water |  | Water splashing against the object from all directions must not have any harmful effect. |
| 5 | Protection against jet water |  | A jet of water sprayed against the object from all directions must not have any harmful effect. |
| 6 | Protection against flooding |  | Water of temporary flooding, as in heavy seas, must not enter the object in any harmful quantity. |
| 7 | Protection against dipped state |  | If the object is dipped into water (150mm to 1000mm), under the defined conditions of pressure and time, water must not enter the object in any harmful quantity. |
| 8 | Protection during submerged state |  | If the object is submerged in water under defined extreme conditions, water must not enter the object in any harmful quantity. |

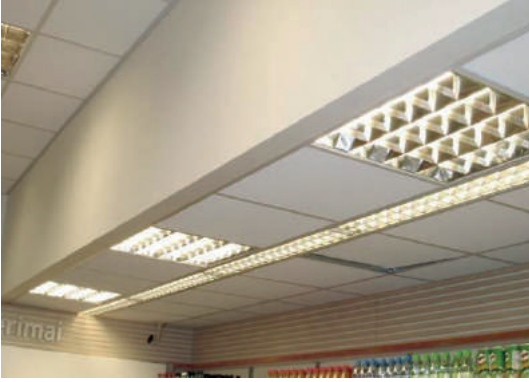
The degree of mechanical protection is identified by a code that consists of the letters IK followed by two digits:

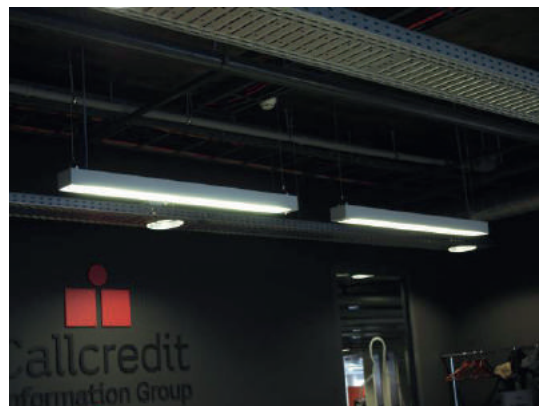
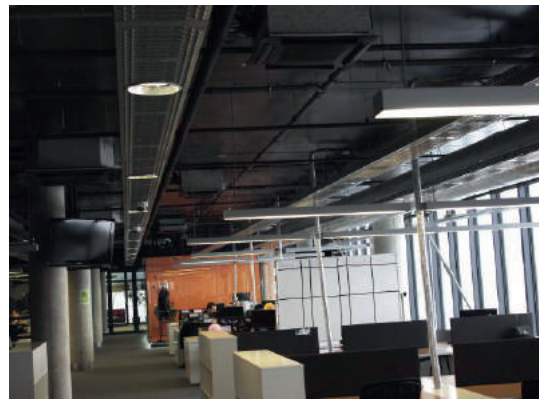
| IK number | Energy | | Equivalent impact |
|-----------|-----------------------------|---|--|
| 00 | Non-protected | | no test |
| 01 | Impact energy: 0,150 joules |  | Resistant against an impact from an object of 200 grams from a distance of 5,6 cm |
| 02 | Impact energy: 0,200 joules |  | Resistant against an impact from an object of 200 grams from a distance of 8,0 cm |
| 03 | Impact energy: 0,350 joules |  | Resistant against an impact from an object of 200 grams from a distance of 14,0 cm |
| 04 | Impact energy: 0,500 joules |  | Resistant against an impact from an object of 200 grams from a distance of 20 cm |
| 05 | Impact energy: 0,700 joules |  | Resistant against an impact from an object of 200 grams from a distance of 28 cm |
| 06 | Impact energy: 1,00 joules |  | Resistant against an impact from an object of 500 grams from a distance of 20 cm |
| 07 | Impact energy: 2,00 joules |  | Resistant against an impact from an object of 500 grams from a distance of 40 cm |
| 08 | Impact energy: 5,00 joules |  | Resistant against an impact from an object of 1.7 kg from a distance of 30 cm |
| 09 | Impact energy: 10,00 joules |  | Resistant against an impact from an object of 5 kg from a distance of 20 cm |
| 10 | Impact energy: 20,00 joules |  | Resistant against an impact from an object of 5 kg from a distance of 40 cm |

Chemical resistance of PROOF series parts made of thermoplasts

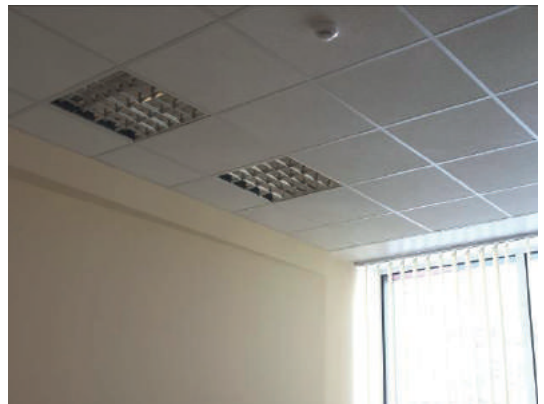
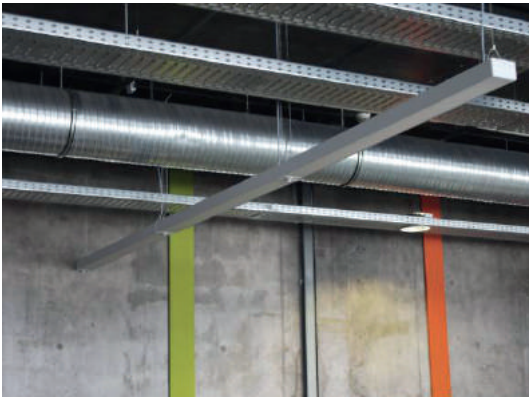
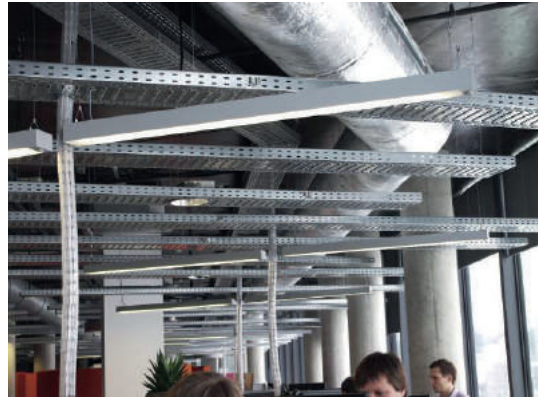
| Enviroment | Max con- centration | PROOF diffuser resistant | | | PROOF body resistant | | |
|--|------------------------|--------------------------|-----------|----|----------------------|-----------|----|
| | | yes | partially | no | yes | partially | no |
| Aceton (ketones) | | | | • | | | • |
| Aniline | | | | • | | | • |
| Ammonia | 5% | • | | | • | | |
| Benzene and Benzaldehyde | | | | • | | | • |
| Diethylether(ethers) | | | • | | | | • |
| Potassium nitrate | | • | | | | | |
| Ethanol(alcohols) | 50% | | • | | | • | |
| Ethylacetate(esters) | | | | • | | | • |
| Ethyl alcohol | | | • | | • | | |
| Phenol | | | | • | | | • |
| Glycerine | | • | • | | | | |
| Heptane | | | | | | | • |
| Ammonium hydroxide | 25% | | | | | • | |
| Sodium hydroxide-base | 60% | • | | | • | | |
| Sodium chloride-salt solution | 15% | • | | | • | | |
| Sulphur chloride and calcium chloride | | • | | | | | |
| Carbon tetrachloride and Chloric ether | | | | • | | | • |
| Iron dichloride | | • | | | | | |
| Arsenic acid and Oleic acid | | • | | | • | | |
| Citric acid | 20% | • | | | • | | |
| Nitric acid | 20% | | • | | | • | |
| Nitric acid | 50% | | | • | | | • |
| Hydrochloride acid | 5% | • | | | • | | |
| Hydrochloride acid | 35% | | | • | | | • |
| Chromic acid | 40% | | • | | | • | |
| Formic acid | 30% | | • | | | | |
| Acetic acid | 10% | • | | | | • | |
| Sulphuric acid | 30% | • | | | | • | |
| Methanol | | | | • | | | • |
| Fuel oil | | | • | | • | | |
| Mineral oil | | • | | | • | | |
| Vegetable oil | | • | | | • | | |
| Rape oil | | • | | | | • | |
| Lamp oil | | | • | | | • | |
| Hydrogen peroxide | 30% | | | • | | • | |
| Ammonium sulphate | 15% | • | | | • | | |
| Toluene | | | | • | | | • |
| Turpentine oil | | | | | • | | • |
| Trichlorethylene | | | | • | | | • |
| Sodium carbonate | 20% | • | | | | | |
| Aliphatic hydrocarbons | | • | | | | • | |
| Aromatic hydrocarbons | | | | • | | | • |
| Alkali | | • | | | • | | |

REFERENCES

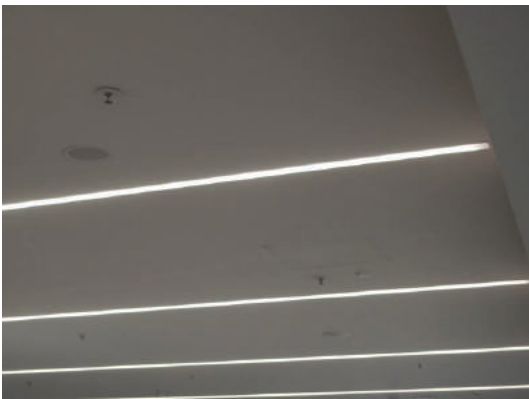
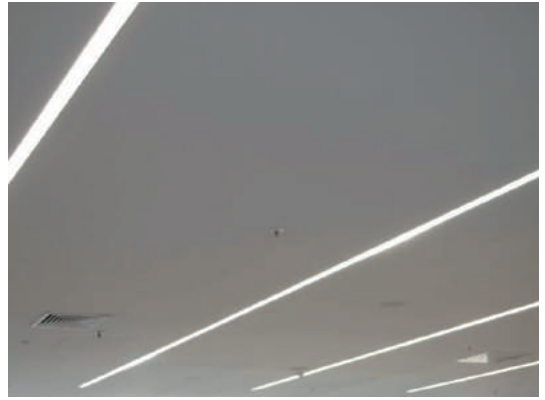


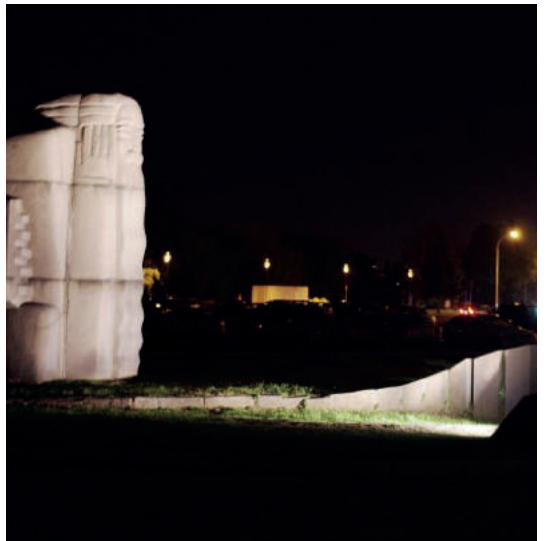


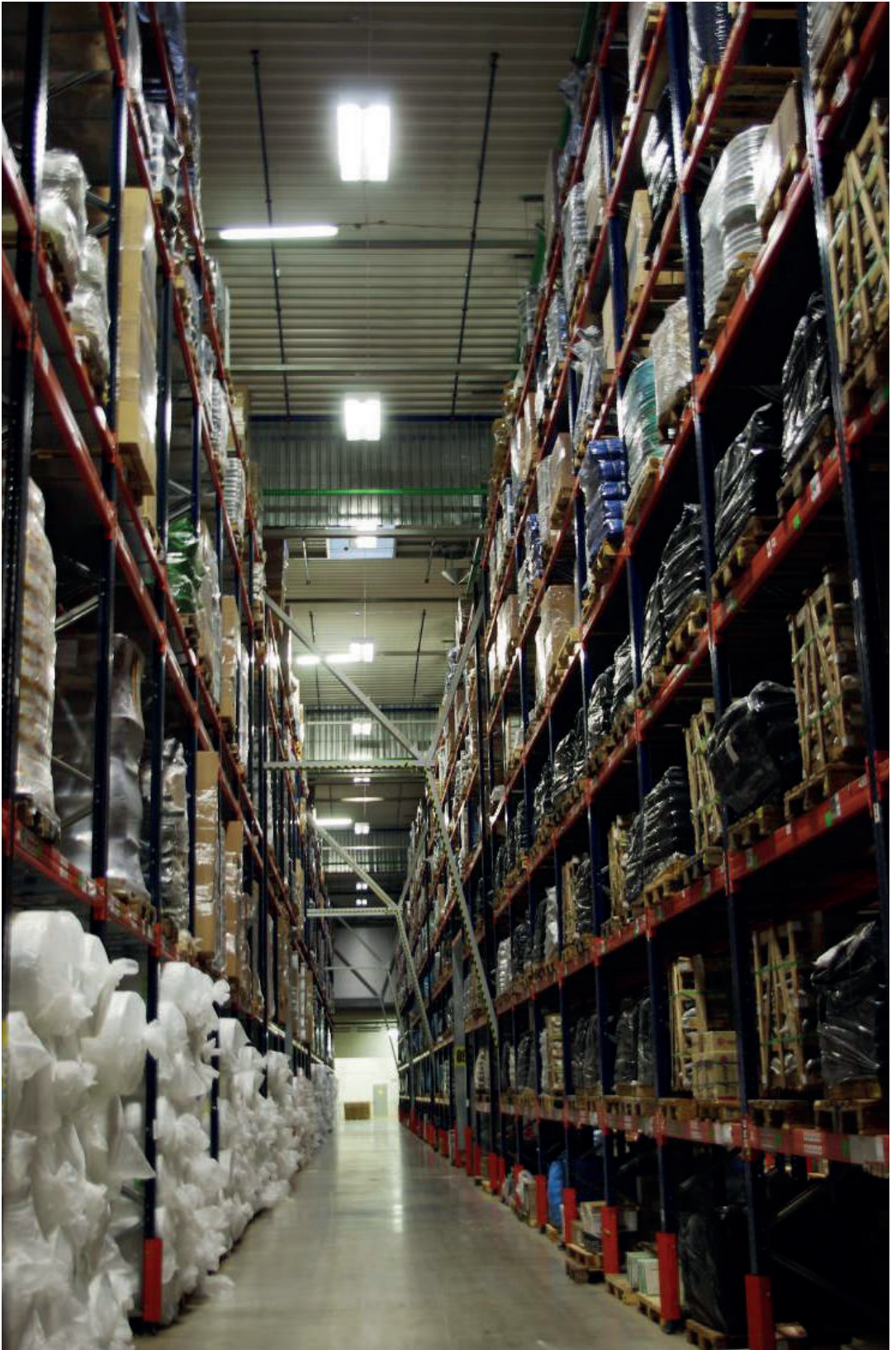




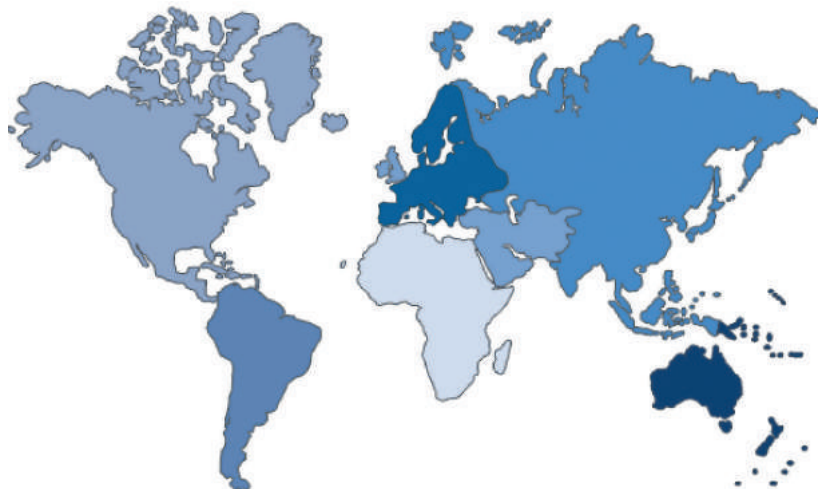








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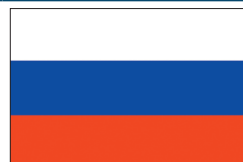
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All Northcliffe luminaires are supplied without lamps or tubes.

