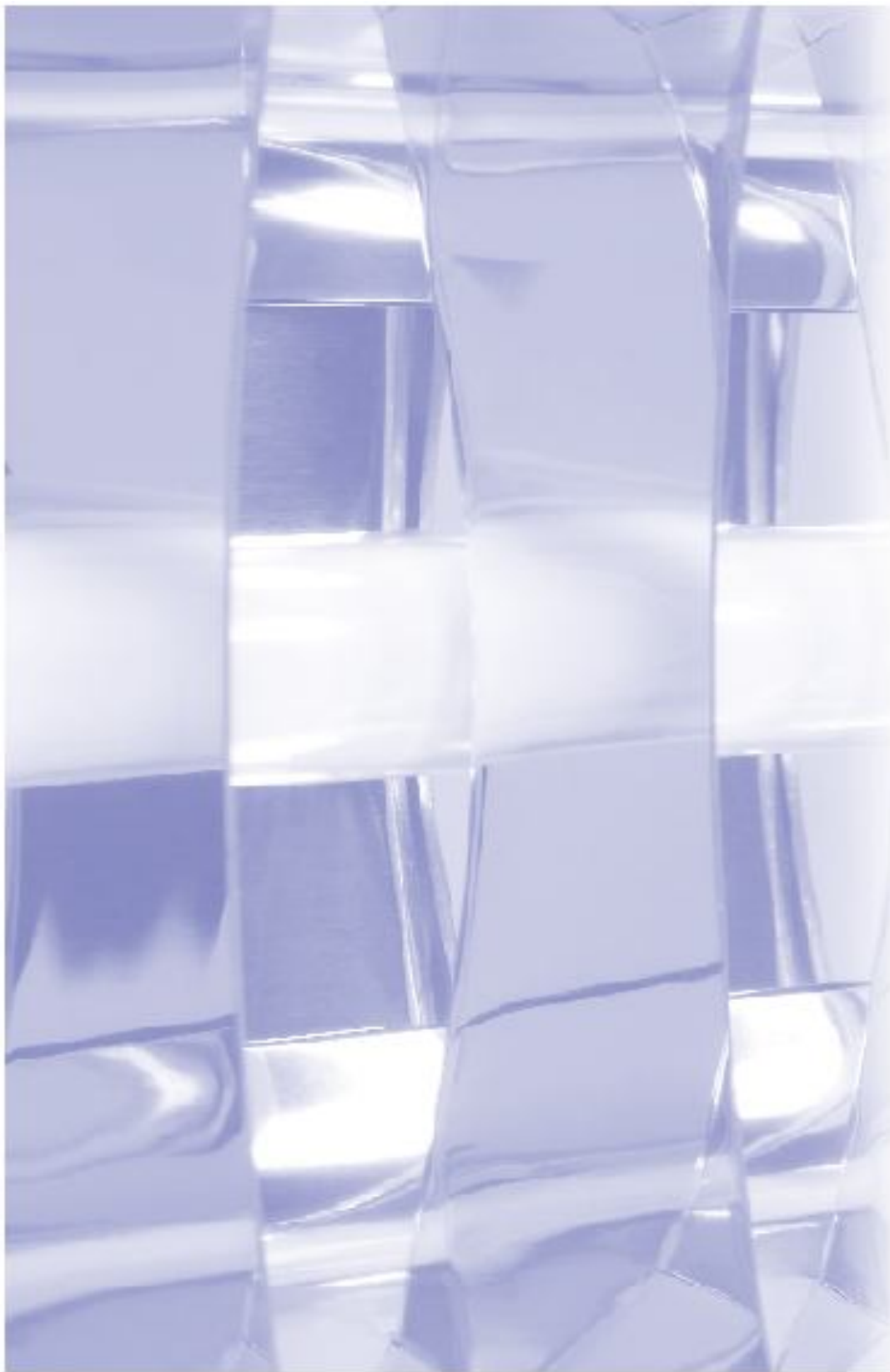


[Перейти к продукции](#)



NORTHCLIFFE

MAKING LIFE BRIGHTER

2012



HOW TO USE CATALOGUE FOR STANDARD RANGE?

Passat 4 18 A07 9CR EM3 HF

Option list, there:

9CR- means 9 cross blades

EM3 -means emergency version 3 hours

HF -means high frequency control gear

Product number

Wattage of lamps

Quantity of lamps

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

Option list

modifications of the luminaire

Photometric data

light characteristics of the product or range of products



| | |
|-----------------------|--|
| Type: | Traditional recessed T8 luminaire with glossy V-shaped louvre. A classic design for general commercial lighting. |
| Specification: | 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 A07 RGD) or economic (Passat 418 A05). Wiring is concealed and not visible from ground level. |
| Installation: | Luminaire is plastic-wrapped and packaged in twin boxes. |
| Application: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Passat 218 D/5 | 2x18 (G13) | 598x299x85 | 2,4 | 42 |
| Passat 418 A05 | 4x18 (G13) | 595x595x72 | 3,0 | 84 |
| Passat 418 A07 RGD | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Passat 236 D/6 | 2x36 (G13) | 1134x299x85 | 3,9 | 84 |
| Passat 436 D/7 | 4x36 (G13) | 1134x598x85 | 7,2 | 168 |

| | | |
|--|---|--|
| Options available on request: | | |
| HF- High frequency control gear | MGT- Matt reflector | |
| D35- Dimmable ballasts | 7CR- Louvre with 7 cross blades | |
| EF2- Emergency version 1 hour | 9CR- Louvre with 9 cross blades | |
| EF3- Emergency version 2 hour | 11CR- Louvre with 11 cross blades | |
| EF4- Emergency version 3 hour | 3- poles connector (subject to minimum order) | |
| 4TB- 4 way terminal block for loop feed and ease of wiring | WPC- Low Power Factor | |
| 5TB- 5 way terminal block for loop feed and ease of wiring | | |

| Factors of relative light distribution, % | | | | | | | | | | | | |
|---|-----|----|----|----|----|----|----|----|----|----|-----|-----|
| Operating, info, 0 | | | | | | | | | | | | |
| Beam angle, ° | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 0 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 10 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 20 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 30 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 40 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 50 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 60 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 70 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 80 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 90 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 100 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |
| 110 | 100 | 80 | 60 | 40 | 20 | 10 | 5 | 3 | 2 | 1 | 0 | 0 |



HOW TO USE CATALOGUE FOR LED RANGE?

BARAT LED

B104

2x

2140lm

T840

OP

Option list, there:
OP- opalized diffuser

T8->Color rendering: Ra
>80%

40->Color temperature:
4000K

Luminous flux: 1900 lm/strip

Quantity of strips

Product number

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

Option list

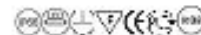
modifications of the luminaire

Photometric data

light characteristics of
the product or range of products

Burst LED

IP66 for High impact resistance with opalized diffuser



| | |
|---------------|--|
| Type: | Self and mature group (IM, JG) Culture for high impact reactions |
| Applications: | Use on students as performance (JG), when possible model (JG) use Develop mature performance strategy, group (JG), JG use training sites and using students from the end of the study for study materials Compare to performance and based individuality |
| Conclusions: | Self and mature group (JG) use in groups or use as a group |
| Applications: | Self and mature group (JG) use in groups or use as a group |

[illegible]

| | | | |
|----|---|-------|--|
| 10 | Barium meal study | GB | Spent 10 minutes preparing the office |
| 20 | 2 x 100 ml normal saline for water supply | 1.5hr | Through using 2nd hand water was passed across the house |
| 30 | 3 x 100 ml normal saline for water supply | 1.5hr | Through using 2nd hand water was passed across the house |

CONTENTS

About company

Certificates

Our partners and photometric data

Sophisticated solutions

Why electronic ballasts?

Why T5 lighting fixtures?

Lighting systems

iDIM applications

Emergency monitoring system

PIR devices for plastic luminaires

Energy saving solutions and power reduction devices for street lighting

Recessed T5/LED luminaires

Sirius 2/4x14/24 W



Polaris 2/4x14/24 W



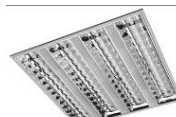
Polaris 1/2x28/54 W



Polaris 2x28/54 W



Polaris 4x14/24W



Polaris 3/4x14/24 W



Levanto R LED



Marenco R LED



Breeze ECO
2/4x14/24/28/54 W



Recessed Indirect Luminaires

Jetta 2x36/40/55 W



Jetta 2x36/40/55W



Jetta
1/2x14+2x50W



Bali 1x14-80/4x14-24



Recessed T8 Luminaires

Breeze 4x18W



Breeze 2x18/36W



Breeze 4x36W



Breeze DPAR 4x18/14-24



Breeze 4x18W RIB



Passat 2/4x18/36W



Mistral 4x18W ECO



Monsoon 4x18W ECO



Levanto
2/4x18/36W



Marenco 2/4x18/36W



Surface and Suspended T5/LED Luminaires

Polaris 1/2x14/24W



Polaris
2/4x14/24W



Polaris
4x14/24W



Polaris
1/2x28/54W



Polaris 2/4x28/54W



Suspension kit



Cap with spiral cable



Levanto S LED



Marenco S LED



Surface and Suspended T8 Luminaires

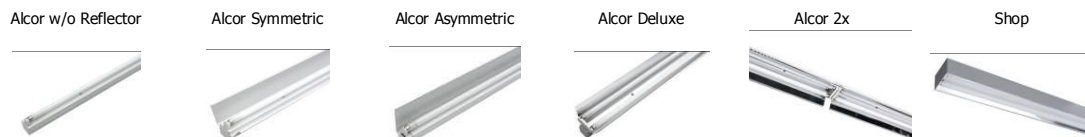
| | | | | | |
|-------------------|------------------|----------------|------------------------|---------------|---------------------|
| Breeze 4x18W | Breeze 2x36W | Breeze 2x18W | Breeze DPAR 4x18/14-24 | Monsoon 4x18W | Monsoon 2x36W |
| Passat 4x18W | Passat 2x36W ECO | Passat 236 A32 | Sirocco 2x18W | Sirocco 4x18W | Monsoon 4x18 ECO |
| Mistral 4x18W ECO | Levanto 4x18W | Levanto 2x36W | Levanto Sport 2x36W | Marengo 4x18W | Jetta 2/3x36/28/54W |

Suspended & Aluminum profile Luminaires

| | | | | | |
|--------------------|-------------------|-----------------|---------------|-------------------|------------|
| Bora REF 2x36/58W | Jetta 3x36/28/54W | Serpents PAR | Serpents PRZ | Serpents OP | |
| Serpens D PAR | Serpens D OP | Décor PAR | Décor OP | Décor PRZ | |
| Décor D Sense | I-JOIN | L-JOIN | T-JOIN | X-JOIN | Bracket UP |
| Bracket DOWN | Décor D PAR | Décor D OP | Décor D PRZ | Décor D Sense | I-JOIN |
| L-JOIN | T-JOIN | X-JOIN | Cap with wire | Suspension set | |
| Tucana | Tucana LG3 | | Tucana PULL | Topcana UP/DOWN | I-JOIN |
| Bora w/o Reflector | Bora Symmetric | Bora Asymmetric | Bora Deluxe | Negara 1/2x18-58W | Holder |

Battens T8

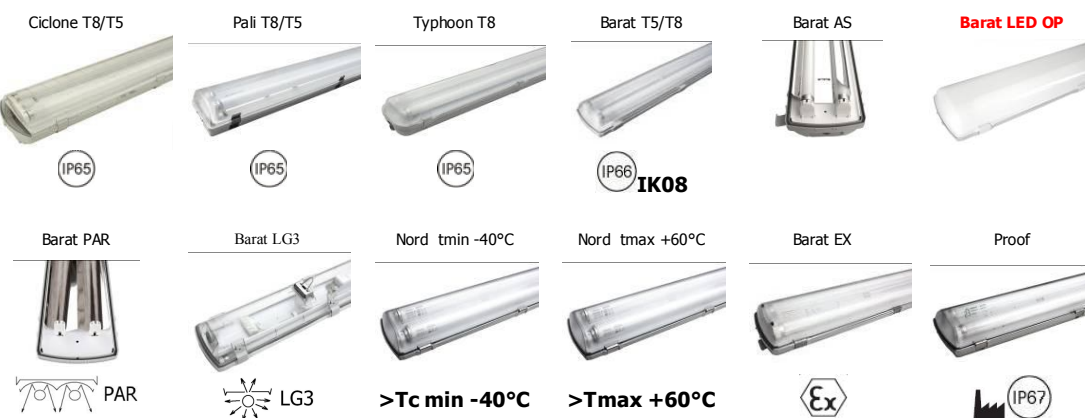
Battens T5



Plastic Luminaires



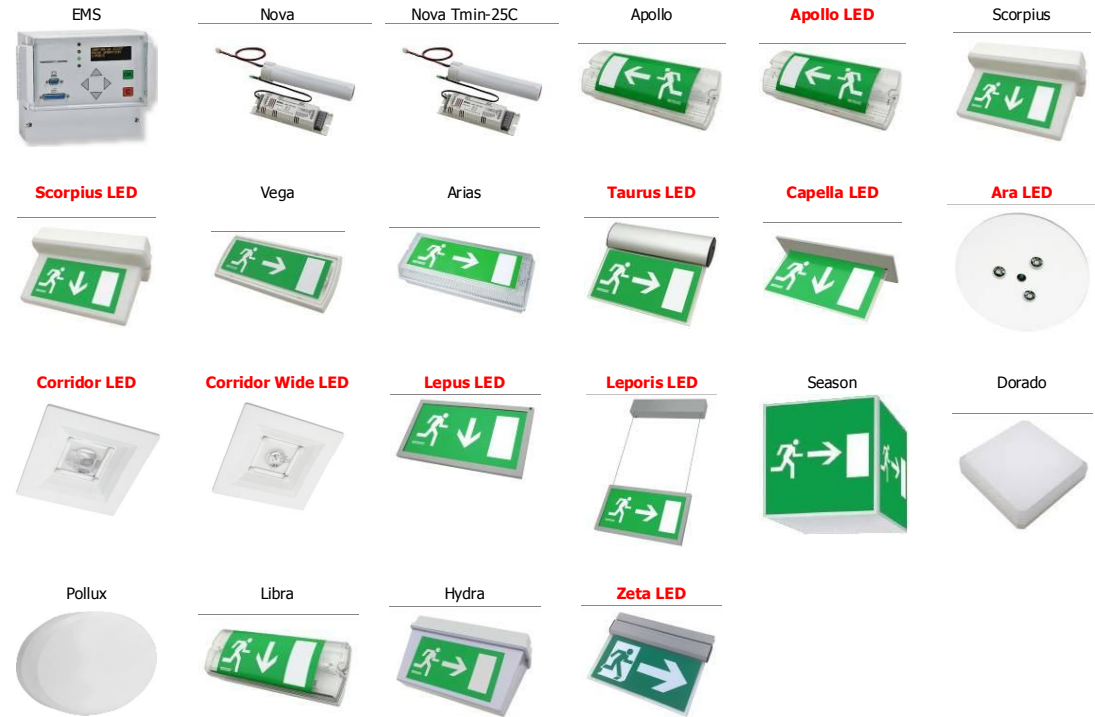
Industrial IP65 Luminaires



Industrial IP65 Luminaires



Emergency Lighting



Spotlights



HID Downlights



Downlights

| | | | | | |
|---------------|---------------|-----------|---------------|-----------------|-------------|
| Orion | Orion FCT | Orion OGL | Orion GLR | Orion OP | Orion SOP |
| Orion LED SOP | Orion MIR | Orion MR4 | Ursa fct | Ursa SOP | SGEAR |
| Tetra SOP | Tetra LED SOP | Tetra MR4 | Orion Surface | Orionis Surface | Orionis LED |
| Perseus IP65 | | | | | |

High bay
Luminaires

| | | | | | |
|------------------------|-----------------------|---------------------------|--------------------|------------|-------------|
| Montblanc 1x70-150W | Prizma 1x70-250W | Auster | Norte | Norte GRID | Norte FRAME |
| Sky Sport | Everest 1x250-400W | Everest 1x250-400W STR | Protection Grid | Switch | RAL |

Floodlighting

| | | | | | |
|----------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|------------------------|
| Boreas LED | Boreas Symmetric 1x70-150W | Boreas Asymmetric 1x70-150W | Boreas Asymmetric 1x250-400W | Boreas Symmetric 1x250-400W | Boreas CL 1x70-150W |
| Boreas CL 1x150-400W | Boreas CL SPOT 70-150W | Boreas CL 1000W | Arena SPOT BLADE 1000-2000W | Arena SPOT 1000-2000W | Arena BLADE 1000-2000W |

Floodlighting

Arena 1000-2000W



GRID



REF



VIS



Radius 35-150 W



Grus 50-150W



Cygni 14-54W



Floor 14-54W



Tube B 2x70-150W



Tube B HOL 1x70-150W



Tube M 35-70W



Tube M UP 35-70W



Tube S



Arcturus
1x50-70W



Eta



Eta LOUVER



Oval



Oval LOUVER



Pyxis



Mensa



Pocket



Theta



Theta GRID



Atlas B 35-150W



Atlas B AS 35-150W



Atlas B SQUARE 35-150W



Atlas B MOVE 35-150W



Atlas B COVER 35-150W



Atlas B ANGLE 35-150W



Atlas B LOUVER 35-150W



Atlas M 35-70W



Atlas M SQUARE 35-70W



Atlas M COVER 35-70 W



Atlas S



Atlas S SQUARE



Atlas S COVER



Kappa



Kappa LONG



Apus



Apus HOL



Apus HOL LOUVER



Apus GRO



Apus GRO LOUVER



Fish



Fish



INOX BOX4



Street Lighting



General Information
Contacts

All Northcliffe luminaires are supplied without lamps and tubes

NORTHCLIFFE

MAKING LIFE BRIGHTER



NORTHCLIFFE LIGHTING was established in 1993 with the factories in **the** Lithuania, Russia and Ukraine and since then it has become one of the largest independent lighting manufacturers in **the** Central and Eastern Europe. The company has achieved rapid growth over **the** last 15 years and currently produces 3.5 million light fixtures per year.



All our products are made using high quality components from reputable European suppliers, such as Helvar, Electronicon, Meco, Alanod, Anofol, AAG Stucchi, Osram, etc.



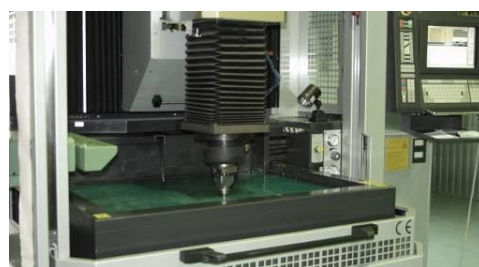
Northcliffe utilizes the most advanced technologies, some of them **are** unique and patented, to produce low weight and slim light fixtures for easy installation, as well as for efficient storage and transportation.



Our current product range includes recessed, surface-mounted and suspended T8 and T5 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 ballasts, offered with gloss, matt or MIRO reflectors, various types of connectors and plugs to suit specific requirements of any European market.



100% of our products are individually tested before leaving our factories and comply with all the EGSE, CE and ROHS standards and requirements.



To make it more convenient for our potential customers to make choice we show the most demanded products, which best reflect NORTHCLIFFE strong ability to offer high quality products for 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

Certificates:



The production and products are approved by "CERTIFICATION CENTER OF ELECTROTECHNICAL PRODUCTS" (UAB "ELEKTROTECHNINIŲ GAMINIŲ SERTIFIKAVIMO CENTRAS" (EGSC)), that gives the right to use "EGSC" sign on the labeling of products, as a sign of products conformity with EU norms.

In November 1995 EGSC was accredited by ~~the~~ 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:

73/23/EEC Low voltage Directive as amended by 93/68/EEC

89/336/EEC Electromagnetic Compatibility Directive, amended by 93/68/EEC

96/57/EEC Energy Efficiency Directive

The standards referenced below have been applied:

LST EN 60598-1 Luminaires. Part 1: General requirements and tests

LST EN 60598-2-1 Luminaires. **Part 2:** Particular requirements. Section 1: Fixed general purpose luminaires

LST EN 60598-2-2 Luminaires. **Part 2:** Particular requirements. Section 2: Recessed luminaires

LST EN 60598-2-5 Luminaires. Part 2: Particular requirements. Section 1: Floodlights

LST EN 60598-2-22 Luminaires. Part 2: Particular requirements. Section 22: Luminaires for emergency lighting

LST EN 1838:2005 Lighting applications. Emergency lighting

LST EN 61347-1:2003 Lamp **control gear**. Part 1. General and safety requirements

LST EN 61347-2-3:2002 Lamp **control gear**. Part 2. Section 3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps

LST EN 61347-2-7:2002 Lamp **control gear**. Part 2. Particular requirements for d.c. supplied electronic ballasts for emergency lighting



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



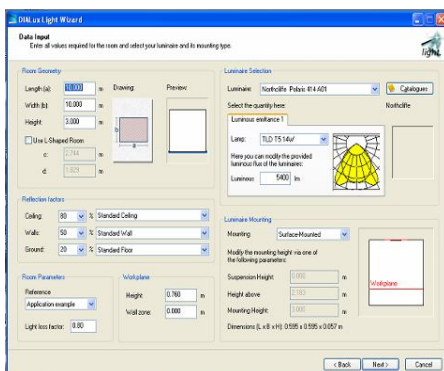
- Lamp and starter holders, terminal blocks from AAG STUCCHI, Italy



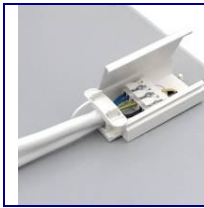
- Starters and tubes from OSRAM, Germany



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



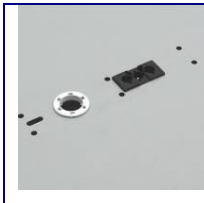
Sophisticated solutions:



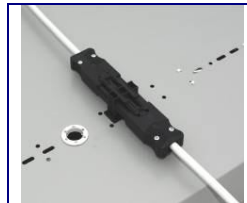
QCK- Encased push-in type terminal for quick connection



PLUG- fitting with an outgoing flexible cable and plug



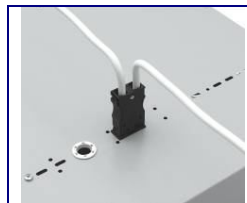
WIE- 3- poles connector (subject to minimum order)



Wieland type recessed outlet fitted with 3 or 5m flexible cable with mother/father type connectors at the ends and T-type connector



"T" type connector



Wieland type recessed outlet fitted with push-in type connector for two 3x2,5mm² cables



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



CON5- 5 poles connector (please indicate connector type (mother or father) and wire length placing order)



1LIN- Through wiring 3x1.5 mm² with two push-in terminal blocks (or 1LIN2,5- through wiring 3x2.5 mm²)



3LIN- Through wiring 5x1.5 mm² with two push-in terminal blocks (or 3LIN2,5- through wiring 5x2.5 mm²)



SW- Security wire 1,5 m length 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

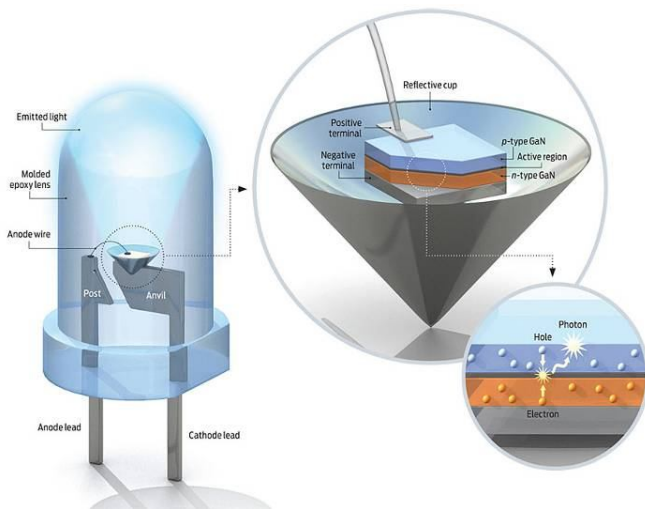
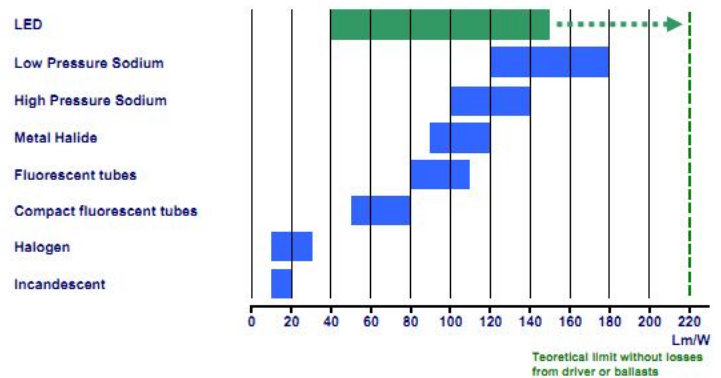


SPORT- white painted protection grid for sport halls (available on request for surface and suspended type 2x36, 2x58 and 4x18 type fixtures)

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 220 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

Creating LED lighting series we think about replacement of traditional lighting sources allowing substantial saving in electrical energy for the similar amount of **emitted light.**

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



T8 Luminaire 4x18W with magnetic ballasts

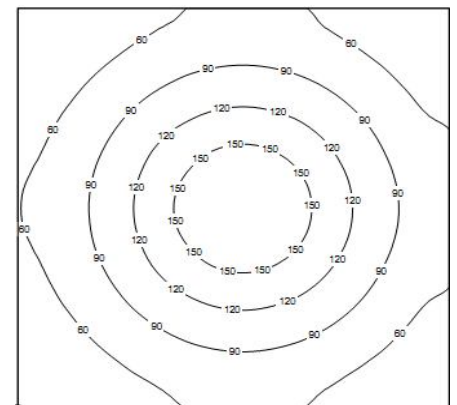
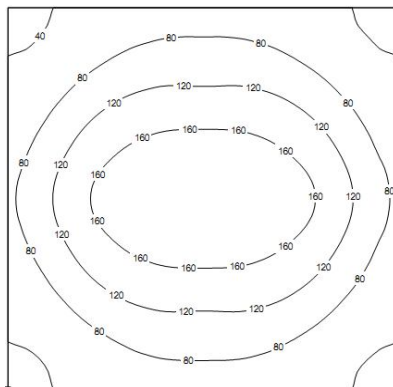
86-90W



LED luminaire

40-41 W

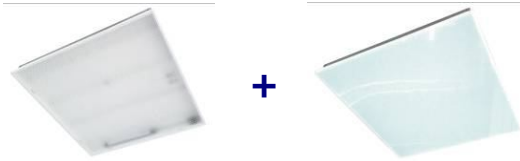
*- up to 15-17 EUR can be saved every year, if used 8 hours per day (based on 0,12 EUR/kWh)



To satisfy present demand of LED technology based lighting solutions, we offer ready products to each application.

Application areas

Recessed LED fittings: for office and commercial buildings



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



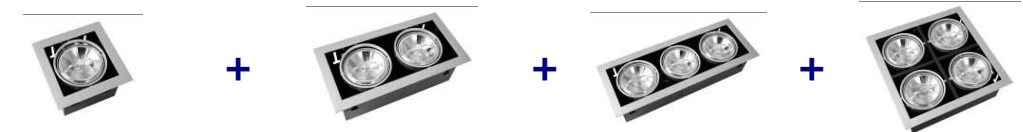
Emergency LED lighting: for information purposes when electricity supply fails



IP66 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.



Products which were not included or mentioned in this list can be produced on request. For further and most up-to-date information please visit www.northcliffe.org or send us an email to info@northcliffe.org

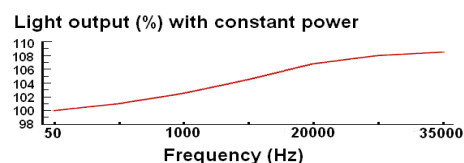
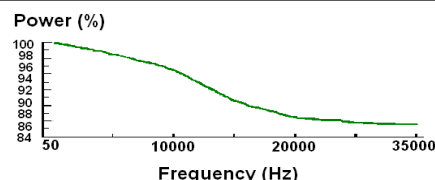
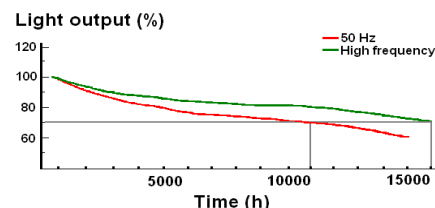
Why electronic ballasts?



NORTHCLIFFE lighting fixtures T8 series with electronic technology are now becoming the standard in new construction and renovation applications. The operation **of energy** saving luminaires with fluorescent lamps is quieter, with no flickering and increased efficiency in lighting output with less energy consumption than traditional luminaires with magnetic ballasts.

Ordinary luminaire that regulates power to fluorescent tubes, operates at 50Hz or cycles per second, resulting in a barely perceptible flicker and a noticeable hum. The flickering light increases stress and the hum is quite annoying for people. Many people are sensitive to ballast flicker and hum and it can cause headaches, burning eyes, tension and general fatigue.

T8 Energy Savings series are now available with high frequency cycling which effectively eliminates all flicker and hum, removing associated health concerns.

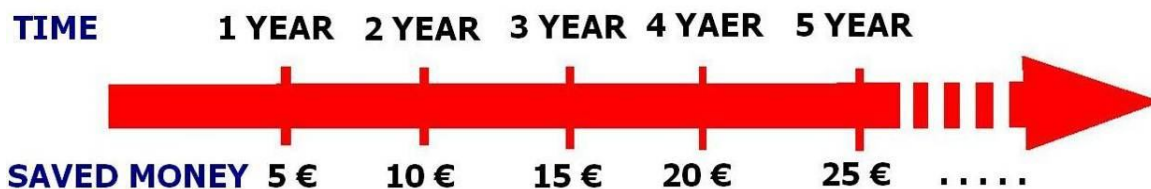


The benefits of using BREEZE T8 Energy saving series

| | Ordinary luminaire with magnetic ballast | BREEZE T8 Energy saving series, with electronic technology |
|--|--|---|
| The lower system electrical energy usage | Stable power losses | Requires 15-20 % less electrical energy, mainly due to the efficiency gain of the lamp, when it is operated at high frequencies and advanced technology. |
| Quieter operation | Vibration of electromagnetic field causes humming noise. | No audible noise, less distracting |
| Reduced lamp flicker | 50 Hz frequency causes lighting flicker levels, which could cause burning eyes and headache. | Flicker-free (46 kHz) light improves the working environment, doesn't cause people fatigue and headaches |
| Longer lamp life | The starters and lamp maintenance costs | The longer lamp life due to the optimal starting conditions and the optimal setting of the electrodes during burning |
| No end life effect | System attempts to ignite the lamp until the contact of starter switch sticks together, then a current can continuously lead to overheating of the lamp ends. Fire danger. | Electronic technology has built-in protection so that in case of end of life of a lamp, the ballast will then switch off the supply to the lamps to prevent unnecessary stress to the circuit |

The higher first investment cost will be covered during one year (or less) and customer will save 4-5 € per year* from every luminaire installed every coming year !!!

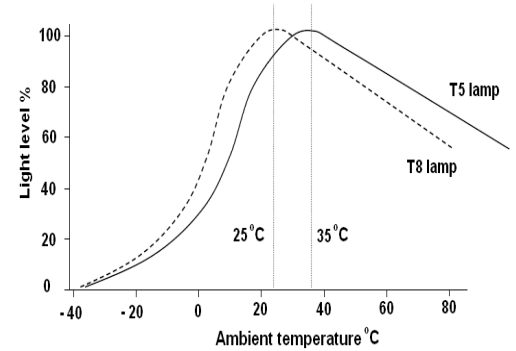
How many lighting fixtures you are planning to install?



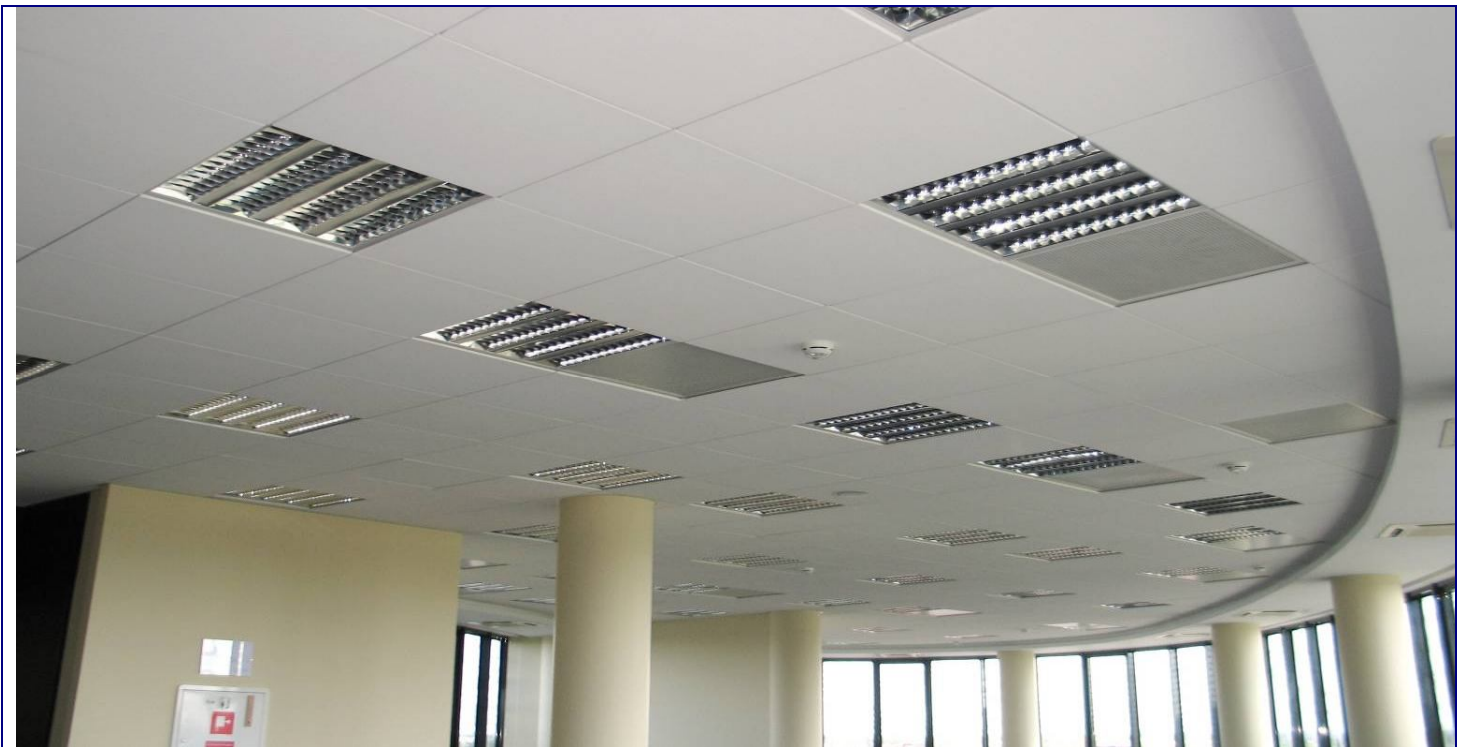
***Annual savings per fixture per year based on 0,12 EUR/kWh, 10 hours/day, 265 working days**

Don't mix lighting fixtures with magnetic and electronic ballasts on the same electrical circuit. The energy spikes from magnetic ballasts may damage electronic ballasts

Why T5 lighting fixtures?



- **Energy costs, reduced by 30 % compared to T8 fixtures with magnetic ballasts and 10-15 % compared to T8 fixtures with electronic ballast**
- **Eco-friendly, with 38% less glass, weight of lighting fixture less than 2 kg and less mercury contained, as a result, lower utilization costs**
- **Design of a smaller enclosed luminaire is allowed due to 10 % higher light output at 35°C of T5 tubes**
- **Cheaper recycling due to 50 % lower weight of a lighting fixture**
- **Average life of T5 tubes is 20 000-24 000 hours**
- **Low maintenance cost due to long lamp life and increased service circle**
- **High light emission level (90-104lm/W) compared to T8 tubes (67-90 lm/W)**
- **Minimal loss in lumen flux during lamp life time**



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.

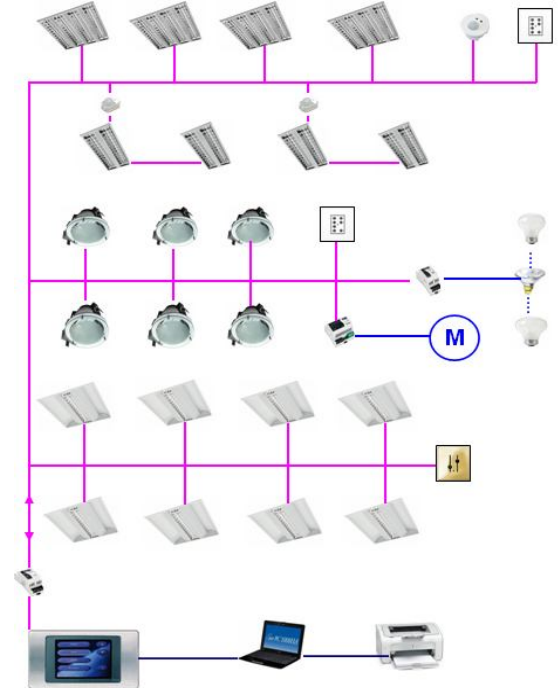
Illumination control system unites all the light sources in the building and gives an opportunity to control each of them individually from any location. Such system **allows controlling** illumination as much as possible, starting from illumination control in one room and extending to its control in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

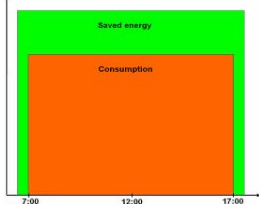
The cost-effectiveness and possibility of illumination sources self-adjustments seems to be one more obvious benefit of the system.

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**

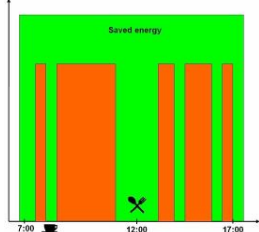
Upon the requests of a client, the system could be adjusted to a more sophisticated one. In such case, a special illumination design is drawn. Such individual complex designs are realized through the adoption of multiple control units corresponding between each other. The more difficult project is, the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



Energy savings with illumination control systems

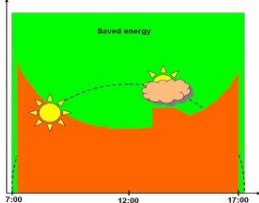


T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast



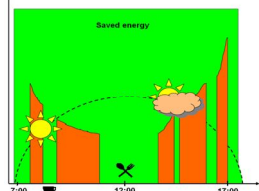
T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast

+ 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 4.5x3m, mounting height 3m.



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 luminaires. **MIMO3** is **connected** directly to the control input of electronic controllable ballast (1-10V).

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

Constant light measuring range 200-600 Lux.



Modular ballast controller offers (1-10V) ballast control together with a mains power switch. The **TK4** is **designed** to complement 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.



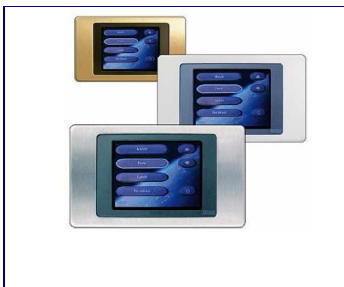
The **Multisensor** is a compact unit containing the necessary sensors to provide energy saving functions. It has a constant light sensor, passive **infrared** detector (PIR) and **infrared** receiver for the Infrared Remote. The Multisensor is designed to push fit into a ceiling or **luminaire** housing.

- DALI consumption: 15mA
- 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: 10mA



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 décor 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 500W and 1000W. 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 250mA. DIN-rail mounted.

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



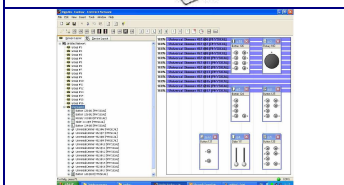
Input unit is a fully DALI compatible interface, designed to allow customer specified switches, sensors, time clocks or other on/off control devices to be incorporated into a DIGIDIM lighting control system.

- 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.

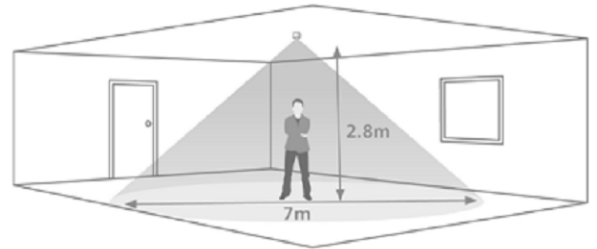


The *DESIGNER software Package* is a complete Windows® based application for designing, programming and maintaining a DALI lighting control system.

Detector PIR 311

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

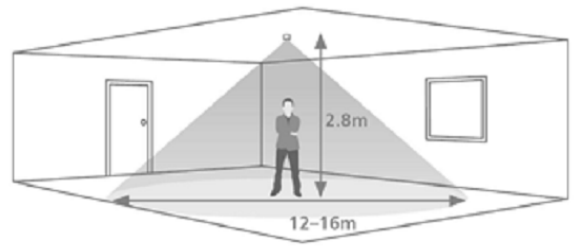
- IR Receiver receives programming commands from the 307 **infrared** handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



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.

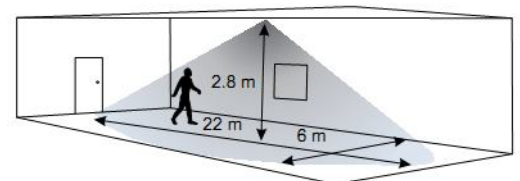
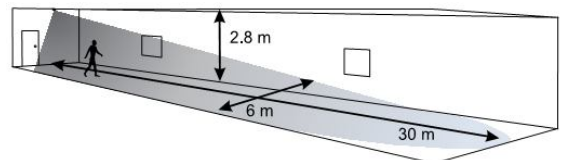
- IR Receiver receives control and programming commands from a 307 IR (infrared) handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



Detector MW 314

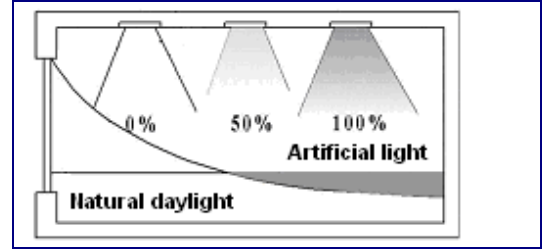
The 314 is also a microwave detector. Again, it works by emitting low-power microwave signals and measuring the reflections as the signal bounces off moving objects. However the detection field for this device is a long narrow beam for use in corridors and aisle ways. The sensor can detect movement up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

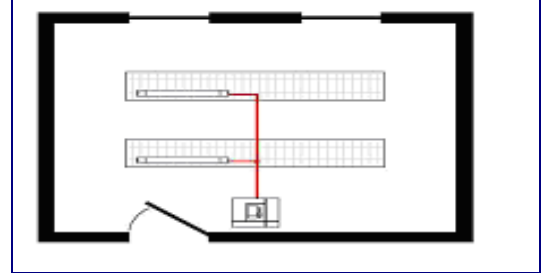


Simple solutions

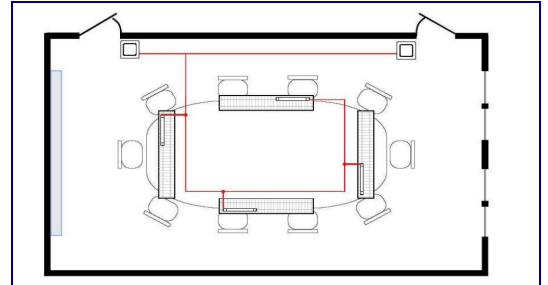
Simple classroom solution. Keeps constant light level combining daylight and artificial light. Using **Mimo3** sensor and controllable (**DIM**) ballasts, fittings could be arranged in groups or act as individual units depending on illumination requirements. Substantial savings could be achieved.



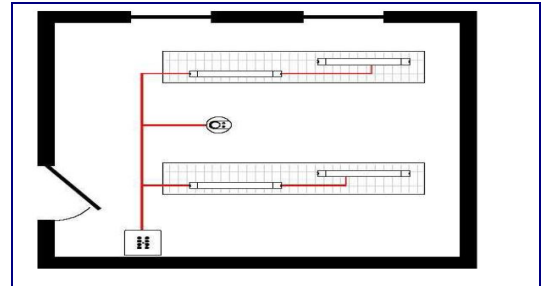
Simple office solution. Light level adjusted manually using **TK4** (switch+dim) panel and controllable (**DIM**) ballasts. Dimming of the fluorescent lamps down to 1% can be achieved using **TK4**.



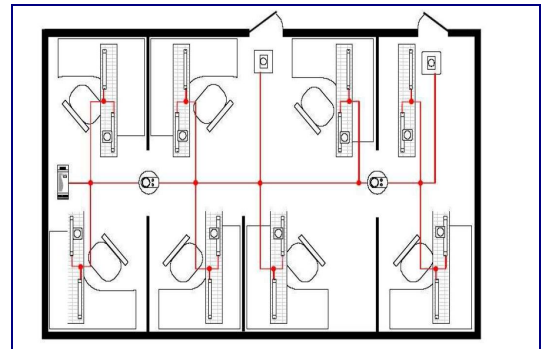
Cost effective meeting room. Luminaires fitted with controllable (**DIM**) ballasts combined with one or more **momentary switches**. Quick push of the button toggles lights on and off, and long press fades the lamps up or down. Solution allows multiple control points by simply connecting switches in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



Efficient office solution. Luminaires fitted with digitally controlled (**DALI**) ballasts, give 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. Luminaires fitted with digitally controlled (**DALI**) ballasts and **Minisensor2**, give 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.



■ **CLASSROOM**

■ **MEETING ROOM**

■ **SINGLE OFFICE**

■ **CORRIDOR HOLD**

■ **OPEN PLAN OFFICE**

■ **CORRIDOR LINK**



Select the mode

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

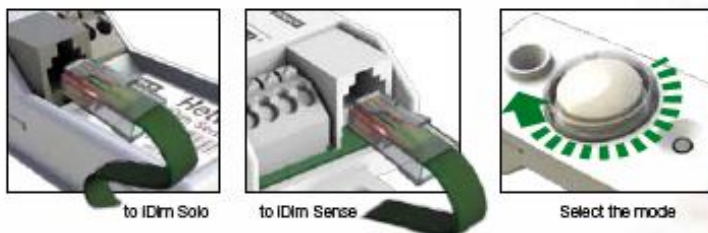
Easy intelligence in luminaires

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.

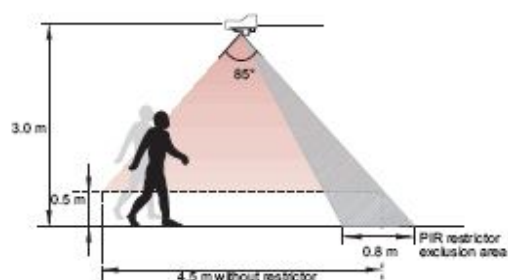
Click-and-go!

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

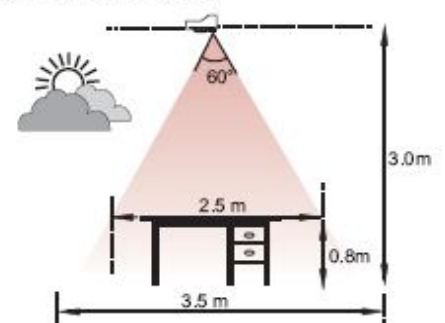
1. Click the iDim Sense into the luminaire
2. Click the iDim Sense cable into the iDim Solo unit
3. Turn the iDim Sense mode selector and choose the right application mode

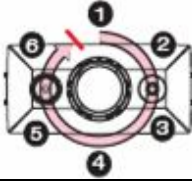








Movement Detector (PIR) Coverage



Photocell Coverage (CL)



| | |  |  |  |  |  |  |  |
|----------------|----------------------------|---|---|---|---|--|---|---|
| | | | 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) | | 0.5 min (20%) | 0.5 min (20%) | 60 min (20%) | 30 min (20%) | 0.5 min (20%) | 0.5 min (20%) |
| BRIGHT OUT | GO OFF | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | STAY OFF | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHANNELS | DALI 1 | | CL | CL | CL | FL | CL | CL |
| | DALI 2 | | Offset | Offset | Offset | - | - | 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.

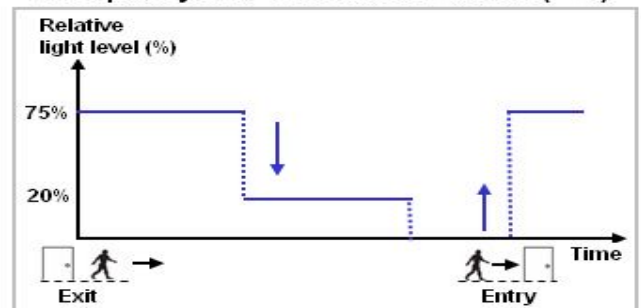
Bright Out – Go Off: If lights are on and there is enough daylight then the lights will go to min level (or off).

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

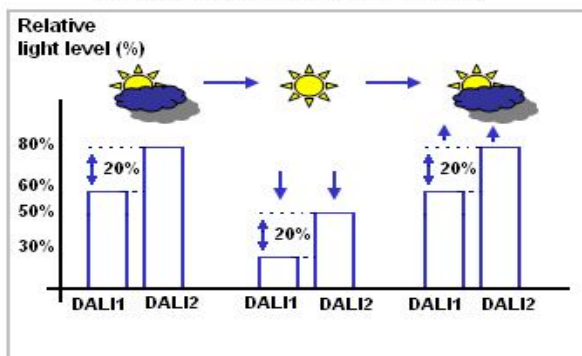
DALI 1 / DALI 2: The outputs can operate as either Constant Light (CL), Fixed Light (FL) and Offset light.

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

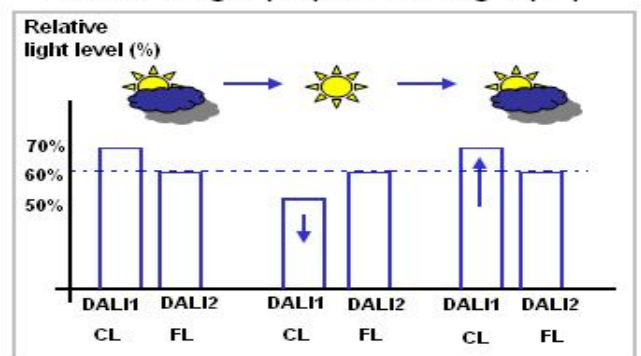
Occupancy and Transition Timeout (PIR)

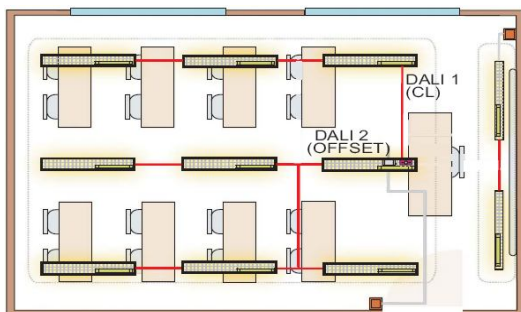


Constant Light (CL) & Offset



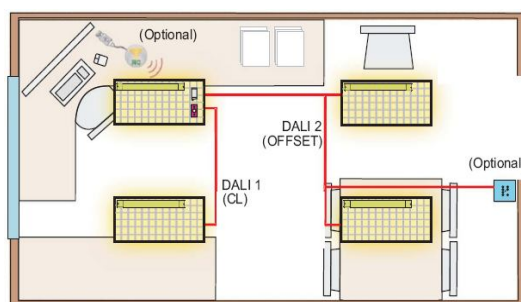
Constant Light (CL) & Fixed Light (FL)





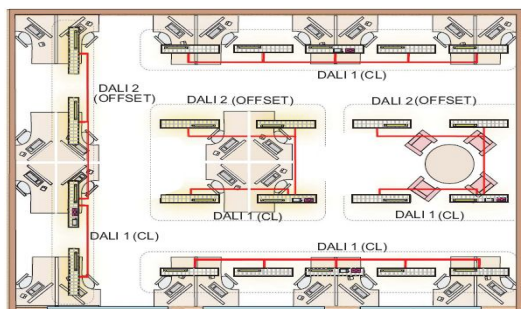
Classroom

Optimal lighting and maximum energy saving are automatically 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.



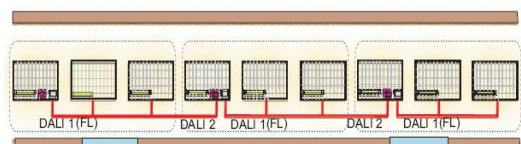
Single office

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.



Open plan office

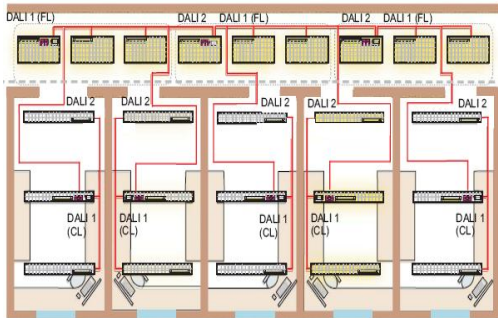
This mode keeps the lights on only when and where needed. It is an energy and cost efficient application creating a safe and convenient working environment for everyone at the same time. All advanced features are available for custom fine tuning.



Corridor link

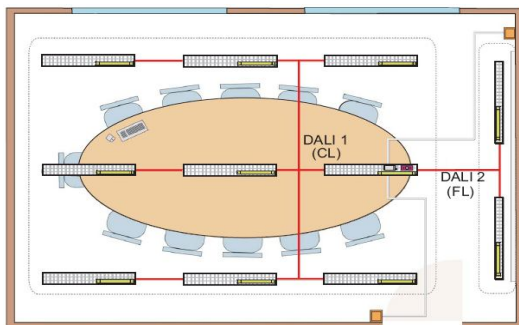
Wherever occupancy is detected, the whole corridor lights up at once. Multiple sections / sensors can be interlinked together creating a powerful solution that can light up a corridor of every length.





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 only when needed. You can switch the lights on and off manually or let the system take care of switching off. The constant light feature adjusts right lighting and scene control is possible with 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
- 3m 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: 64mA (DALI 1), 32mA (DALI 2) or 96mA when operating in parallel
- 2xDALI outputs
- 2xSwitch 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 1-10V constant light flux control

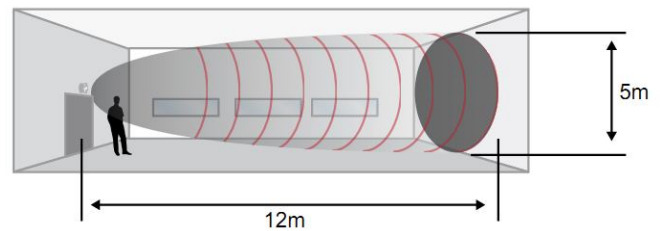
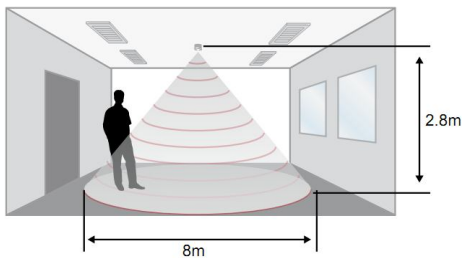
Max load capacity - 2 A

Dimmed Output - 4 x 1-10V ballasts

iMWDALI- Presence detection with DALI constant light flux control

Max load capacity Relay Output - 2 A

Dimmed Output - 4 x DALI ballasts



PIR presence detection: The unit detects presents 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

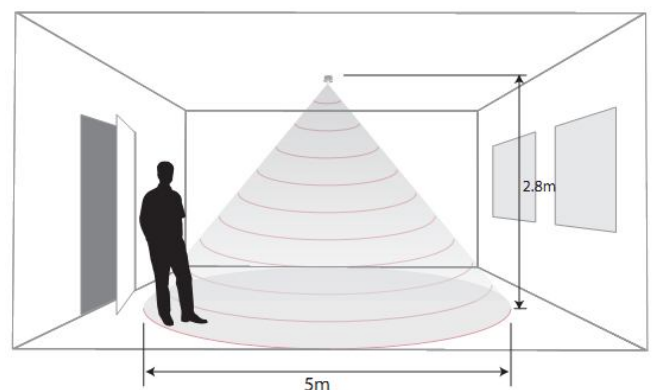
iPIRDIM- Presence detection with 1-10V constant light flux control

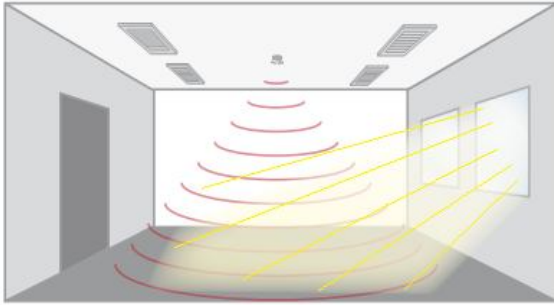
Max load capacity - 2 A

Dimmed Output - 4 x 1-10V ballasts

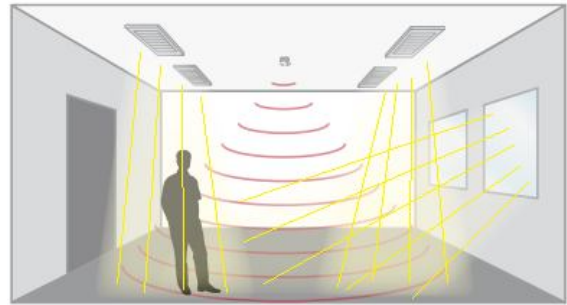
Key Features

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

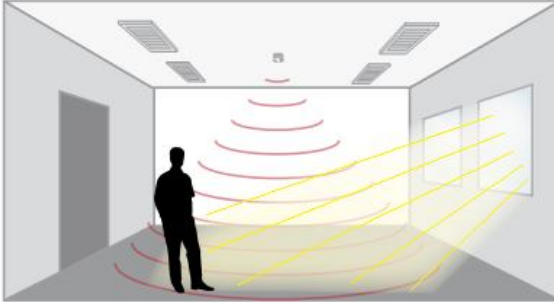




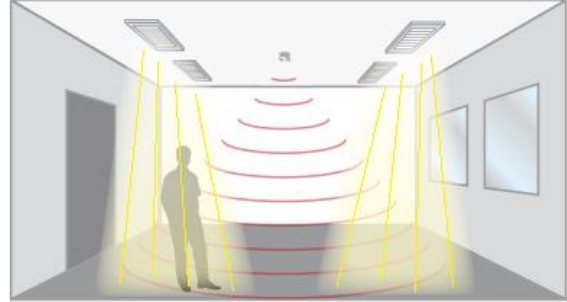
No presence detected, daylight, lights are OFF



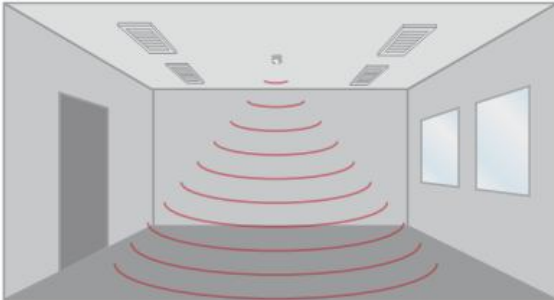
Presence detected some daylight. Lights are ON and dimmed to maintain lux level



Presence detected, sufficient daylight, lights are OFF



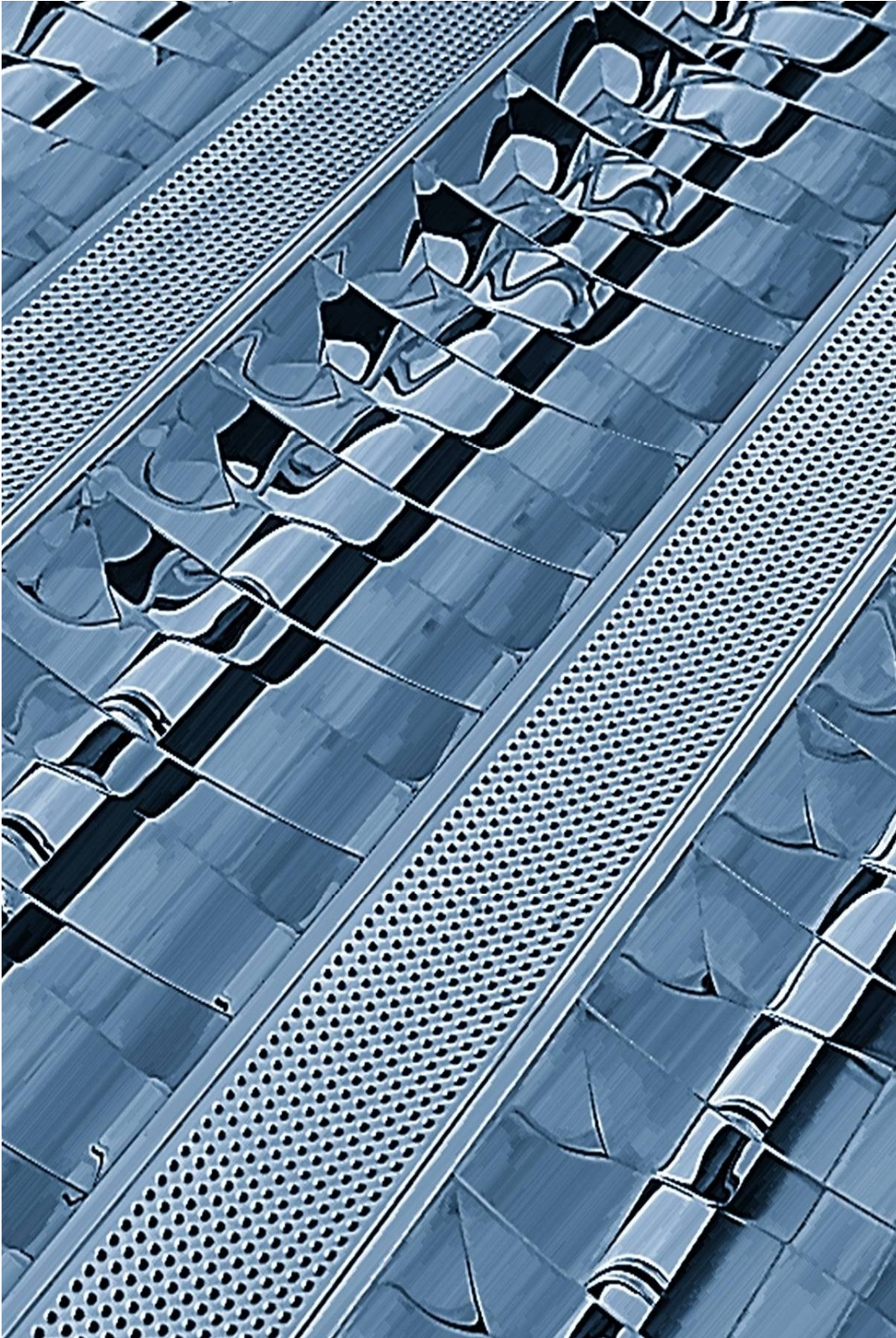
Presence detected, insufficient daylight. Detector measures and implements maintained illuminance



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.





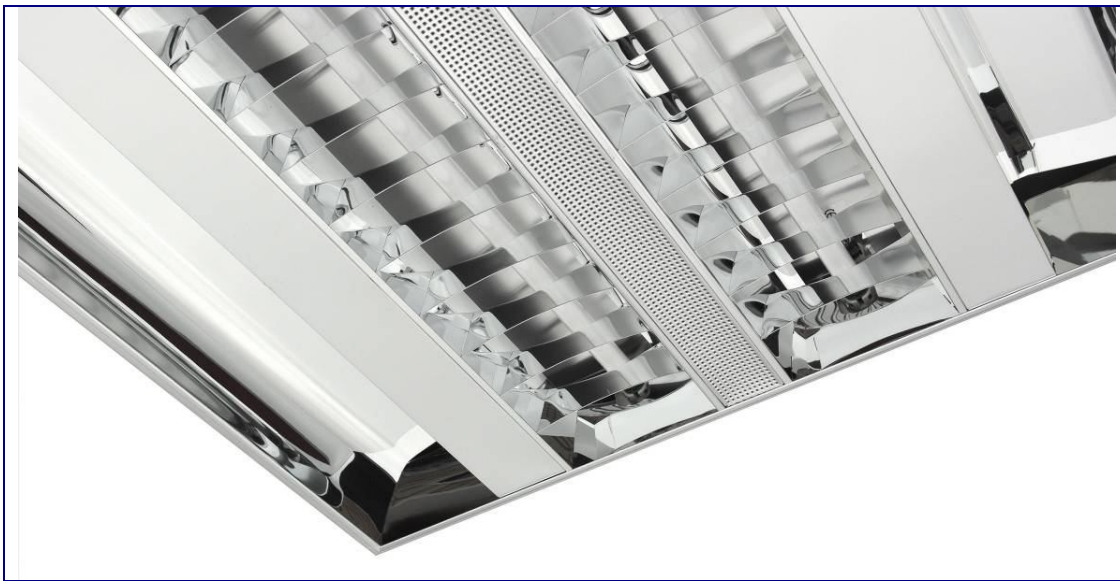
NORTHCLIFFE
MAKING LIFE BRIGHTER

RECESSED

www.northcliffe.org

SIRIUS

T5 Direct-Indirect Recessed Luminaire



| | |
|-----------------------|--|
| Type: | Unique direct-indirect recessed T5 luminaire that incorporates the latest technology of Class A High Frequency Helvar 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 66 mm. |
| Specification: | A combination of two aluminum curved reflectors for indirect light projection and a double parabolic specular aluminum louver, for direct light projection, with specular inserts to give better light distribution. The louver is fitted into the body with four spring locks for maximum stability. Deluxe version louvres are manufactured using Alanod MIRO aluminum with 95% reflectiveness. Fully enclosed white steel body. Deluxe version made completely of specular aluminum. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings and/or plasterboard ceilings. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |



SB - Support brackets (4 pcs) for installation into a plasterboard ceiling. Available on request

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| Sirius 224 B37 | 2x24 (G5) | 595x595x66 | 1,8 | 49 |
| Sirius 414 A03 | 4x14 (G5) | 595x595x66 | 1,8 | 62 |
| Sirius 424 D59 | 4x24 (G5) | 595x595x66 | 2,1 | 98 |
| Sirius 224 B37 Deluxe | 2x24 (G5) | 595x595x66 | 1,8 | 49 |
| Sirius 414 A03 Deluxe | 4x14 (G5) | 595x595x66 | 1,8 | 62 |
| Sirius 424 D59 Deluxe | 4x24 (G5) | 595x595x66 | 2,1 | 98 |

Options available on request:

DIM- Dimmable ballasts

SWITCHDIM- Switch DIM ballast

DALI- DALI ballasts

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

MRO- Reflector Deluxe

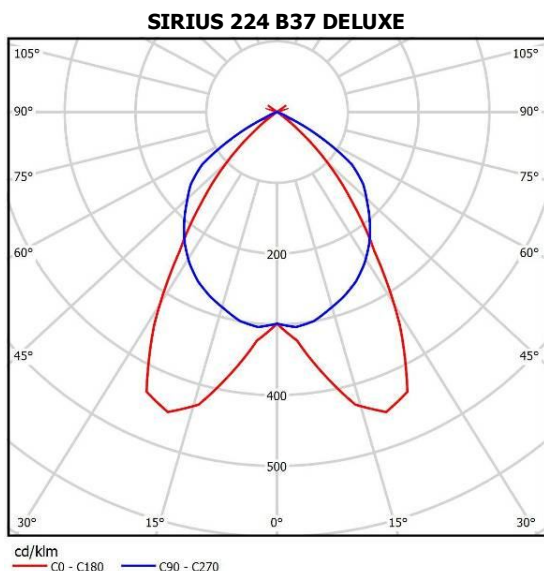
PMT- Matted perforated inserts (subject to minimum order)

MTO- Matted reflector Deluxe (subject to minimum order)

SMS- Glossy aluminum body

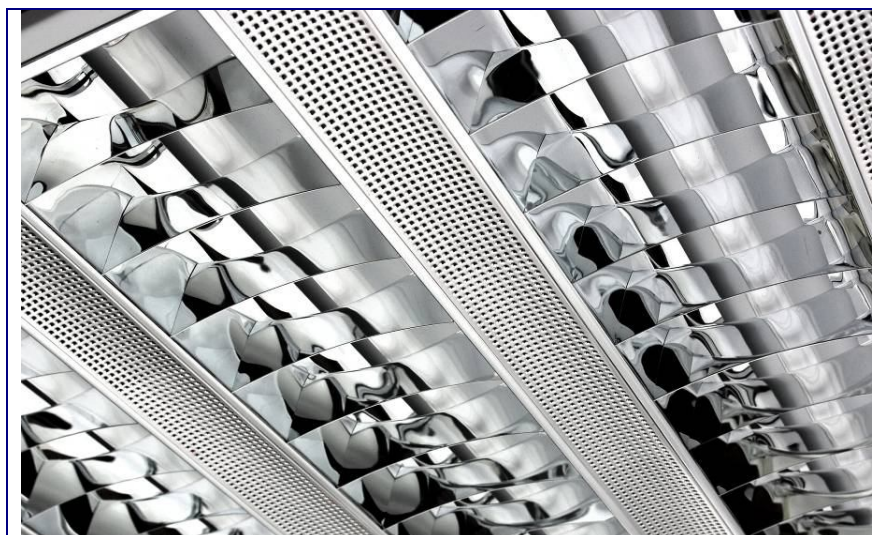
WIE- 3- poles connector (subject to minimum order)

W625- Designed for the German market to fit 625x625 suspended ceiling



POLARIS

T5 Recessed Luminaire with Perforated Inserts



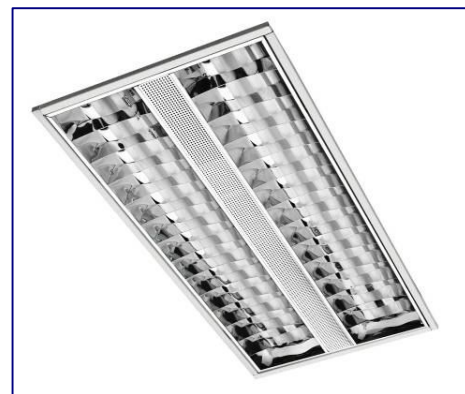
Polaris 128 I10



Polaris 228 F04



Polaris 214 B12



Polaris 414 F45

| | |
|-----------------------|--|
| Type: | Innovative recessed T5 luminaire that incorporates the latest technology of Class A High Frequency Helvar 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® aluminum with 95% reflectiveness. Fully enclosed white steel body. Deluxe version made completely of matted aluminum. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings and/or plasterboard ceilings. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | 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 (Germany market) could be designed. More information see in option list.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Polaris 214 B12 | 2x14 (G5) | 295x 595x57 | 1,1 | 31 |
| Polaris 224 D70 | 2x24 (G5) | 295x 595x57 | 1,1 | 49 |
| Polaris 414 F45 | 4x14 (G5) | 295x 595x57 | 1,2 | 62 |
| Polaris 424 F46 | 4x24 (G5) | 295x 595x57 | 1,2 | 98 |
| Polaris 414 A01 | 4x14 (G5) | 595x595x57 | 1,8 | 62 |
| Polaris 424 D06 | 4x24 (G5) | 595x595x57 | 1,8 | 98 |
| Polaris 128 I10 | 1x28 (G5) | 143x 1195x57 | 1,1 | 30,5 |
| Polaris 228 I11 | 2x28 (G5) | 143x 1195x57 | 1,2 | 60 |
| Polaris 154 I12 | 1x54 (G5) | 143x 1195x57 | 1,1 | 58 |
| Polaris 254 I13 | 2x54 (G5) | 143x 1195x57 | 1,2 | 116 |
| Polaris 228 F04 | 2x28 (G5) | 295x 1195x57 | 3,4 | 60 |
| Polaris 254 F05 | 2x54 (G5) | 295x 1195x57 | 3,4 | 114,5 |
| Polaris 428 F06 | 4x28 (G5) | 595x 1195x57 | 6,7 | 120 |
| Polaris 454 F07 | 4x54 (G5) | 595x 1195x57 | 6,7 | 229 |
| Polaris 214 B12 Deluxe | 2x14 (G5) | 295x 595x57 | 1,1 | 31 |
| Polaris 224 D70 Deluxe | 2x24 (G5) | 295x 595x57 | 1,1 | 49 |
| Polaris 414 A01 Deluxe | 4x14 (G5) | 595x 595x57 | 1,8 | 62 |
| Polaris 424 D06 Deluxe | 4x24 (G5) | 595x 595x57 | 1,8 | 98 |



Deluxe version manufactured from MIRO® aluminum louvre and matted aluminum body



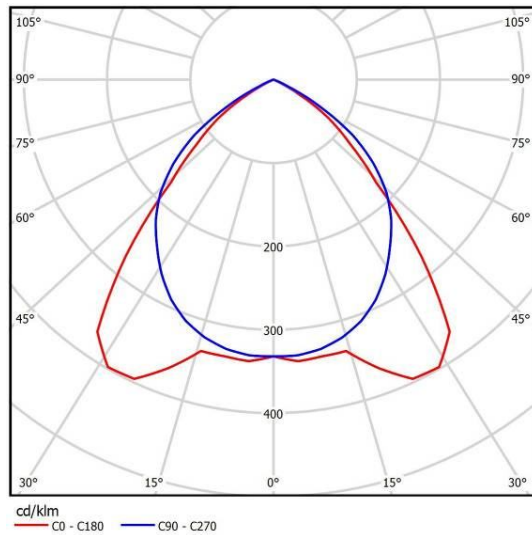
Standard version manufactured from glossy aluminum louvre and white steel body

Options available on request:

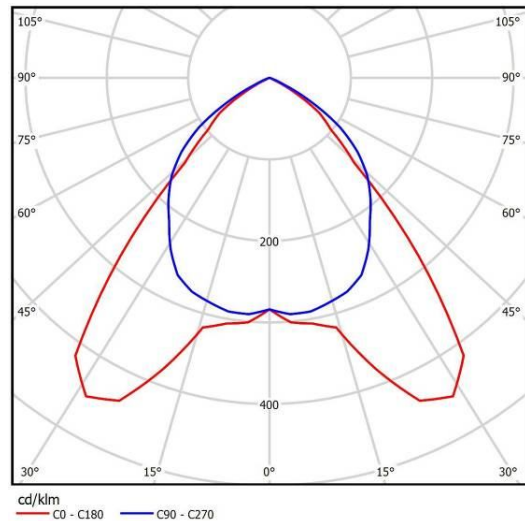
- DIM- Dimmable ballasts
- SWITCHDIM- Switch DIM ballast
- DALI- DALI ballasts
- EMG- Emergency version 1 hour
- EM2- Emergency version 2 hours
- EM3- Emergency version 3 hours
- 4TB- 4 way terminal block for loop feed and ease of wiring
- 5TB- 5 way terminal block with two holes (for in and out going cable)
- Deluxe- MIRO® aluminum louvre and matted aluminum body

- MAT- Matted reflector (subject to minimum order)
- MTO- Matted reflector Deluxe (subject to minimum order)
- MRO- Reflector Deluxe
- WHT- White perforated inserts
- W625- Designed for the German market to fit 625x625 suspended ceiling
- WIE- 3- poles connector
- SB- Supports brackets (4 pcs)

POLARIS 414 A01

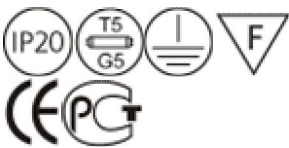


POLARIS 214 B12 DELUXE



POLARIS

T5 Recessed Luminaire with White Inserts



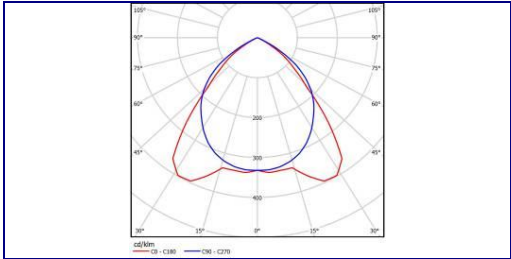
| | |
|----------------|--|
| Type: | Innovative recessed T5 luminaire that incorporates the latest technology of Class A High Frequency Helvar Control gear, giving maximum efficiency, energy saving and quality of light. |
| Specification: | Double parabolic louvre, with white inserts to give better 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 packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings and/or plasterboard ceilings. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Polaris 314 E61 | 3x14 (G5) | 598x598x60 | 1,8 | 47 |
| Polaris 324 E62 | 3x24 (G5) | 598x598x60 | 1,8 | 74 |
| Polaris 414 F02 | 4x14 (G5) | 598x598x60 | 1,8 | 62 |
| Polaris 424 F03 | 4x24 (G5) | 598x598x60 | 1,8 | 98 |

2x14/2x28/2x54/4x28W versions are available on Request

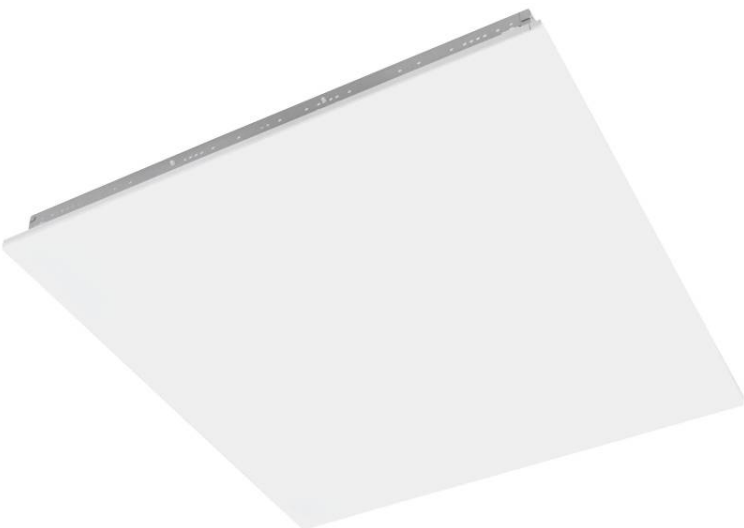
| | | |
|-------------------------------|---------------------------|--|
| Options available on request: | | |
| DIM- | Dimmable ballasts | 4TB- 4 way terminal block for loop feed and ease of wiring |
| SWITCHDIM- | Switch DIM ballast | 5TB- 5 way terminal block with two holes (for in and out going cable) |
| DALI- | DALI ballasts | Deluxe- MIRO® aluminum louvre and matted aluminum body |
| EMG- | Emergency version 1 hour | MAT- Matted reflector (subject to minimum order) |
| EM2- | Emergency version 2 hours | WIE- 3- poles connector Wieland or similar connectors (subject to minimum order) |
| EM3- | Emergency version 3 hours | W625- Designed specifically for the German market to fit 625x625 suspended ceiling (subject to min. order) |

Polaris 314 E61



LEVANTO & MARENCO LED

Recessed Luminaire with Opal or Pizmatic Diffuser



Marenco R LED B202 4x950lm T840

| | |
|----------------|---|
| Type: | Traditional recessed LED luminaire with opal diffuser for most applications. Premium quality at competitive prices. |
| Specification: | UV stable opal or prismatic diffuser. Fully enclosed white steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |



Fitting made with "Wieland" type socket for quick connection. "Push in" type connector for 2 cables 3x2,5mm2 supplied with a fitting. So total installation time can be reduced to a few minutes.

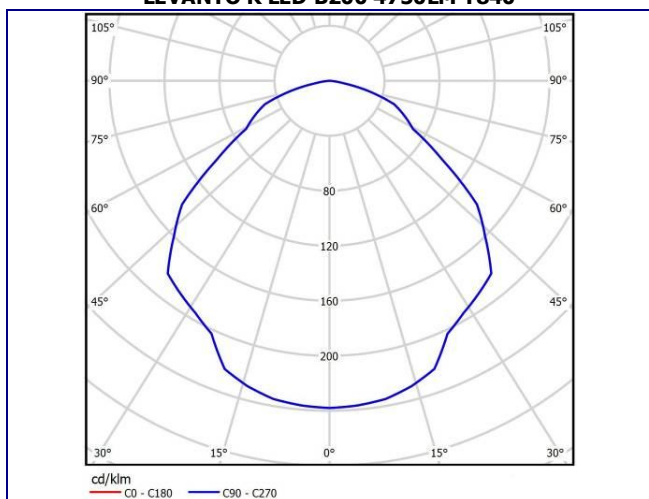
| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Levanto R LED B209 2x950lm T840 | 295x595x57 | 1900 | 4000 | >80 | 21 | 2 |
| Levanto R LED B209 2x1000lm T857 | 295x595x57 | 2000 | 5700 | >80 | 21 | 2 |
| Levanto R LED B198 3x950lm T840 | 595x595x57 | 2850 | 4000 | >80 | 31 | 3 |
| Levanto R LED B198 3x1000lm T857 | 595x595x57 | 3000 | 5700 | >80 | 31 | 3 |
| Levanto R LED B199 4x950lm T840 | 595x595x57 | 3800 | 4000 | >80 | 41 | 3 |
| Levanto R LED B199 4x1000lm T857 | 595x595x57 | 4000 | 5700 | >80 | 41 | 3 |
| Levanto R LED B200 4750lm T840 | 595x595x57 | 4750 | 4000 | >80 | 51 | 3 |
| Levanto R LED B200 5000lm T857 | 595x595x57 | 5000 | 5700 | >80 | 51 | 3 |
| Levanto R LED B210 2x2140lm T840 | 295x1195x57 | 4280 | 4000 | >80 | 46 | 3,2 |
| Levanto R LED B210 2x2250lm T857 | 295x1195x57 | 4500 | 5700 | >80 | 46 | 3,2 |
| Levanto R LED B211 3x2140lm T840 | 595x1195x57 | 6420 | 4000 | >80 | 69 | 5,8 |
| Levanto R LED B211 3x2250lm T857 | 595x1195x57 | 6750 | 5700 | >80 | 69 | 5,8 |
| Levanto R LED B212 4x2140lm T840 | 595x1195x57 | 8560 | 4000 | >80 | 91 | 5,8 |
| Levanto R LED B212 4x2250lm T857 | 595x1195x57 | 9000 | 5700 | >80 | 91 | 5,8 |

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Marenco R LED B213 2x950lm T840 | 295x595x57 | 1900 | 4000 | >80 | 21 | 2 |
| Marenco R LED B213 2x1000lm T857 | 295x595x57 | 2000 | 5700 | >80 | 21 | 2 |
| Marenco R LED B201 3x950lm T840 | 595x595x57 | 2850 | 4000 | >80 | 31 | 3 |
| Marenco R LED B201 3x1000lm T857 | 595x595x57 | 3000 | 5700 | >80 | 31 | 3 |
| Marenco R LED B202 4x950lm T840 | 595x595x57 | 3800 | 4000 | >80 | 41 | 3 |
| Marenco R LED B202 4x1000lm T857 | 595x595x57 | 4000 | 5700 | >80 | 41 | 3 |
| Marenco R LED B203 4750lm T840 | 595x595x57 | 4750 | 4000 | >80 | 51 | 3 |
| Marenco R LED B203 5000lm T857 | 595x595x57 | 5000 | 5700 | >80 | 51 | 3 |
| Marenco R LED B214 2x2140lm T840 | 295x1195x57 | 4280 | 4000 | >80 | 46 | 3,2 |
| Marenco R LED B214 2x2250lm T857 | 295x1195x57 | 4500 | 5700 | >80 | 46 | 3,2 |
| Marenco R LED B215 3x2140lm T840 | 595x1195x57 | 6420 | 4000 | >80 | 69 | 5,8 |
| Marenco R LED B215 3x2250lm T857 | 595x1195x57 | 6750 | 5700 | >80 | 69 | 5,8 |
| Marenco R LED B215 4x2140lm T840 | 595x1195x57 | 8560 | 4000 | >80 | 91 | 5,8 |
| Marenco R LED B215 4x2250lm T857 | 595x1195x57 | 9000 | 5700 | >80 | 91 | 5,8 |

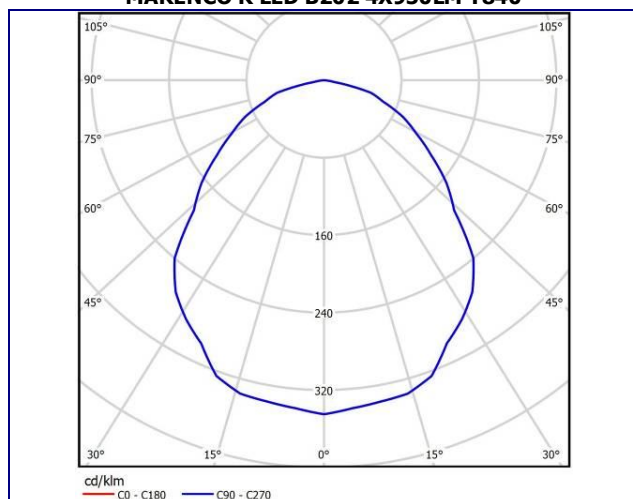
Options available on request:

STB- 5 way terminal block for loop feed and ease of wiring

LEVANTO R LED B200 4750LM T840



MARENCO R LED B202 4X950LM T840



**BREEZE T5
ECO**

**T5 Recessed
Luminaire**



Breeze 414 F41



Breeze 414 F41 9CR

| | |
|-----------------------|---|
| Type: | Recessed T5 luminaire with a choice of louvres for most applications. A very competitively priced luminaire that achieves over 45 lumens/circuit –watt, required by Buildings Regs Part L2A. |
| 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 packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |



To fit plasterboard and/or 625x625mm suspended ceiling (Germany market) could be designed. For more information, see Option list.
SB – Support brackets (4 pcs) for installation into a plasterboard ceiling. Available on request.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Breeze 214 I25 | 2x14 (G5) | 295x595x85 | 2,2 | 31 |
| Breeze 224 I26 | 2x24 (G5) | 295x595x85 | 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) | 295x1195x85 | 3,2 | 60 |
| Breeze 254 I28 | 2x54 (G5) | 295x1195x85 | 3,2 | 115 |
| Breeze 328 K30 | 3x28 (G5) | 595x1195x85 | 5,7 | 90 |
| Breeze 354 K31 | 3x54 (G5) | 595x1195x85 | 5,7 | 172,5 |
| Breeze 428 I29 | 4x28 (G5) | 595x1195x85 | 5,7 | 120 |
| Breeze 454 I30 | 4x54 (G5) | 595x1195x85 | 5,7 | 230 |

Options available on request:

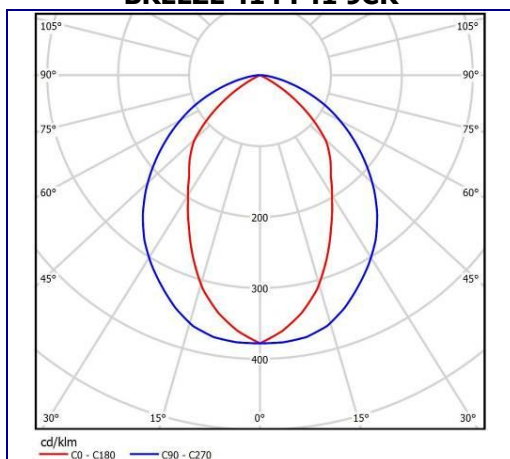
DIM- Dimmable ballasts
SWITCHDIM- Switch DIM ballast

DALI- DALI ballasts
EMG- Emergency version 1 hour
EM2- Emergency version 2 hours
EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring
5TB- 5 way terminal block for loop feed and ease of wiring

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 W)
W625- Designed specifically for the German market to fit 625x625 suspended ceiling

BREEZE 414 F41 9CR



JETTA

Recessed Indirect Luminaire



Type: Recessed Indirect luminaire for CFL and T5 lamps suitable for installation into standard modular ceilings. Modern design with lamps hidden under a perforated diffuser. The light is reflected across the two parabolic reflectors to allow a comfortable and glare-free lighting effect.

Specification: A 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 packaged in twin boxes.

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

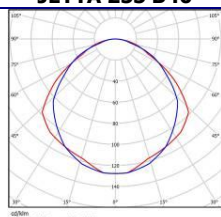
Application: Office buildings, shops and other commercial environments.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Jetta 236 C49 | 2x36 (2G11) | 596x596x100 | 4 | 84 |
| Jetta 240 B44 | 2x40 (2G11) | 596x596x100 | 4 | 84 |
| Jetta 255 B40 | 2x55 (2G11) | 596x596x100 | 4 | 121 |

Options available on request:

| | | | |
|------------|-----------------------------|-------|--|
| HF- | High Frequency control gear | EM3- | Emergency version 3 hours |
| DIM- | Dimmable ballasts | 4TB- | 4 way terminal block for loop feed and ease of wiring |
| SWITCHDIM- | Switch DIM ballast | 5TB- | 5 way terminal block for loop feed and ease of wiring |
| DALI- | DALI ballasts | WIE- | 3- poles connector Wieland or similar connectors (subject to minimum order) |
| EMG- | Emergency version 1 hour | W625- | Designed specifically for the German market to fit 625x625 suspended ceiling (subject to min. order) |
| EM2- | Emergency version 2 hours | | |

JETTA 255 B40



JETTA

Recessed Indirect Luminaire



- Type:

Recessed Indirect luminaire for CFL lamps with two perforated reflectors on the sides to allow a small amount of light to pass through. The rest of light is reflected from the main parabolic reflector for comfortable and glare-free lighting effect .
- Specification:

Two white painted perforated diffusers with UV stable opal film, placed in sides, to give soft light distribution. Parabolic reflector.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packaged in twin boxes.
- Installation:

Fits 15-24mm exposed T-Bar ceilings.
- Application:

Office buildings, shops and other commercial environments.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Jetta 236 C48 | 2x36 (2G11) | 596x596x100 | 4 | 84 |
| Jetta 240 C50 | 2x40 (2G11) | 596x596x100 | 4 | 87 |
| Jetta 255 C51 | 2x55 (2G11) | 596x596x100 | 4 | 121 |

- Options available on request:
- HF- High Frequency control gear

EM3- Emergency version 3 hours
- DIM- Dimmable ballasts

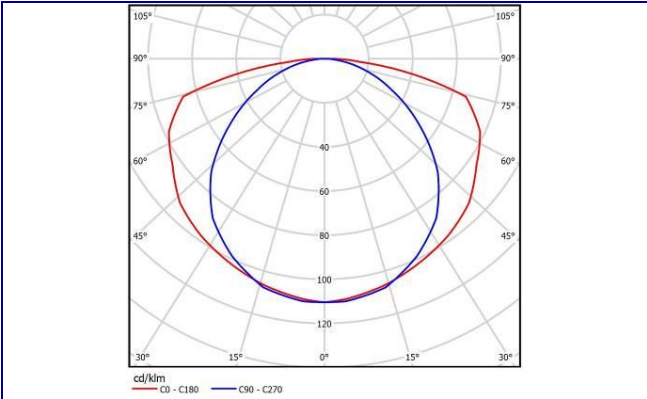
4TB- 4 way terminal block for loop feed and ease of wiring
- SWITCHDIM- Switch DIM ballast

5TB- 5 way terminal block for loop feed and ease of wiring
- DALI- DALI ballasts

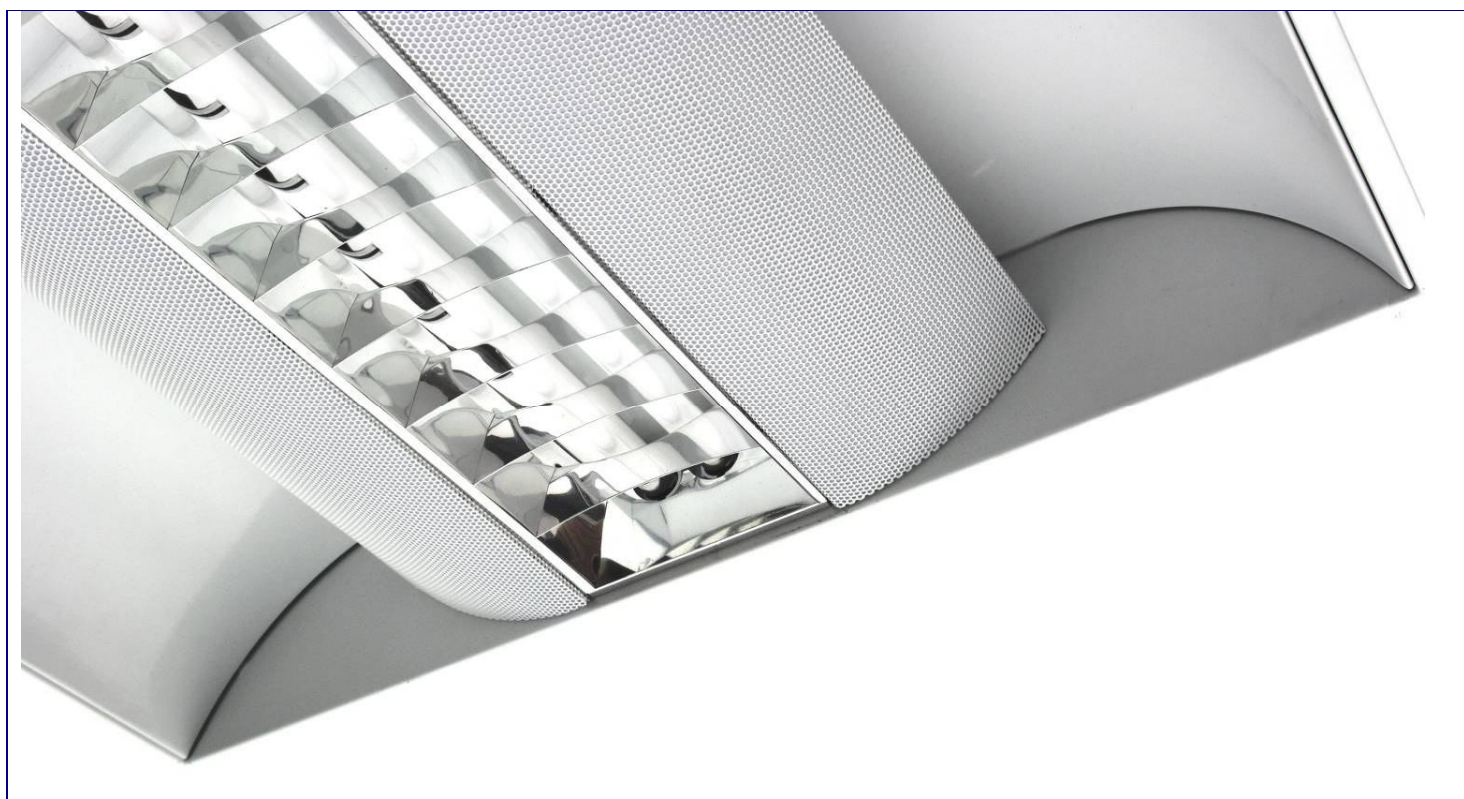
WIE- 3- poles connector Wieland or similar connectors
- EMG- Emergency version 1 hour

W625- Designed specifically for the German market to fit 625x625 suspended ceiling (subject to min. order)
- EM2- Emergency version 2 hours

JETTA 255 B51



JETTA Recessed Luminaire with Central Louvre



| | |
|-----------------------|---|
| Type: | Recessed luminaire with direct/indirect lighting possibilities for CFL and T5 lamps. |
| Specification: | A white painted perforated diffuser with UV stable opal film to give soft light distribution and mirror louver for direct lighting applications. Two parabolic reflectors. Fully enclosed white steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Jetta 414 D62 | 4x14 (G5) | 596x596x100 | 5,1 | 62 |
| Jetta 424 G45 | 4x24 (G5) | 596x596x100 | 5,2 | 98 |
| Jetta 255 O26 | 2x55 (2G11) | 596x596x100 | 4 | 121 |
| Jetta 214214 G46* | 2x14(G5)+2x14(G5) | 596x596x100 | 5,3 | 62 |
| Jetta 214224 G47* | 2x14(G5)+2x24(G5) | 596x596x100 | 5,3 | 80 |
| Jetta 224224 G48* | 2x24(G5)+2x24(G5) | 596x596x100 | 5,3 | 98 |
| Jetta 214240 G49* | 2x14(G5)+2x40(2G11) | 596x596x100 | 5,3 | 118 |
| Jetta 224240 G50* | 2x24(G5)+2x40(2G11) | 596x596x100 | 5,3 | 136 |
| Jetta 214255 G51* | 2x14(G5)+2x55(2G11) | 596x596x100 | 5,3 | 144 |
| Jetta 314 H54 | 3x14 (G5) | 596x596x100 | 5,1 | 46 |
| Jetta 324 H91 | 3x24 (G5) | 596x596x100 | 5,2 | 73 |
| Jetta 114214 H55* | 1x14(G5)+2x14(G5) | 596x596x100 | 5,3 | 46 |
| Jetta 114224 H56* | 1x14(G5)+2x24(G5) | 596x596x100 | 5,3 | 61 |
| Jetta 124224 H57* | 1x24(G5)+2x24(G5) | 596x596x100 | 5,3 | 74 |
| Jetta 114240 H58* | 1x14(G5)+2x40(2G11) | 596x596x100 | 5,3 | 102 |
| Jetta 124240 H59* | 1x24(G5)+2x40(2G11) | 596x596x100 | 5,3 | 112 |
| Jetta 114255 H60* | 1x14(G5)+2x55(2G11) | 596x596x100 | 5,3 | 129 |

***- lighting fixture supplied with two electronic ballasts to play three different scenes (direct light, indirect light or both direct and indirect light). The two-phase switcher is needed.**

Options available on request:

DIM- Dimmable ballasts

SWITCHDIM- Switch DIM ballast

DALI- DALI ballasts

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

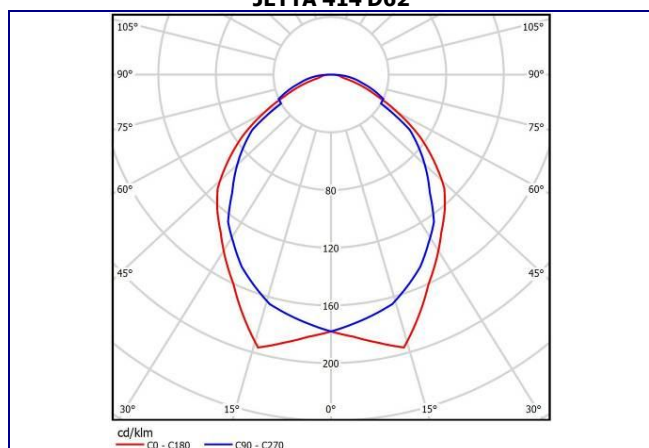
5TB- 5 way terminal block for loop feed and ease of wiring

WIE- 3- poles connector Wieland or similar connectors

W625- Designed specifically for the German market to fit 625x625 suspended ceiling (subject to min. order)

SB- Support brackets (4 pcs) for installation into a plasterboard ceiling

JETTA 414 D62



BALI

T5 Recessed Frame-free Luminaire with Opal Diffuser



Type: Frame free recessed T5\CFL luminaire for installation into plasterboard ceilings.

Specification: UV stable opal diffuser mounted into frame free body.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packaged in twin boxes.

Installation: Fits to plasterboard ceiling.

Application: Office buildings, shops and other commercial environments.

| Type | Lamp (W) and socket | Overall dimensions, 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) | 90x 580x80 | 1,8 | 16 |
| Bali 124 M08 | 1x24 (G5) | 90x 580x80 | 1,8 | 25 |
| Bali 121 M09 | 1x21 (G5) | 90x 880x80 | 2,1 | 23 |
| Bali 128 M10 | 1x28 (G5) | 90x 1180x80 | 2,4 | 30,5 |
| Bali 135 M11 | 1x35 (G5) | 90x 1480x80 | 2,8 | 38 |
| Bali 139 M12 | 1x39 (G5) | 90x 880x80 | 2,4 | 42 |
| Bali 149 M13 | 1x49 (G5) | 90x 1480x80 | 2,8 | 53 |
| Bali 154 M14 | 1x54 (G5) | 90x 1180x80 | 2,4 | 58 |
| Bali 180 M15 | 1x80 (G5) | 90x 1480x80 | 2,8 | 85 |
| Bali 314 M16 | 3x14 (G5) | 300x 580x80 | 3,8 | 47 |
| Bali 324 M17 | 3x24 (G5) | 300x 580x80 | 3,9 | 74 |
| Bali 414 M18 | 4x14 (G5) | 300x 580x80 | 3,8 | 62 |
| Bali 424 M19 | 4x24 (G5) | 300x 580x80 | 3,9 | 98 |

Options available on request:

DIM- Dimmable ballasts
SWITCHDIM- Switch DIM ballast

DALI- DALI ballasts
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

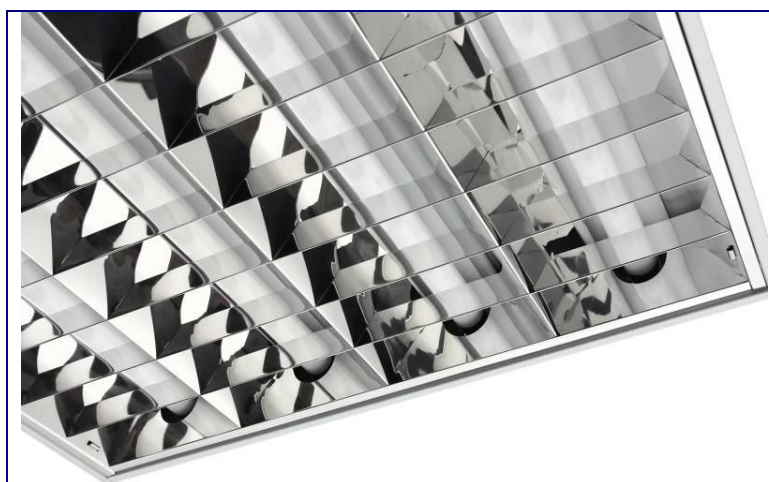
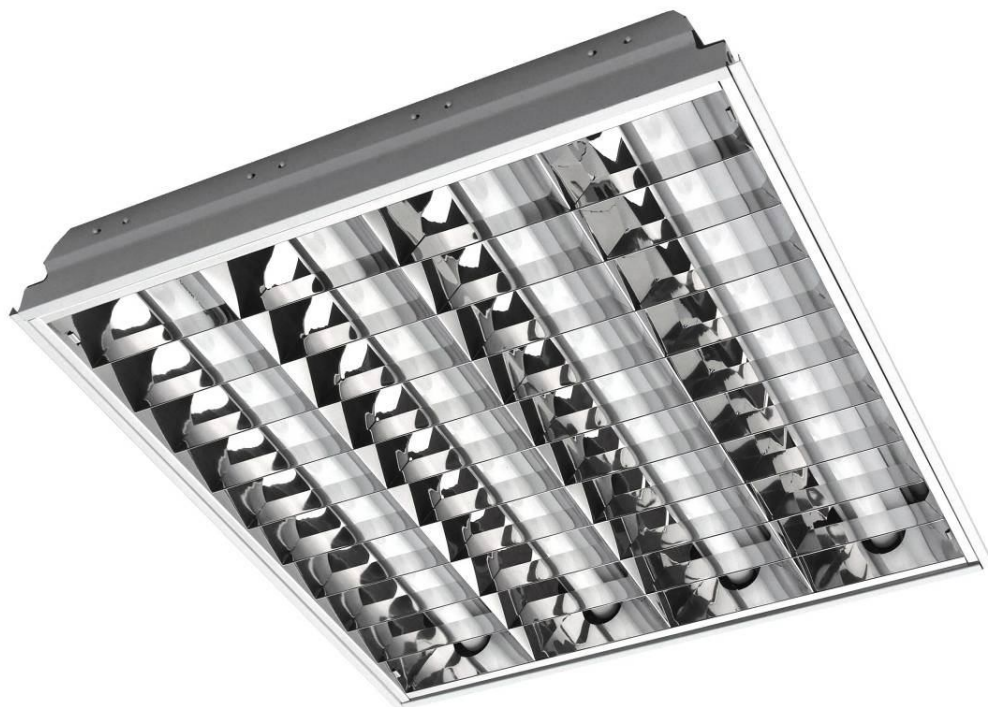
4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block for loop feed and ease of wiring

WIE- 3- poles connector Wieland or similar connectors (subject to minimum order)

BREEZE

T8 Recessed Luminaire with Specular Parabolic Louvre and Mirror Cross Blades



Breeze 418 A04



Breeze 236 B35



Breeze 436 C45



Breeze 418 A04 11CR

| | |
|-----------------------|--|
| Type: | A versatile recessed T5/T8 luminaire with a choice of glossy cross blades for most applications. Premium quality at competitive prices |
| Specification: | <p>A glossy parabolic reflector with glossy 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.</p> <p>Number of cross blades is optional from 5 up to 11 for better glare protection.</p> <p>Fully enclosed painted steel body, wiring is concealed and not visible from ground level.</p> <p>Luminaire is plastic-wrapped and packaged in twin boxes.</p> |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |



To fit 625x625mm recessed ceiling (Germany market) could be designed.
For more information, see Option list.

| Type | Lamp (W) and socket | Overall dimensions, 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 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

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 (2/4x36W)

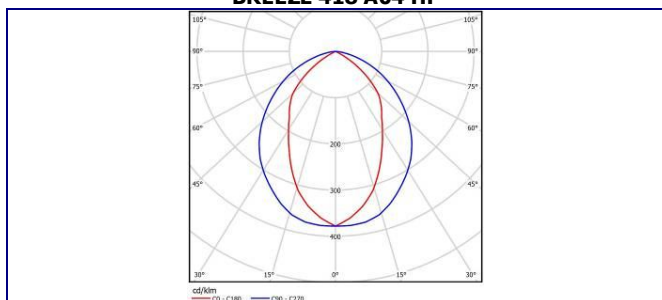
WIE- 3- poles connector (subject to minimum order)

NCP- Low Power Factor

W625- Designed for the German market to fit 625x625 suspended ceiling

QCK- Quick connection version, includes tubes.

BREEZE 418 A04 HF



BREEZE DPAR

T5 & T8 Recessed Luminaire with Double Parabolic Louvre



Breeze 414 M70

| | |
|-----------------------|---|
| Type: | A recessed T8 luminaire with a Double Parabolic louvre. |
| Specification: | A glossy double parabolic reflector with glossy cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, 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

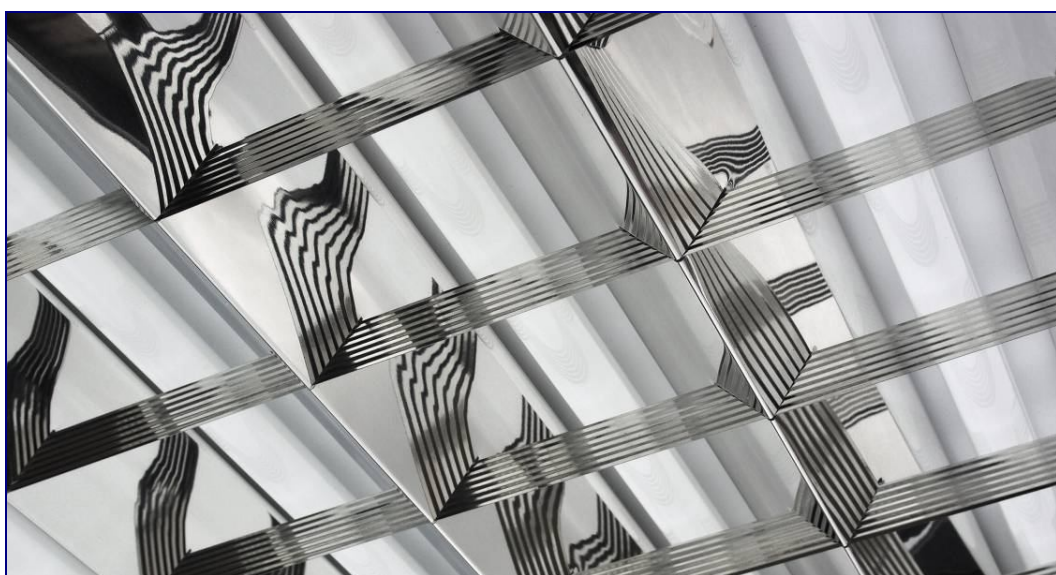
Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballasts
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 MAT- Matted reflector (subject to minimum order)
 WIE- 3- poles connector (subject to minimum order)
 NCP- Low Power Factor
 W625- Designed for the German market to fit 625x625 suspended ceiling
 QCK- Quick connection version, includes tubes.

BREEZE RIB

**T8 Recessed
Luminaire
with Glossy
Parabolic
Louvre and
Ribbed Cross
Blades**



Breeze 418 A04 RIB



Breeze 418 A04 RIB 9CR



Breeze 418 A04 RIB 11CR

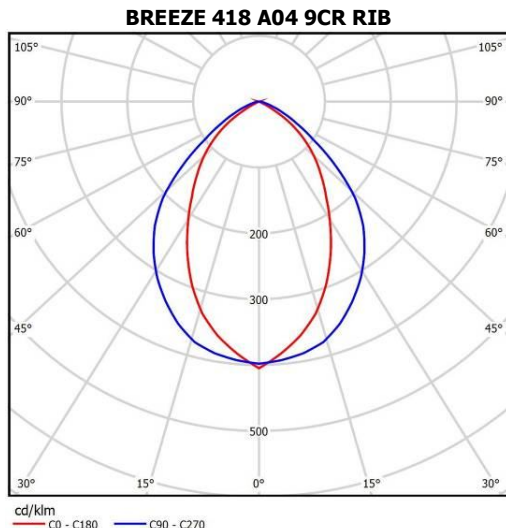
| | |
|-----------------------|--|
| Type: | A versatile recessed T8 luminaire with a choice of ribbed cross blades for most applications. Premium quality at competitive prices. |
| Specification: | <p>A glossy parabolic reflector with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement.</p> <p>Number of cross blades is optional from 5 up to 11 for better glare protection.</p> <p>Fully enclosed painted steel body, wiring is concealed and not visible from ground level.</p> <p>Luminaire is plastic-wrapped and packaged in twin boxes.</p> |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|------------------------|------------|------------------|
| Breeze 418 A04 RIB | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 7CR RIB | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 9CR RIB | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 418 A04 11CR RIB | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Breeze 218 C44 RIB | 2x18 (G13) | 598x299x85 | 2,4 | 42 |
| Breeze 236 B35 RIB | 2x36 (G13) | 1195x295x85 | 3,9 | 84 |
| Breeze 436 C45 RIB | 4x36 (G13) | 1195x595x85 | 7,2 | 168 |

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

Options available on request:

| | | | |
|------------|---|-------|---|
| HF- | High Frequency control gear | 4TB- | 4 way terminal block for loop feed and ease of wiring |
| DIM- | Dimmable ballasts | MAT- | Matted reflector |
| SWITCHDIM- | Switch DIM ballast | 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 |
| EM2- | Emergency version 2 hours | WIE- | 3- poles connector (subject to minimum order) |
| EM3- | Emergency version 3 hours | NCP- | Low Power Factor |
| 5TB- | 5 way terminal block for loop feed and ease of wiring | QCK- | Quick connection version, includes tubes |



PASSAT

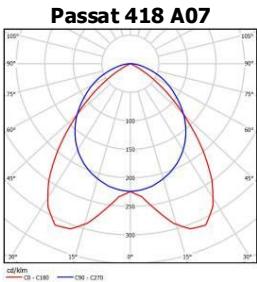
T8 Recessed Luminaire with Glossy V-shaped Louvre



| | |
|----------------|--|
| Type: | Traditional recessed T8 luminaire with glossy V-shaped louvre. A classic design for general commercial lighting. |
| Specification: | <p>A glossy V-shaped louvre with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability.</p> <p>Number of cross blades is optional from 5 up to 11 for better glare protection.</p> <p>Fully enclosed white painted steel body. Wiring is concealed and not visible from ground level.</p> <p>Luminaire is plastic-wrapped and packaged in twin boxes.</p> |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |

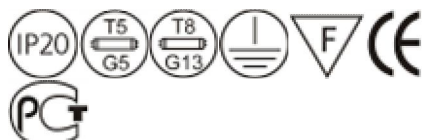
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Passat 218 D75 | 2x18 (G13) | 595x295x85 | 2,4 | 42 |
| Passat 418 A07 RGD | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Passat 236 D76 | 2x36 (G13) | 1195x295x85 | 3,9 | 84 |
| Passat 436 D77 | 4x36 (G13) | 1195x595x85 | 7,2 | 168 |

| | | | |
|-------------------------------|---|-------|-----------------------------|
| Options available on request: | | | |
| HF- | High Frequency control gear | MAT- | Matted reflector |
| DIM- | Dimmable ballasts | 7CR- | Louvre with 7 cross blades |
| EMG- | Emergency version 1 hour | 9CR- | Louvre with 9 cross blades |
| EM2- | Emergency version 2 hours | 11CR- | Louvre with 11 cross blades |
| EM3- | Emergency version 3 hours | WIE- | 3- poles connector |
| 4TB- | 4 way terminal block for loop feed and ease of wiring | NCP- | Low Power Factor |
| 5TB- | 5 way terminal block for loop feed and ease of wiring | | |



MISTRAL& MONSOON

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



Monsoon 418 B21

| | |
|-----------------------|--|
| 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 a locking safety clip for maximum stability. Fully enclosed economy steel body: white painted. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |

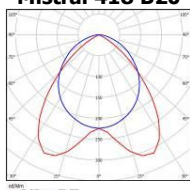
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Mistral 418 B20 | 4x18 (G13) | 595x595x72 | 2,6 | 84 |
| Mistral 418 A13 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Mistral 414 O96 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Monsoon 418 B21 | 4x18 (G13) | 595x595x72 | 2,6 | 84 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballasts
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour

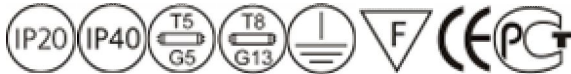
EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 NCP- Low Power Factor

Mistral 418 B20



LEVANTO

T5 & T8 Recessed Luminaire with Opal Diffuser



Levanto 418 F24 (framed opal glass)

| | |
|-----------------------|--|
| Type: | Traditional recessed luminaire with opal diffuser for most applications. Premium quality at competitive prices. |
| Specification: | UV stable opal diffuser. Fully enclosed white steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |

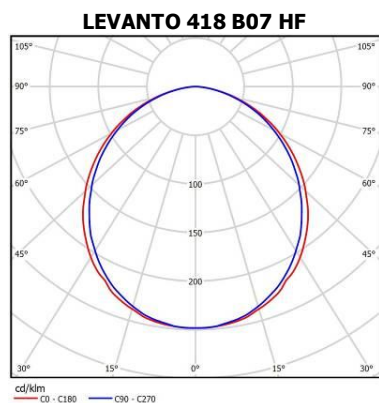
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|-------------------------|---------------------|------------------------|------------|------------------|
| Levanto 218 H61 | IP20 | 2x18 (G13) | 295x595x85 | 2,4 | 42 |
| Levanto 318 L51 | IP20 | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Levanto 318 L52 | IP40, framed opal glass | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Levanto 418 B07 | IP20 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Levanto 418 F24 | IP40, framed opal glass | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Levanto 236 H62 | IP20 | 2x36 (G13) | 295x1195x85 | 3,9 | 84 |
| Levanto 336 L53 | IP20 | 3x36 (G13) | 595x1195x85 | 7,2 | 126 |
| Levanto 436 H63 | IP20 | 4x36 (G13) | 595x1195x85 | 7,2 | 168 |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|-------------------------|---------------------|------------------------|------------|------------------|
| Levanto 214 H67 | IP20 | 2x14 (G5) | 295x595x85 | 2,2 | 31 |
| Levanto 224 H68 | IP20 | 2x24 (G5) | 295x595x85 | 2,2 | 49 |
| Levanto 314 L54 | IP20 | 3x14 (G5) | 595x595x72 | 2,9 | 47 |
| Levanto 324 L55 | IP20 | 3x24 (G5) | 595x595x72 | 2,9 | 74 |
| Levanto 314 L56 | IP40, framed opal glass | 3x14 (G5) | 595x595x72 | 2,9 | 47 |
| Levanto 324 L57 | IP40, framed opal glass | 3x24 (G5) | 595x595x72 | 2,9 | 74 |
| Levanto 414 H69 | IP20 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Levanto 424 H70 | IP20 | 4x24 (G5) | 595x595x72 | 2,9 | 98 |
| Levanto 414 I34 | IP40, framed opal glass | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Levanto 424 I35 | IP40, framed opal glass | 4x24 (G5) | 595x595x72 | 2,9 | 98 |
| Levanto 228 H71 | IP20 | 2x28 (G5) | 295x1195x85 | 3,2 | 60 |
| Levanto 254 H72 | IP20 | 2x54 (G5) | 295x1195x85 | 3,2 | 115 |
| Levanto 328 L58 | IP20 | 3x28 (G5) | 595x1195x85 | 5,7 | 90,5 |
| Levanto 354 L59 | IP20 | 3x54 (G5) | 595x1195x85 | 5,7 | 173 |
| Levanto 428 H73 | IP20 | 4x28 (G5) | 595x1195x85 | 5,7 | 120 |
| Levanto 454 H74 | IP20 | 4x54 (G5) | 595x1195x85 | 5,7 | 230 |

Options available on request:

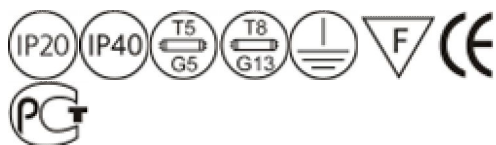
HF- High Frequency control gear
 DIM- Dimmable ballasts
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours

EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 WIE- 3- poles connector (subject to minimum order)
 NCP- Low Power Factor



MARENCO

T5 & T8 Recessed Luminaire with Prismatic Diffuser



Marenco 418 F47

| | |
|-----------------------|--|
| Type: | Traditional recessed luminaire with prismatic diffuser for most applications. Premium quality at competitive prices |
| Specification: | UV stable prismatic diffuser. Marenco 418 F47 with framed prismatic glass. Fully enclosed white steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings 600x600mm. |
| Application: | Office buildings, shops and other commercial environments. |

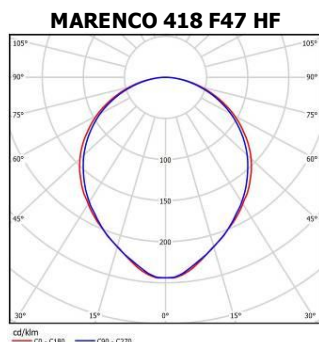
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|-------------------------|---------------------|------------------------|------------|------------------|
| Marenco 218 I33 | IP20 | 2x18 (G13) | 295x595x85 | 2,4 | 42 |
| Marenco 318 L60 | IP20 | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Marenco 318 L61 | IP40, framed opal glass | 3x18 (G13) | 595x595x72 | 3,7 | 63 |
| Marenco 418 D09 | IP20 | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Marenco 418 F47 | IP40, framed opal glass | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Marenco 236 K25 | IP20 | 2x36 (G13) | 295x1195x85 | 3,9 | 84 |
| Marenco 336 L62 | IP20 | 3x36 (G13) | 595x1195x85 | 7,2 | 126 |
| Marenco 436 K26 | IP20 | 4x36 (G13) | 595x1195x85 | 7,2 | 168 |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|-------------------------|---------------------|------------------------|------------|------------------|
| Marenco 214 I36 | IP20 | 2x14 (G5) | 295x595x85 | 2,2 | 31 |
| Marenco 224 I37 | IP20 | 2x24 (G5) | 295x595x85 | 2,2 | 49 |
| Marenco 314 L63 | IP20 | 3x14 (G5) | 595x595x72 | 2,9 | 47 |
| Marenco 324 L64 | IP20 | 3x24 (G5) | 595x595x72 | 2,9 | 74 |
| Marenco 314 L65 | IP40, framed opal glass | 3x14 (G5) | 595x595x72 | 2,9 | 47 |
| Marenco 324 L66 | IP40, framed opal glass | 3x24 (G5) | 595x595x72 | 2,9 | 74 |
| Marenco 414 I38 | IP20 | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Marenco 424 I39 | IP20 | 4x24 (G5) | 595x595x72 | 2,9 | 98 |
| Marenco 414 I40 | IP40, framed opal glass | 4x14 (G5) | 595x595x72 | 2,9 | 62 |
| Marenco 424 I41 | IP40, framed opal glass | 4x24 (G5) | 595x595x72 | 2,9 | 98 |
| Marenco 228 J59 | IP20 | 2x28 (G5) | 295x1195x85 | 3,2 | 60 |
| Marenco 254 J60 | IP20 | 2x54 (G5) | 295x1195x85 | 3,2 | 115 |
| Marenco 328 L67 | IP20 | 3x28 (G5) | 595x1195x85 | 5,7 | 90,5 |
| Marenco 354 L68 | IP20 | 3x54 (G5) | 595x1195x85 | 5,7 | 173 |
| Marenco 428 J61 | IP20 | 4x28 (G5) | 595x1195x85 | 5,7 | 120 |
| Marenco 454 J62 | IP20 | 4x54 (G5) | 595x1195x85 | 5,7 | 230 |

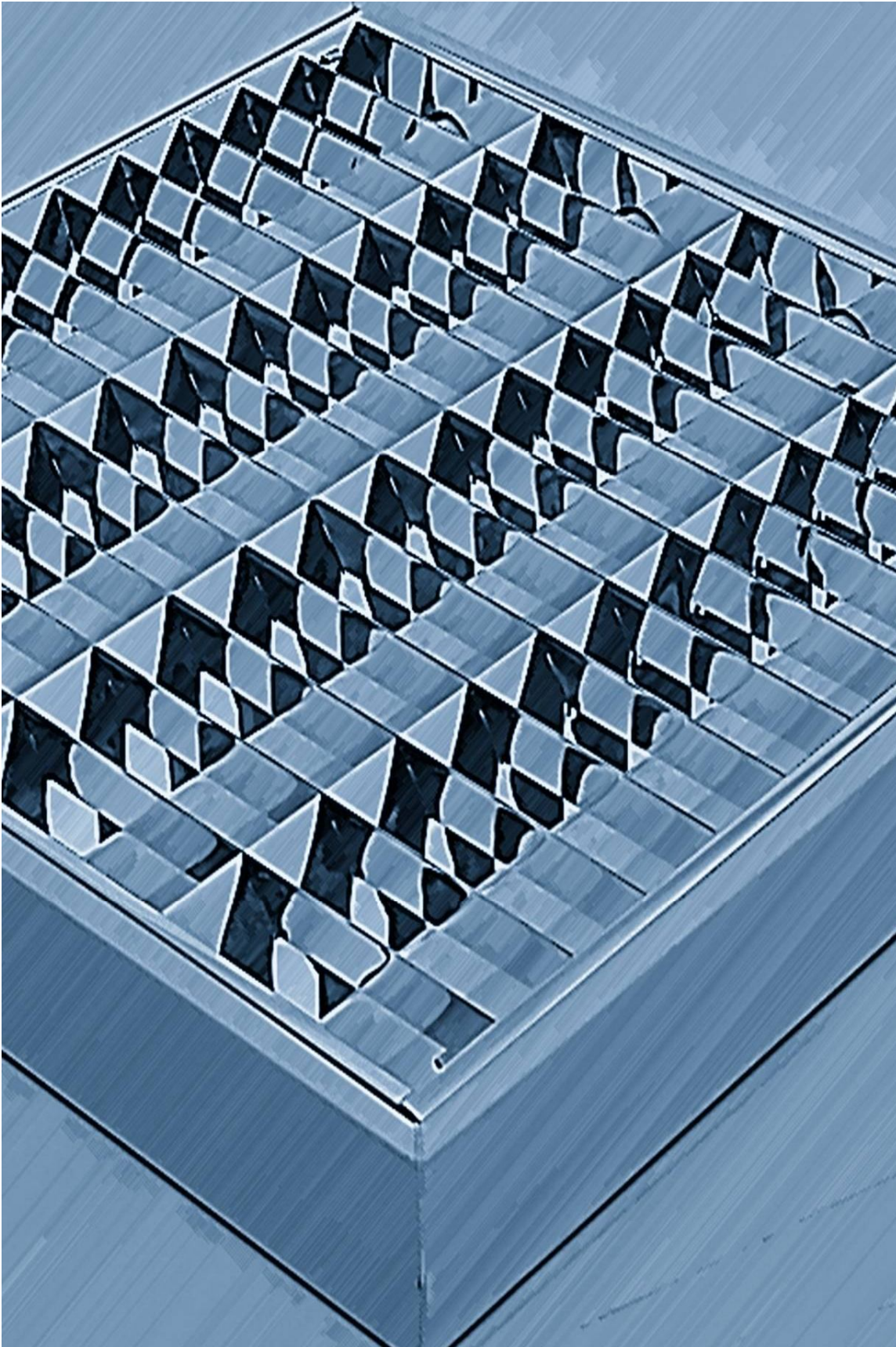
Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours

EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 WIE- 3- poles connector (subject to minimum order)
 NCP- Low Power Factor

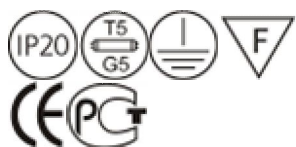


SURFACE



POLARIS

T5 Surface Double Parabolic Luminaire with Perforated Inserts



Polaris 214 F22



Polaris 214 B22



Polaris 414 F43

| | |
|-----------------------|--|
| 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 aluminum 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 aluminum with 95% reflection. Fully enclosed white steel body. Deluxe version made completely of matted aluminum. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |



Deluxe version manufactured from MIRO® aluminum louver and matted aluminum body



Standard version manufactured from glossy aluminum louver and white steel body

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Polaris 114 I23 | 1x14 (G5) | 143x595x57 | 1 | 15 |
| Polaris 124 I24 | 1x24 (G5) | 143x595x57 | 1 | 25 |
| Polaris 214 F22 | 2x14 (G5) | 143x595x57 | 1 | 31 |
| Polaris 224 F23 | 2x24 (G5) | 143x595x57 | 1 | 49 |
| Polaris 214 B22 | 2x14 (G5) | 295x595x57 | 1,2 | 31 |
| Polaris 224 D79 | 2x24 (G5) | 295x595x57 | 1,2 | 49 |
| Polaris 414 F43 | 4x14 (G5) | 295x595x57 | 1,3 | 31 |
| Polaris 424 F44 | 4x24 (G5) | 295x595x57 | 1,3 | 49 |
| Polaris 414 A19 | 4x14 (G5) | 595x595x57 | 1,9 | 62 |
| Polaris 424 D12 | 4x24 (G5) | 595x595x57 | 2,1 | 98 |
| Polaris 114 I23 Deluxe | 1x14 (G5) | 143x595x57 | 1 | 15 |
| Polaris 124 I24 Deluxe | 1x24 (G5) | 143x595x57 | 1 | 25 |
| Polaris 214 F22 Deluxe | 2x14 (G5) | 143x595x57 | 1 | 31 |
| Polaris 224 F23 Deluxe | 2x24 (G5) | 143x595x57 | 1 | 49 |
| Polaris 214 B22 Deluxe | 2x14 (G5) | 295x595x57 | 1,2 | 31 |
| Polaris 224 D79 Deluxe | 2x24 (G5) | 295x595x57 | 1,2 | 49 |
| Polaris 414 F43 Deluxe | 4x14 (G5) | 295x595x57 | 1,3 | 31 |
| Polaris 424 F44 Deluxe | 4x24 (G5) | 295x595x57 | 1,3 | 49 |
| Polaris 414 A19 Deluxe | 4x14 (G5) | 595x595x57 | 1,9 | 62 |
| Polaris 424 D12 Deluxe | 4x24 (G5) | 595x595x57 | 2,1 | 98 |

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

Options available on request:

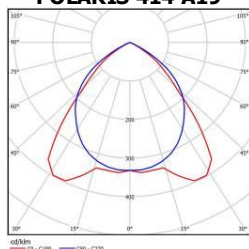
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast

DALI- DALI ballast
EMG- Emergency version 1 hour
EM2- Emergency version 2 hours
EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes
MAT- Matted reflector (subject to minimum order)
MRO- Mirror reflector Deluxe
PMT- Matted perforated inserts (subject to minimum order)
MTO- Matted reflector Deluxe (subject to minimum order)
SMS- Glossy aluminum body
WHT- White perforated inserts

POLARIS 414 A19



**POLARIS Linear
Narrow&Wide**

**T5 Surface/ Suspended
Slimline Double
Parabolic Luminaire**



Polaris 228 A22



LG3 – Luminaire fit 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 aluminum with 95% reflection. Fully enclosed white steel body. Deluxe version made completely of matted aluminum. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. |
| Application: | Office buildings, shops and other commercial environments. |



Wire suspension set (**SUS2**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information see in Option list.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Polaris 128 A20 | 1x28 (G5) | 143x1210x57 | 1,1 | 30,5 |
| Polaris 154 A24 | 1x54 (G5) | 143x1210x57 | 1,1 | 58 |
| Polaris 228 A21 | 2x28 (G5) | 143x1210x57 | 1,2 | 60 |
| Polaris 254 A25 | 2x54 (G5) | 143x1210x57 | 1,2 | 116 |
| Polaris 228 A22 | 2x28 (G5) | 295x1210x57 | 1,9 | 60 |
| Polaris 254 A26 | 2x54 (G5) | 295x1210x57 | 1,9 | 116 |
| Polaris 428 A23 | 4x28 (G5) | 295x1210x57 | 2,1 | 120 |
| Polaris 454 A27 | 4x54 (G5) | 295x1210x57 | 2,1 | 232 |
| Polaris 128 A20 Deluxe | 1x28 (G5) | 143x1210x57 | 1,1 | 30,5 |
| Polaris 154 A24 Deluxe | 1x54 (G5) | 143x1210x57 | 1,1 | 58 |
| Polaris 228 A21 Deluxe | 2x28 (G5) | 143x1210x57 | 1,2 | 60 |
| Polaris 254 A25 Deluxe | 2x54 (G5) | 143x1210x57 | 1,2 | 116 |
| Polaris 228 A22 Deluxe | 2x28 (G5) | 295x1210x57 | 1,9 | 60 |
| Polaris 254 A26 Deluxe | 2x54 (G5) | 295x1210x57 | 1,9 | 116 |
| Polaris 428 A23 Deluxe | 4x28 (G5) | 295x1210x57 | 2,1 | 120 |
| Polaris 454 A27 Deluxe | 4x54 (G5) | 295x1210x57 | 2,1 | 232 |

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

Options available on request:

DIM- Dimmable ballasts

SWITCHDIM- Switch DIM ballast

DALI- DALI ballasts

MAT- Matted reflector (subject to minimum order)

LG3- LG3 option

MRO- Mirror reflector Deluxe

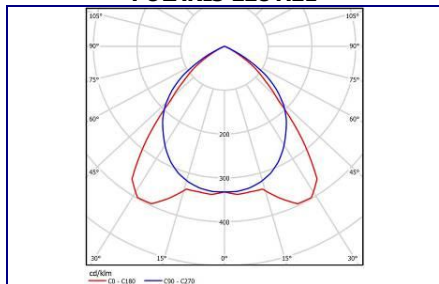
MTO- Matted reflector Deluxe (subject to minimum order)

SMS- Glossy aluminum body

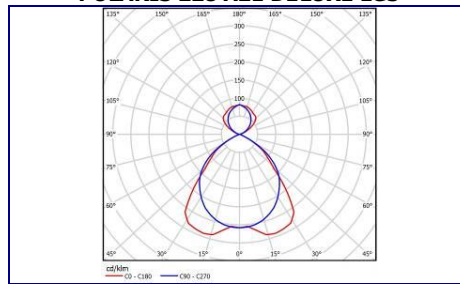
SUS2- Suspension wires set (2 pcs)

CAPW- White cap with spiral cable 3x1mm2

POLARIS 228 A21



POLARIS 228 A21 DELUXE LG3



LEVANTO & MARENCO LED

Surface Luminaire with Opal or Prismatic Diffuser



Marenco S LED B150 4x950lm T840



Levanto S LED B145 2x2140lm T840



Levanto S LED B145 2x2140lm T840 SPORT

| | |
|----------------|--|
| Type: | Economical surface mounted LED luminaire with a modern low profile body and diffuser. Premium quality at competitive prices. |
| Specification: | UV stable opal or prismatic sheet is fitted to the body with a steel frame. Option SPORT is equipped with a special white painted steel protective grid for sport halls and others areas, where a high degree of protection is required. Fully enclosed painted steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops, sport halls and other commercial environments. |

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Levanto S LED B142 2x950lm T840 | 360x635x66 | 1900 | 4000 | >80 | 21 | 2 |
| Levanto S LED B142 2x1000lm T857 | 360x635x665 | 2000 | 5700 | >80 | 21 | 2 |
| Levanto S LED B143 3x950lm T840 | 635x635x66 | 2850 | 4000 | >80 | 31 | 3 |
| Levanto S LED B143 3x1000lm T857 | 635x635x66 | 3000 | 5700 | >80 | 31 | 3 |
| Levanto S LED B144 4x950lm T840 | 635x635x66 | 3800 | 4000 | >80 | 41 | 3 |
| Levanto S LED B144 4x1000lm T857 | 635x635x66 | 4000 | 5700 | >80 | 41 | 3 |
| Levanto S LED B216 4750lm T840 | 635x635x66 | 4750 | 4000 | >80 | 51 | 3 |
| Levanto S LED B216 5000lm T857 | 635x635x66 | 5000 | 5700 | >80 | 51 | 3 |
| Levanto S LED B145 2x2140lm T840 | 220x1245x66 | 4280 | 4000 | >80 | 46 | 3 |
| Levanto S LED B145 2x2250lm T857 | 220x1245x66 | 4500 | 5700 | >80 | 46 | 3 |
| Levanto S LED B146 2x2140lm T840 | 360x1245x66 | 4280 | 4000 | >80 | 46 | 3,2 |
| Levanto S LED B146 2x2250lm T857 | 360x1245x66 | 4500 | 5700 | >80 | 46 | 3,2 |
| Levanto S LED B147 3x2140lm T840 | 360x1245x66 | 6420 | 4000 | >80 | 69 | 3,5 |
| Levanto S LED B147 3x2250lm T857 | 360x1245x66 | 6750 | 5700 | >80 | 69 | 3,5 |

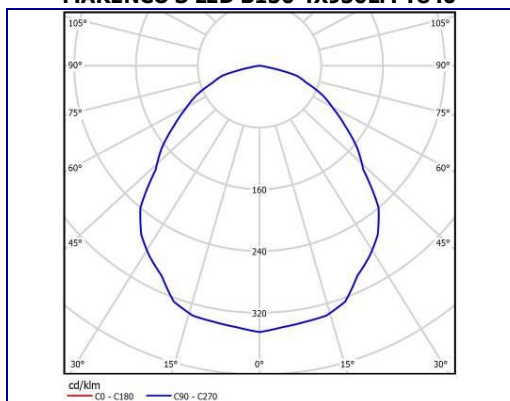
| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Marenco S LED B148 2x950lm T840 | 360x635x66 | 1900 | 4000 | >80 | 21 | 2 |
| Marenco S LED B148 2x1000lm T857 | 360x635x66 | 2000 | 5700 | >80 | 21 | 2 |
| Marenco S LED B149 3x950lm T840 | 635x635x66 | 2850 | 4000 | >80 | 31 | 3 |
| Marenco S LED B149 3x1000lm T857 | 635x635x66 | 3000 | 5700 | >80 | 31 | 3 |
| Marenco S LED B150 4x950lm T840 | 635x635x66 | 3800 | 4000 | >80 | 41 | 3 |
| Marenco S LED B150 4x1000lm T857 | 635x635x66 | 4000 | 5700 | >80 | 41 | 3 |
| Marenco S LED B217 4750lm T840 | 635x635x66 | 4750 | 4000 | >80 | 51 | 3 |
| Marenco S LED B217 5000lm T857 | 635x635x66 | 5000 | 5700 | >80 | 51 | 3 |
| Marenco S LED B151 2x2140lm T840 | 220x1245x66 | 4280 | 4000 | >80 | 46 | 3 |
| Marenco S LED B151 2x2250lm T857 | 220x1245x66 | 4500 | 5700 | >80 | 46 | 3 |
| Marenco S LED B152 2x2140lm T840 | 360x1245x66 | 4280 | 4000 | >80 | 46 | 3,2 |
| Marenco S LED B152 2x2250lm T857 | 360x1245x66 | 4500 | 5700 | >80 | 46 | 3,2 |
| Marenco S LED B153 3x2140lm T840 | 360x1245x66 | 6420 | 4000 | >80 | 69 | 3,5 |
| Marenco S LED B153 3x2250lm T857 | 360x1245x66 | 6750 | 5700 | >80 | 69 | 3,5 |

Options available on request:

5TB- 5 way terminal block for loop feed and ease of wiring

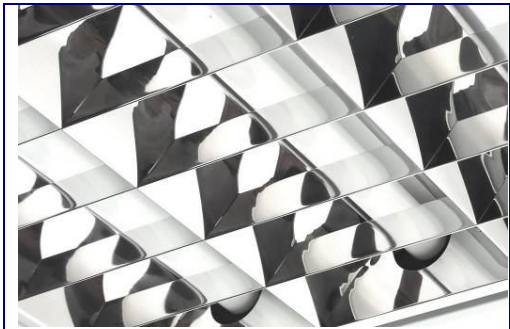
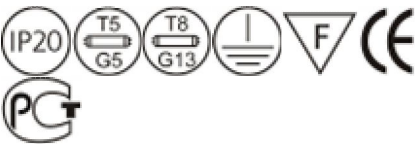
SPORT- a special white painted steel protective grid

MARENCO S LED B150 4X950LM T840



BREEZE

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



Breeze 418 B33



Breeze 418 B33 9CR



Breeze 418 B33 11CR



Breeze 218 D13



Breeze 236 D14

| | |
|----------------|---|
| Type: | Bestselling surface mounted T8 luminaire with a modern low profile body and optional number of mirror cross blades. Premium quality at competitive prices. |
| Specification: | <p>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.</p> <p>Number of cross blades is optional from 5 up to 11 for better glare protection.</p> <p>Fully enclosed painted steel body, wiring is concealed and not visible from ground level.</p> <p>Luminaire is plastic-wrapped and packaged in twin boxes.</p> |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Breeze 218 D13 | 2x18 (G13) | 360x635x66 | 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) | 220x1245x66 | 2,8 | 42 |
| Breeze 236 I43 | 2x36 (G13) | 220x1245x66 | 3,3 | 84 |
| Breeze 158 P12 | 1x58 (G13) | 220x1545x66 | 4 | 67 |
| Breeze 236 D14 | 2x36 (G13) | 360x1245x66 | 4 | 84 |
| Breeze 258 O40 | 2x58 (G13) | 360x1545x66 | 5,5 | 134 |
| Breeze 436 G76 | 4x36 (G13) | 635x1245x66 | 7 | 168 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Breeze 214 F33 | 2x14 (G5) | 360x635x66 | 2,2 | 31 |
| Breeze 224 F34 | 2x24 (G5) | 360x635x66 | 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) | 220x1245x66 | 2,5 | 30 |
| Breeze 154 J90 | 1x54 (G5) | 220x1245x66 | 2,5 | 58 |
| Breeze 228 J91 | 2x28 (G5) | 220x1245x66 | 2,5 | 60 |
| Breeze 254 J92 | 2x54 (G5) | 220x1245x66 | 2,5 | 116 |
| Breeze 135 P08 | 1x35 (G5) | 220x1245x66 | 3 | 38 |
| Breeze 149 P09 | 1x49 (G5) | 220x1245x66 | 3 | 52 |
| Breeze 235 P10 | 2x35 (G5) | 220x1245x66 | 3 | 75 |
| Breeze 249 P11 | 2x49 (G5) | 220x1245x66 | 3 | 104 |
| Breeze 228 F37 | 2x28 (G5) | 360x1245x66 | 3,3 | 60 |
| Breeze 254 F38 | 2x54 (G5) | 360x1245x66 | 3,3 | 116 |
| Breeze 235 O41 | 2x35 (G5) | 360x1545x66 | 4 | 75 |
| Breeze 249 O42 | 2x49 (G5) | 360x1545x66 | 4 | 104 |
| Breeze 280 O43 | 2x80 (G5) | 360x1545x66 | 4,1 | 170 |
| Breeze 428 F39 | 4x28 (G5) | 360x1245x66 | 3,6 | 120 |
| Breeze 454 F40 | 4x54 (G5) | 360x1245x66 | 3,6 | 229 |
| Breeze 328 O35 | 3x28 (G5) | 635x1245x66 | 5,7 | 90 |
| Breeze 354 O36 | 3x54 (G5) | 635x1245x66 | 5,7 | 115 |
| Breeze 428 O37 | 4x28 (G5) | 635x1245x66 | 5,8 | 120 |
| Breeze 454 O38 | 4x54 (G5) | 635x1245x66 | 5,8 | 229 |
| Breeze 628 P06 | 6x28 (G5) | 635x1245x66 | 6 | 180 |
| Breeze 654 P07 | 6x54 (G5) | 635x1245x66 | 6 | 344 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

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 DPAR

T5 & T8 Surface Luminaire with Double Parabolic Louvre



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

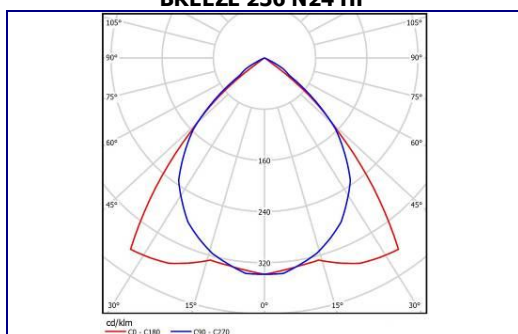
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Breeze 418 H16 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Breeze 236 N24 | 2x36 (G13) | 360x1245x66 | 3,6 | 84 |
| Breeze 414 N25 | 4x14 (G5) | 635x635x66 | 2,8 | 62 |
| Breeze 424 N26 | 4x24 (G5) | 635x635x66 | 2,8 | 98 |
| Breeze 228 N27 | 2x28 (G5) | 360x1245x66 | 2,8 | 60 |
| Breeze 254 N28 | 2x54 (G5) | 360x1245x66 | 2,8 | 116 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballasts
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hour

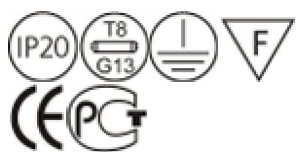
EM3- Emergency version 3 hour
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 MAT- Matted reflector
 NCP- Low Power Factor

BREEZE 236 N24 HF



MONSOON

**T8 Surface
Luminaire
with Glossy
Parabolic
Louvre and
Ribbed Cross
Blades**



Monsoon 418 B08 STD



Monsoon 418 B08 STD 9CR



Monsoon 236 D16

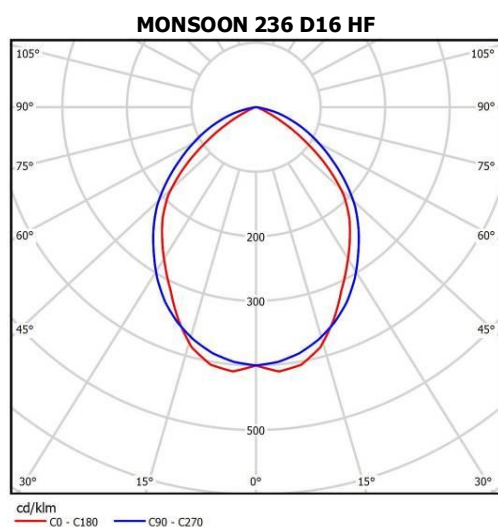
| | |
|-----------------------|--|
| Type: | Traditional surface mounted T8 luminaire with a modern low profile body. Premium quality at competitive prices. |
| Specification: | <p>Shiny parabolic louvre with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement.</p> <p>Number of cross blades is optional from 5 up to 11 for better glare protection.</p> <p>Fully enclosed painted steel body, wiring is concealed and not visible from ground level.</p> <p>Luminaire is plastic-wrapped and packaged in twin boxes.</p> |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|------------------------|------------|------------------|
| Monsoon 218 D15 | 2x18 (G13) | 360x635x66 | 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) | 360x1245x66 | 4 | 84 |
| Monsoon 258 O44 | 2x58 (G13) | 635x1545x66 | 5,5 | 134 |
| Monsoon 436 G77 | 4x36 (G13) | 635x1245x66 | 7 | 168 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 MAT- Matted reflector
 7CR- Louvre with 7 cross blades
 9CR- Louvre with 9 cross blades
 11CR- Louvre with 11 cross blades
 NCP- Low Power Factor



PASSAT

T8 Surface Luminaire with Glossy V-shaped Louvre



Passat 236 A32



Passat 236 A33

| | |
|-----------------------|---|
| Type: | Versatile surface mounted T8 luminaire with a modern low profile body and specular V-shaped louvre. Premium quality at competitive prices. |
| Specification: | Standard V-shaped louvre with ribbed cross blades 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 9 for better glare protection. Fully enclosed painted steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Passat 218 A31 | 2x18 (G13) | 360x635x66 | 2,4 | 42 |
| Passat 418 A30 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Passat 418 A30 7CR | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Passat 236 A33 | 2x36 (G13) | 220x1245x66 | 3,3 | 84 |
| Passat 236 A32 | 2x36 (G13) | 360x1245x66 | 4 | 84 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block for loop feed and ease of wiring

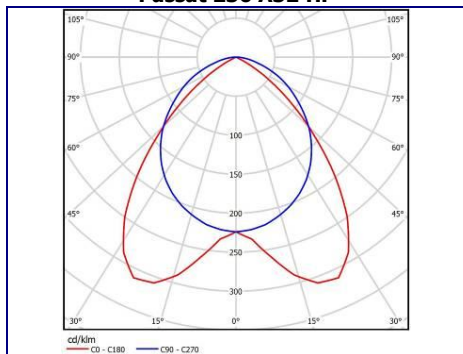
MAT- Matted reflector

7CR- Louvre with 7 cross blades

9CR- Louvre with 9 cross blades

NCP- Low Power Factor

Passat 236 A32 HF



SIROCCO

T8 Surface Double Parabolic Luminaire with Glossy Perforated Inserts



Sirocco 218 A29

| | |
|----------------|---|
| Type: | A premium surface mounted T8 luminaire with a modern low profile body. |
| Specification: | Double Parabolic louvre, with perforated inserts to give better light distribution. 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. Fully enclosed white steel body, wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Sirocco 218 A29 | 2x18 (G13) | 360x635x66 | 2,4 | 50 |
| Sirocco 418 A28 | 4x18 (G13) | 635x635x66 | 3,8 | 84 |

| | | | |
|-------------------------------|-----------------------------|------|---|
| Options available on request: | | | |
| HF- | High Frequency control gear | EM2- | Emergency version 2 hours |
| DIM- | Dimmable ballasts | EM3- | Emergency version 3 hours |
| SWITCHDIM- | Switch DIM ballast | 4TB- | 4 way terminal block for loop feed and ease of wiring |
| DALI- | DALI ballast | MAT- | Matted reflector |
| EMG- | Emergency version 1 hour | NCP- | Low Power Factor |

MISTRAL& Monsoon

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



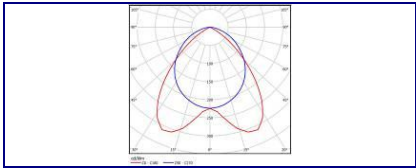
Monsoon 418 D17

| | |
|----------------|--|
| 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 packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Mistral 418 A34 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |
| Monsoon 418 D17 | 4x18 (G13) | 635x635x66 | 3,6 | 84 |

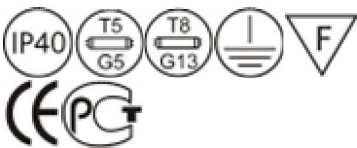
| | | |
|-------------------------------|-----------------------------|--|
| Options available on request: | | |
| HF- | High Frequency control gear | EM2- Emergency version 2 hours |
| DIM- | Dimmable ballasts | EM3- Emergency version 3 hours |
| SWITCHDIM- | Switch DIM ballast | 4TB- 4 way terminal block for loop feed and ease of wiring |
| DALI- | DALI ballast | 5TB- 5 way terminal block for loop feed and ease of wiring |
| EMG- | Emergency version 1 hour | NCP- Low Power Factor |

Mistral 418 A34



LEVANTO

T5 & T8 Surface Luminaire with Opal Diffuser



Levanto 236 A41



Levanto Sport 236 A42

| | |
|----------------|--|
| Type: | Economical surface mounted T8 luminaire with a modern low profile body and opal diffuser. Premium quality at competitive prices. |
| Specification: | UV stable opal sheet is fitted to the body with a steel frame. LEVANTO SPORT 236 A42 is equipped with a special white painted steel protective grid for sport halls and others areas, where a high degree of protection is required. Fully enclosed painted steel body. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, shops, sport halls and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| Levanto 118 J95 | 1x18 (G13) | 220x635x66 | 1,8 | 22 |
| Levanto 218 J96 | 2x18 (G13) | 220x635x66 | 2,2 | 42 |
| Levanto 218 H75 | 2x18 (G13) | 360x635x66 | 2,4 | 42 |
| Levanto 318 L05 | 3x18 (G13) | 360x635x66 | 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) | 220x1245x66 | 3,2 | 42 |
| Levanto 236 A41 | 2x36 (G13) | 220x1245x66 | 3,8 | 84 |
| Levanto 236 L27 | 2x36 (G13) | 360x1245x66 | 4 | 84 |
| Levanto 336 L03 | 3x36 (G13) | 360x1245x66 | 4,6 | 126 |
| Levanto Sport 236 A42 | 2x36 (G13) | 320x1380x105 | 5,9 | 84 |

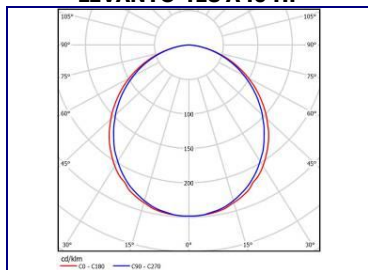
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Levanto 114 L07 | 1x14 (G5) | 220x635x66 | 1,4 | 16 |
| Levanto 124 L08 | 1x24 (G5) | 220x635x66 | 1,4 | 25 |
| Levanto 214 L09 | 2x14 (G5) | 220x635x66 | 1,5 | 31 |
| Levanto 224 L10 | 2x24 (G5) | 220x635x66 | 1,5 | 49 |
| Levanto 214 L11 | 2x14 (G5) | 360x635x66 | 2,2 | 31 |
| Levanto 224 L12 | 2x24 (G5) | 360x635x66 | 2,2 | 49 |
| Levanto 314 L13 | 3x14 (G5) | 360x635x66 | 2,3 | 46 |
| Levanto 324 L14 | 3x24 (G5) | 360x635x66 | 2,3 | 73 |
| Levanto 314 L15 | 3x14 (G5) | 635x635x66 | 3,1 | 46 |
| Levanto 324 L16 | 3x24 (G5) | 635x635x66 | 3,1 | 73 |
| Levanto 414 L17 | 4x14 (G5) | 635x635x66 | 3,2 | 62 |
| Levanto 424 L18 | 4x24 (G5) | 635x635x66 | 3,2 | 98 |
| Levanto 128 L19 | 1x28 (G5) | 220x1245x66 | 2,5 | 30 |
| Levanto 154 L20 | 1x54 (G5) | 220x1245x66 | 2,5 | 58 |
| Levanto 228 L21 | 2x28 (G5) | 220x1245x66 | 2,6 | 60 |
| Levanto 254 L22 | 2x54 (G5) | 220x1245x66 | 2,6 | 116 |
| Levanto 228 L23 | 2x28 (G5) | 360x1245x66 | 3,3 | 60 |
| Levanto 254 L24 | 2x54 (G5) | 360x1245x66 | 3,3 | 116 |
| Levanto 328 L25 | 3x28 (G5) | 360x1245x66 | 3,7 | 90 |
| Levanto 354 L26 | 3x54 (G5) | 360x1245x66 | 3,7 | 174 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 NCP- Low Power Factor

LEVANTO 418 A40 HF



MARENCO

T5 & T8 Surface Luminaire with Prismatic Diffuser



| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Marenco 118 J98 | 1x18 (G13) | 220x635x66 | 1,8 | 22 |
| Marenco 218 J99 | 2x18 (G13) | 220x635x66 | 2,2 | 42 |
| Marenco 218 H76 | 2x18 (G13) | 360x635x66 | 2,4 | 42 |
| Marenco 318 L28 | 3x18 (G13) | 360x635x66 | 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) | 220x1245x66 | 3,2 | 42 |
| Marenco 236 L02 | 2x36 (G13) | 220x1245x66 | 3,8 | 84 |
| Marenco 236 L30 | 2x36 (G13) | 360x1245x66 | 4 | 84 |
| Marenco 336 L04 | 3x36 (G13) | 360x1245x66 | 4,6 | 126 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Marenco 114 L31 | 1x14 (G5) | 220x635x66 | 1,4 | 16 |
| Marenco 124 L32 | 1x24 (G5) | 220x635x66 | 1,4 | 25 |
| Marenco 214 L33 | 2x14 (G5) | 220x635x66 | 1,5 | 31 |
| Marenco 224 L34 | 2x24 (G5) | 220x635x66 | 1,5 | 49 |
| Marenco 214 L35 | 2x14 (G5) | 360x635x66 | 2,2 | 31 |
| Marenco 224 L36 | 2x24 (G5) | 360x635x66 | 2,2 | 49 |
| Marenco 314 L37 | 3x14 (G5) | 360x635x66 | 2,3 | 46 |
| Marenco 324 L38 | 3x24 (G5) | 360x635x66 | 2,3 | 73 |
| Marenco 314 L39 | 3x14 (G5) | 635x635x66 | 3,1 | 46 |
| Marenco 324 L40 | 3x24 (G5) | 635x635x66 | 3,1 | 73 |
| Marenco 414 L41 | 4x14 (G5) | 635x635x66 | 3,2 | 62 |
| Marenco 424 L42 | 4x24 (G5) | 635x635x66 | 3,2 | 98 |
| Marenco 128 L43 | 1x28 (G5) | 220x1245x66 | 2,5 | 30 |
| Marenco 154 L44 | 1x54 (G5) | 220x1245x66 | 2,5 | 58 |
| Marenco 228 L45 | 2x28 (G5) | 220x1245x66 | 2,6 | 60 |
| Marenco 254 L46 | 2x54 (G5) | 220x1245x66 | 2,6 | 116 |
| Marenco 228 L47 | 2x28 (G5) | 360x1245x66 | 3,3 | 60 |
| Marenco 254 L48 | 2x54 (G5) | 360x1245x66 | 3,3 | 116 |
| Marenco 328 L49 | 3x28 (G5) | 360x1245x66 | 3,7 | 90 |
| Marenco 354 L50 | 3x54 (G5) | 360x1245x66 | 3,7 | 174 |

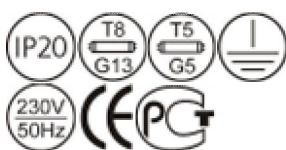
Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour

EM2- Emergency version **2 hours**
 EM3- Emergency version **3 hours**
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 NCP- Low Power Factor

JETTA

T8/T5 Surface Indirect Luminaire of Seagull Shape



| | |
|-----------------------|--|
| Type: | A decorative surface mounted luminaire of seagull shape for a pleasing glare-free lighting effect and excellent light distribution. |
| Specification: | Parabolic indirect reflection design with a pure aluminum perforated cover. UV stable opal film. Fully enclosed white painted steel body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Office buildings, showrooms and other commercial environments. |

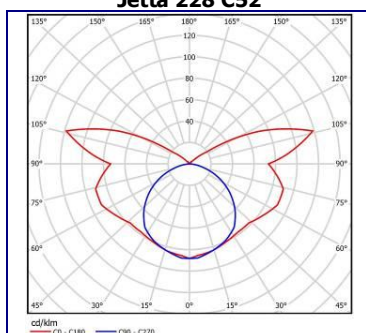
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Jetta 236 C54 | 2x36 (G13) | 1248x460x130 | 8,25 | 84 |
| Jetta 336 C55 | 3x36 (G13) | 1248x460x130 | 8,75 | 126 |
| Jetta 228 C52 | 2x28 (G5) | 1198x460x130 | 7,85 | 60 |
| Jetta 328 C53 | 3x28 (G5) | 1198x460x130 | 8,15 | 90 |
| Jetta 254 D85 | 2x54 (G5) | 1198x460x130 | 7,85 | 116 |
| Jetta 354 D86 | 3x54 (G5) | 1198x460x130 | 8,15 | 174 |

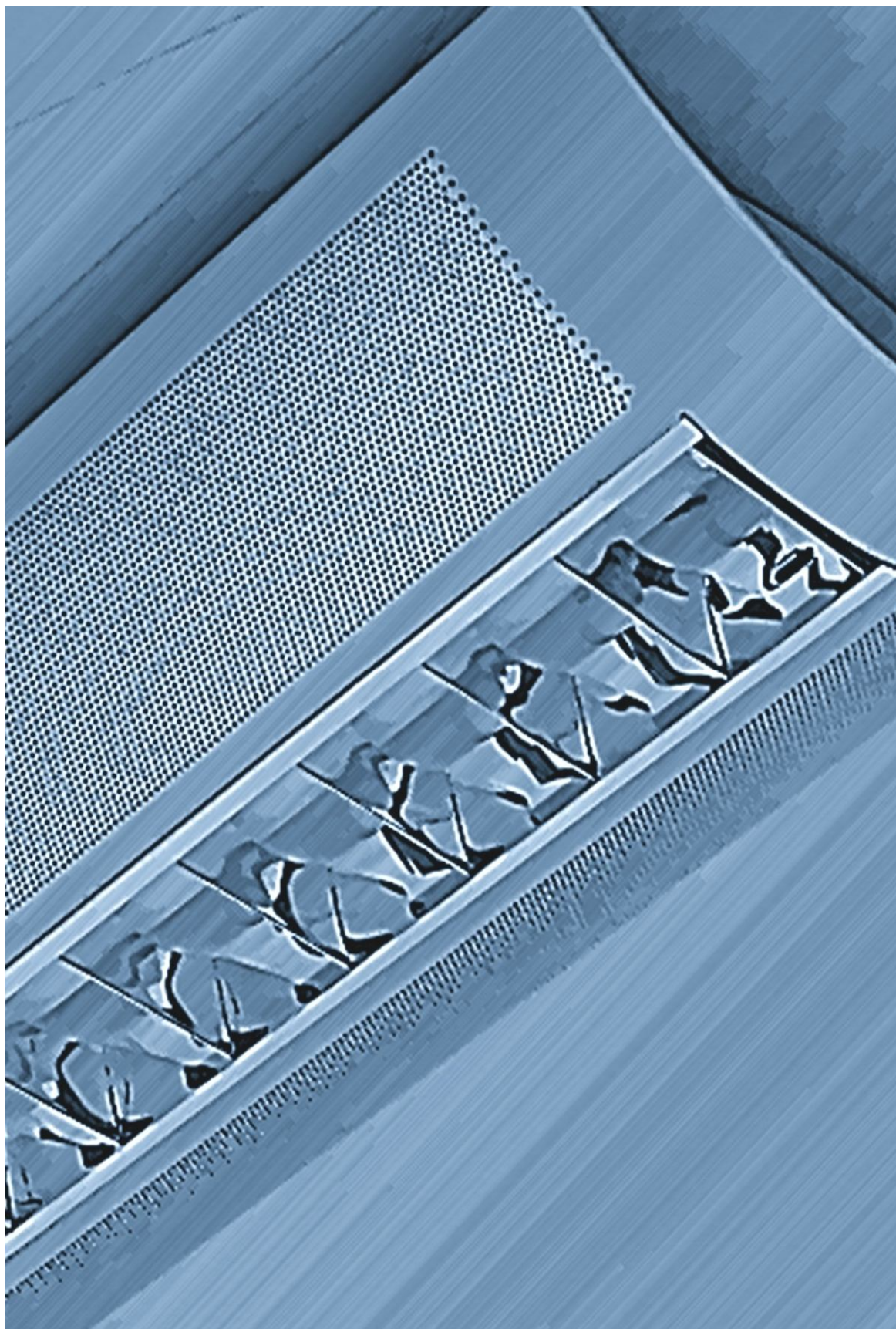
Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 NCP- Low Power Factor

Jetta 228 C52





SUSPENDED

www.northcliffe.org

BORA REF

T8 Surface/Suspended Indirect Luminaire with Perforated Cover



| | |
|-----------------------|--|
| Type: | Batten type luminaire with central perforated cover to create ideal light distribution without blinding glare. |
| Specification: | Perforated white painted cover with symmetrical reflector. Fully enclosed white painted body . Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. |
| Application: | Office buildings, shops and other commercial environments. |

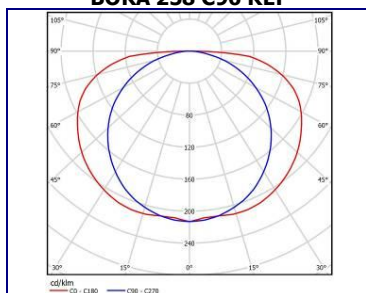
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------|---------------------|------------------------|------------|------------------|
| Bora 136 C93 REF | 1x36 (G13) | 1232x206x92 | 2,9 | 42 |
| Bora 158 C94 REF | 1x58 (G13) | 1534x206x92 | 3,7 | 67 |
| Bora 236 C95 REF | 2x36 (G13) | 1232x206x92 | 3,4 | 84 |
| Bora 258 C96 REF | 2x58 (G13) | 1534x206x92 | 5 | 134 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

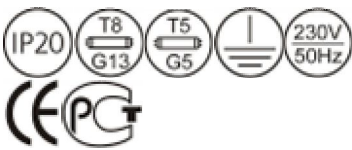
EMG- Emergency version 1 hour
EM2- Emergency version **2 hours**
EM3- Emergency version **3 hours**
NCP- Low Power Factor

BORA 258 C96 REF



JETTA

T8/T5 Suspended Direct/Indirect Luminaire



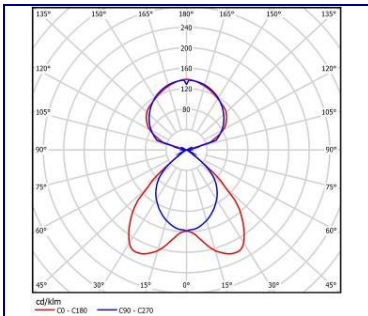
| | |
|----------------|---|
| Type: | Suspended luminaire with a combination of curved perforated reflector for indirect light and a double parabolic glossy aluminum reflector for direct light projection. |
| Specification: | Double parabolic mirror aluminum louvre with cross blades is fitted into the body with a locking safety clip for maximum stability. Fully enclosed white painted body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suspended mounting. Supplied with 1.5 m suspension kit and flexible power cable. |
| Application: | Office buildings, shops and other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Jetta 328 D83 | 3x28 (G5) | 285x1335x66 | 5,4 | 90 |
| Jetta 354 D84 | 3x54 (G5) | 285x1335x66 | 5,4 | 174 |
| Jetta 335 P13 | 3x35 (G5) | 285x1635x66 | 6,7 | 113 |
| Jetta 349 P14 | 3x49 (G5) | 285x1635x66 | 6,7 | 157 |

Options available on request:
HF- High Frequency control gear
DIM- Dimmable ballasts
SWITCHDIM- Switch DIM ballast
DALI- DALI ballasts

EMG- Emergency version 1 hour
EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
NCP- Low Power Factor

JETTA 328 D83



SERPENS

T5 Recessed
Luminaire
for in-line
connection
without gap

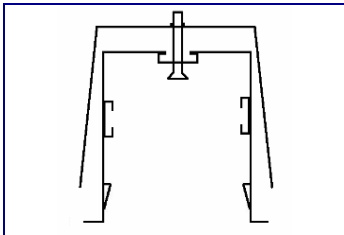


Serpens 128 M75 PRZ



Serpens 128 M75 OP

| | |
|----------------|--|
| Type: | Recessed luminaire for in-line connection without gaps. |
| Specification: | Three different types of louvre are optional: PAR- double parabolic reflector made of mirror aluminum with four spring locks PRZ- extruded prismatic diffuser made of UV stable polycarbonate OP- extruded opal diffuser made of UV stable polycarbonate Deluxe version louvres are manufactured using Alanod MIRO® aluminum with 95% reflectiveness. Body made of extruded aluminum profile powder painted in textured RAL 9003. Aluminum end caps fixed by two screws. Luminaire with an option "L" for in-line connection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings and/or plasterboard ceilings. When the luminaire is fitted into a plasterboard ceiling, support brackets should be ordered (see option list). |
| Application: | Office buildings, shops and other commercial environments. |



Supports brackets (2 pcs) for installation into a plasterboard ceiling available on request.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Serpens 114 M73 | 1x14 (G5) | 595x80x70 | 1,25 | 15 |
| Serpens 124 M74 | 1x24 (G5) | 595x80x70 | 1,25 | 25 |
| Serpens 128 M75 | 1x28 (G5) | 1195x80x70 | 2 | 30 |
| Serpens 135 M76 | 1x35 (G5) | 1495x80x70 | 2,4 | 38 |
| Serpens 149 M77 | 1x49 (G5) | 1495x80x70 | 2,4 | 53 |
| Serpens 154 M78 | 1x54 (G5) | 1195x80x70 | 2 | 58 |
| Serpens 180 M79 | 1x80 (G5) | 1495x80x70 | 2,5 | 85 |
| Serpens 2x114 M94 | 2x1x14 (G5) | 1170x80x70 | 2,5 | 30 |
| Serpens 2x124 M95 | 2x1x24 (G5) | 1170x80x70 | 2,5 | 50 |
| Serpens 2x128 M96 | 2x1x28 (G5) | 2370x80x70 | 4 | 60 |
| Serpens 2x135 M97 | 2x1x35 (G5) | 2970x80x70 | 4,8 | 76 |
| Serpens 2x149 M98 | 2x1x49 (G5) | 2970x80x70 | 4,8 | 106 |
| Serpens 2x154 M99 | 2x1x54 (G5) | 2370x80x70 | 4 | 116 |
| Serpens 2x180 N01 | 2x1x80 (G5) | 2970x80x70 | 5,0 | 170 |

3 in one (4445 mm) and 4 in one (5920 mm) versions are available **on request**.

Options available on request:

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version **2 hours**

EM3- Emergency version **3 hours**

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

PAR- Double parabolic reflector

MRO- Mirror reflector Deluxe (subject to minimum order)

OP- Opal cover

PRZ- Micro prismatic cover

SB- Support brackets for installation into a plasterboard ceiling

L- Designed for in-line connecting without gap

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- Painted RAL colour





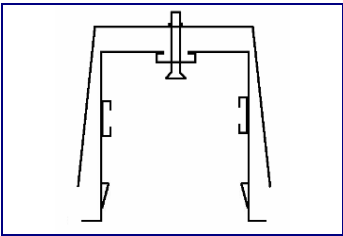
SERPENS D

T5 Recessed Luminaire for in-line connection without gap



SERPENS 228 P59 OP

| | |
|----------------|--|
| Type: | Recessed luminaire for in-line connection without gaps. |
| Specification: | Three different types of louvre are optional: PAR- double parabolic reflector made of mirror aluminum with four spring locks PRZ- extruded prismatic diffuser made of UV stable polycarbonate OP- extruded opal diffuser made of UV stable polycarbonate Deluxe version louvres are manufactured using Alanod MIRO® aluminum with 95% reflectiveness. Body made of extruded aluminum profile powder painted in textured RAL 9003. Aluminum end caps fixed by two screws. Luminaire with an option "L" for in-line connection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Fits 15-24mm exposed T-Bar ceilings and/or plasterboard ceilings. When the luminaire is fitted into a plasterboard ceiling, support brackets should be ordered (see option list). |
| Application: | Office buildings, shops and other commercial environments. |



Supports brackets (**SERPENS D BR2**) for installation into a plasterboard ceiling available on request.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Serpens 214 P57 | 2x14 (G5) | 595x130x70 | 1,40 | 31 |
| Serpens 224 P58 | 2x24 (G5) | 595x130x70 | 1,40 | 49 |
| Serpens 228 P59 | 2x28 (G5) | 1195x130x70 | 2,15 | 60 |
| Serpens 235 P60 | 2x35 (G5) | 1495x130x70 | 2,65 | 76 |
| Serpens 249 P61 | 2x49 (G5) | 1495x130x70 | 2,65 | 105 |
| Serpens 254 P62 | 2x54 (G5) | 1195x130x70 | 2,15 | 116 |
| Serpens 280 P63 | 2x80 (G5) | 1495x130x70 | 2,75 | 170 |
| Serpens 2x214 P64 | 2x2x14 (G5) | 1170x130x70 | 2,80 | 62 |
| Serpens 2x224 P65 | 2x2x24 (G5) | 1170x130x70 | 2,80 | 98 |
| Serpens 2x228 P66 | 2x2x28 (G5) | 2370x130x70 | 4,3 | 120 |
| Serpens 2x235 P67 | 2x2x35 (G5) | 2970x130x70 | 5,3 | 152 |
| Serpens 2x249 P68 | 2x2x49 (G5) | 2970x130x70 | 5,3 | 210 |
| Serpens 2x254 P69 | 2x2x54 (G5) | 2370x130x70 | 4,3 | 232 |
| Serpens 2x280 P70 | 2x2x80 (G5) | 2970x130x70 | 5,5 | 340 |

3 in one (4445 mm) and 4 in one (5920 mm) versions are available **on request**.

Options available on request:

DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version **2 hours**

EM3- Emergency version **3 hours**

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

PAR- Double parabolic reflector

MRO- Mirror reflector Deluxe (subject to minimum order)

OP- Opal cover

PRZ- Micro prismatic cover

SB- Support brackets for installation into a plasterboard ceiling

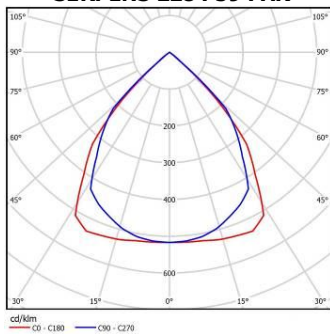
M- Designed for in-line connecting without gap

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

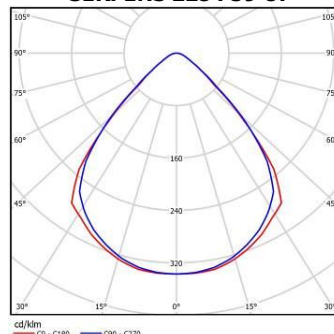
3LIN- Through wiring 5x1.5 mm² with two push-in terminal blocks

RAL- Painted RAL colour

SERPENS 228 P59 PAR



SERPENS 228 P59 OP



DECOR

Surface/Suspended
Luminaire for in-line
connection



Decor 128 M82 OP



Decor 128 M82 PRZ

| | |
|----------------|---|
| Type: | Surface or suspended mounted luminaire for in-line connection. |
| Specification: | Three different types of louvre are optional: PAR- double parabolic reflector made of mirror aluminum with four spring locks PRZ- prismatic diffuser made of UV stable polycarbonate OP- opal diffuser made of UV stable extruded polycarbonate Deluxe version louvres are manufactured using Alanod MIRO® aluminum with 95% reflectiveness. Body made of extruded aluminum profile powder painted in textured RAL 9006. Aluminum end caps fixed by two screws. Luminaire with an option "L" is used for in-line connection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. Wire suspension set available on request (see option list). |
| Application: | Office buildings, shops and other commercial environments. |



Wire suspension set (**SUS2**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information see in Option list.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Decor 114 M80 | 1x14 (G5) | 576x60x70 | 1,2 | 15 |
| Decor 124 M81 | 1x24 (G5) | 576x60x70 | 1,2 | 25 |
| Decor 128 M82 | 1x28 (G5) | 1176x60x70 | 1,9 | 30 |
| Decor 135 M83 | 1x35 (G5) | 1476x60x70 | 2,3 | 38 |
| Decor 149 M84 | 1x49 (G5) | 1476x60x70 | 2,3 | 53 |
| Decor 154 M85 | 1x54 (G5) | 1176x60x70 | 1,9 | 58 |
| Decor 180 M86 | 1x80 (G5) | 1476x60x70 | 2,4 | 85 |
| Decor 2x114 N02 | 2x1x14 (G5) | 1151x60x70 | 2,4 | 30 |
| Decor 2x124 N03 | 2x1x24 (G5) | 1151x60x70 | 2,4 | 50 |
| Decor 2x128 N04 | 2x1x28 (G5) | 2351x60x70 | 3,8 | 60 |
| Decor 2x135 N05 | 2x1x35 (G5) | 2951x60x70 | 4,6 | 76 |
| Decor 2x149 N06 | 2x1x49 (G5) | 2951x60x70 | 4,6 | 106 |
| Decor 2x154 N07 | 2x1x54 (G5) | 2351x60x70 | 3,8 | 116 |
| Decor 2x180 N08 | 2x1x80 (G5) | 2951x60x70 | 4,8 | 170 |

3 in one (4426 mm) and 4 in one (5901 mm) versions are available on request

Options available on request:

DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 PULLSWITCH- Pull switch device

EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 STB- 5 way terminal block with two holes (for in and out going cable)
 MAT- Matted reflector (subject to minimum order)

PAR- Double parabolic reflector
 MRO- MIRO® reflector Deluxe (subject to minimum order)
 OP- Opal cover
 PRZ- Prismatic cover
 L- Designed for in-line connection without gap (for OP/PRZ versions)
 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- Painted RAL colour



DÉCOR 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. More information see on page 10.



ON: Auto
 OFF: Auto



15 min. → 20%
 30 sec. → Off



Bright
 out

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|------------------------|------------|------------------|
| Decor 114 P36 SENSE&SOLO | 1x14 (G5) | 876x60x70 | 1,5 | 15 |
| Decor 124 P37 SENSE&SOLO | 1x24 (G5) | 876x60x70 | 1,5 | 25 |
| Decor 128 P38 SENSE&SOLO | 1x28 (G5) | 1476x60x70 | 2,2 | 30 |
| Decor 135 P39 SENSE&SOLO | 1x35 (G5) | 1776x60x70 | 2,6 | 38 |
| Decor 149 P40 SENSE&SOLO | 1x49 (G5) | 1776x60x70 | 2,6 | 53 |
| Decor 154 P41 SENSE&SOLO | 1x54 (G5) | 1476x60x70 | 2,2 | 58 |
| Decor 180 P42 SENSE&SOLO | 1x80 (G5) | 1776x60x70 | 2,7 | 85 |



Décor fittings have been designed for connection in modern lighting systems with 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.

I-JOIN- "I" join element

T-JOIN- "T" join element



L-JOIN- "L" join element

X-JOIN- "X" join element

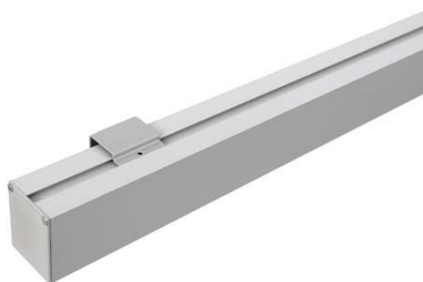


Fittings with 250mm closed profile from both ends are designed for connection into the lighting systems. Please add join elements ("I", "L", "T" or "X" type to the order).

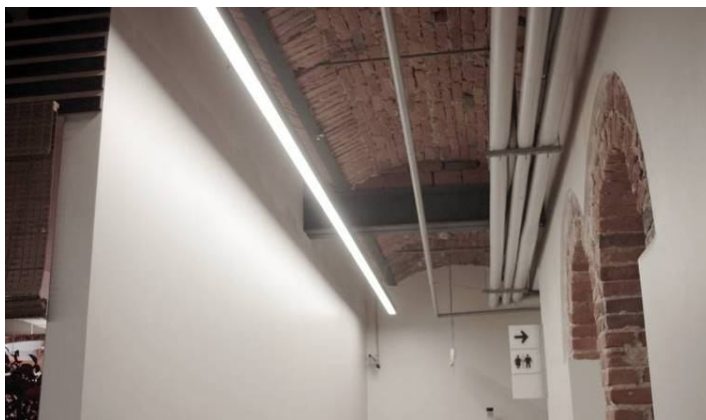
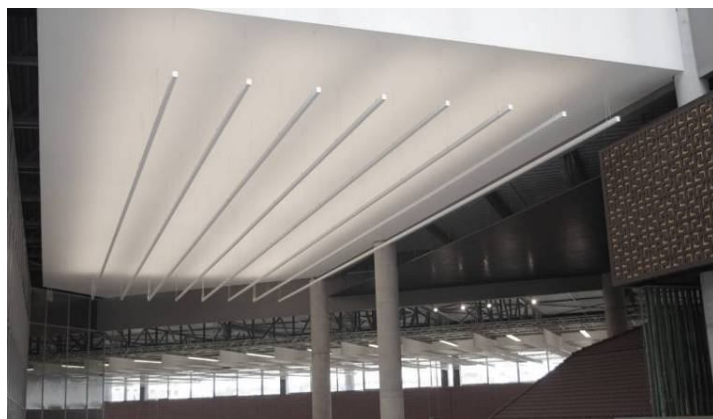
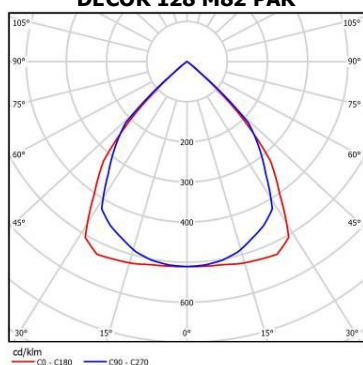
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Decor 114 P43 | 1x14 (G5) | 1070x60x70 | 1,2 | 15 |
| Decor 124 P44 | 1x24 (G5) | 1070x60x70 | 1,2 | 25 |
| Decor 128 P45 | 1x28 (G5) | 1670x60x70 | 1,9 | 30 |
| Decor 135 P46 | 1x35 (G5) | 1970x60x70 | 2,3 | 38 |
| Decor 149 P47 | 1x49 (G5) | 1970x60x70 | 2,3 | 53 |
| Decor 154 P48 | 1x54 (G5) | 1670x60x70 | 1,9 | 58 |
| Decor 180 P49 | 1x80 (G5) | 1970x60x70 | 2,4 | 85 |
| Decor 2x114 P50 | 2x1x14 (G5) | 1640x60x70 | 2,4 | 30 |
| Decor 2x124 P51 | 2x1x24 (G5) | 1640x60x70 | 2,4 | 50 |
| Decor 2x128 P52 | 2x1x28 (G5) | 2840x60x70 | 3,8 | 60 |
| Decor 2x135 P53 | 2x1x35 (G5) | 3440x60x70 | 4,6 | 76 |
| Decor 2x149 P54 | 2x1x49 (G5) | 3440x60x70 | 4,6 | 106 |
| Decor 2x154 P55 | 2x1x54 (G5) | 2840x60x70 | 3,8 | 116 |
| Decor 2x180 P56 | 2x1x80 (G5) | 3440x60x70 | 4,8 | 170 |
| DÉCOR I-JOIN | | 60x60x70 | 0,3 | |
| DÉCOR L-JOIN | | 60x60x70 | 0,3 | |
| DÉCOR T-JOIN | | 60x60x70 | 0,3 | |
| DÉCOR X-JOIN | | 60x60x70 | 0,3 | |

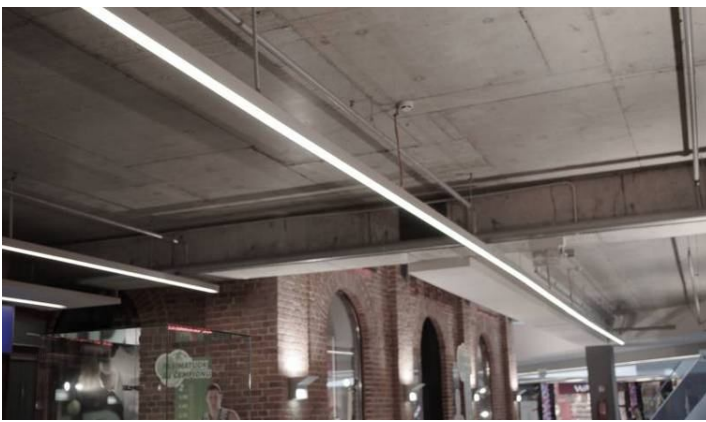
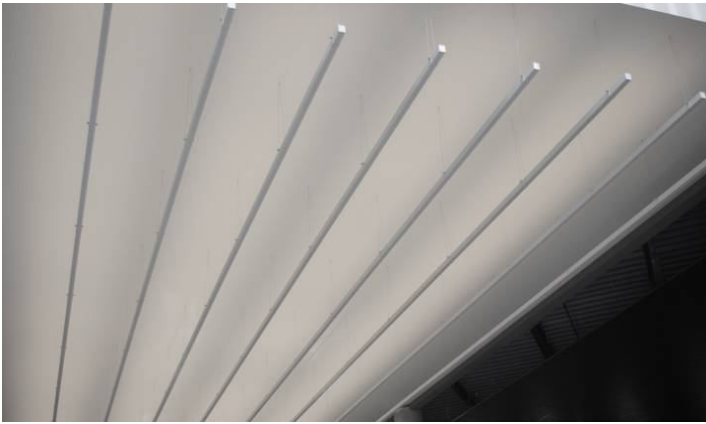


Brackets set (**DÉCOR WALL BR2**) for DÉCOR series mounting directly to the wall with up or down lighting.



DECOR 128 M82 PAR





DECOR D

Surface/Suspended Luminaire for in-line connection



Decor D 228 M89 OP



Decor D 228 M89 PRZ


| | |
|----------------|---|
| Type: | Surface or suspended mounted luminaire for in-line connection. |
| Specification: | PAR- double parabolic reflector made of mirror aluminum with four spring locks. Deluxe version louvres are manufactured using Alanod MIRO® aluminum with 95% reflectiveness. Body made from extruded aluminum profile powder painted in textured RAL 9006. Aluminum end caps fixed by two screws. Luminaire with an option "L" for in-line connection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. Wire suspension set available on request (see option list). |
| Application: | Office buildings, shops and other commercial environments. |




Wire suspension set (**SUS2**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information see in Option list.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Decor D 214 M87 | 2x14 (G5) | 576x110x70 | 1,40 | 31 |
| Decor D 224 M88 | 2x24 (G5) | 576x110x70 | 1,40 | 49 |
| Decor D 228 M89 | 2x28 (G5) | 1176x110x70 | 2,15 | 60 |
| Decor D 235 M90 | 2x35 (G5) | 1476x110x70 | 2,65 | 76 |
| Decor D 249 M91 | 2x49 (G5) | 1476x110x70 | 2,65 | 105 |
| Decor D 254 M92 | 2x54 (G5) | 1176x110x70 | 2,15 | 116 |
| Decor D 280 M93 | 2x80 (G5) | 1476x110x70 | 2,75 | 170 |
| Decor D 2x214 N09 | 2x2x14 (G5) | 1151x110x70 | 2,80 | 62 |
| Decor D 2x224 N10 | 2x2x24 (G5) | 1151x110x70 | 2,80 | 98 |
| Decor D 2x228 N11 | 2x2x28 (G5) | 2351x110x70 | 4,3 | 120 |
| Decor D 2x235 N12 | 2x2x35 (G5) | 2951x110x70 | 5,3 | 152 |
| Decor D 2x249 N13 | 2x2x49 (G5) | 2951x110x70 | 5,3 | 210 |
| Decor D 2x254 N14 | 2x2x54 (G5) | 2351x110x70 | 4,3 | 232 |
| Decor D 2x280 N15 | 2x2x80 (G5) | 2951x110x70 | 5,5 | 340 |


3 in one (4426 mm) and 4 in one (5901 mm) versions are available on request




DÉCOR 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 requirements. More information see on page 10.



ON: Auto
OFF: Auto



15 min. → 20%
30 sec. → Off



Bright out

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|------------------------|------------|------------------|
| Decor D 214 P29 SENSE&SOLO | 2x14 (G5) | 876x110x70 | 1,70 | 31 |
| Decor D 224 P30 SENSE&SOLO | 2x24 (G5) | 876x110x70 | 1,70 | 49 |
| Decor D 228 P31 SENSE&SOLO | 2x28 (G5) | 1476x110x70 | 2,45 | 60 |
| Decor D 235 P32 SENSE&SOLO | 2x35 (G5) | 1776x110x70 | 2,95 | 76 |
| Decor D 249 P33 SENSE&SOLO | 2x49 (G5) | 1776x110x70 | 2,95 | 105 |
| Decor D 254 P34 SENSE&SOLO | 2x54 (G5) | 1476x110x70 | 2,45 | 116 |
| Decor D 280 P35 SENSE&SOLO | 2x80 (G5) | 1776x110x70 | 3,05 | 170 |

Options available on request:

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

PULLSWITCH- Pull switch device

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

STB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

LG3-

LG3 option

PAR-

Double parabolic reflector

MRO-

MIRO® reflector Deluxe (subject to minimum order)

OP-

Opal cover

PRZ-

Prismatic cover

L-

Designed for in-line connection without gap (for OP/PRZ versions)

1LIN-

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

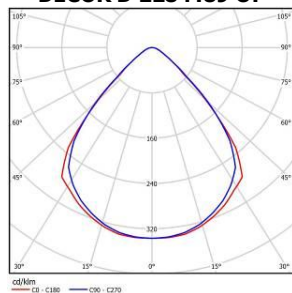
3LIN-

Through wiring 5x1.5 mm² with two push-in terminal blocks

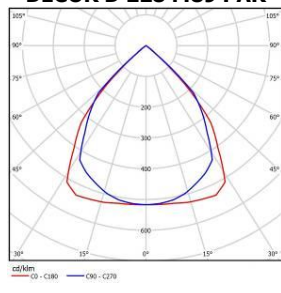
RAL-

Painted RAL colour

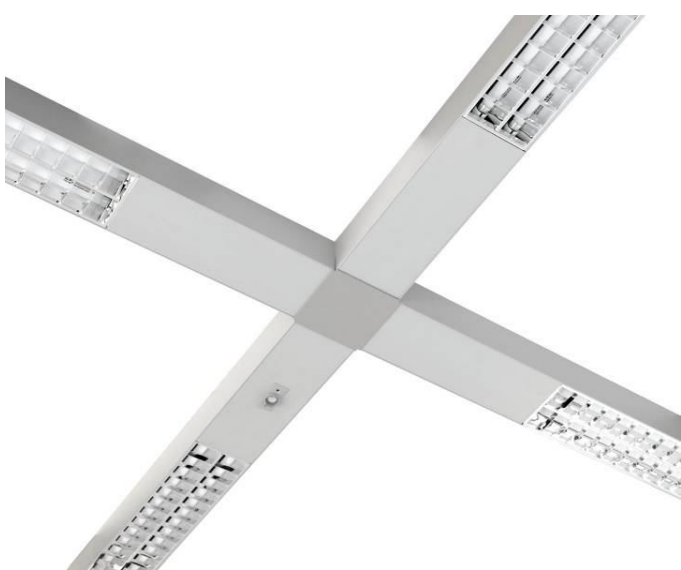
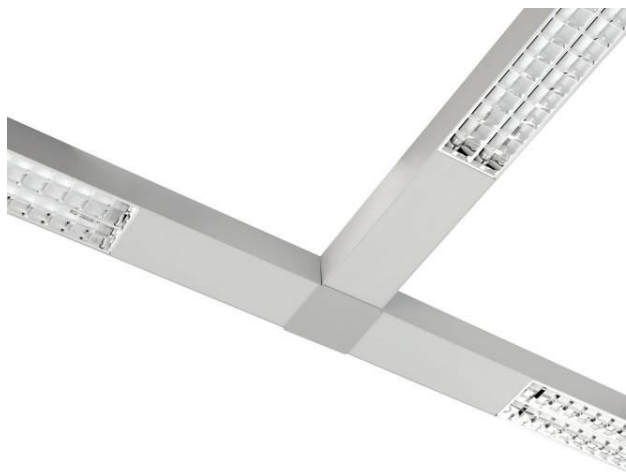
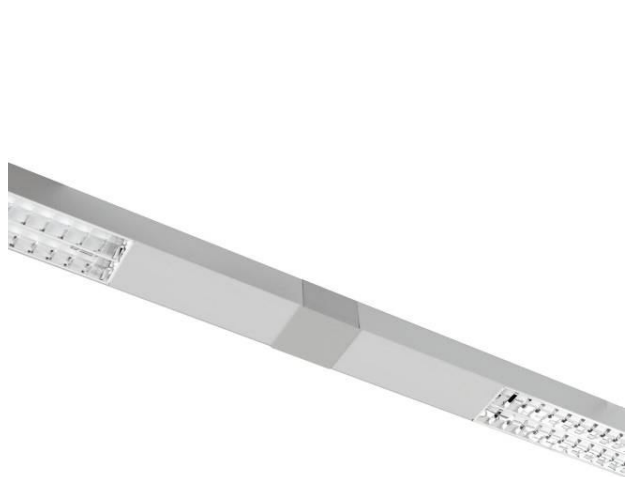
DECOR D 228 M89 OP



DECOR D 228 M89 PAR



Décor D fittings have been designed for connection in modern lighting systems with 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.



I-JOIN- "I" join element



T-JOIN- "T" join element



L-JOIN- "L" join element



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).

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

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

Options available on request:

DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast

PULLSWITCH- Pull switch device

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

LG3- LG3 option

PAR- Double parabolic reflector

MRO- MIRO® reflector Deluxe (subject to minimum order)

OP- Opal cover

PRZ- Prismatic cover

L- Designed for in-line connection without gap (for OP/PRZ versions)

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- Painted RAL colour

TUCANA

T5 Surface/ Suspended Double Parabolic Luminaire



| | |
|----------------|--|
| Type: | Suspended or surface T5 luminaire for maximum efficiency and quality of light. |
| Specification: | Double parabolic louvre made of mirror aluminum. The louvre is fitted into the body with six spring locks for maximum stability. Deluxe version louvres are manufactured using Alanod MIRO aluminum 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 ceilings of any type or suspended. |
| Application: | Office buildings, shops and other commercial environments. |



Wire suspension set (**SUS2**) and plastic cap with spiral cable (**CAPW**) are available on request. For more information see in Option list.



LG3 – Luminaire fit 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 see in Option list.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Tucana 128 J75 | 1x28 (G5) | 1265x175x55 | 3 | 30 |
| Tucana 228 J76 | 2x28 (G5) | 1265x175x55 | 3,1 | 60 |
| Tucana 135 J77 | 1x35 (G5) | 1565x175x55 | 3,7 | 38 |
| Tucana 235 J78 | 2x35 (G5) | 1565x175x55 | 3,8 | 75 |
| Tucana 149 J79 | 1x49 (G5) | 1565x175x55 | 3,7 | 53 |
| Tucana 249 J80 | 2x49 (G5) | 1565x175x55 | 3,8 | 104 |
| Tucana 154 J81 | 1x54 (G5) | 1265x175x55 | 3,0 | 58 |
| Tucana 254 J82 | 2x54 (G5) | 1265x175x55 | 3,1 | 115 |
| Tucana 180 J83 | 1x80 (G5) | 1565x175x55 | 3,8 | 85 |
| Tucana 280 J84 | 2x80 (G5) | 1565x175x55 | 3,9 | 170 |

Options available on request:

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

PULLSWITCH- Pull switch device

EMG- Emergency version 1 hour

EM2- Emergency version **2 hours**

EM3- Emergency version **3 hours**

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

MRO- MIRO® reflector Deluxe (subject to minimum order)

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- Painted RAL colour

LG3- LG3 option

SUS2- Suspension wires set (2 pcs)

CAPW- White suspension cap with spiral cable 3x1mm²



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. More information see on page 10.



ON: Auto
OFF: Auto



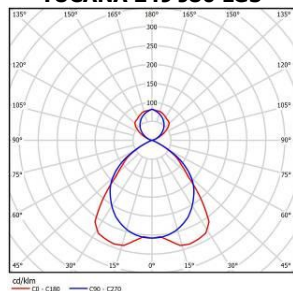
15 min. → 20%
30 sec. → Off



Bright
out

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|------------------------|------------|------------------|
| Tucana 128 J75 Sense&Solo | 1x28 (G5) | 1265x175x55 | 3 | 30 |
| Tucana 228 J76 Sense&Solo | 2x28 (G5) | 1265x175x55 | 3,1 | 60 |
| Tucana 135 J77 Sense&Solo | 1x35 (G5) | 1565x175x55 | 3,7 | 38 |
| Tucana 235 J78 Sense&Solo | 2x35 (G5) | 1565x175x55 | 3,8 | 75 |
| Tucana 149 J79 Sense&Solo | 1x49 (G5) | 1565x175x55 | 3,7 | 53 |
| Tucana 249 J80 Sense&Solo | 2x49 (G5) | 1565x175x55 | 3,8 | 104 |
| Tucana 154 J81 Sense&Solo | 1x54 (G5) | 1265x175x55 | 3,0 | 58 |
| Tucana 254 J82 Sense&Solo | 2x54 (G5) | 1265x175x55 | 3,1 | 115 |
| Tucana 180 J83 Sense&Solo | 1x80 (G5) | 1565x175x55 | 3,8 | 85 |
| Tucana 280 J84 Sense&Solo | 2x80 (G5) | 1565x175x55 | 3,9 | 170 |

TUCANA 249 J80 LG3





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.

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

Options available on request:

DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 PULLSWITCH- Pull switch device
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)
 MRO- MIRO® reflector Deluxe (subject to minimum order)
 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- Painted RAL colour
 LG3- LG3 option
 SUS2- Suspension wires set (2 pcs)
 CAPW- White suspension cap with spiral cable 3x1mm²



BATTENS

www.northcliffe.org

BORA

Slim T8 Batten
Luminaire



Bora 136 A73

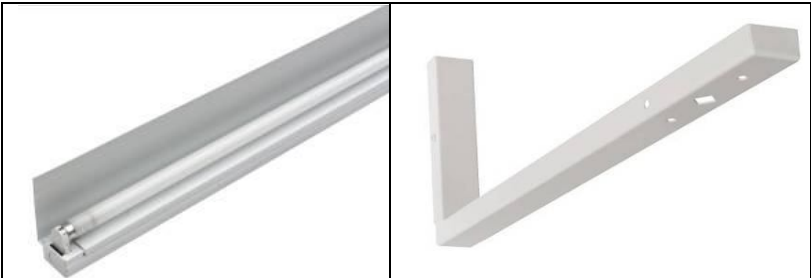


Bora 236 A77



Bora 136 A75

| | |
|----------------|--|
| Type: | Slim T8 fluorescent batten luminaire at competitive prices. Suitable for retail and commercial applications. |
| Specification: | White symmetrical and asymmetrical reflectors are available. Glossy aluminum reflector for Deluxe version. Body in white steel. Luminaire is plastic-wrapped and packaged in boxes (6-12 per box, depending on model). Reflectors are packaged separately. |
| Installation: | Designed to be fixed to ceilings of any type or suspended. |
| Application: | 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 poles type connectors are available on request. See Option list (***CBF3x1,5** ****CON3**), there:

*- length of the flexcable

**- M or F (M- mother type or F- father type connector)



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

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

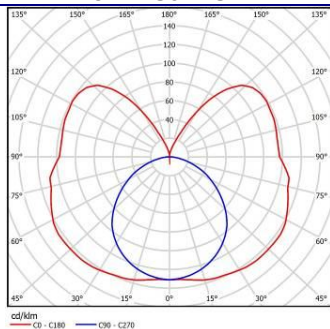
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|--------------------------------|---------------------|------------------------|------------|------------------|
| Bora 118 A68 Deluxe | Symmetrical aluminum reflector | 1x18 (G13) | 620x170x95 | 1,3 | 26 |
| Bora 136 A74 Deluxe | Symmetrical aluminum reflector | 1x36 (G13) | 1230x170x95 | 1,9 | 42 |
| Bora 158 A80 Deluxe | Symmetrical aluminum reflector | 1x58 (G13) | 1536x170x95 | 2,8 | 67 |
| Bora 218 A71 Deluxe | Symmetrical aluminum reflector | 2x18 (G13) | 620x170x95 | 1,3 | 42 |
| Bora 236 A77 Deluxe | Symmetrical aluminum reflector | 2x36 (G13) | 1230x170x95 | 2,7 | 84 |
| Bora 258 A83 Deluxe | Symmetrical aluminum reflector | 2x58 (G13) | 1536x170x95 | 4 | 134 |

Options available on request:

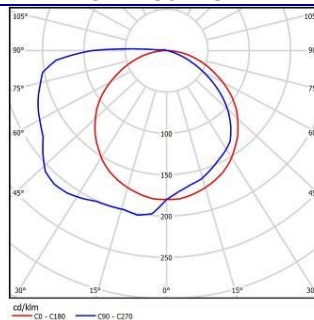
HF- High Frequency control gear
 DALI- DALI ballast
 SWITCHDIM- Switch DIM ballast
 DIM- Dimmable ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 Deluxe- Symmetrical aluminum reflector
 1LIN- Through wiring 3x1.5 mm² with two push-in terminals
 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- Painted in RAL color

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)
 NAC31S.W- ENSTO NET connector
 NAC32S.W- ENSTO NET connector
 NAC51S.W- ENSTO NET connector
 NAC52S.W- ENSTO NET connector
 **CON3/5- 3 or 5 poles connector (*- mother (M) and father (F) type)
 BR2- Set of wall mounting brackets (2 pcs)
 5TB- 5 way terminal block with two holes (for in and out going cable)
 WIE- 3- poles connector (subject to minimum order)
 NCP- Low Power Factor

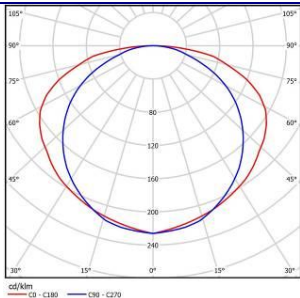
BORA 136 A73 HF



BORA 136 A75 HF

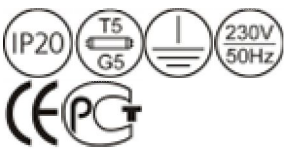


BORA 236 A77 DELUXE HF



ALCOR

Slim T5 Batten
Luminaire

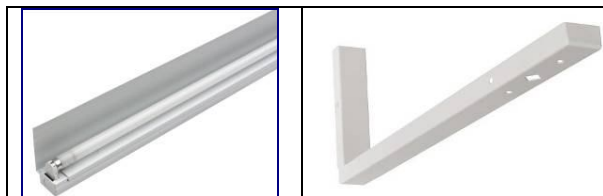


Alcor 128 A56



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 symmetrical and asymmetrical reflectors are available. Specular aluminum reflector for Deluxe version. Body in white steel. Luminaire is plastic-wrapped and packaged in boxes (6-12 per box, depending on model). Reflectors are packaged separately. |
| Installation: | Designed to be fixed to ceilings of any type or suspended. |
| Application: | Warehouses, factories, supermarkets, other commercial environments. |



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



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

*- length of the flexcable

** - M or F (M- mother type or F- father type connector)

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|------------------------------|---------------------|------------------------|------------|------------------|
| Alcor 114 B46 | No reflector | 1x14 (G5) | 575x45x64 | 0,5 | 16 |
| Alcor 114 B47 | Symmetrical white reflector | 1x14 (G5) | 575x137x79 | 1,1 | 16 |
| Alcor 114 B48 | Asymmetrical white reflector | 1x14 (G5) | 575x56x107 | 0,8 | 16 |
| Alcor 128 A55 | No reflector | 1x28 (G5) | 1175x45x64 | 0,9 | 30 |
| Alcor 128 A56 | Symmetrical white reflector | 1x28 (G5) | 1175x137x79 | 1,8 | 30 |
| Alcor 128 A57 | Asymmetrical white reflector | 1x28 (G5) | 1175x56x107 | 1,4 | 30 |
| Alcor 135 B09 | No reflector | 1x35 (G5) | 1470x45x64 | 1,1 | 38 |
| Alcor 135 B10 | Symmetrical white reflector | 1x35 (G5) | 1470x137x79 | 2,2 | 38 |
| Alcor 135 D24 | Asymmetrical white reflector | 1x35 (G5) | 1470x56x107 | 1,8 | 38 |
| Alcor 149 D25 | No reflector | 1x49 (G5) | 1470x45x64 | 1,1 | 53 |
| Alcor 149 D26 | Symmetrical white reflector | 1x49 (G5) | 1470x137x79 | 2,2 | 53 |
| Alcor 149 D27 | Asymmetrical white reflector | 1x49 (G5) | 1470x56x107 | 1,8 | 53 |
| Alcor 154 A61 | No reflector | 1x54 (G5) | 1175x45x64 | 0,9 | 58 |
| Alcor 154 A62 | Symmetrical white reflector | 1x54 (G5) | 1175x137x79 | 1,8 | 58 |
| Alcor 154 A63 | Asymmetrical white reflector | 1x54 (G5) | 1175x56x107 | 1,4 | 58 |
| Alcor 180 D28 | No reflector | 1x80 (G5) | 1470x45x64 | 1,1 | 85 |
| Alcor 180 D29 | Symmetrical white reflector | 1x80 (G5) | 1470x137x79 | 2,2 | 85 |
| Alcor 180 D30 | Asymmetrical white reflector | 1x80 (G5) | 1470x56x107 | 1,8 | 85 |
| Alcor 214 B49 | No reflector | 2x14 (G5) | 575x70x64 | 0,6 | 31 |
| Alcor 214 B50 | Symmetrical white reflector | 2x14 (G5) | 575x137x79 | 1,2 | 31 |
| Alcor 214 B51 | Asymmetrical white reflector | 2x14 (G5) | 575x115x107 | 0,9 | 31 |
| Alcor 228 A58 | No reflector | 2x28 (G5) | 1175x70x64 | 1 | 60 |
| Alcor 228 A59 | Symmetrical white reflector | 2x28 (G5) | 1175x137x79 | 1,9 | 60 |
| Alcor 228 A60 | Asymmetrical white reflector | 2x28 (G5) | 1175x115x107 | 1,5 | 60 |
| Alcor 235 D31 | No reflector | 2x35 (G5) | 1470x70x64 | 1,3 | 75 |
| Alcor 235 D32 | Symmetrical white reflector | 2x35 (G5) | 1470x137x79 | 2,4 | 75 |
| Alcor 235 D33 | Asymmetrical white reflector | 2x35 (G5) | 1470x115x107 | 2 | 75 |
| Alcor 249 D34 | No reflector | 2x49 (G5) | 1470x70x64 | 1,3 | 104 |
| Alcor 249 D35 | Symmetrical white reflector | 2x49 (G5) | 1470x137x79 | 2,4 | 104 |
| Alcor 249 D36 | Asymmetrical white reflector | 2x49 (G5) | 1470x115x107 | 2 | 104 |
| Alcor 254 A64 | No reflector | 2x54 (G5) | 1175x70x64 | 1 | 116 |
| Alcor 254 A65 | Symmetrical white reflector | 2x54 (G5) | 1175x137x79 | 1,9 | 116 |
| Alcor 254 A66 | Asymmetrical white reflector | 2x54 (G5) | 1175x115x107 | 1,5 | 116 |
| Alcor 280 D37 | No reflector | 2x80 (G5) | 1470x70x64 | 1,5 | 170 |
| Alcor 280 D38 | Symmetrical white reflector | 2x80 (G5) | 1470x137x79 | 2,6 | 170 |
| Alcor 280 D39 | Asymmetrical white reflector | 2x80 (G5) | 1470x115x107 | 2,2 | 170 |

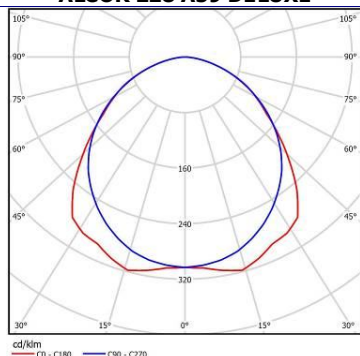
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------------|--------------------------------|---------------------|------------------------|------------|------------------|
| Alcor 114 B47 Deluxe | Symmetrical aluminum reflector | 1x14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

Options available on request:

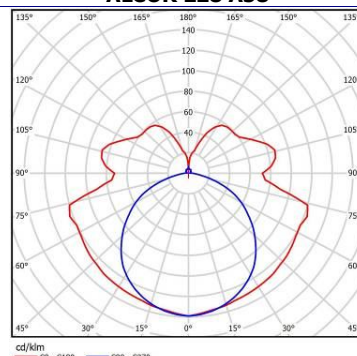
DALI- DALI ballast
 SWITCHDIM- Switch DIM ballast
 DIM- Dimmable ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 Deluxe- Symmetrical aluminum reflector
 1LIN- Through wiring 3x1.5 mm² with two push-in terminals
 3LIN- Through wiring 5x1.5 mm² with 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- Painted in RAL color

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)
 NAC31S.W- ENSTO NET connector
 NAC32S.W- ENSTO NET connector
 NAC51S.W- ENSTO NET connector
 NAC52S.W- ENSTO NET connector
 CON3/5- 3 or 5 poles connector (- mother (M) and father (F) type)
 BR2- Set of wall mounting brackets (2 pcs)
 5TB- 5 way terminal block with two holes (for in and out going cable)

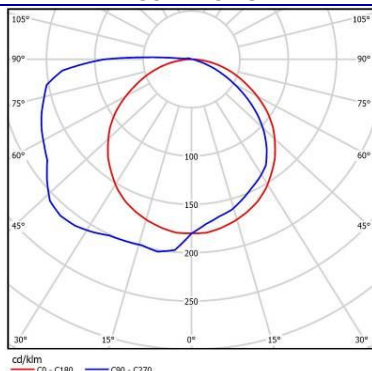
ALCOR 228 A59 DELUXE



ALCOR 228 A58



ALCOR 128 A57



HOLDER BR or BR2

for asymmetrical BORA &
ALCOR



| | |
|-----------------------|---|
| Type: | Universal holder for battens (Bora and Alcor type) with asymmetrical 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-** Wall mounting bracket 1 pcs (then sold separately)
BR2- Set of wall mounting brackets (2pcs)

ALCOR DELUXE

Double T5 Batten Luminaire with Adjustable Arm



| | |
|-----------------------|---|
| Type: | Double T5 batten luminaire with adjustable arm for mounting on MECA type profiles. |
| Specification: | Specular aluminum reflector. Body and adjustable arms in white steel. Luminaire body is plastic-wrapped and boxed individually. Reflectors are packaged separately (16 pcs per box). |
| Installation: | Designed to be mounted on MECA type profiles. |
| Application: | Warehouses, factories, supermarkets, other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Alcor 2x228 K18 Deluxe | 2x2x28 (G5) | 3000-2450x146x76 | 5,8 | 120 |
| Alcor 2x254 K19 Deluxe | 2x2x54 (G5) | 3000-2450x146x76 | 5,8 | 232 |
| Alcor 2x235 K20 Deluxe | 2x2x35 (G5) | 3600-3050x146x76 | 6,8 | 150 |
| Alcor 2x249 K21 Deluxe | 2x2x49 (G5) | 3600-3050x146x76 | 6,8 | 208 |

Options available on request:

DALI- DALI ballast
 SWITCHDIM- Switch DIM ballast
 DIM- Dimmable ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version **2 hours**
 EM3- Emergency version **3 hours**
 Deluxe- Symmetrical aluminum 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

CBF3x1,5- Outgoing flex cable 3x1,5mm² ready for connection (-length, m)
 CBF5x1,5- Outgoing flex cable 5x1,5mm² ready for connection (-length, m)
 CBF3x2,5- Outgoing flex cable 3x2,5mm² ready for connection (-length, m)
 CBF5x2,5- Outgoing flex cable 5x2,5mm² ready for connection (-length, m)
 NAC31S.W- ENSTO NET connector
 NAC32S.W- ENSTO NET connector
 NAC51S.W- ENSTO NET connector
 NAC52S.W- ENSTO NET connector
 CON3/5- 3 or 5 poles connector (- mother (M) and father (F) type)
 5TB- 5 way terminal block with two holes (for in and out going cable)

SHOP

T5 Batten Luminaire for in-line connection



| | |
|-----------------------|---|
| Type: | T5 batten luminaire for in-line connection. |
| Specification: | Specular aluminum reflector. Body made of extruded aluminum profile powder painted in textured RAL 9006. Aluminum end caps fixed by two screws. Luminaire with an option "L" for in-line connection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. Wire suspension set available on request (see option list). |
| Application: | Warehouses, factories, supermarkets, other commercial environments. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Shop 114 N43 | 1x14 (G5) | 576x110x70 | 1,40 | 15 |
| Shop 124 N44 | 1x24 (G5) | 576x110x70 | 1,40 | 25 |
| Shop 128 N45 | 1x28 (G5) | 1176x110x70 | 2,15 | 30 |
| Shop 135 N46 | 1x35 (G5) | 1476x110x70 | 2,65 | 38 |
| Shop 149 N47 | 1x49 (G5) | 1476x110x70 | 2,65 | 53 |
| Shop 154 N48 | 1x54 (G5) | 1176x110x70 | 2,15 | 58 |
| Shop 180 N49 | 1x80 (G5) | 1476x110x70 | 2,75 | 85 |
| Shop 2x114 N50 | 2x1x14 (G5) | 1151x110x70 | 2,80 | 30 |
| Shop 2x124 N51 | 2x1x24 (G5) | 1151x110x70 | 2,80 | 50 |
| Shop 2x128 N52 | 2x1x28 (G5) | 2351x110x70 | 4,3 | 60 |
| Shop 2x135 N53 | 2x1x35 (G5) | 2951x110x70 | 5,3 | 76 |
| Shop 2x149 N54 | 2x1x49 (G5) | 2951x110x70 | 5,3 | 106 |
| Shop 2x154 N55 | 2x1x54 (G5) | 2351x110x70 | 4,3 | 116 |
| Shop 2x180 N56 | 2x1x80 (G5) | 2951x110x70 | 5,5 | 170 |
| Shop 214 N29 | 2x14 (G5) | 576x110x70 | 1,40 | 31 |
| Shop 224 N30 | 2x24 (G5) | 576x110x70 | 1,40 | 49 |
| Shop 228 N31 | 2x28 (G5) | 1176x110x70 | 2,15 | 60 |
| Shop 235 N32 | 2x35 (G5) | 1476x110x70 | 2,65 | 76 |
| Shop 249 N33 | 2x49 (G5) | 1476x110x70 | 2,65 | 105 |
| Shop 254 N34 | 2x54 (G5) | 1176x110x70 | 2,15 | 116 |
| Shop 280 N35 | 2x80 (G5) | 1476x110x70 | 2,75 | 170 |
| Shop 2x214 N36 | 2x2x14 (G5) | 1151x110x70 | 2,80 | 62 |
| Shop 2x224 N37 | 2x2x24 (G5) | 1151x110x70 | 2,80 | 98 |
| Shop 2x228 N38 | 2x2x28 (G5) | 2351x110x70 | 4,3 | 120 |
| Shop 2x235 N39 | 2x2x35 (G5) | 2951x110x70 | 5,3 | 152 |
| Shop 2x249 N40 | 2x2x49 (G5) | 2951x110x70 | 5,3 | 210 |
| Shop 2x254 N41 | 2x2x54 (G5) | 2351x110x70 | 4,3 | 232 |
| Shop 2x280 N42 | 2x2x80 (G5) | 2951x110x70 | 5,5 | 340 |

3 in one (4426 mm) and 4 in one (5901 mm) versions are available **on request**

Options available on request:

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block with two holes (for in and out going cable)

MAT- Matted reflector (subject to minimum order)

PAR- Double parabolic reflector

MRO- MIRO® reflector Deluxe (subject to minimum order)

L- Designed for in-line connecting without gap

1LIN- Through wiring 3x1.5 mm² with two push-in terminals

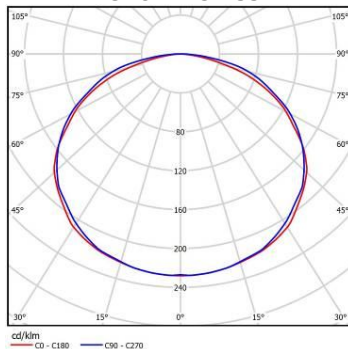
3LIN- Through wiring 5x1.5 mm² with two push-in terminals

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- Painted RAL colour

SHOP 249 N33



Negara T8

IP65 Batten for humid&dusty rooms



Negara 158 H05

| | |
|-----------------------|--|
| Type: | Water and dust resistant IP 65 batten type luminaire for use in adverse conditions. |
| Specification: | Injection molded glass fiber reinforced housing and cover with quick locking system. Grey finished. Luminaire can be fitted with white painted steel reflector and protection tubes on request (see Option list). Starters are accessible from outside. Luminaire is boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. |
| Application: | Suitable for farms and other aggressive atmospheres with salts, acids and mineral oils. |

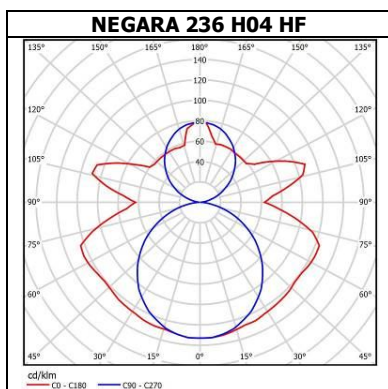
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Negara 118 H01 | 1x18 (G13) | 661x66x115 | 1,25 | 26 |
| Negara 218 H02 | 2x18 (G13) | 661x117x115 | 1,35 | 42 |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

| Type | Lamp (W) and socket | Overall dimensions, 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 135 L85 | 1x35 (G5) | 1571x66x115 | 2,1 | 38 |
| Negara 149 L86 | 1x49 (G5) | 1571x66x115 | 2,1 | 53 |
| Negara 154 L87 | 1x54 (G5) | 1271x66x115 | 1,7 | 58 |
| 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 235 L92 | 2x35 (G5) | 1571x117x115 | 2,2 | 75 |
| Negara 249 L93 | 2x49 (G5) | 1571x117x115 | 2,2 | 104 |
| Negara 254 L94 | 2x54 (G5) | 1271x117x115 | 1,8 | 116 |
| Negara 280 L95 | 2x80 (G5) | 1571x117x115 | 2,2 | 170 |

Options available on request:

DALI- DALI ballast
 SWITCHDIM- Switch DIM ballast
 DIM- Dimmable ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 TUBE- PMMA protection tube
 RFL- White symmetrical reflector
 SPORT- White painted protection grid

5TB- 5 way terminal block with two holes
 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
 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)



PLASTIC LIGHTS

www.northcliffe.org

PUPIS

IP54 Oval Luminaire



Pupis 1E27 J45 GST

Type: Surface-mounted luminaire with oval profile.

Specification: Transparent glass IP54 diffuser with screw lock.
Grey thermoplastic body with protection grid. Aluminum reflector.
GST version with chrome plated steel grid.
Luminaire is boxed 12 pcs/box.

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------|------------------------|------------|------------------|
| Pupis 1E27 J45 | max.60W (E27) | IP54 | 170x125x115 | 0,4 | - |
| Pupis 1E27 J45 GST | max.60W (E27) | IP54 | 170x125x115 | 0,4 | - |

Options available on request:
GST- Chrome plated steel grid

SAUNA R OP

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. Aluminum reflector. Luminaire is boxed 5 pcs/box.

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

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

| Type | Description | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|-------------|---------------------|----------|------------------------|------------|------------------|
| Sauna RO 1E27 N21 OP | Round | max.100W (E27) | IP54 | Ø245x105 | 0,95 | - |
| Sauna RO 1E27 N21 GST OP | Round | max.100W (E27) | IP54 | Ø245x105 | 0,95 | - |
| Sauna OV 1E27 N22 GST | Oval | max.100W (E27) | IP54 | 135x195x115 | 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

CIRCUS CAP CLR or OP

IP44 Rounded Profile Luminaire



Circus 1E27 J49 CAP OP



Circus 1E27 J49 CAP CLR

Type: Surface-mounted fluorescent luminaire with rounded profile.

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

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

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

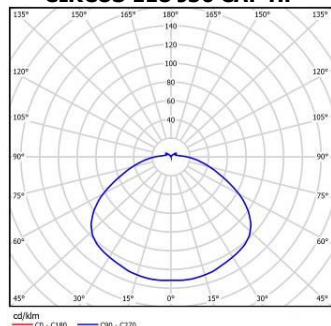
| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|----------|------------------------|------------|------------------|
| Circus 1E27 J49 CAP CLR | max. 100W (E27) | IP44 | Ø245x105 | 0,95 | - |
| Circus 209 M20 CAP CLR | 2x9 (TC-S, G23) | IP44 | Ø245x105 | 1,4 | 32 |
| Circus 113 J53 CAP CLR | 1x13 (G24d-1) | IP44 | Ø245x105 | 1,4 | 19 |
| Circus 118 J50 CAP CLR | 1x18 (G24d-2) | IP44 | Ø245x105 | 1,45 | 26 |
| Circus 126 J51 CAP CLR | 1x26 (G24d-3) | IP44 | Ø245x105 | 1,5 | 34 |
| Circus 1E27 J49 CAP OP | max. 100W (E27) | IP44 | Ø245x105 | 0,95 | - |
| Circus 209 M20 CAP OP | 2x9 (TC-S, G23) | IP44 | Ø245x105 | 1,4 | 32 |
| Circus 113 J53 CAP OP | 1x13 (G24d-1) | IP44 | Ø245x105 | 1,4 | 19 |
| Circus 118 J50 CAP OP | 1x18 (G24d-2) | IP44 | Ø245x105 | 1,45 | 26 |
| Circus 126 J51 CAP OP | 1x26 (G24d-3) | IP44 | Ø245x105 | 1,5 | 34 |
| Circus 114 P86 OP HF | 1x14 (GR14Q-1) | IP44 | Ø245x105 | 1,5 | 17 |
| Circus 116 P83 CAP OP HF | 1x16 (GR10Q) | IP44 | Ø245x105 | 1,45 | 17 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
DALI- DALI ballast
OP- Frosted glass diffuser

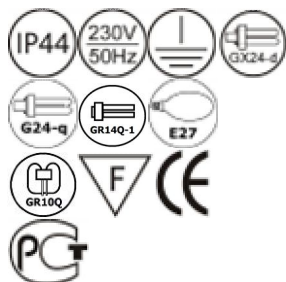
CLR- Clear glass diffuser
PIR- PIR sensor
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor

CIRCUS 118 J50 CAP HF



CIRCUS OP or CLR

IP44 Rounded Profile Luminaire



Circus 1E27 J49 OP

Circus 1E27 J49 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 boxed 5 pcs/box.

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------|------------------------|------------|------------------|
| Circus 1E27 J49 CLR | max. 100W (E27) | IP44 | Ø245x95 | 0,8 | - |
| Circus 209 M20 CLR | 2x9 (TC-S, G23) | IP44 | Ø245x95 | 1,2 | 32 |
| Circus 113 J53 CLR | 1x13 (G24d-1) | IP44 | Ø245x95 | 1,2 | 19 |
| Circus 118 J50 CLR | 1x18 (G24d-2) | IP44 | Ø245x95 | 1,25 | 26 |
| Circus 1E27 J49 OP | max. 100W (E27) | IP44 | Ø245x95 | 0,8 | - |
| Circus 209 M20 OP | 2x9 (TC-S, G23) | IP44 | Ø245x95 | 1,2 | 32 |
| Circus 113 J53 OP | 1x13 (G24d-1) | IP44 | Ø245x95 | 1,2 | 19 |
| Circus 118 J50 OP | 1x18 (G24d-2) | IP44 | Ø245x95 | 1,25 | 26 |
| Circus 126 J51 OP | 1x26 (G24d-3) | IP44 | Ø245x95 | 1,3 | 34 |
| Circus 114 P86 OP HF | 1x14 (GR14Q-1) | IP44 | Ø245x95 | 1,3 | 17 |
| Circus 116 P83 OP HF | 1x16 (GR10Q) | IP44 | Ø245x95 | 1,25 | 17 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
DALI- DALI ballast
OP- Frosted glass diffuser

CLR- Clear glass diffuser
PIR- PIR sensor
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor

CETUS CAP CLR or OP

IP44 Rounded Profile Luminaire



Cetus 1E27 J46 CAP OP



Cetus 1E27 J46 CAP 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 boxed 5 pcs/box.

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|----------|------------------------|------------|------------------|
| Cetus 1E27 J46 CAP CLR | max. 100W (E27) | IP44 | Ø245x95 | 0,9 | - |
| Cetus 209 M21 CAP CLR | 2x9 (TC-S, G23) | IP44 | Ø245x95 | 1,35 | 32 |
| Cetus 113 J52 CAP CLR | 1x13 (G24d-1) | IP44 | Ø245x95 | 1,35 | 19 |
| Cetus 118 J47 CAP CLR | 1x18 (G24d-2) | IP44 | Ø245x95 | 1,4 | 26 |
| Cetus 1E27 J46 CAP OP | max. 100W (E27) | IP44 | Ø245x95 | 0,9 | - |
| Cetus 209 M21 CAP OP | 2x9 (TC-S, G23) | IP44 | Ø245x95 | 1,35 | 32 |
| Cetus 113 J52 CAP OP | 1x13 (G24d-1) | IP44 | Ø245x95 | 1,35 | 19 |
| Cetus 118 J47 CAP OP | 1x18 (G24d-2) | IP44 | Ø245x95 | 1,4 | 26 |
| Cetus 126 J48 CAP OP | 1x26 (G24d-3) | IP44 | Ø245x95 | 1,45 | 34 |
| Cetus 114 P87 CAP OP HF | 1x14 (GR14Q-1) | IP44 | Ø245x95 | 1,4 | 17 |
| Cetus 116 P84 CAP OP HF | 1x16 (GR10Q) | IP44 | Ø245x95 | 1,4 | 17 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
DALI- DALI ballast
OP- Frosted glass diffuser

CLR- Clear glass diffuser
PIR- PIR sensor
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Cetus LED B108 950lm T830 CAP OP | Ø245x95 | 950 | 3000 | >80 | 11 | 1 |
| Cetus LED B108 950lm T840 CAP OP | Ø245x95 | 950 | 4000 | >80 | 11 | 1 |
| Cetus LED B108 1000lm T857 CAP OP | Ø245x95 | 1000 | 5700 | >80 | 11 | 1 |

CETUS OP or CLR

IP44 Rounded Profile Luminaire



Cetus 1E27 J46 OP



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 boxed 5 pcs/box.

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, 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 1E27 J46 OP | max. 100W (E27) | IP44 | Ø245x85 | 0,75 | - |
| Cetus 209 M21 OP | 2x9 (TC-S, G23) | IP44 | Ø245x85 | 1,15 | 32 |
| Cetus 113 J52 OP | 1x13 (G24d-1) | IP44 | Ø245x85 | 1,15 | 19 |
| Cetus 118 J47 OP | 1x18 (G24d-2) | IP44 | Ø245x85 | 1,2 | 26 |
| Cetus 126 J48 OP | 1x26 (G24d-3) | IP44 | Ø245x85 | 1,25 | 34 |
| Cetus 114 P87 | 1x14 (GR14Q-1) | IP44 | Ø245x85 | 1,25 | 17 |
| Cetus 116 P84 OP HF | 1x16 (GR10Q) | IP44 | Ø245x85 | 1,2 | 17 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
DALI- DALI ballast
OP- Frosted glass diffuser

CLR- Clear glass diffuser
PIR- PIR sensor
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Cetus LED B108 950lm T830 OP | Ø245x85 | 950 | 3000 | >80 | 11 | 1,1 |
| Cetus LED B108 950lm T840 OP | Ø245x85 | 950 | 4000 | >80 | 11 | 1,1 |
| Cetus LED B108 1000lm T857 OP | Ø245x85 | 1000 | 5700 | >80 | 11 | 1,1 |

MUSCA

IP44 Luminaire with Decorative Cover



| | |
|-----------------------|--|
| Type: | Wall-mounted fluorescent luminaire with decorative cover. |
| Specification: | Frosted glass IP44 diffuser with quick fix lock. White thermoplastic body with decorative cover. Aluminum reflector. Luminaire is boxed 7 pcs/box. |
| Installation: | Designed to be fixed onto walls. |
| Application: | Ideal for corridors. |

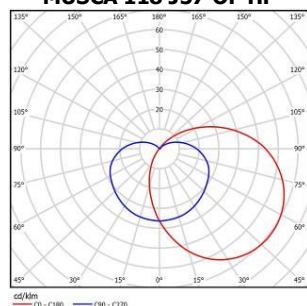
| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|----------|------------------------|------------|------------------|
| Musca 1E27 J55 OP | max. 100W (E27) | IP44 | Ø245x90 | 0,8 | max. 100W |
| Musca 209 M22 OP | 2x9 (TC-S, G23) | IP44 | Ø245x90 | 1,2 | 32 |
| Musca 113 J56 OP | 1x13 (G24d-1) | IP44 | Ø245x90 | 1,2 | 19 |
| Musca 118 J57 OP | 1x18 (G24d-2) | IP44 | Ø245x90 | 1,25 | 26 |
| Musca 126 J58 OP | 1x26 (G24d-3) | IP44 | Ø245x90 | 1,3 | 34 |
| Musca 114 P85 OP HF | 1x14 (GR14Q-1) | IP44 | Ø245x90 | 1,3 | 17 |
| Musca 116 P82 OP HF | 1x16 (GR10Q) | IP44 | Ø245x90 | 1,25 | 17 |

Options available on request:

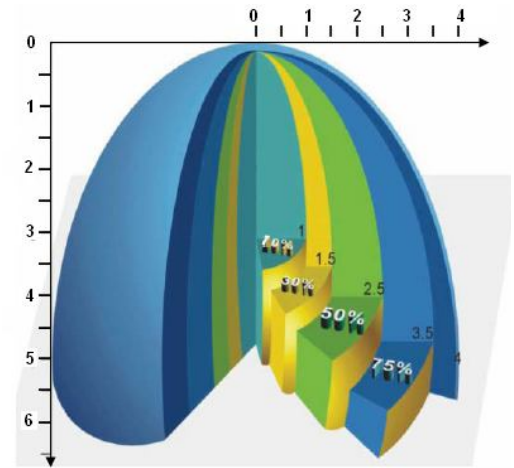
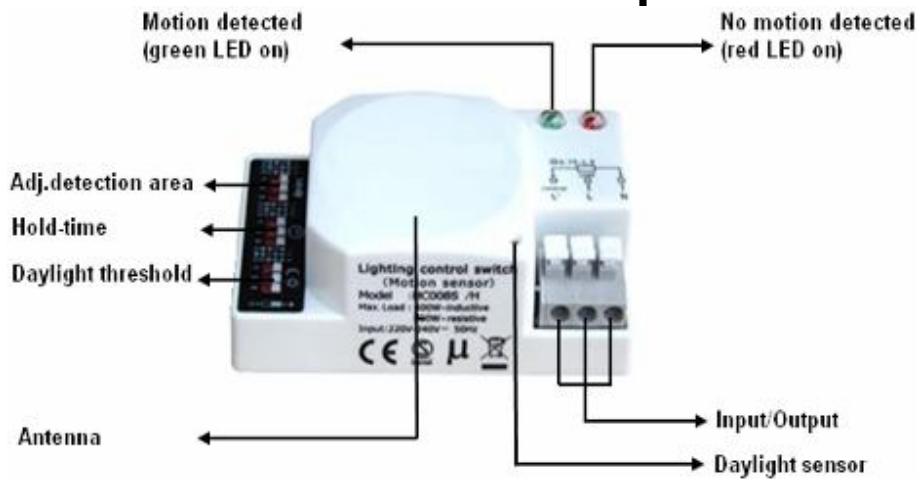
| | | | |
|-------|-----------------------------|------|---|
| HF- | High Frequency control gear | CLR- | Clear glass diffuser |
| DIM- | Dimmable ballast | PIR- | PIR sensor |
| DALI- | DALI ballast | 5TB- | 5 way terminal block for loop feed and ease of wiring |
| OP- | Frosted glass diffuser | NCP- | Low Power Factor |

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Musca LED B180 950lm T830 OP | Ø245x90 | 950 | 3000 | >80 | 11 | 1 |
| Musca LED B180 950lm T840 OP | Ø245x90 | 950 | 4000 | >80 | 11 | 1 |
| Musca LED B180 1000lm T857 OP | Ø245x90 | 1000 | 5700 | >80 | 11 | 1 |

MUSCA 118 J57 OP HF



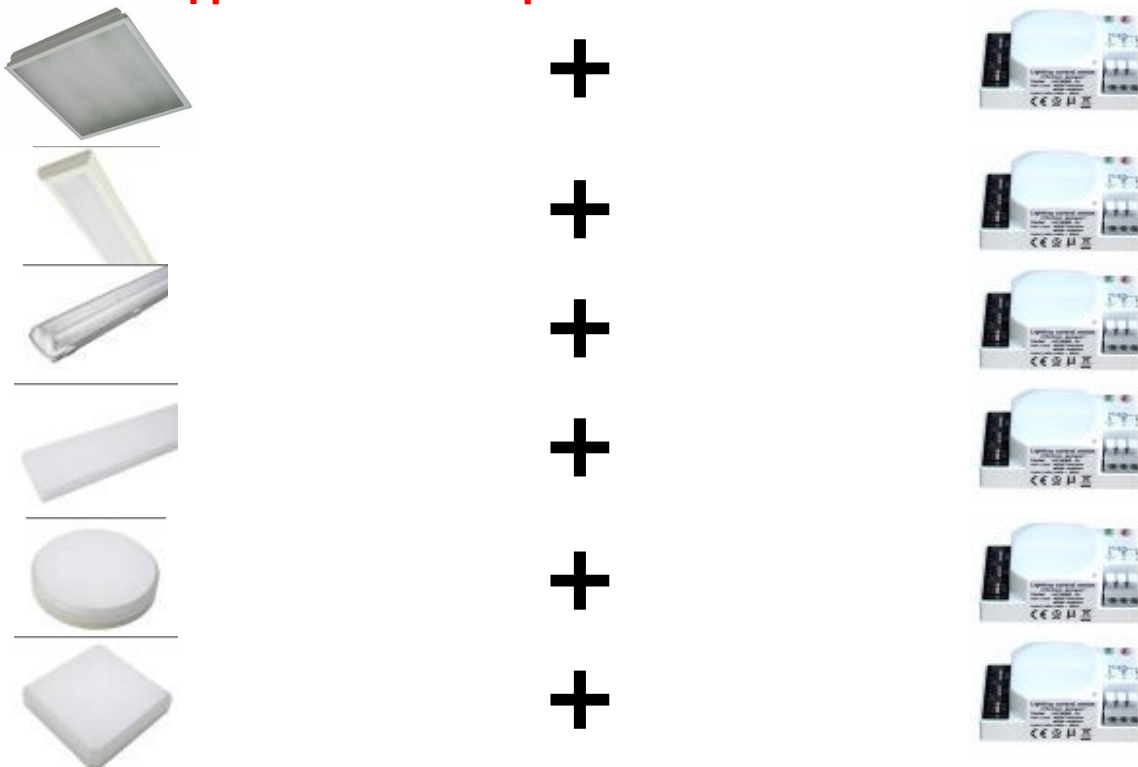
PIR (Economy version) sensor can be mounted in any luminaire with a plastic diffuser



Economy version is simplified economy model designed to be built into lighting fixtures for indoor use

- Ambient temperature $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Max mounting height 5m
- Compact size
- 50 000 service hours

Applications with a plastic diffuser luminaires



PIR fittings illustrations



Slim indoor use fitting INDUS equipped with PIR sensor



IP 66 indoor/outdoor use fitting BARAT equipped with PIR sensor

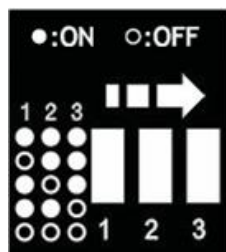
Functions and options

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 for one sensor.

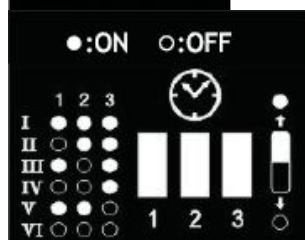
B: detection area

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



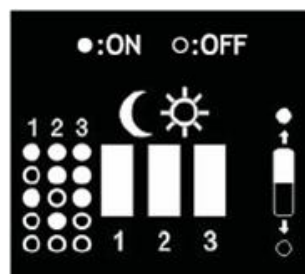
C: hold-time

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 certain brightness threshold.



| | 1 | 2 | 3 | |
|-----|---|---|---|------|
| I | ● | ● | ● | 100% |
| II | ○ | ● | ● | 75% |
| III | ● | ○ | ● | 50% |
| IV | ● | ● | ○ | 30% |
| V | ○ | ○ | ○ | 10% |

| | 1 | 2 | 3 | |
|-----|---|---|---|-------|
| I | ● | ● | ● | 5s |
| II | ○ | ● | ● | 30s |
| III | ● | ○ | ● | 3min. |
| IV | ○ | ○ | ● | 5min. |
| V | ● | ● | ○ | 15min |
| VI | ○ | ○ | ○ | 25min |

| | 1 | 2 | 3 | |
|-----|---|---|---|---------|
| I | ● | ● | ● | 2Lux |
| II | ○ | ● | ● | 5Lux |
| III | ● | ○ | ● | 20Lux |
| IV | ○ | ● | ○ | 30Lux |
| V | ○ | ○ | ○ | Disable |

****Disabled**** means sensor will work even in bright daylight

PIR IP65 sensor enclosure can be used with high mounted luminaires



PIR IP65 sensor enclosure (PIR BOX) could be used for PIR and PIR 20 sensors, where IP protection is needed. PIR 20 together with IP65 PIR 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



Type: Surface-mounted fluorescent luminaire with rounded profile.

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

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, 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 114 P91 HF | 1x14 (GR14Q-1) | IP40 | Ø275x105 | 0,9 | 17 |
| Pavo 117 P92 HF | 1x17 (GR14Q-1) | IP40 | Ø275x105 | 0,9 | 19 |
| 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 214 P93 HF | 2x14 (GR14Q-1) | IP40 | Ø375x115 | 1,1 | 33 |
| Pavo 217 P94 HF | 2x17 (GR14Q-1) | IP40 | Ø375x115 | 1,1 | 40 |
| 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 |
| Pavo 242 O50 HF | 2x42 (G24q-4) | IP40 | Ø475x125 | 1,5 | 85 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
PIR- PIR sensor

INDUS

IP54 Plastic Luminaire



Type: Surface-mounted fluorescent luminaire with rounded profile.

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

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------|------------------------|------------|------------------|
| Indus 1E27 M23 | max. 100W (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 114 P97 HF | 1x14 (GR14Q-1) | IP54 | Ø300x120 | 0,95 | 17 |
| Indus 117 P98 HF | 1x17 (GR14Q-1) | IP54 | Ø300x120 | 0,95 | 19 |
| Indus 214 P99 HF | 2x14 (GR14Q-1) | IP54 | Ø300x120 | 1 | 33 |
| Indus 116 P95 HF | 1x16 (GR10Q) | IP54 | Ø300x120 | 0,95 | 17 |
| Indus 128 P96 HF | 1x28 (GR10Q) | IP54 | Ø300x120 | 1 | 29 |

Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast
EMG- Emergency version 1 hour

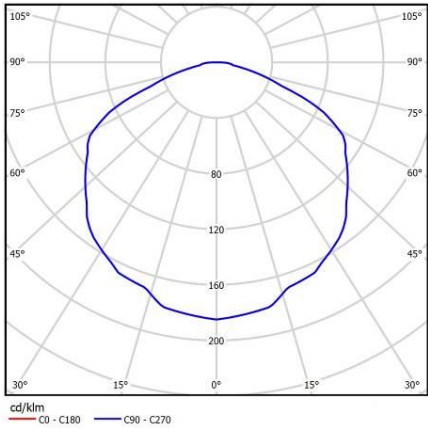
EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
PIR- PIR sensor



INDUS LED B184 950LM T840 PIR

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|--------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Indus LED B183 950lm T840 | Ø300x120 | 950 | 4000 | >80 | 11 | 0,9 |
| Indus LED B183 1000lm T857 | Ø300x120 | 1000 | 5700 | >80 | 11 | 0,9 |
| Indus LED B184 950lm T840 PIR | Ø300x120 | 950 | 4000 | >80 | 11 | 0,9 |
| Indus LED B184 1000lm T857 PIR | Ø300x120 | 1000 | 5700 | >80 | 11 | 0,9 |

INDUS LED B183 950LM T840



COLUMBA

IP65 Plastic Luminaire



Type: Surface-mounted fluorescent luminaire with rounded profile.

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

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, 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 114 Q01 HF | 1x14 (GR14Q-1) | IP65 | Ø335x130 | 1,2 | 17 |
| Columba 117 Q02 HF | 1x17 (GR14Q-1) | IP65 | Ø335x130 | 1,2 | 19 |
| Columba 214 Q03 HF | 2x14 (GR14Q-1) | IP65 | Ø335x130 | 1,25 | 33 |
| Columba 217 Q04 HF | 2x17 (GR14Q-1) | IP65 | Ø335x130 | 1,25 | 40 |
| 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 |

Options available on request:

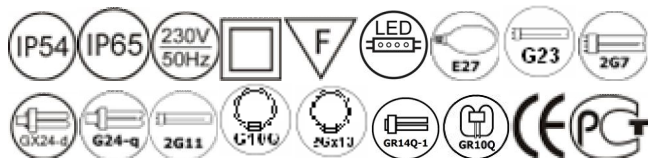
HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
PIR- PIR sensor

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Columba LED B185 950lm T840 | Ø335x130 | 950 | 4000 | >80 | 11 | 1,1 |
| Columba LED B185 1000lm T857 | Ø335x130 | 1000 | 5700 | >80 | 11 | 1,1 |
| Columba LED B185 950lm T840 PIR | Ø335x130 | 950 | 4000 | >80 | 11 | 1,1 |
| Columba LED B185 1000lm T857 PIR | Ø335x130 | 1000 | 5700 | >80 | 11 | 1,1 |

DORADO

IP54/65 Square Luminaire



Type: Surface-mounted square fluorescent luminaire with slim profile.

Specification: Durable opal PMMA diffuser with outstanding resistance to chemical influences.
White polycarbonate body. Sealing gasket in IP65 version.
Luminaire is boxed individually.

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

Application: Ideal for common areas in hospitals, swimming pools, bathrooms and etc.

| Type | Lamp (W) and socket | IP level | Overall dimensions, 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) | IP65 | 300x300x83 | 1,6 | - |
| Dorado B 211 H29 | 2x11 (TC-S, G23) | IP65 | 300x300x83 | 2 | 36 |
| Dorado B 218 H30 | 2x18 (TC-L, 2G11) | IP65 | 300x300x83 | 2 | 52 |
| Dorado B 122 H31 | 1x22 (T9 C, G10Q) | IP65 | 300x300x83 | 2 | 30 |
| Dorado B 211 H32 HF | 2x11 (TC-SE, 2G7) | IP65 | 300x300x83 | 1,7 | 20 |
| Dorado B 218 H33 HF | 2x18 (TC-L, 2G11) | IP65 | 300x300x83 | 1,7 | 28 |
| Dorado B 122 H34 HF | 1x22 (T5 FC, 2Gx13) | IP65 | 300x300x83 | 1,7 | 25 |
| Dorado B 218 Q11 | 2x18 (G24d-2) | IP65 | 300x300x83 | 2 | 52 |
| Dorado B 226 M61 | 2x26 (G24d-3) | IP65 | 300x300x83 | 2,2 | 68 |
| Dorado B 214 Q12 HF | 2x14 (GR14Q-1) | IP65 | 300x300x83 | 1,7 | 33 |
| Dorado B 217 Q13 HF | 2x17 (GR14Q-1) | IP65 | 300x300x83 | 1,7 | 40 |
| Dorado B 128 Q09 HF | 1x28 (GR10Q) | IP65 | 300x300x83 | 1,7 | 29 |
| Dorado B 138 Q10 HF | 1x38 (GR10Q) | IP65 | 300x300x83 | 1,7 | 38 |

Options available on request:

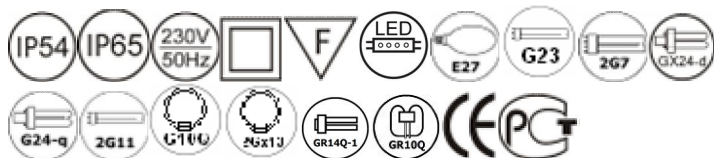
HF- High Frequency control gear
SWITCHDIM- Switch DIM ballast
DIM- Dimmable ballast
DALI- DALI ballast
EMG- Emergency version 1 hour
EM2- Emergency version 2 hours

EM3- Emergency version 3 hours
4TB- 4 way terminal block for loop feed and ease of wiring
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
PC- Polycarbonate diffuser
PIR- PIR sensor

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Dorado LED B110 950lm T840 | 200x200x58 | 950 | 4000 | >80 | 11 | 0,9 |
| Dorado LED B110 1000lm T857 | 200x200x58 | 1000 | 5700 | >80 | 11 | 0,9 |
| Dorado B LED B111 1180lm T840 | 300x300x83 | 950 | 4000 | >80 | 13 | 1,7 |
| Dorado B LED B111 1250lm T857 | 300x300x83 | 1000 | 5700 | >80 | 13 | 1,7 |

POLLUX

IP 54/65 Circular Luminaire



Type: Surface-mounted circular fluorescent luminaire with slim profile.

Specification: Durable opal PMMA diffuser with outstanding resistance to chemical influences.
White polycarbonate body. Sealing gasket in IP65 version.
Luminaire is plastic-wrapped and boxed individually.

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

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

| Type | Lamp (W) and socket | IP level | Overall dimensions, 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 214 Q19 HF | 2x14 (GR14Q-1) | IP65 | Ø360x83 | 1,7 | 33 |
| Pollux B 217 Q20 HF | 2x17 (GR14Q-1) | IP65 | Ø360x83 | 1,7 | 40 |
| Pollux B 128 Q15 HF | 1x28 (GR10Q) | IP65 | Ø360x83 | 1,7 | 29 |
| Pollux B 138 Q16 HF | 1x38 (GR10Q) | IP65 | Ø360x83 | 1,7 | 38 |

Options available on request:

HF- High Frequency control gear
SWITCHDIM- Switch DIM ballast
DIM- Dimmable ballast
DALI- DALI ballast
EMG- Emergency version 1 hour
EM2- Emergency version 2 hours

EM3- Emergency version 3 hours
4TB- 4 way terminal block for loop feed and ease of wiring
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
PC- Polycarbonate diffuser
PIR- PIR sensor

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-----------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Pollux LED B109 950lm T840 | Ø260x58 | 950 | 4000 | >80 | 11 | 0,9 |
| Pollux LED B109 1000lm T857 | Ø260x58 | 1000 | 5700 | >80 | 11 | 0,9 |

CABINET

Single Batten with a Prismatic Diffuser

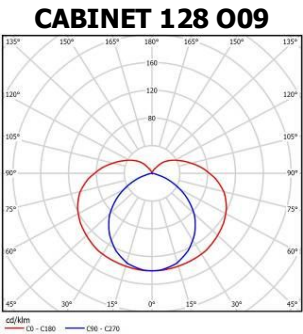


| | |
|----------------|---|
| Type: | A range of single batten with a plastic diffuser for fast continuous mounting installation with slim profile. |
| Specification: | Clear prismatic diffuser made of UV stabilized polycarbonate. White polycarbonate body and end caps. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings and walls of any type. Effective solution for interconnecting a number of battens. |
| Application: | Ideal for industrial, retail, furniture and education applications. |



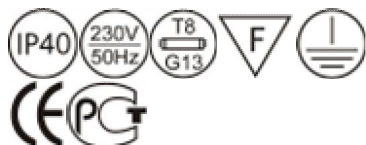
Supplied with close connector, start lead, link lead and wall&ceiling mounting kit for easy installation. Switch on/off button mounted on the side of the body.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Cabinet 113 O07 | 1x13 (G5) | 22x45x585 | 0,2 | 15 |
| Cabinet 121 O08 | 1x21 (G5) | 22x45x905 | 0,3 | 23 |
| Cabinet 128 O09 | 1x28 (G5) | 22x45x1205 | 0,4 | 30 |



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: Ideal for bathrooms, hotels, dressing rooms and other applications.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------|---------------------|------------------------|------------|------------------|
| Coma 118 Q35 | 1x18 (G13) | 765x65x85 | 1,2 | 26 |
| Coma 130 Q36 | 1x30 (G13) | 1060x65x85 | 1,6 | 36 |
| Coma 136 Q37 | 1x36 (G13) | 1365x65x85 | 2 | 42 |

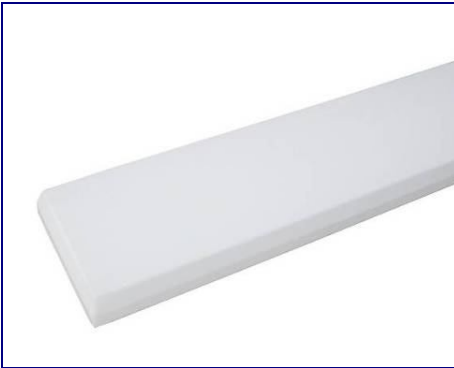
Options available on request:

HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

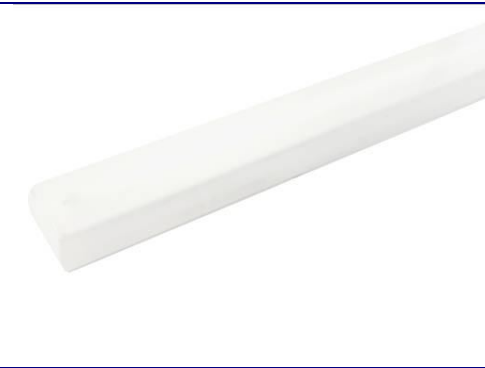
EMG- Emergency version 1 hour
EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for loop feed and ease of wiring

EUROS

Surface
Plastic
Luminaire



EUROS 236 H10 OP HF



EUROS 158 H11 OP HF



EUROS 158 H11 PRZ HF

| | |
|----------------|--|
| Type: | A range of surface fluorescent 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 white finish. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Ideal for common areas in hospitals, colleges and other similar institutions. |



Version with IP44 protection level or with an aluminum reflector inside can be made on request. See option list for detailed information (IP44 & PAR).

| Type | Lamp (W) and socket | Overall dimensions, 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 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 |

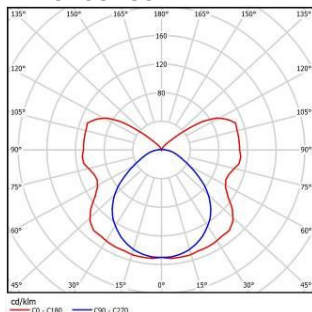
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Euros 114 H13 | 1x14 (G5) | 665x110x65 | 0,9 | 16 |
| Euros 214 H14 | 2x14 (G5) | 665x195x65 | 1,3 | 31 |
| Euros 124 H15 | 1x24 (G5) | 665x110x65 | 0,9 | 25 |
| Euros 224 H16 | 2x24 (G5) | 665x195x65 | 1,3 | 49 |
| Euros 128 H17 | 1x28 (G5) | 1270x110x65 | 1,7 | 30 |
| Euros 228 H18 | 2x28 (G5) | 1270x195x65 | 2,4 | 60 |
| 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 154 H23 | 1x54 (G5) | 1270x110x65 | 1,7 | 58 |
| Euros 254 H24 | 2x54 (G5) | 1270x195x65 | 2,4 | 116 |
| Euros 180 H25 | 1x80 (G5) | 1570x110x65 | 2 | 85 |
| Euros 280 H26 | 2x80 (G5) | 1570x195x65 | 3,2 | 170 |

Options available on request:

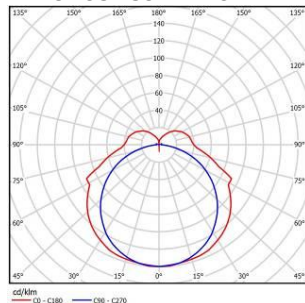
PRZ- Prismatic diffuser
OP- Diffuser in opal execution
HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
SPORT- White painted protection grid
IP44- Protection level
PAR- Aluminum reflector inside

EUROS 158 H11 PRZ HF



EUROS 258 H12 OP HF



| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|---------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Euros LED B112 1x950lm T840 OP | 665x110x65 | 950 | 4000 | >80 | 11 | 1,5 |
| Euros LED B112 1x1000lm T857 OP | 665x110x65 | 1000 | 5700 | >80 | 11 | 1,5 |
| Euros LED B113 2x950lm T840 OP | 665x195x65 | 1900 | 4000 | >80 | 21 | 2,2 |
| Euros LED B113 2x1000lm T857 OP | 665x195x65 | 2000 | 5700 | >80 | 21 | 2,2 |
| Euros LED B114 1x2370lm T840 OP | 1270x110x65 | 2370 | 4000 | >80 | 26 | 2,4 |
| Euros LED B114 1x2500lm T857 OP | 1270x110x65 | 2500 | 5700 | >80 | 26 | 2,4 |
| Euros LED B115 2x2370lm T840 OP | 1270x195x65 | 4740 | 4000 | >80 | 51 | 3,7 |
| Euros LED B115 2x2500lm T857 OP | 1270x195x65 | 5000 | 5700 | >80 | 51 | 3,7 |
| Euros LED B116 1x2850lm T840 OP | 1570x110x65 | 2850 | 4000 | >80 | 31 | 3,1 |
| Euros LED B116 1x3000lm T857 OP | 1570x110x65 | 3000 | 5700 | >80 | 31 | 3,1 |
| Euros LED B117 2x2850lm T840 OP | 1570x195x65 | 5700 | 4000 | >80 | 61 | 4,9 |
| Euros LED B117 2x3000lm T857 OP | 1570x195x65 | 6000 | 5700 | >80 | 61 | 4,9 |

STAR

Surface T8 Plastic Luminaire



| | |
|-----------------------|--|
| Type: | A range of surface fluorescent luminaires with low modern profile. |
| Specification: | Prismatic diffusers made of UV stabilized polystyrene. Gear tray in white finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Ideal for common areas in hospitals, colleges and other similar institutions. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Star 236 O01 PRZ | 2x36 (G13) | 1250x155x65 | 3 | 84 |
| Star 236 O01 PRZ HF | 2x36 (G13) | 1250x155x65 | 2,1 | 71 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours

EM3- Emergency version 3 hours
 4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 PRZ- Prismatic diffuser
 NCP- Low Power Factor
 SPORT- White painted protection grid

CARINA

Surface T5 Plastic Luminaire



Carina 228 O56 OP



Carina 128 O55 OP



Carina 128 O55 PRZ

| | |
|-----------------------|--|
| Type: | A range of surface fluorescent luminaires with low modern profile. |
| Specification: | Prismatic or opalized diffusers made of UV stabilized polycarbonate. Gear tray in white finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type. |
| Application: | Ideal for common areas in hospitals, colleges and other similar institutions. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Carina 114 O51 PRZ | 1x14 (G5) | 595x90x85 | 0,9 | 16 |
| Carina 214 O52 PRZ | 2x14 (G5) | 595x150x60 | 1,3 | 31 |
| Carina 124 O53 PRZ | 1x24 (G5) | 595x90x85 | 0,9 | 25 |
| Carina 224 O54 PRZ | 2x24 (G5) | 595x150x60 | 1,3 | 49 |
| Carina 128 O55 PRZ | 1x28(G5) | 1195x90x85 | 1,7 | 30 |
| Carina 228 O56 PRZ | 2x28 (G5) | 1195x150x60 | 2,4 | 60 |
| Carina 154 O57 PRZ | 1x54(G5) | 1195x90x85 | 1,7 | 58 |
| Carina 254 O58 PRZ | 2x54 (G5) | 1195x150x60 | 2,4 | 116 |
| Carina 135 O59 PRZ | 1x35 (G5) | 1495x90x85 | 2 | 38 |
| Carina 235 O60 PRZ | 2x35 (G5) | 1495x150x60 | 2,8 | 76 |
| Carina 149 O61 PRZ | 1x49(G5) | 1495x90x85 | 2 | 53 |
| Carina 249 O62 PRZ | 2x49 (G5) | 1495x150x60 | 2,8 | 105 |

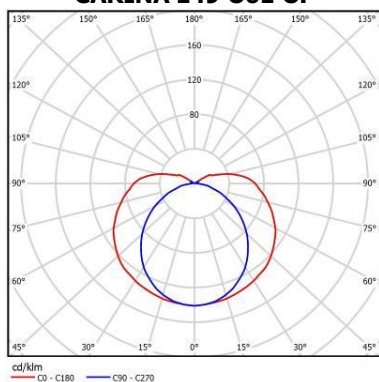
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Carina 114 O51 OP | 1x14 (G5) | 595x90x85 | 0,9 | 16 |
| Carina 214 O52 OP | 2x14 (G5) | 595x150x60 | 1,3 | 31 |
| 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 |
| Carina 149 O61 OP | 1x49(G5) | 1495x90x85 | 2 | 53 |
| Carina 249 O62 OP | 2x49 (G5) | 1495x150x60 | 2,8 | 105 |

Options available on request:

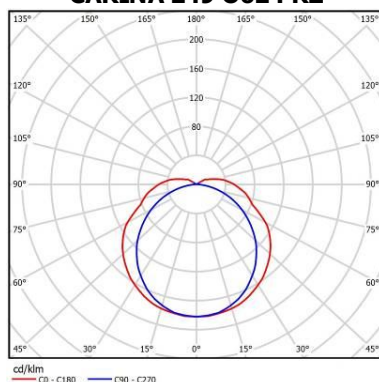
DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 OP- Opalized diffuser
 PRZ- Prismatic diffuser
 SPORT- White painted protection grid

CARINA 149 O61 OP



CARINA 249 O62 PRZ



DOCTOR

Surface Plastic Luminaire



| | |
|-----------------------|---|
| Type: | A range of surface fluorescent luminaires with low modern profile, for use in locations, where industrial solutions are aesthetically not acceptable. |
| Specification: | Blown moulded prismatic PMMA diffuser in clean or opal execution. Stainless steel diffuser clips are inside the luminaire. Housing made of glass fibre reinforced polyester. White colour. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Designed to be fixed onto ceilings or walls of any type, including flammable surfaces. |
| Application: | Ideal for common areas in humid dusty rooms, swimming pools, bathrooms, hospitals and other similar institutions. |



Two cable entries on the back side for easy lead through of on outside connecting wire are provided.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Doctor 118 G79 PRZ | 1x18 (G13) | 672x155x81 | 1,9 | 26 |
| Doctor 218 G02 PRZ | 2x18 (G13) | 672x155x81 | 1,95 | 42 |
| Doctor 136 G52 PRZ | 1x36 (G13) | 1282x155x81 | 2,95 | 42 |
| Doctor 236 G03 PRZ | 2x36 (G13) | 1282x155x81 | 3,6 | 84 |
| Doctor 158 G80 PRZ | 1x58 (G13) | 1582x155x81 | 3,85 | 67 |
| Doctor 258 G04 PRZ | 2x58 (G13) | 1582x155x81 | 4,75 | 134 |

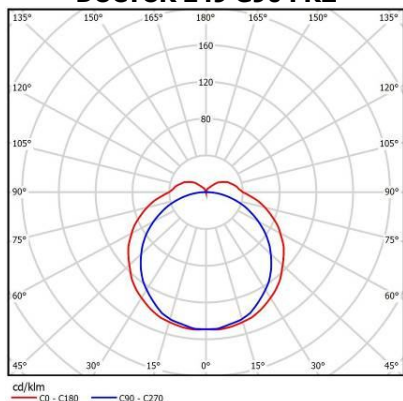
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Doctor 114 G81 PRZ | 1x14 (G5) | 672x155x81 | 1,5 | 16 |
| Doctor 214 G82 PRZ | 2x14 (G5) | 672x155x81 | 1,6 | 31 |
| Doctor 124 G83 PRZ | 1x24 (G5) | 672x155x81 | 1,5 | 25 |
| Doctor 224 G84 PRZ | 2x24 (G5) | 672x155x81 | 1,6 | 49 |
| Doctor 128 G85 PRZ | 1x28 (G5) | 1282x155x81 | 2,55 | 30 |
| Doctor 228 G86 PRZ | 2x28 (G5) | 1282x155x81 | 2,6 | 60 |
| Doctor 135 G87 PRZ | 1x35 (G5) | 1582x155x81 | 3,05 | 38 |
| Doctor 235 G88 PRZ | 2x35 (G5) | 1582x155x81 | 3,1 | 76 |
| Doctor 149 G89 PRZ | 1x49 (G5) | 1582x155x81 | 3,05 | 53 |
| Doctor 249 G90 PRZ | 2x49 (G5) | 1582x155x81 | 3,1 | 105 |
| Doctor 154 G91 PRZ | 1x54 (G5) | 1282x155x81 | 2,55 | 58 |
| Doctor 254 G92 PRZ | 2x54 (G5) | 1282x155x81 | 2,6 | 116 |
| Doctor 180 G93 PRZ | 1x80 (G5) | 1582x155x81 | 3,05 | 85 |
| Doctor 280 G94 PRZ | 2x80 (G5) | 1582x155x81 | 3,4 | 170 |

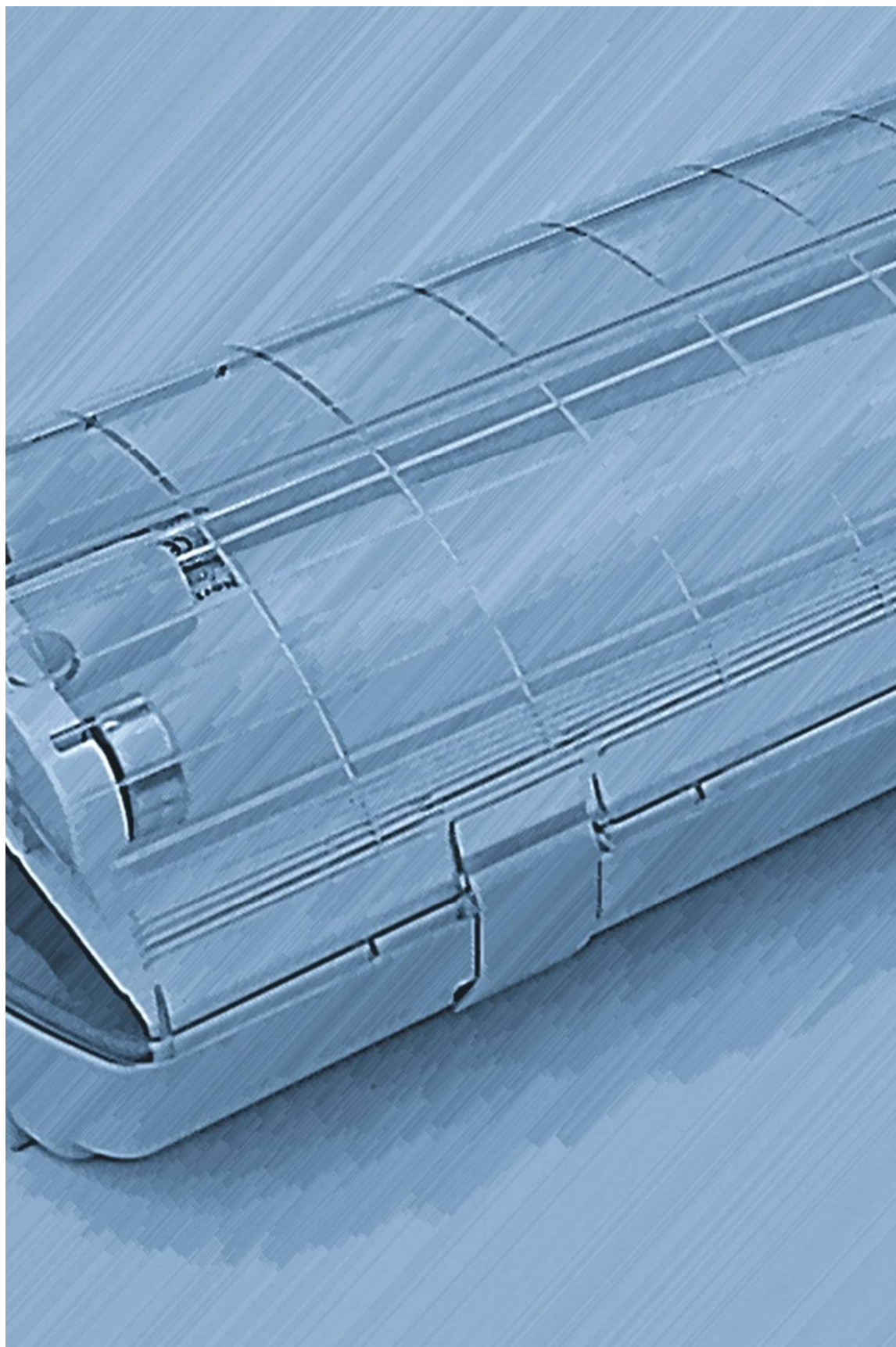
Options available on request:

PRZ- Prismatic diffuser
HF- High Frequency control gear
SWITCHDIM- Switch DIM ballast
DIM- Dimmable ballasts
DALI- DALI ballasts
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
4TB- 4 way terminal block for loop feed and ease of wiring
5TB- 5 way terminal block for loop feed and ease of wiring
NCP- Low Power Factor
SPORT- White painted protection grid

DOCTOR 249 G90 PRZ



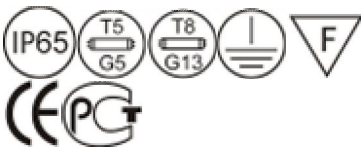


IP65 SURFACE

www.northcliffe.org

CYCLONE T8/T5

IP65 Surface Luminaire



| | |
|----------------|---|
| Type: | Dust and moisture proof IP65 with clear polycarbonate diffuser for maximum protection for use in adverse conditions. |
| Specification: | Luminaires are available with injection moulded UV stabilized polycarbonate diffuser for high impact resistance. White painted steel reflector. Injection molded polycarbonate canopy, grey finished. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire is designed to be fixed to ceilings of any type or suspended. |
| Application: | Dust and moisture proof luminaries, ideal for environments subject to high humidity and excessive dust. |



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

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|------------------------|------------|------------------|
| Cyclone 118 A49 | 1x18 (G13) | 670x170x95 | 1,7 | 26 |
| Cyclone 218 A50 | 2x18 (G13) | 670x170x95 | 1,8 | 42 |
| Cyclone 136 A51 | 1x36 (G13) | 1280x170x95 | 2,5 | 42 |
| Cyclone 236 A52 | 2x36 (G13) | 1280x170x95 | 3,1 | 84 |
| Cyclone 158 A53 | 1x58 (G13) | 1580x170x95 | 4 | 67 |
| Cyclone 258 A54 | 2x58 (G13) | 1580x170x95 | 5,4 | 134 |
| Cyclone 218 A50 Deluxe HF | 2x18 (G13) | 670x170x95 | 1,5 | 36 |
| Cyclone 236 A52 Deluxe HF | 2x36 (G13) | 1280x170x95 | 2,4 | 70 |
| Cyclone 258 A54 Deluxe HF | 2x58 (G13) | 1580x170x95 | 2,9 | 108 |

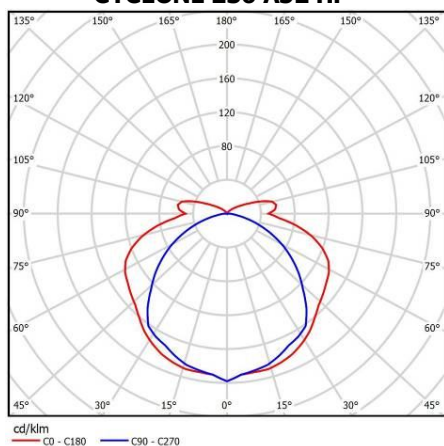
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Cyclone 114 D18 | 1x14 (G5) | 670x170x95 | 1,5 | 16 |
| Cyclone 214 D19 | 2x14 (G5) | 670x170x95 | 1,6 | 31 |
| Cyclone 128 A43 | 1x28 (G5) | 1280x170x95 | 2,5 | 30 |
| Cyclone 228 A44 | 2x28 (G5) | 1280x170x95 | 2,6 | 60 |
| Cyclone 154 A45 | 1x54 (G5) | 1280x170x95 | 2,5 | 58 |
| Cyclone 254 A46 | 2x54 (G5) | 1280x170x95 | 2,6 | 116 |
| Cyclone 135 D20 | 1x35 (G5) | 1580x170x95 | 3 | 38 |
| Cyclone 235 D21 | 2x35 (G5) | 1580x170x95 | 3,1 | 75 |
| Cyclone 149 D22 | 1x49 (G5) | 1580x170x95 | 3 | 53 |
| Cyclone 249 D23 | 2x49 (G5) | 1580x170x95 | 3,1 | 104 |
| Cyclone 180 A47 | 1x80 (G5) | 1580x170x95 | 3 | 85 |
| Cyclone 280 A48 | 2x80 (G5) | 1580x170x95 | 3,1 | 170 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

IC- Stainless steel clips
 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

CYCLONE 236 A52 HF



Pali T8

IP65 for aggressive environment



| | |
|-----------------------|--|
| Type: | Water and dust resistant IP 65 luminaire with PMMA diffuser for use in environments containing potentially corrosive chemicals and areas where specialised cleaning agents are used. |
| Specification: | <p>Luminaires are available with injection moulded Acrylic diffuser for exposure to severe atmospheric conditions. White painted steel reflector.</p> <p>Injection molded glass fiber reinforced canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance</p> <p>Luminaire is plastic-wrapped and boxed individually.</p> |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. Two fixing brackets for easy installation and accessories for chain and wire suspension available on request. |
| Application: | Dust and moisture proof luminaries, ideal for environments subject to high humidity and excessive dust. Suits well food processing areas, farms and other aggressive atmospheres with salts, acids and mineral oils. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Pali 118 Q66 PMMA | 1x18 (G13) | 669x90x95 | 1,9 | 26 |
| Pali 218 Q67 PMMA | 2x18 (G13) | 669x116x99 | 2,4 | 42 |
| Pali 136 Q68 PMMA | 1x36 (G13) | 1277x90x95 | 2,8 | 42 |
| Pali 236 Q69 PMMA | 2x36 (G13) | 1277x116x99 | 3,6 | 84 |
| Pali 158 Q70 PMMA | 1x58 (G13) | 1577x90x95 | 3,5 | 67 |
| Pali 258 Q71 PMMA | 2x58 (G13) | 1577x116x99 | 4,6 | 134 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Pali 114 Q52 PMMA | 1x14 (G5) | 669x90x95 | 1 | 16 |
| Pali 214 Q53 PMMA | 2x14 (G5) | 669x116x99 | 1,7 | 31 |
| Pali 124 Q54 PMMA | 1x24 (G5) | 669x90x95 | 1 | 25 |
| Pali 224 Q55 PMMA | 2x24 (G5) | 669x116x99 | 1,7 | 49 |
| Pali 128 Q56 PMMA | 1x28 (G5) | 1277x90x95 | 1,8 | 30 |
| Pali 228 Q57 PMMA | 2x28 (G5) | 1277x116x99 | 2,7 | 60 |
| Pali 135 Q58 PMMA | 1x54 (G5) | 1577x90x95 | 2,3 | 38 |
| Pali 235 Q59 PMMA | 2x54 (G5) | 1577x116x99 | 3,7 | 75 |
| Pali 149 Q60 PMMA | 1x35 (G5) | 1577x90x95 | 1,8 | 53 |
| Pali 249 Q61 PMMA | 2x35 (G5) | 1577x116x99 | 2,7 | 104 |
| Pali 154 Q62 PMMA | 1x49 (G5) | 1277x90x95 | 2,3 | 58 |
| Pali 254 Q63 PMMA | 2x49 (G5) | 1277x116x99 | 3,7 | 116 |
| Pali 180 Q64 PMMA | 1x80 (G5) | 1577x90x95 | 2,3 | 85 |
| Pali 280 Q65 PMMA | 2x80 (G5) | 1577x116x99 | 2,8 | 170 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

5TB- 5 way terminal block for loop feed and ease of wiring

PMMA- Diffuser made from acrylic plastic

PC- Diffuser made from polycarbonate plastic

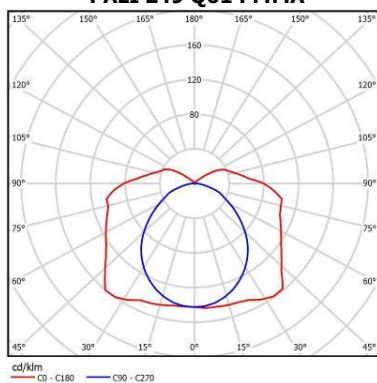
1LIN- Through wiring 3x1.5 mm² with two push-in terminals

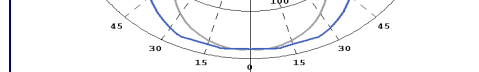
3LIN- Through wiring 5x1.5 mm² with two push-in terminals

1LIN2,5- Through wiring 3x2.5 mm² with two push-in terminals

3LIN2,5- Through wiring 5x2.5 mm² with two push-in terminals

PALI 249 Q61 PMMA





Typhoon T8

IP65 Surface Luminaire



| | |
|-----------------------|--|
| Type: | General purpose water and dust resistant IP 65 luminaire for use in adverse conditions. |
| Specification: | Luminaries are available with injection moulded UV stabilized polystyrene transparent diffuser. Steel white painted reflector. Injection molded acrylonitrile butadiene styrene canopy, grey finished. Diffuser retaining clips, diffuser hinges from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to ceilings of any type or suspended. |
| Application: | Dust and moisture proof luminaries, ideal for environments subject to high humidity and excessive dust. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|------------------------|------------|------------------|
| Typhoon 236 N99 ABS/PS | 2x36 (G13) | 1270x130x93 | 3,4 | 84 |
| Typhoon 236 N99 ABS/PS HF | 2x36 (G13) | 1270x130x93 | 2,5 | 71 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballasts

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring

5TB- 5 way terminal block for loop feed and ease of wiring

ABS/PS- Body made from acrylonitrile butadiene styrene and diffuser from polystyrene plastic

1LIN- Through wiring 3x1.5 mm² with two push-in terminals

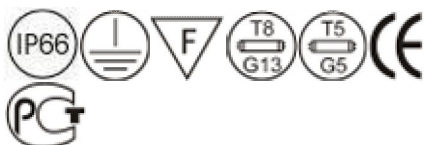
3LIN- Through wiring 5x1.5 mm² with two push-in terminals

1LIN2,5- Through wiring 3x2.5 mm² with two push-in terminals

3LIN2,5- Through wiring 5x2.5 mm² with two push-in terminals

BARAT T8/T5

IP66 for
humid&dusty rooms



Barat 136 I16 PC/PMMA IC

| | |
|-----------------------|---|
| Type: | Dust and moisture proof IP66 fixture for humid&dusty rooms. |
| Specification: | Luminaires are available with injection molded UV stabilized PMMA diffuser. White powder coated gear tray. Injection molded 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 ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | 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**).

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| Barat 118 I14 PC/PMMA | 1x18 (G13) | 662x96x111 | 1,5 | 26 |
| Barat 218 I15 PC/PMMA | 2x18 (G13) | 662x146x111 | 2,2 | 42 |
| Barat 136 I16 PC/PMMA | 1x36 (G13) | 1272x96x111 | 2,4 | 42 |
| Barat 236 I17 PC/PMMA | 2x36 (G13) | 1272x146x111 | 3,7 | 84 |
| Barat 158 I18 PC/PMMA | 1x58 (G13) | 1572x96x111 | 3,1 | 67 |
| Barat 258 I19 PC/PMMA | 2x58 (G13) | 1572x146x111 | 4,9 | 134 |

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

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

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 from acrylic

ABS/PC- Body made of acrylonitrile butadiene styrene and diffuser from polycarbonate plastic

PC/PMMA- Body made of polycarbonate plastic and diffuser from 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

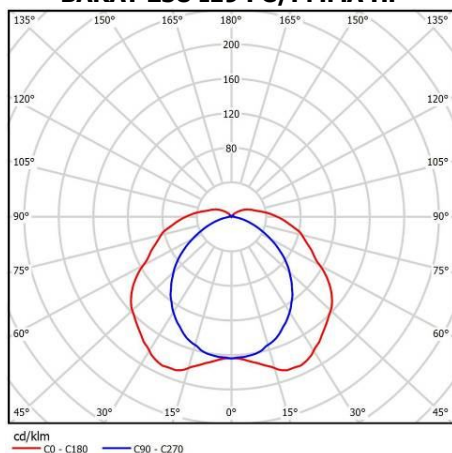
1LIN2,5- Through wiring 3x2.5 mm² with two push-in terminals

3LIN2,5- Through wiring 5x2.5 mm² with two push-in terminals

AS- Asymmetric aluminium

PIR- PIR sensor

BARAT 258 I19 PC/PMMA HF



Barat T8/T5

IP66 for High impact resistance



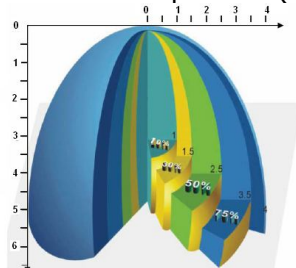
| | |
|-----------------------|---|
| Type: | Dust and moisture proof IP66 fixture for high impact resistance. |
| Specification: | Luminaires are available with injection molded UV stabilized polycarbonate diffuser. White powder coated gear tray. This version is in compliance with Glow wire 850°C requirements. Injection molded 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 ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many others commercial applications. |



Protection grid white powder coated available on request. See option list (**SPORT**).



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



| Type | Lamp (W) and socket | Overall dimensions, 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 | 2,2 | 42 |
| Barat 136 I16 PC/PC | 1x36 (G13) | 1272x96x111 | 2,4 | 42 |
| Barat 236 I17 PC/PC | 2x36 (G13) | 1272x146x111 | 3,7 | 84 |
| Barat 158 I18 PC/PC | 1x58 (G13) | 1572x96x111 | 3,1 | 67 |
| Barat 258 I19 PC/PC | 2x58 (G13) | 1572x146x111 | 4,9 | 134 |



Asymmetric reflector made from specular aluminum, 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.

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

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

IC- Stainless steel clips

STB- 5 way terminal block for easy wiring

II-

PC/PC-

1LIN-

3LIN-

1LIN2,5-

3LIN2,5-

AS-

PIR-

SPORT-

Electric shock protection class II

Body and diffuser made of polycarbonate plastic

Through wiring 3x1.5 mm² with two push-in terminals

Through wiring 5x1.5 mm² with two push-in terminals

Through wiring 3x2.5 mm² with two push-in terminals

Through wiring 5x2.5 mm² with two push-in terminals

Asymmetric aluminium

PIR sensor

Protection grid white painted

Barat LED

IP66 for High impact resistance with opalized diffuser



| | |
|-----------------------|--|
| Type: | Dust and moisture proof IP66 LED fixture for high impact resistance. |
| Specification: | Opal UV stabilized polycarbonate diffuser. White powder coated gear tray. Injection molded 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 ceilings of any type or suspended. |
| Application: | 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.

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|---------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Barat LED B101 1x950lm T840 OP | 662x96x111 | 950 | 4000 | >80 | 11 | 1,5 |
| Barat LED B101 1x1000lm T857 OP | 662x96x111 | 1000 | 5700 | >80 | 11 | 1,5 |
| Barat LED B102 2x950lm T840 OP | 662x146x111 | 1900 | 4000 | >80 | 21 | 2,2 |
| Barat LED B102 2x1000lm T857 OP | 662x146x111 | 2000 | 5700 | >80 | 21 | 2,2 |
| Barat LED B103 1x2140lm T840 OP | 1272x96x111 | 2140 | 4000 | >80 | 24 | 2,4 |
| Barat LED B103 1x2250lm T857 OP | 1272x96x111 | 2250 | 5700 | >80 | 24 | 2,4 |
| Barat LED B104 2x2140lm T840 OP | 1272x146x111 | 4280 | 4000 | >80 | 46 | 3,7 |
| Barat LED B104 2x2250lm T857 OP | 1272x146x111 | 4500 | 5700 | >80 | 46 | 3,7 |
| Barat LED B204 2x2375lm T840 OP | 1272x146x111 | 4750 | 4000 | >80 | 51 | 3,7 |
| Barat LED B204 2x2500lm T857 OP | 1272x146x111 | 5000 | 5700 | >80 | 51 | 3,7 |
| Barat LED B105 1x2850lm T840 OP | 1572x96x111 | 2850 | 4000 | >80 | 31 | 3,1 |
| Barat LED B105 1x3000lm T857 OP | 1572x96x111 | 3000 | 5700 | >80 | 31 | 3,1 |
| Barat LED B106 2x2850lm T840 OP | 1572x146x111 | 5700 | 4000 | >80 | 61 | 4,9 |
| Barat LED B106 2x3000lm T857 OP | 1572x146x111 | 6000 | 5700 | >80 | 61 | 4,9 |
| Barat LED B205 2x3320lm T840 OP | 1572x146x111 | 6650 | 4000 | >80 | 71 | 5 |
| Barat LED B205 2x3500lm T857 OP | 1572x146x111 | 7000 | 5700 | >80 | 71 | 5 |

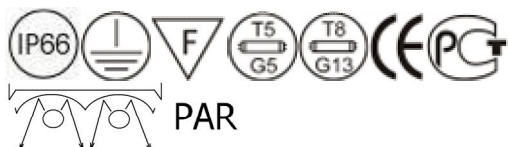
Options available on request:

IC- Stainless steel clips
OP- Opal UV stabilized polycarbonate diffuser
STB- 5 way terminal block for easy wiring
PIR- PIR 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

Barat T8

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: | <p>Luminaires are available with injection molded UV stabilized polycarbonate (or PMMA) diffuser for high impact resistance. Specular aluminum parabolic reflector.</p> <p>Injection molded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance.</p> <p>Luminaire is plastic-wrapped and boxed individually.</p> |
| Installation: | Surface luminaire is designed to be fixed to ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | Dust and moisture proof luminaire, ideal for installations higher than 5 meters. For use in factories, warehouses, garages, halls and many others commercial applications. |

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

| Type | Lamp (W) and socket | Overall dimensions, 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 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 154 I73 PC/PC PAR | 1x54 (G5) | 1272x96x111 | 2 | 58 |
| Barat 254 I74 PC/PC PAR | 2x54 (G5) | 1272x146x111 | 2,9 | 116 |
| Barat 180 I75 PC/PC PAR | 1x80 (G5) | 1572x96x111 | 2,6 | 85 |
| Barat 280 I76 PC/PC PAR | 2x80 (G5) | 1572x146x111 | 4 | 170 |



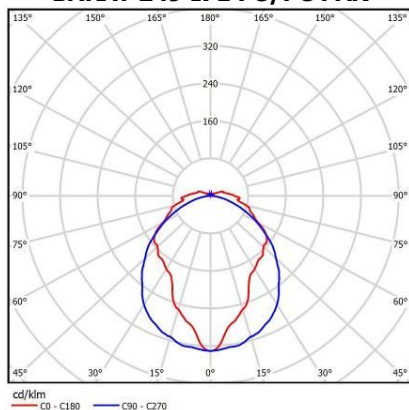
Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 IC- Stainless steel clips
 5TB- 5 way terminal block for easy wiring
 II- Electric shock protection class II

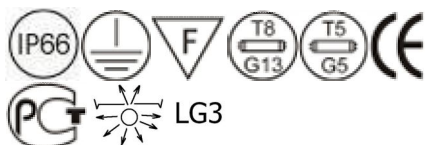
PIR- PIR sensor
 PC/PMMA- Body made of polycarbonate plastic and diffuser from acrylic
 PC/PC- Body and diffuser made of polycarbonate plastic
 1LIN- Through wiring 3x1.5 mm² with two push-in terminals
 3LIN- Through wiring 5x1.5 mm² with two push-in terminals
 1LIN2,5- Through wiring 3x2.5 mm² with two push-in terminals
 3LIN2,5- Through wiring 5x2.5 mm² with two push-in terminals
 AS- Asymmetric aluminium
 PAR- Specular aluminum parabolic reflector

BARAT 249 I71 PC/PC PAR



Barat T8/T5

**IP66 for
direct/indirect light
distribution**



| | |
|-----------------------|---|
| Type: | Dust and moisture proof IP66 fixture for direct/indirect illumination. |
| Specification: | <p>Luminaires are available with injection molded UV stabilized polycarbonate (or PMMA) diffuser for high impact resistance. White perforated (or slim) gear tray.</p> <p>Injection molded polycarbonate canopy, transparent. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance.</p> <p>Luminaire is plastic-wrapped and boxed individually.</p> |
| Installation: | Surface luminaire is designed to be fixed to ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | Dust and moisture proof luminaire, ideal for installations where ceiling should be illuminated. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|------------------------|------------|------------------|
| Barat 136 I16 PC/PMMA LG3 | 1x36 (G13) | 1272x96x111 | 2,4 | 42 |
| Barat 236 I17 PC/PMMA LG3 | 2x36 (G13) | 1272x146x111 | 3,7 | 84 |
| Barat 158 I18 PC/PMMA LG3 | 1x58 (G13) | 1572x96x111 | 3,1 | 67 |
| Barat 258 I19 PC/PMMA LG3 | 2x58 (G13) | 1572x146x111 | 4,9 | 134 |
| Barat 136 I16 PC/PC LG3 | 1x36 (G13) | 1272x96x111 | 2,4 | 42 |
| Barat 236 I17 PC/PC LG3 | 2x36 (G13) | 1272x146x111 | 3,7 | 84 |
| Barat 158 I18 PC/PC LG3 | 1x58 (G13) | 1572x96x111 | 3,1 | 67 |
| Barat 258 I19 PC/PC LG3 | 2x58 (G13) | 1572x146x111 | 4,9 | 134 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------|---------------------|------------------------|------------|------------------|
| Barat 128 I66 PC/PMMA LG3 | 1x28 (G5) | 1272x96x111 | 1,8 | 30 |
| Barat 228 I67 PC/PMMA LG3 | 2x28 (G5) | 1272x146x111 | 2,7 | 60 |
| Barat 135 I68 PC/PMMA LG3 | 1x35 (G5) | 1572x96x111 | 2,3 | 38 |
| Barat 235 I69 PC/PMMA LG3 | 2x35 (G5) | 1572x146x111 | 3,7 | 75 |
| Barat 149 I70 PC/PMMA LG3 | 1x49 (G5) | 1572x96x111 | 2,3 | 53 |
| Barat 249 I71 PC/PMMA LG3 | 2x49 (G5) | 1572x146x111 | 3,7 | 104 |
| Barat 154 I73 PC/PMMA LG3 | 1x54 (G5) | 1272x96x111 | 1,8 | 58 |
| Barat 254 I74 PC/PMMA LG3 | 2x54 (G5) | 1272x146x111 | 2,7 | 116 |
| Barat 180 I75 PC/PMMA LG3 | 1x80 (G5) | 1572x96x111 | 2,4 | 85 |
| Barat 280 I76 PC/PMMA LG3 | 2x80 (G5) | 1572x146x111 | 3,8 | 170 |
| Barat 128 I66 PC/PC LG3 | 1x28 (G5) | 1272x96x111 | 1,8 | 30 |
| Barat 228 I67 PC/PC LG3 | 2x28 (G5) | 1272x146x111 | 2,7 | 60 |
| Barat 135 I68 PC/PC LG3 | 1x35 (G5) | 1572x96x111 | 2,3 | 38 |
| Barat 235 I69 PC/PC LG3 | 2x35 (G5) | 1572x146x111 | 3,7 | 75 |
| Barat 149 I70 PC/PC LG3 | 1x49 (G5) | 1572x96x111 | 2,3 | 53 |
| Barat 249 I71 PC/PC LG3 | 2x49 (G5) | 1572x146x111 | 3,7 | 104 |
| Barat 154 I73 PC/PC LG3 | 1x54 (G5) | 1272x96x111 | 1,8 | 58 |
| Barat 254 I74 PC/PC LG3 | 2x54 (G5) | 1272x146x111 | 2,7 | 116 |
| Barat 180 I75 PC/PC LG3 | 1x80 (G5) | 1572x96x111 | 2,4 | 85 |
| Barat 280 I76 PC/PC LG3 | 2x80 (G5) | 1572x146x111 | 3,8 | 170 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

IC- Stainless steel clips

STB- 5 way terminal block for easy wiring

II- Electric shock protection class II

PIR- PIR sensor

PC/PMMA- Body made of polycarbonate plastic and diffuser from acrylic

PC/PC- Body and diffuser made of polycarbonate plastic

1LIN- Through wiring 3x1.5 mm² with two push-in terminals

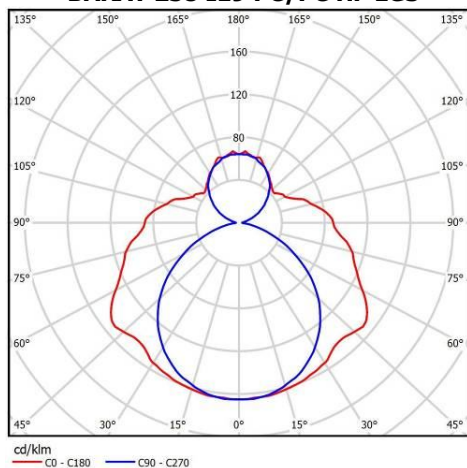
3LIN- Through wiring 5x1.5 mm² with two push-in terminals

1LIN2,5- Through wiring 3x2.5 mm² with two push-in terminals

3LIN2,5- Through wiring 5x2.5 mm² with two push-in terminals

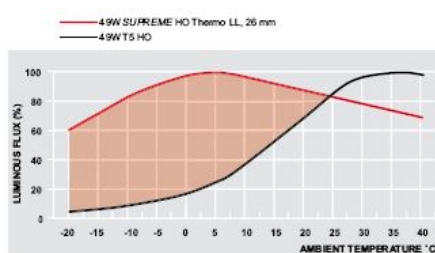
LG3- 30% light up & 70% light down

BARAT 258 I19 PC/PC HF LG3



NORD T8/T5

IP66 for low temperature applications



The special thermally insulated lamps should be used to obtain reliable operation in ambient temperatures -30°C to +25°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 molded UV stabilized polycarbonate diffuser for high impact resistance. White painted steel reflector. Stainless steel clips.
Injection molded 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 ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Application: Dust and moisture proof luminaires, ideal for low ambient temperatures down to - 30°C.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|------------------------|------------|------------------|
| Nord 118 J43 IC tmin-40 | 1x18 (G13) | 662x96x111 | 1,5 | 26 |
| Nord 218 J44 IC tmin-40 | 2x18 (G13) | 662x146x111 | 2,2 | 42 |
| Nord 136 I82 IC tmin-40 | 1x36 (G13) | 1277x90x95 | 2,8 | 42 |
| Nord 236 I83 IC tmin-40 | 2x36 (G13) | 1277x116x99 | 3,6 | 84 |
| Nord 158 I84 IC tmin-40 | 1x58 (G13) | 1577x90x95 | 3,5 | 67 |
| Nord 258 I85 IC tmin-40 | 2x58 (G13) | 1577x116x99 | 4,6 | 134 |
| Nord 118 J43 HF IC tmin-25 | 1x18 (G13) | 662x96x111 | 1 | 19 |
| Nord 218 J44 HF IC tmin-25 | 2x18 (G13) | 662x146x111 | 1,7 | 36 |
| Nord 136 I82 HF IC tmin-25 | 1x36 (G13) | 1277x90x95 | 1,8 | 36 |
| Nord 236 I83 HF IC tmin-25 | 2x36 (G13) | 1277x116x99 | 2,7 | 70 |
| Nord 158 I84 HF IC tmin-25 | 1x58 (G13) | 1577x90x95 | 2,3 | 56 |
| Nord 258 I85 HF IC tmin-25 | 2x58 (G13) | 1577x116x99 | 3,7 | 108 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------------------|---------------------|------------------------|------------|------------------|
| Nord 136 I82 HF IC tmin-30 | 1x36 (G13) | 1277x90x95 | 1,9 | 36 |
| Nord 236 I83 HF IC tmin-30 | 2x36 (G13) | 1277x116x99 | 2,8 | 70 |
| Nord 158 I84 HF IC tmin-30 | 1x58 (G13) | 1577x90x95 | 2,4 | 56 |
| Nord 258 I85 HF IC tmin-30 | 2x58 (G13) | 1577x116x99 | 3,8 | 108 |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------------|---------------------|------------------------|------------|------------------|
| Nord 149 I86 IC tmin-30 | 1x49 (G5) | 1577x90x95 | 3,1 | 53 |
| Nord 249 I87 IC tmin-30 | 2x49 (G5) | 1577x116x99 | 3,5 | 104 |
| Nord 154 I88 IC tmin-30 | 1x54 (G5) | 1277x90x95 | 2,2 | 58 |
| Nord 254 I89 IC tmin-30 | 2x54 (G5) | 1277x116x99 | 2,8 | 116 |
| Nord 180 I90 IC tmin-30 | 1x80 (G5) | 1577x90x95 | 3,1 | 85 |
| Nord 280 I91 IC tmin-30 | 2x80 (G5) | 1577x116x99 | 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

EM2 tmin-25- Emergency version 2 hours for use down to -25°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

Emergency versions for use in cold stores and other low temperature environments.

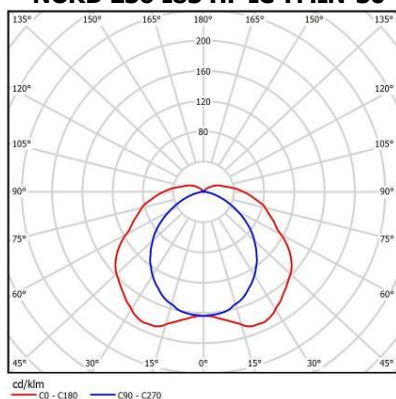
One-hour or two-hour standby operation with a recharge time of 24 hours.

Ambient temperature: -25°C to +40°C.

More information in page 161.



NORD 236 I83 HF IC TMIN-30



NORD T8

IP66 for high temperature applications



| | |
|-----------------------|---|
| Type: | Water and dust resistant IP 66 luminaire for use in higher temperature environments. |
| Specification: | <p>Luminaires are available with injection molded UV stabilized polycarbonate diffuser for high impact resistance. White painted steel reflector. Stainless steel clips.</p> <p>Injection molded polycarbonate canopy, grey finished. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance.</p> <p>Luminaire is plastic-wrapped and boxed individually.</p> |
| Installation: | Surface luminaire is designed to be fixed to ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. |
| Application: | Dust and moisture proof luminaires, ideal for higher ambient temperatures upto + 60°C. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Nord 118 J43 IC tmax60 | 1x18 (G13) | 662x96x111 | 1,5 | 26 |
| Nord 218 J44 IC tmax60 | 2x18 (G13) | 662x146x111 | 2,2 | 42 |
| Nord 136 I82 IC tmax60 | 1x36 (G13) | 1277x90x95 | 2,8 | 42 |
| Nord 236 I83 IC tmax60 | 2x36 (G13) | 1277x116x99 | 3,6 | 84 |
| Nord 158 I84 IC tmax60 | 1x58 (G13) | 1577x90x95 | 3,5 | 67 |
| Nord 258 I85 IC tmax60 | 2x58 (G13) | 1577x116x99 | 4,6 | 134 |

Options available on request:

HF- High Frequency control gear

IC- Stainless steel clips

tmax60- For use in temperatures upto +60°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

Barat EX

**IP66 for areas
with a danger of
flammable dust or
gas explosion**



| | |
|-----------------------|---|
| Type: | Dust and moisture proof IP66 fixture for illumination of areas with a danger of flammable dust or gas explosion. |
| Specification: | Luminaires are available with injection molded UV stabilized polycarbonate. White steel sheet reflector. Injection molded 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 ceilings of any type or suspended. Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension. Installed luminaires has to be protected from mechanical damage. |
| Application: | Dust and moisture proof luminaire, ideal for areas with a danger of flammable gas, dust and vapour explosion. The above mentioned ambient correspond to the EU directive No.: 94/9/EC: Ex II 3GD Ex nA II T4-T5, Tmax. |

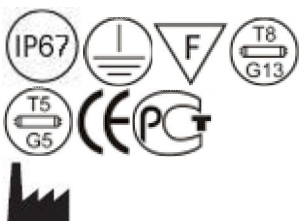
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------------|---------------------|------------------------|------------|------------------|
| Barat 136 I16 PC/PC HF IC Ex | 1x36 (G13) | 1272x96x111 | 2,4 | 42 |
| Barat 236 I17 PC/PC HF IC Ex | 2x36 (G13) | 1272x146x111 | 3,7 | 84 |
| Barat 158 I18 PC/PC HF IC Ex | 1x58 (G13) | 1572x96x111 | 3,1 | 67 |
| Barat 258 I19 PC/PC HF IC Ex | 2x58 (G13) | 1572x146x111 | 4,9 | 134 |

Options available on request:

| | | | |
|--------|---|----------|---|
| HF- | High Frequency control gear | 1LIN- | Through wiring 3x1.5 mm ² with two push-in terminals |
| IC- | Stainless steel clips | 3LIN- | Through wiring 5x1.5 mm ² with two push-in terminals |
| 4TB- | 4 way terminal block for ease wiring | 1LIN2,5- | Through wiring 3x2.5 mm ² with two push-in terminals |
| 5TB- | 5 way terminal block for ease wiring | 3LIN2,5- | Through wiring 5x2.5 mm ² with two push-in terminals |
| PC/PC- | Body and diffuser made of polycarbonate plastic | | |

Proof T8/T5

IP67 for aggressive environment



| | |
|-----------------------|---|
| Type: | Water and dust resistant IP 67 luminaire with PMMA diffuser for use in environments containing potentially corrosive chemicals and areas where specialized cleaning agents are used. |
| Specification: | Luminaires are available with injection molded acrylic diffuser for exposure to severe atmospheric conditions. White painted steel reflector. Injection molded 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 ceilings of any type or suspended. Two fixing brackets for easy installation and accessories for chain and wire suspension available on request. |
| Application: | Dust and moisture proof luminaires, ideal for environments subject to high humidity and excessive dust. Suits well in food production areas, farms and other aggressive atmospheres with salts, acids and mineral oils. |



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

HERCULES T8

Aluminium IP65 luminaire for humid&dusty rooms



| | |
|-----------------------|---|
| Type: | Dust and moisture proof IP65 fixture made from aluminium profile. |
| Specification: | Hardened safety glass is fixed to the body with stainless steel clips. Glossy aluminium reflector. The body made from 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 luminaire designed to be fixed to ceilings of any type or suspended. Supplied with two fixing brackets for easy installation and sealing washer. |
| Application: | Dust and moisture proof luminaire, ideal for use in agricultural buildings, factories, warehouses, garages and also in corrosive environment. |

| Type | Lamp (W) and socket | Overall dimensions, 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 |

Options available on request:

| | | | |
|------------|-----------------------------|----------|---|
| HF- | High Frequency control gear | EM3- | Emergency version 3 hours |
| DIM- | Dimmable ballast | 5TB- | 5 way terminal block for easy wiring |
| SWITCHDIM- | Switch DIM ballast | 1LIN- | Through wiring 3x1.5 mm ² with two push-in terminals |
| DALI- | DALI ballast | 3LIN- | Through wiring 5x1.5 mm ² with two push-in terminals |
| EMG- | Emergency version 1 hour | 1LIN2,5- | Through wiring 3x2.5 mm ² with two push-in terminals |
| EM2- | Emergency version 2 hours | 3LIN2,5- | Through wiring 5x2.5 mm ² with two push-in terminals |

HERMETIC

T5 Recessed & Surface Luminaire for use in sterile areas



Hermetic 418 K58 OP HF



Hermetic 418 K58 PAR HF

| | |
|-----------------------|--|
| Type: | A range of IP54 rated recessed and surface luminaires provides an ideal solution for food processing, pharmaceutical or medical applications. Outstanding design and look. |
| 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 packaged in twin boxes. |
| Installation: | Luminaire is designed to be fixed to ceilings of any type or recessed version for T-Bar ceilings |
| Application: | For use in pharmaceutical, medical or other sterile areas. |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Hermetic R 318 L96 | recessed | 3x18 (G13) | 595x595x85 | 5,30 | 68 |
| Hermetic R 418 K58 | recessed | 4x18 (G13) | 595x595x85 | 5,40 | 84 |
| Hermetic R 236 Q30 | recessed | 2x36 (G13) | 295x1195x85 | 5,40 | 84 |
| Hermetic R 336 Q31 | recessed | 3x36 (G13) | 595x1195x85 | 9,80 | 126 |
| Hermetic R 436 Q31 | recessed | 4x36 (G13) | 595x1195x85 | 10,40 | 168 |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Hermetic R 314 L97 | recessed | 3x14 (G5) | 595x595x85 | 4,50 | 46 |
| Hermetic R 324 L98 | recessed | 3x24 (G5) | 595x595x85 | 4,50 | 73 |
| Hermetic R 414 K04 | recessed | 4x14 (G5) | 595x595x85 | 4,50 | 62 |
| Hermetic R 424 K05 | recessed | 4x24 (G5) | 595x595x85 | 4,50 | 97 |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Hermetic R 228 K06 | recessed | 2x28 (G5) | 295x1195x85 | 4,5 | 60 |
| Hermetic R 254 K07 | recessed | 2x54 (G5) | 295x1195x85 | 4,5 | 116 |
| Hermetic R 328 K18 | recessed | 3x28 (G5) | 595x1195x85 | 8,9 | 90 |
| Hermetic R 354 K19 | recessed | 3x54 (G5) | 595x1195x85 | 8,9 | 174 |
| Hermetic R 428 K08 | recessed | 4x28 (G5) | 595x1195x85 | 9,0 | 120 |
| Hermetic R 454 K09 | recessed | 4x54 (G5) | 595x1195x85 | 9,0 | 232 |
| Hermetic R 235 Q27 | recessed | 2x35 (G5) | 295x1495x85 | 5,8 | 75 |
| Hermetic R 249 Q28 | recessed | 2x49 (G5) | 295x1495x85 | 5,8 | 104 |
| Hermetic R 280 Q29 | recessed | 2x80 (G5) | 295x1495x85 | 5,9 | 170 |



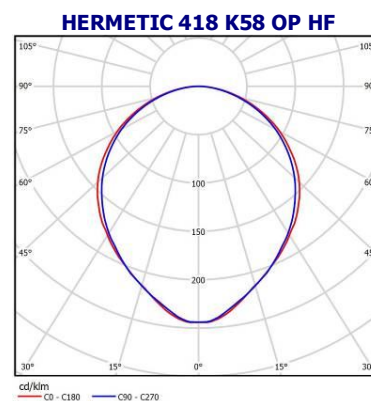
Hermetic T8/T5 surface mounted series

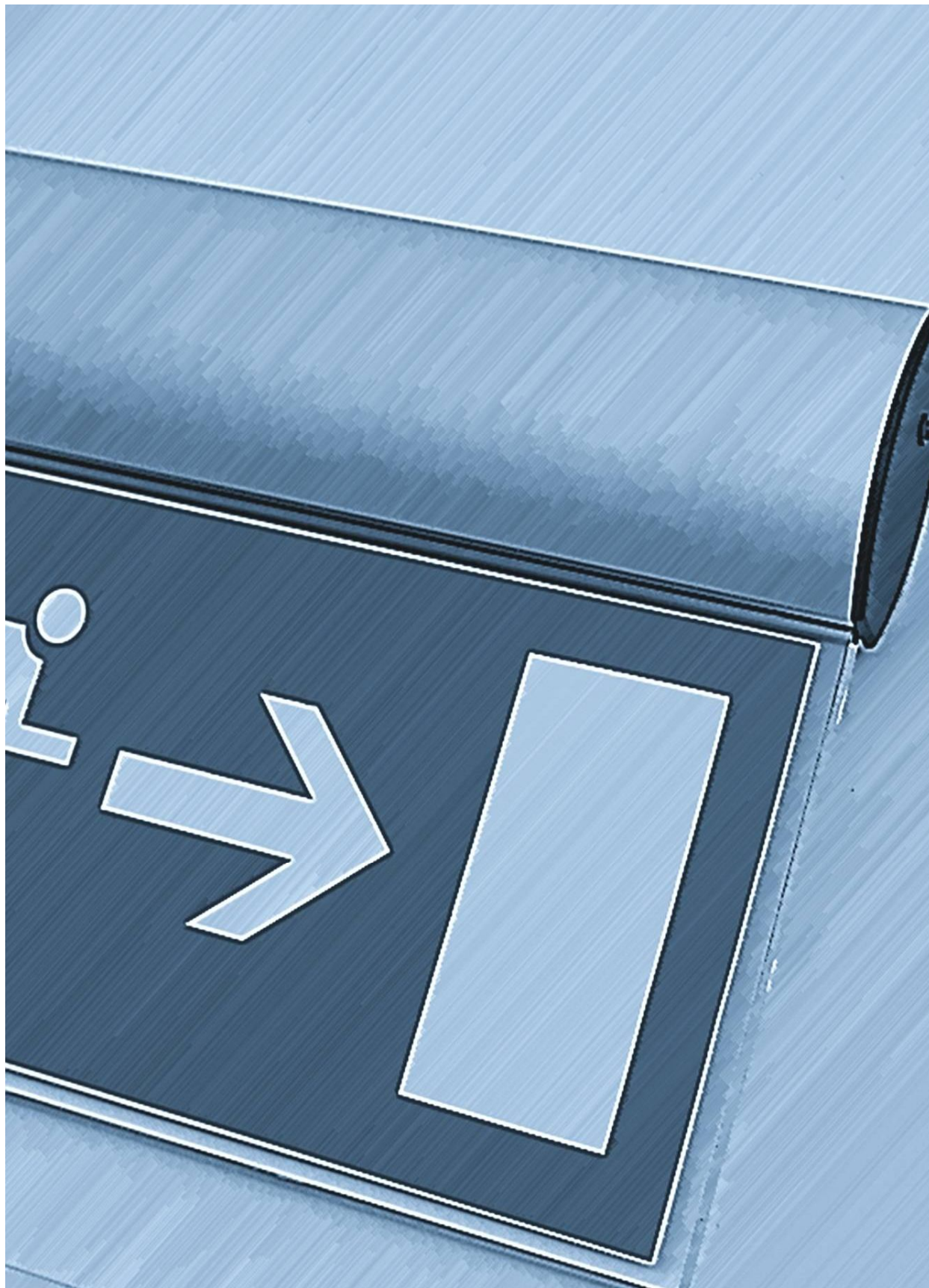
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Hermetic S 318 L99 | surface | 3x18 (G13) | 635x600x85 | 5,50 | 68 |
| Hermetic S 418 K60 | surface | 4x18 (G13) | 635x600x85 | 5,60 | 84 |
| Hermetic S 236 Q32 | surface | 2x36 (G13) | 1235x300x85 | 5,60 | 84 |
| Hermetic S 336 Q33 | surface | 3x36 (G13) | 1235x600x85 | 10,0 | 126 |
| Hermetic S 436 Q34 | surface | 4x36 (G13) | 1235x600x85 | 10,6 | 168 |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Hermetic S 314 M01 | surface | 3x14 (G5) | 635x600x85 | 4,70 | 46 |
| Hermetic S 324 M02 | surface | 3x24 (G5) | 635x600x85 | 4,70 | 73 |
| Hermetic S 414 K12 | surface | 4x14 (G5) | 635x600x85 | 4,70 | 62 |
| Hermetic S 424 K13 | surface | 4x24 (G5) | 635x600x85 | 4,70 | 97 |
| Hermetic S 228 K14 | surface | 2x28 (G5) | 1235x300x85 | 4,70 | 60 |
| Hermetic S 254 K15 | surface | 2x54 (G5) | 1235x300x85 | 4,70 | 116 |
| Hermetic S 328 K20 | surface | 3x28 (G5) | 1235x600x85 | 9,1 | 90 |
| Hermetic S 354 K21 | surface | 3x54 (G5) | 1235x600x85 | 9,1 | 174 |
| Hermetic S 428 K16 | surface | 4x28 (G5) | 1235x600x85 | 9,2 | 120 |
| Hermetic S 454 K17 | surface | 4x54 (G5) | 1235x600x85 | 9,2 | 232 |

Options available on request:

- HF- High Frequency control gear
- DIM- Dimmable ballast
- SWITCHDIM- Switch DIM ballast
- DALI- DALI ballast
- EMG- Emergency version 1 hour
- EM2- Emergency version 2 hours
- EM3- Emergency version 3 hours
- IP65- IP65 version with screws fixing
- OP- Opal diffuser
- PRZ- Prismatic diffuser
- PAR- Clear diffuser with PAR reflector
- STB- 5 way terminal block with two holes
- MAT- Matted reflector (subject to minimum order)
- MRO- Reflector Deluxe
- GLASSPAR- Tempered glass diffuser with PAR reflector
- GLASSOP- Frosted tempered glass diffuser





EMERGENCY

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EMERGENCY MONITORING SYSTEM



- Description:** In buildings where there is a need for installing 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 250 fittings with the possibility of extension up to 10 000 fittings. LCD monitor and 3 LED diodes signal the condition of the system.
White polycarbonate body.
-
- Installation:** Communication is run through a screened cable 2x0,5mm². Distance between the control unit and the furthest fitting – 1200 m, with possibility of extending the communication cables distance by another 1200m using the signal amplifier.
-
- Application:** For informational purposes when electricity supply fails.

Components of the system:



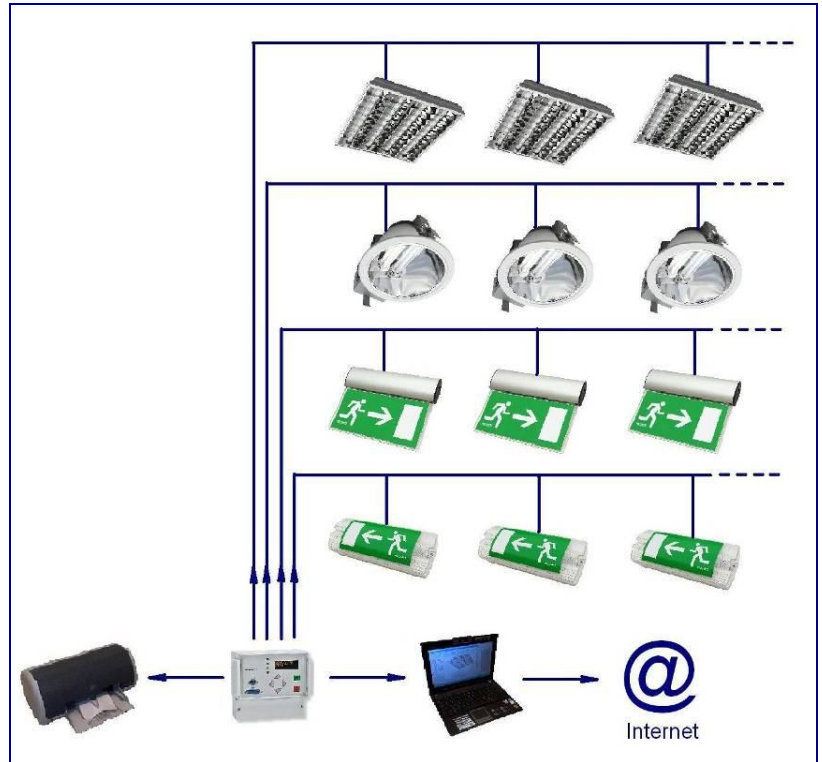
Addressing emergency modules programmer with independent power supply.



Nova EMS addressing emergency modules with unique address for magnetic and electronic ballasts. One-hour or three-hour standby operation with a recharge time of 24 hours.
Green diode signals correct battery charge
Red diode signals abnormal functioning of the fitting
Ambient temperature: 0°C to +40°C
Nova ES addressing emergency modules can be factory pre-programmed, in this case a programmer is not needed.

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)
- Printing test results using an external printer
- 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
- Control of the system from any place through internet links
- Test calendar configured to suit individual needs



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 (PN-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 (PN-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 ~~to be~~ 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.

NOVA

Emergency Conversion Kit



- Type:** A range of Conversion kits for magnetic and electronic ballasts. One-hour or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.
- Specification:** White polycarbonate body with LED status sensor. High- temperature nickel-cadmium batteries. Luminaire 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 dimensions, mm | Weight, kg |
|-------------|------------------------------------|--------------|------------------------|------------|
| NOVA L36/1 | for magnetic ballasts 8-36 W 1h | 3,6V 1,5Ah | 42x36x157 | 0,35 |
| NOVA L36/2 | for magnetic ballasts 8-36 W 2h | 3,6V 2,5Ah | 42x36x157 | 0,5 |
| NOVA L36/3 | for magnetic ballasts 8-36 W 3h | 3,6V 4Ah | 42x36x157 | 0,75 |
| NOVA L58/1 | for magnetic ballasts 36-58 W 1h | 4,8V 1,5Ah | 42x36x157 | 0,45 |
| NOVA L58/2 | for magnetic ballasts 36-58 W 2h | 4,8V 2,5Ah | 42x36x157 | 0,6 |
| NOVA L58/3 | for magnetic ballasts 36-58 W 3h | 4,8V 4Ah | 42x36x157 | 0,85 |
| NOVA L80/1 | for magnetic ballasts 58-80 W 1h | 6,0V 1,5Ah | 42x36x157 | 0,5 |
| NOVA L80/2 | for magnetic ballasts 58-80 W 2h | 6,0V 2,5Ah | 42x36x157 | 0,65 |
| NOVA L80/3 | for magnetic ballasts 58-80 W 3h | 6,0V 4Ah | 42x36x157 | 0,95 |
| NOVA LE36/1 | for electronic ballasts 8-36 W 1h | 3,6V 1,5Ah | 42x36x157 | 0,35 |
| NOVA LE36/2 | for electronic ballasts 8-36 W 2h | 3,6V 2,5Ah | 42x36x157 | 0,5 |
| NOVA LE36/3 | for electronic ballasts 8-36 W 3h | 3,6V 4Ah | 42x36x157 | 0,75 |
| NOVA LE58/1 | for electronic ballasts 36-58 W 1h | 4,8V 1,5Ah | 42x36x157 | 0,45 |
| NOVA LE58/2 | for electronic ballasts 36-58 W 2h | 4,8V 2,5Ah | 42x36x157 | 0,6 |
| NOVA LE58/3 | for electronic ballasts 36-58 W 3h | 4,8V 4Ah | 42x36x157 | 0,85 |
| NOVA LE80/1 | for electronic ballasts 58-80 W 1h | 6,0V 1,5Ah | 42x36x157 | 0,5 |
| NOVA LE80/2 | for electronic ballasts 58-80 W 2h | 6,0V 2,5Ah | 42x36x157 | 0,65 |
| NOVA LE80/3 | for electronic ballasts 58-80 W 3h | 6,0V 4Ah | 42x36x157 | 0,95 |

Options available on request:

- AUT- The fitting is equipped with an autonomous testing system
- EMS- The emergency monitoring system

NOVA tmin-25

Emergency Conversion Kit for low temperature applications



- Type:**

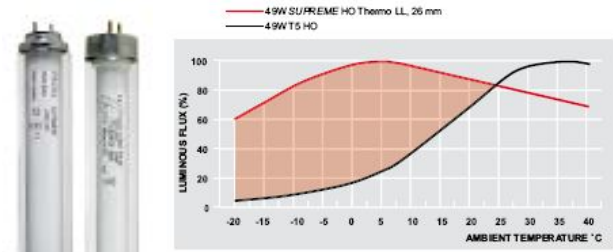
A range of Conversion kits for use in cold stores and other low temperature environments. One-hour or two-hour standby operation with a recharge time of 24 hours.
Ambient temperature: -25°C to +55°C.
- Specification:**

White polycarbonate body with LED status sensor. High- temperature nickel-cadmium batteries.
Conversion kit is boxed individually.
- Installation:**

Designed to be mounted inside fluorescent lighting fixtures.
- Application:**

For informational purposes when electricity supply fails. Ideal for low ambient temperatures down to -25°C.

| Type | Description | Battery type | Overall dimensions, mm | Weight, kg |
|---------------------|------------------------------------|--------------|------------------------|------------|
| Nova L36/1 tmin-25 | for magnetic ballasts 8-36 W 1h | 4V 2,5 Ah | 42x36x157 | 0,35 |
| Nova L36/2 tmin-25 | for magnetic ballasts 8-36 W 2h | 4V 5,0 Ah | 42x36x157 | 0,5 |
| Nova L58/1 tmin-25 | for magnetic ballasts 36-58 W 1h | 6V 2,5 Ah | 42x36x157 | 0,45 |
| Nova L58/2 tmin-25 | for magnetic ballasts 36-58 W 2h | 6V 5,0 Ah | 42x36x157 | 0,6 |
| Nova LE36/1 tmin-25 | for electronic ballasts 8-36 W 1h | 4V 2,5 Ah | 42x36x157 | 0,35 |
| Nova LE36/2 tmin-25 | for electronic ballasts 8-36 W 2h | 4V 5,0 Ah | 42x36x157 | 0,5 |
| Nova LE58/1 tmin-25 | for electronic ballasts 36-58 W 1h | 6V 2,5 Ah | 42x36x157 | 0,45 |
| Nova LE58/2 tmin-25 | for electronic ballasts 36-58 W 2h | 6V 5,0 Ah | 42x36x157 | 0,6 |



The special thermally insulated lamps should be used to obtain reliable operation in ambient temperatures -25°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 | T8 | | | | T5 | | | | | | | | | CFL (G24d-2, G24d-3, G24q-2, G24q-3, 2G11) | | | |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|
| Conversion kit/ Power | 18W | 36W | 38W | 58W | 14W | 24W | 21W | 39W | 28W | 54W | 35W | 49W | 80W | 13W | 18W | 26W | 55W |
| NOVA L36/1 | + | + | | | | | | | | | | | | + | + | + | |
| NOVA L36/3 | + | + | | | | | | | | | | | | + | + | + | |
| NOVA L58/1 | + | + | + | + | | | | | | | | | | + | + | + | |
| NOVA L58/3 | + | + | + | + | | | | | | | | | | + | + | + | |
| NOVA L80/1 | + | + | + | + | | | | | | | | | | + | + | + | |
| NOVA L80/3 | + | + | + | + | | | | | | | | | | + | + | + | |
| NOVA LE36/1* | + | + | | | + | + | + | | | | | | | + | + | + | |
| NOVA LE36/3* | + | + | | | + | + | + | | | | | | | + | + | + | |
| NOVA LE58/1* | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | |
| NOVA LE58/3* | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | |
| NOVA LE80/1* | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| NOVA LE80/3* | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

*- should be used in electronic versions

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

Types: 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 A07 RGD) or economic (Passat 418 A06). Wiring is concealed and not visible from ground level.

Installation: Luminaire is plastic-wrapped and packaged in twin boxes. Fits 15-24mm exposed T-bar ceilings 600x60mm.

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) | 598x299x85 | 2,4 | 42 |
| Passat 418 A06 | 4x18 (G13) | 595x595x72 | 2,6 | 84 |
| Passat 418 A07 RGD | 4x18 (G13) | 595x595x72 | 3,7 | 84 |
| Passat 236 D76 | 2x36 (G13) | 1234x299x85 | 3,9 | 84 |
| Passat 436 D77 | 4x36 (G13) | 1234x598x85 | 7,2 | 168 |

Options available on request:

- HF- High Frequency control gear
- DM- Dimmable ballasts
- EM1- Emergency version 1 hour
- EM2- Emergency version 2 hour
- EM3- Emergency version 3 hour
- 4TB- 4 way terminal block for loop feed and ease of wiring
- 5TB- 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- 3-pole connector (subject to minimum order)
- NCP- Low Power Factor

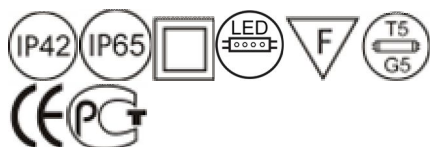
Passat 418 A06
Factory of reflection Ceiling/Wall/Floor, %

| Beam index | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.5 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 |
| 0.8 | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 |
| 1.25 | 49 | 46 | 43 | 40 | 37 | 34 | 31 | 28 | 25 | 22 | 19 | 16 | 13 | 10 | 8 |
| 2 | 53 | 50 | 46 | 42 | 38 | 34 | 30 | 26 | 22 | 18 | 14 | 10 | 7 | 4 | 2 |
| 3 | 55 | 51 | 47 | 43 | 39 | 35 | 31 | 27 | 22 | 17 | 12 | 8 | 5 | 3 | 1 |
| 5 | 58 | 53 | 49 | 45 | 40 | 36 | 32 | 28 | 22 | 16 | 11 | 7 | 4 | 2 | 0 |

Passat 418 A06
Factory of reflection Ceiling/Wall/Floor, %

APOLLO T5

IP42/65 Emergency Luminaire



Type: A range of IP42/IP65 Emergency luminaires for both mains and emergency operations. One-hour 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 IP42 or IP65 diffuser.
White polycarbonate body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|-----------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| APOLLO 1H18 B85 | 1x8 (T5, G5) | 1 | IP42 | Non-maintained | 356x136x79 | 0,99 |
| APOLLO 2H18 B86 | 1x8 (T5, G5) | 2 | IP42 | Non-maintained | 356x136x79 | 1,08 |
| APOLLO 3H18 B87 | 1x8 (T5, G5) | 3 | IP42 | Non-maintained | 356x136x79 | 1,14 |
| APOLLO 1P18 B88 | 1x8 (T5, G5) | 1 | IP42 | Maintained | 356x136x79 | 1,36 |
| APOLLO 2P18 B89 | 1x8 (T5, G5) | 2 | IP42 | Maintained | 356x136x79 | 1,45 |
| APOLLO 3P18 B90 | 1x8 (T5, G5) | 3 | IP42 | Maintained | 356x136x79 | 1,5 |
| APOLLO 1H18 B91 | 1x8 (T5, G5) | 1 | IP65 | Non-maintained | 356x136x79 | 1 |
| APOLLO 2H18 B92 | 1x8 (T5, G5) | 2 | IP65 | Non-maintained | 356x136x79 | 1,1 |
| APOLLO 3H18 B93 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 356x136x79 | 1,15 |
| APOLLO 1P18 B94 | 1x8 (T5, G5) | 1 | IP65 | Maintained | 356x136x79 | 1,4 |
| APOLLO 2P18 B95 | 1x8 (T5, G5) | 2 | IP65 | Maintained | 356x136x79 | 1,5 |
| APOLLO 3P18 B96 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 356x136x79 | 1,55 |

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|------------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| APOLLO 1H G21 OP | LED | 1 | IP42 | Non-maintained | 356x136x79 | 0,99 |
| APOLLO 2H G22 OP | LED | 2 | IP42 | Non-maintained | 356x136x79 | 1,08 |
| APOLLO 3H G23 OP | LED | 3 | IP42 | Non-maintained | 356x136x79 | 1,14 |
| APOLLO 1P G24 OP | LED | 1 | IP42 | Maintained | 356x136x79 | 1,36 |
| APOLLO 2P G25 OP | LED | 2 | IP42 | Maintained | 356x136x79 | 1,45 |
| APOLLO 3P G26 OP | LED | 3 | IP42 | Maintained | 356x136x79 | 1,5 |
| APOLLO 1H G27 OP | LED | 1 | IP65 | Non-maintained | 356x136x79 | 1 |
| APOLLO 2H G28 OP | LED | 2 | IP65 | Non-maintained | 356x136x79 | 1,1 |
| APOLLO 3H G29 OP | LED | 3 | IP65 | Non-maintained | 356x136x79 | 1,15 |
| APOLLO 1P G30 OP | LED | 1 | IP65 | Maintained | 356x136x79 | 1,4 |
| APOLLO 2P G31 OP | LED | 2 | IP65 | Maintained | 356x136x79 | 1,5 |
| APOLLO 3P G32 OP | LED | 3 | IP65 | Maintained | 356x136x79 | 1,55 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

SCORPIUS T5

IP42/IP65 Emergency Luminaire with Opal Diffuser



| | |
|-----------------------|---|
| Type: | Surface-mounted/suspended double-sided exit box for both mains and emergency operations. One-hour 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 IP42/IP65 opal diffuser. White polycarbonate body with LED status sensor. High-temperature nickel-cadmium batteries. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|-------------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| SCORPIUS 1H18 C04 | 1x8 (T5, G5) | 1 | IP42 | Non-maintained | 356x136x219 | 1,31 |
| SCORPIUS 2H18 C05 | 1x8 (T5, G5) | 2 | IP42 | Non-maintained | 356x136x219 | 1,41 |
| SCORPIUS 3H18 C06 | 1x8 (T5, G5) | 3 | IP42 | Non-maintained | 356x136x219 | 1,45 |
| SCORPIUS 1P18 C07 | 1x8 (T5, G5) | 1 | IP42 | Maintained | 356x136x219 | 1,68 |
| SCORPIUS 2P18 C08 | 1x8 (T5, G5) | 2 | IP42 | Maintained | 356x136x219 | 1,78 |
| SCORPIUS 3P18 C09 | 1x8 (T5, G5) | 3 | IP42 | Maintained | 356x136x219 | 1,84 |
| SCORPIUS 1H18 C10 | 1x8 (T5, G5) | 1 | IP65 | Non-maintained | 356x136x219 | 1,32 |
| SCORPIUS 2H18 C11 | 1x8 (T5, G5) | 2 | IP65 | Non-maintained | 356x136x219 | 1,42 |
| SCORPIUS 3H18 C12 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 356x136x219 | 1,46 |
| SCORPIUS 1P18 C13 | 1x8 (T5, G5) | 1 | IP65 | Maintained | 356x136x219 | 1,69 |
| SCORPIUS 2P18 C14 | 1x8 (T5, G5) | 2 | IP65 | Maintained | 356x136x219 | 1,79 |
| SCORPIUS 3P18 C15 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 356x136x219 | 1,85 |

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|--------------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| SCORPIUS 1H G33 OP | LED | 1 | IP42 | Non-maintained | 356x136x219 | 1,31 |
| SCORPIUS 2H G34 OP | LED | 2 | IP42 | Non-maintained | 356x136x219 | 1,41 |
| SCORPIUS 3H G35 OP | LED | 3 | IP42 | Non-maintained | 356x136x219 | 1,45 |
| SCORPIUS 1P G36 OP | LED | 1 | IP42 | Maintained | 356x136x219 | 1,68 |
| SCORPIUS 2P G37 OP | LED | 2 | IP42 | Maintained | 356x136x219 | 1,78 |
| SCORPIUS 3P G38 OP | LED | 3 | IP42 | Maintained | 356x136x219 | 1,84 |
| SCORPIUS 1H G39 OP | LED | 1 | IP65 | Non-maintained | 356x136x219 | 1,32 |
| SCORPIUS 2H G40 OP | LED | 2 | IP65 | Non-maintained | 356x136x219 | 1,42 |
| SCORPIUS 3H G41 OP | LED | 3 | IP65 | Non-maintained | 356x136x219 | 1,46 |
| SCORPIUS 1P G42 OP | LED | 1 | IP65 | Maintained | 356x136x219 | 1,69 |
| SCORPIUS 2P G43 OP | LED | 2 | IP65 | Maintained | 356x136x219 | 1,79 |
| SCORPIUS 3P G44 OP | LED | 3 | IP65 | Maintained | 356x136x219 | 1,85 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with an electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

VEGA T5

Slim Line IP42 Emergency Luminaire



Type: A range of IP42 Emergency luminaires with Class A High Frequency Control gear for both mains and emergency operations. One-hour or three-hour standby operation with a recharge time of 24 hours. Ambient temperature: 0°C to +40°C. Recognition distance 20 m.

Specification: Durable transparent polycarbonate IP42 diffuser. White polycarbonate body with corrugated plastic parabolic reflector. LED status sensor. High-temperature nickel-cadmium batteries. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|---------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| VEGA 1H18 B73 | 1x8 (T5, G5) | 1 | IP42 | Non-maintained | 350x144x50 | 0,72 |
| VEGA 2H18 B74 | 1x8 (T5, G5) | 2 | IP42 | Non-maintained | 350x144x50 | 0,85 |
| VEGA 3H18 B75 | 1x8 (T5, G5) | 3 | IP42 | Non-maintained | 350x144x50 | 0,9 |
| VEGA 1P18 B76 | 1x8 (T5, G5) | 1 | IP42 | Maintained | 350x144x50 | 0,77 |
| VEGA 2P18 B77 | 1x8 (T5, G5) | 2 | IP42 | Maintained | 350x144x50 | 0,9 |
| VEGA 3P18 B78 | 1x8 (T5, G5) | 3 | IP42 | Maintained | 350x144x50 | 0,95 |

Options available on request:

- AUT- The fitting is equipped with an autonomous testing system
- NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function
- CEB- The fitting is equipped with an electronic AC/DC ballast compatible with any central battery system
- EMS- The emergency monitoring system

ARIAS T5

IP65 Emergency Luminaire



| | |
|-----------------------|---|
| Type: | A range of IP42/IP65 Emergency luminaires for both mains and emergency operations. One-hour 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 IP42 or IP65 diffuser. White polycarbonate body with LED status sensor. High-temperature nickel-cadmium batteries. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|----------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| ARIAS 1H28 G53 | 2x8 (T5, G5) | 1 | IP65 | Non-maintained | 400x160x100 | 1,21 |
| ARIAS 2H28 G54 | 2x8 (T5, G5) | 2 | IP65 | Non-maintained | 400x160x100 | 1,3 |
| ARIAS 3H28 G55 | 2x8 (T5, G5) | 3 | IP65 | Non-maintained | 400x160x100 | 1,47 |
| ARIAS 1P28 G56 | 2x8 (T5, G5) | 1 | IP65 | Maintained | 400x160x100 | 1,9 |
| ARIAS 2P28 G57 | 2x8 (T5, G5) | 2 | IP65 | Maintained | 400x160x100 | 1,94 |
| ARIAS 3P28 G58 | 2x8 (T5, G5) | 3 | IP65 | Maintained | 400x160x100 | 2,1 |

Options available on request:

| | |
|------|--|
| AUT- | The fitting is equipped with an autonomous testing system |
| NET- | The fitting is operating with regular power 230V 50Hz is not equipped with emergency function |
| CEB- | The fitting is equipped with electronic AC/DC ballast compatible with any central battery system |
| EMS- | The emergency monitoring system |

TAURUS Deluxe

LED Emergency Exit Sign



Type: Surface/suspended double-sided LED exit sign 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 25 m.

Specification: Durable transparent polycarbonate IP20 diffuser.
Extruded aluminum body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceilings 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 ("Exit", "Left" and "Right") and ceiling (+ wall) mounting kits



Arrow Exit



Arrow Left



Arrow Right




| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|----------------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| TAURUS 1H G05 Deluxe | LED | 1 | IP20 | Non-maintained | 315x43x243 | 0,95 |
| TAURUS 2H G06 Deluxe | LED | 2 | IP20 | Non-maintained | 315x43x244 | 1,05 |
| TAURUS 3H G07 Deluxe | LED | 3 | IP20 | Non-maintained | 315x43x245 | 1,15 |
| TAURUS 1P G08 Deluxe | LED | 1 | IP20 | Maintained | 315x43x246 | 1,45 |
| TAURUS 2P G09 Deluxe | LED | 2 | IP20 | Maintained | 315x43x247 | 1,5 |
| TAURUS 3P G10 Deluxe | LED | 3 | IP20 | Maintained | 315x43x248 | 1,55 |

Options available on request:

IP54- Version available on request

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with  electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

CAPELLA

LED Double-sided Emergency Exit Sign



Type: Recessed double-sided LED exit sign for both mains and emergency operations. Three-hour standby operation with a recharge time of 12 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 25 m.

Specification: Durable transparent polycarbonate IP20 diffuser.
Silver painted steel body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

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

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

Supplied with legend kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

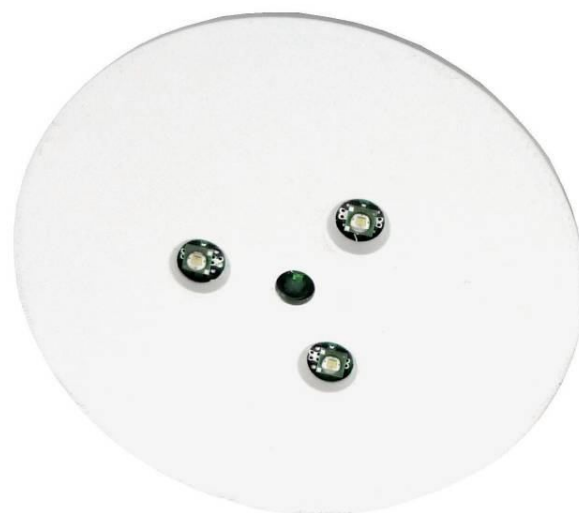
| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|----------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| CAPELLA 1H G17 | LED | 1 | IP20 | Non-maintained | 355x110x210 | 1,4 |
| CAPELLA 2H G18 | LED | 2 | IP20 | Non-maintained | 355x110x210 | 1,5 |
| CAPELLA 3H C24 | LED | 3 | IP20 | Non-maintained | 355x110x210 | 1,6 |
| CAPELLA 1P G19 | LED | 1 | IP20 | Maintained | 355x110x210 | 1,9 |
| CAPELLA 2P G20 | LED | 2 | IP20 | Maintained | 355x110x210 | 1,95 |
| CAPELLA 3P C25 | LED | 3 | IP20 | Maintained | 355x110x210 | 2 |

Options available on request:

- AUT- The fitting is equipped with an autonomous testing system
- NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function
- CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- EMS- The emergency monitoring system

ARA

LED Emergency Lighting Fitting



Type: Recessed LED emergency lighting luminaire for both mains and emergency operations. Three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.

Specification: White painted steel body with LED status sensor. High-temperature nickel-cadmium batteries. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be recessed mounted into plasterboard ceilings.

Application: For emergency escape routes and open areas.

| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|---------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| Ara 1HLED J01 | LED | 1 | IP20 | Non-maintained | Ø70x45 | 0,95 |
| Ara 2HLED J02 | LED | 2 | IP20 | Non-maintained | Ø70x45 | 1,05 |
| Ara 3HLED J03 | LED | 3 | IP20 | Non-maintained | Ø70x45 | 1,15 |
| Ara 1PLED J04 | LED | 1 | IP20 | Maintained | Ø70x45 | 1,45 |
| Ara 2PLED J05 | LED | 2 | IP20 | Maintained | Ø70x45 | 1,5 |
| Ara 3PLED J06 | LED | 3 | IP20 | Maintained | Ø70x45 | 1,55 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

Escape route illumination

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2,5 | 4 | 9 |
| 3 | 3,5 | 8 |
| 3,5 | 3,5 | 8 |
| 4 | 3,5 | 8 |
| 4,5 | 3 | 8 |
| 5 | 3 | 8 |
| 6 | 3 | 8 |
| 7 | 3 | 8 |
| 8 | 3 | 8 |

Open area illumination

| Height, m | Mounting distance from the wall, m | Mounting distance between the fittings, m |
|-----------|------------------------------------|---|
| 2,5 | 4 | 8 |
| 3 | 4 | 8 |
| 3,5 | 4 | 10 |
| 4 | 4 | 14 |
| 4,5 | 4 | 14 |
| 5 | 4 | 14 |
| 6 | 4,5 | 14,5 |
| 7 | 4,5 | 14,5 |
| 8 | 5 | 15 |

CORRIDOR

LED Emergency Lighting Fitting



Corridor 1PLED J10 WIDE

Type: Recessed LED emergency lighting luminaire for both mains and emergency operations. Three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.

Specification: White thermoplastic body. Power LED 3W diodes. High-temperature nickel-metal hydride battery. Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be recessed mounted into plasterboard ceilings.

Application: For emergency escape routes and open areas.

| Type | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions, mm | Weight, kg |
|--------------------|------------------|-----------|-----------------------|--------------------|------------------------|------------|
| Corridor 1HLED J07 | For escape route | 1x3 (LED) | 1 | Non-maintained | 95x95x48 | 0,95 |
| Corridor 2HLED J08 | For escape route | 1x3 (LED) | 2 | Non-maintained | 95x95x48 | 1,05 |
| Corridor 3HLED J09 | For escape route | 1x3 (LED) | 3 | Non-maintained | 95x95x48 | 1,15 |
| Corridor 1PLED J10 | For escape route | 1x3 (LED) | 1 | Maintained | 95x95x48 | 1,45 |
| Corridor 2PLED J11 | For escape route | 1x3 (LED) | 2 | Maintained | 95x95x48 | 1,5 |
| Corridor 3PLED J12 | For escape route | 1x3 (LED) | 3 | Maintained | 95x95x48 | 1,55 |

| Type | Application | Lamp type | Operating time, hours | Illumination modes | Overall dimensions, mm | Weight, kg |
|-------------------------|-----------------------|-----------|-----------------------|--------------------|------------------------|------------|
| Corridor 1HLED J07 WIDE | For area illumination | 1x3 (LED) | 1 | Non-maintained | 95x95x48 | 0,95 |
| Corridor 2HLED J08 WIDE | For area illumination | 1x3 (LED) | 2 | Non-maintained | 95x95x48 | 1,05 |
| Corridor 3HLED J09 WIDE | For area illumination | 1x3 (LED) | 3 | Non-maintained | 95x95x48 | 1,15 |
| Corridor 1PLED J10 WIDE | For area illumination | 1x3 (LED) | 1 | Maintained | 95x95x48 | 1,45 |
| Corridor 2PLED J11 WIDE | For area illumination | 1x3 (LED) | 2 | Maintained | 95x95x48 | 1,5 |
| Corridor 3PLED J12 WIDE | For area illumination | 1x3 (LED) | 3 | Maintained | 95x95x48 | 1,55 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

Escape route illumination

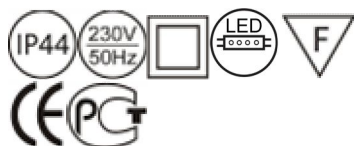
| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2,5 | 8 | 15 |
| 3 | 8 | 18 |
| 3,5 | 8 | 19 |
| 4 | 8 | 20 |
| 4,5 | 8 | 20 |
| 5 | 7 | 20 |
| 6 | 7 | 16 |
| 7 | 7 | 15 |
| 8 | 7 | 15 |

Open area illumination

| Height, m | Mounting distance from the wall, m (1lx) | Mounting distance between the fittings, m (1lx) |
|-----------|--|---|
| 2,5 | 4 | 11 |
| 3 | 4 | 11 |
| 3,5 | 4 | 11 |
| 4 | 3 | 11 |
| 4,5 | 3 | 10 |
| 5 | 3 | 9 |
| 6 | 3 | 9 |
| 7 | 3 | 7 |
| 8 | 2 | 6 |

LEPUS

LED Emergency Exit Sign



Type: Wall mounted LED emergency exit sign 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 30 m.

Specification: Durable transparent polycarbonate IP44 diffuser
Grey thermoplastic body with LED status sensor. 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 ("Exit", "Left" and "Right"):



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|-----------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| Lepus 1HLED J13 | LED | 1 | IP44 | Non-maintained | 330x45x180 | 0,95 |
| Lepus 2HLED J14 | LED | 2 | IP44 | Non-maintained | 330x45x180 | 1,05 |
| Lepus 3HLED J15 | LED | 3 | IP44 | Non-maintained | 330x45x180 | 1,15 |
| Lepus 1PLED J16 | LED | 1 | IP44 | Maintained | 330x45x180 | 1,45 |
| Lepus 2PLED J17 | LED | 2 | IP44 | Maintained | 330x45x180 | 1,5 |
| Lepus 3PLED J18 | LED | 3 | IP44 | Maintained | 330x45x180 | 1,55 |

Options available on request:

- AUT- The fitting is equipped with an autonomous testing system
- NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function
- CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- EMS- The emergency monitoring system

LEPORIS

LED Emergency Exit Sign



Type: Wall mounted LED emergency exit sign 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 30 m.

Specification: Durable transparent polycarbonate IP44 diffuser.
Grey thermoplastic body with LED status sensor. 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 ("Exit", "Left" and "Right"):



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|------------------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| Leporis 1HLED J19 ROPE | LED | 1 | IP44 | Non-maintained | 330x45x1250(180) | 0,95 |
| Leporis 2HLED J20 ROPE | LED | 2 | IP44 | Non-maintained | 330x45x1250(180) | 1,05 |
| Leporis 3HLED J21 ROPE | LED | 3 | IP44 | Non-maintained | 330x45x1250(180) | 1,15 |
| Leporis 1PLED J22 ROPE | LED | 1 | IP44 | Maintained | 330x45x1250(180) | 1,45 |
| Leporis 2PLED J23 ROPE | LED | 2 | IP44 | Maintained | 330x45x1250(180) | 1,5 |
| Leporis 3PLED J24 ROPE | LED | 3 | IP44 | Maintained | 330x45x1250(180) | 1,55 |
| Leporis 1HLED J19 | LED | 1 | IP44 | Non-maintained | 330x45x250 | 0,95 |
| Leporis 2HLED J20 | LED | 2 | IP44 | Non-maintained | 330x45x250 | 1,05 |
| Leporis 3HLED J21 | LED | 3 | IP44 | Non-maintained | 330x45x250 | 1,15 |
| Leporis 1PLED J22 | LED | 1 | IP44 | Maintained | 330x45x250 | 1,45 |
| Leporis 2PLED J23 | LED | 2 | IP44 | Maintained | 330x45x250 | 1,5 |
| Leporis 3PLED J24 | LED | 3 | IP44 | Maintained | 330x45x250 | 1,55 |

Options available on request:

ROPE- Suspended version

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

SEASON

IP42 Four Sided Emergency Luminaire



Type: Surface-mounted/suspended four-sided exit box for both mains and emergency operations. One-hour 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 polycarbonate IP42 opal diffuser.
White polycarbonate body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|------------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| Season 1H111 J25 | 1x11 (TC-EL, 2G7) | 1 | IP42 | Non-maintained | 240x240x240 | 2,31 |
| Season 2H111 J26 | 1x11 (TC-EL, 2G7) | 2 | IP42 | Non-maintained | 240x240x240 | 2,41 |
| Season 3H111 J27 | 1x11 (TC-EL, 2G7) | 3 | IP42 | Non-maintained | 240x240x240 | 2,45 |
| Season 1P111 J28 | 1x11 (TC-EL, 2G7) | 1 | IP42 | Maintained | 240x240x240 | 2,68 |
| Season 2P111 J29 | 1x11 (TC-EL, 2G7) | 2 | IP42 | Maintained | 240x240x240 | 2,78 |
| Season 3P111 J30 | 1x11 (TC-EL, 2G7) | 3 | IP42 | Maintained | 240x240x240 | 2,84 |

Options available on request:

- AUT- The fitting is equipped with an autonomous testing system
- NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function
- CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- EMS- The emergency monitoring system

DORADO

IP65 Emergency Luminaire



Type: Surface-mounted square emergency luminaire for both mains and emergency operations. One-hour or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.

Specification: Durable opal IP65 diffuser.
White plastic body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

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

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm |
|------------------|---------------------|-----------------------|----------|--------------------|------------------------|
| DORADO 1H111 O74 | 1x11 (TC-EL, 2G7) | 1 | IP65 | Non-maintained | 300x300x83 |
| DORADO 2H111 O75 | 1x11 (TC-EL, 2G7) | 2 | IP65 | Non-maintained | 300x300x83 |
| DORADO 3H111 O76 | 1x11 (TC-EL, 2G7) | 3 | IP65 | Non-maintained | 300x300x83 |
| DORADO 1P111 O77 | 1x11 (TC-EL, 2G7) | 1 | IP65 | Maintained | 300x300x83 |
| DORADO 2P111 O78 | 1x11 (TC-EL, 2G7) | 2 | IP65 | Maintained | 300x300x83 |
| DORADO 3P111 O79 | 1x11 (TC-EL, 2G7) | 3 | IP65 | Maintained | 300x300x83 |
| DORADO 1H211 O80 | 2x11 (TC-EL, 2G7) | 1 | IP65 | Non-maintained | 300x300x83 |
| DORADO 2H211 O81 | 2x11 (TC-EL, 2G7) | 2 | IP65 | Non-maintained | 300x300x83 |
| DORADO 3H211 O82 | 2x11 (TC-EL, 2G7) | 3 | IP65 | Non-maintained | 300x300x83 |
| DORADO 1P211 O83 | 2x11 (TC-EL, 2G7) | 1 | IP65 | Maintained | 300x300x83 |
| DORADO 2P211 O84 | 2x11 (TC-EL, 2G7) | 2 | IP65 | Maintained | 300x300x83 |
| DORADO 3P211 O85 | 2x11 (TC-EL, 2G7) | 3 | IP65 | Maintained | 300x300x83 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

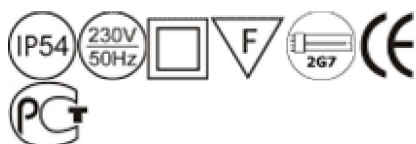
NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

POLLUX

IP 54 Emergency Luminaire



Type: Surface-mounted circular emergency luminaire for both mains and emergency operations. One-hour or three-hour standby operation with a recharge time of 24 hours.
Ambient temperature: 0°C to +40°C.

Specification: Durable white polycarbonate IP54 diffuser.
White plastic body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

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

Application: For informational purposes when electricity supply fails. Suitable for escape routes and open areas.

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm |
|-----------------|---------------------|-----------------------|----------|--------------------|------------------------|
| POLLUX 1H19 C32 | 1x9 (TC-SEL, 2G7) | 1 | IP54 | Non-maintained | 260x58 |
| POLLUX 2H19 C33 | 1x9 (TC-SEL, 2G7) | 2 | IP54 | Non-maintained | 260x58 |
| POLLUX 3H19 C34 | 1x9 (TC-SEL, 2G7) | 3 | IP54 | Non-maintained | 260x58 |
| POLLUX 1P19 C35 | 1x9 (TC-SEL, 2G7) | 1 | IP54 | Maintained | 260x58 |
| POLLUX 2P19 C36 | 1x9 (TC-SEL, 2G7) | 2 | IP54 | Maintained | 260x58 |
| POLLUX 3P19 C37 | 1x9 (TC-SEL, 2G7) | 3 | IP54 | Maintained | 260x58 |

Options available on request:

AUT- The fitting is equipped with an autonomous testing system

NET- The fitting is operating with regular power 230V 50Hz is not equipped with emergency function

CEB- The fitting is equipped with electronic AC/DC ballast compatible with any central battery system

EMS- The emergency monitoring system

LIBRA T5

IP65 Emergency Luminaire



- 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.
White ABS body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.
- Installation:

Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



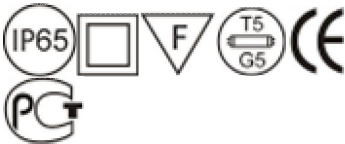
Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|----------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| LIBRA 3H18 G11 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 360x120x80 | 1,35 |
| LIBRA 3P18 G12 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 360x120x80 | 1,35 |

Options available on request:
SPORT- protective grid

HYDRA T5

IP65 Emergency Luminaire with Opal Diffuser



- 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 ABS body with LED status sensor. High-temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp (W) and socket | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|----------------|---------------------|-----------------------|----------|--------------------|------------------------|------------|
| HYDRA 3H18 G13 | 1x8 (T5, G5) | 3 | IP65 | Non-maintained | 355x120x170 | 1,65 |
| HYDRA 3P18 G14 | 1x8 (T5, G5) | 3 | IP65 | Maintained | 355x120x170 | 1,65 |

ZETA

LED Emergency Exit Sign



Type: Surface/suspended double-sided LED exit sign 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 30 m.

Specification: Transparent acrylic IP20 diffuser.
Extruded aluminum body with LED status sensor. High- temperature nickel-cadmium batteries.
Luminaire is plastic-wrapped and boxed individually.

Installation: Designed to be fixed onto ceilings 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

| Type | Lamp type | Operating time, hours | IP level | Illumination modes | Overall dimensions, mm | Weight, kg |
|---------------|-----------|-----------------------|----------|--------------------|------------------------|------------|
| ZETA 3H18 G15 | LED | 3 | IP65 | Non-maintained | 353x34x250 | 1,4 |
| ZETA 3P18 G16 | LED | 3 | IP65 | Maintained | 353x34x250 | 1,4 |



SPOTLIGHTS

www.northcliffe.org

PEGASUS

Recessed Adjustable Spot Light for Halogen Lamps



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 reflectors adjustable in all directions. Facetted aluminum reflector in non reflective enclosure. 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 ceilings, requires a cut-out. |
| Application: | Ideal for all display lighting, showrooms and exhibitions. |

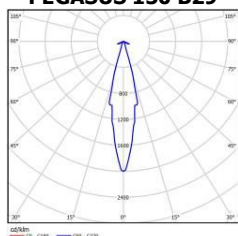
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| PEGASUS 150 B29 | 1x50W (GY6,35) | 205x205x203 | 0.8 | 50 |
| PEGASUS 250 B30 | 2x50W (GY6,35) | 390x205x203 | 1.6 | 100 |
| PEGASUS 350 B31 | 3x50W (GY6,35) | 520x205x203 | 2.2 | 150 |
| PEGASUS 450 B32 | 4x50W (GY6,35) | 362x362x203 | 3.0 | 200 |
| PEGASUS 450 B52 | 4x50W (GY6,35) | 668x205x203 | 3.0 | 200 |

Options available on request:
HV- Version with lamps for 220-240V AC voltage



| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| Pegasus HID 135 O97 HF | 1x35W (GX8,5) | 205x205x203 | 1,2 | 39 |
| Pegasus HID 170 O98 HF | 1x70W (GX8,5) | 205x205x203 | 1,2 | 78 |
| Pegasus HID 235 O99 HF | 2x35W (GX8,5) | 390x205x203 | 2 | 87 |
| Pegasus HID 270 P01 HF | 2x70W (GX8,5) | 390x205x203 | 2 | 156 |
| Pegasus HID 335 Q38 HF | 3x35W (GX8,5) | 520x205x203 | 3 | 126 |
| Pegasus HID 370 Q39 HF | 3x70W (GX8,5) | 520x205x203 | 3 | 234 |
| Pegasus HID 435 P02 HF | 4x35W (GX8,5) | 362x362x203 | 3,6 | 174 |
| Pegasus HID 470 P03 HF | 4x70W (GX8,5) | 362x362x203 | 3,6 | 312 |

PEGASUS 150 B29



PEGASUS LED

Recessed Adjustable Spot Light



Pegasus LED B119 1x530lm T840

Pegasus LED B120 2x530lm T840

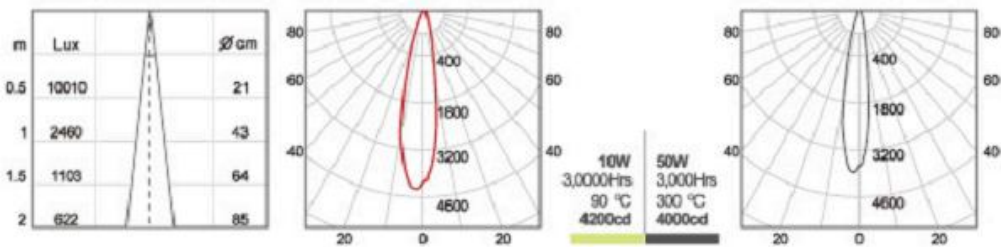
Pegasus LED B121 3x530lm T840



Fittings with a 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.

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Pegasus LED B119 1x550lm T840 | 205x205x123 | 550 | 4000 | >80 | 10 | 0,8 |
| Pegasus LED B120 2x550lm T840 | 390x205x123 | 1100 | 4000 | >80 | 20 | 1,6 |
| Pegasus LED B121 3x550lm T840 | 520x205x123 | 1650 | 4000 | >80 | 30 | 2,2 |
| Pegasus LED B122 4x550lm T840 | 362x362x123 | 2200 | 4000 | >80 | 40 | 3,0 |

Options available on request:
RAL- RAL colours

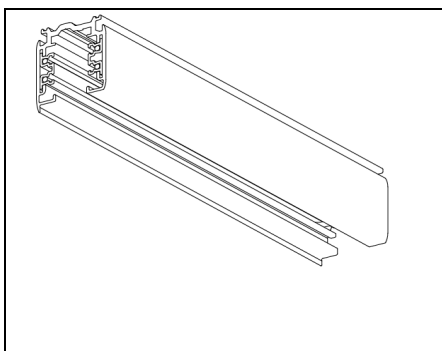
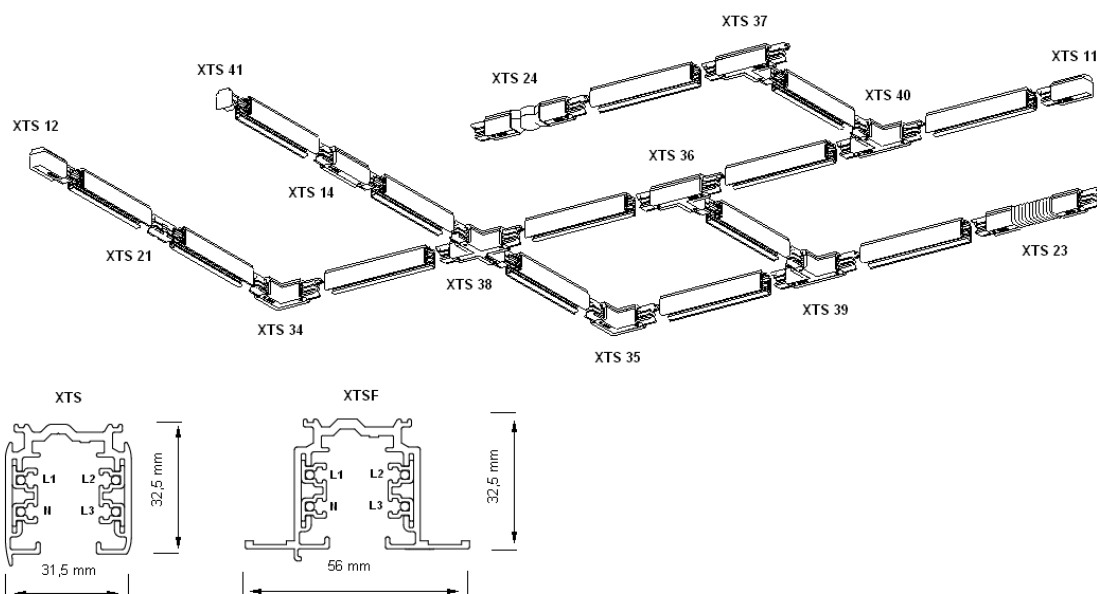




GLOBAL Track PRO

- 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.

Color options: Natural anodized aluminum, white (RAL 9010), black (RAL 9005).

Dimensions:

XTS 4100 H32.5xW31.5xL1000 mm

XTS 4200 H32.5xW31.5xL2000 mm

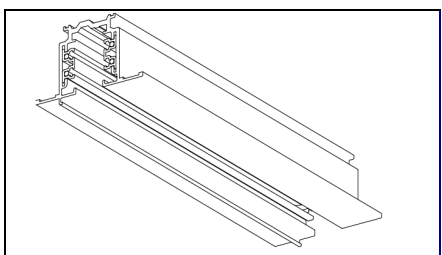
XTS 4300 H32.5xW31.5xL3000 mm

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.

Color options: Natural anodized aluminum, white (RAL 9010), black (RAL 9005).

Dimensions: H32.5xW56xL1000/2000/3000/4000 mm

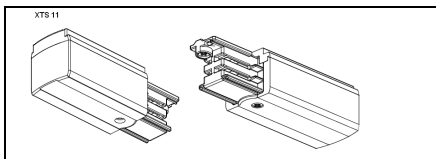
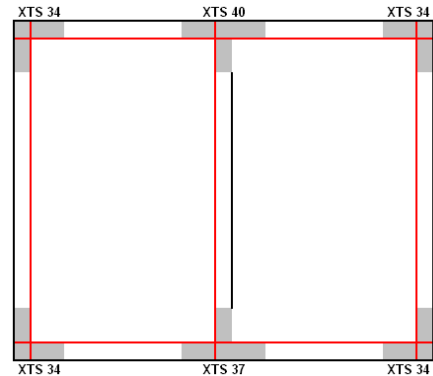
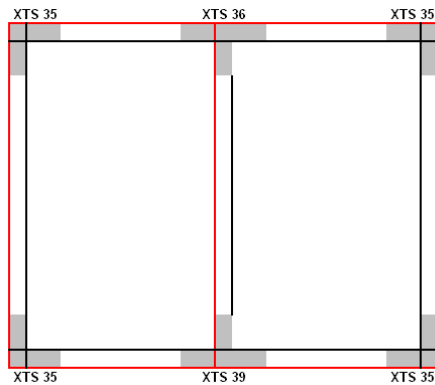
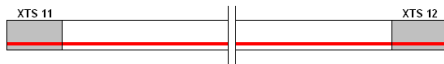
Possible connections:

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

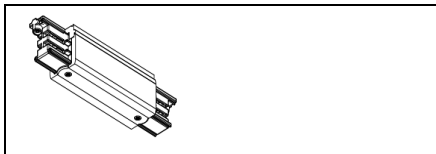
Red line indicates polarity ridge



Article: XTS 11, 12

End-feed – used to feed track from the end chosen, these could have 2 different polarity ridges.

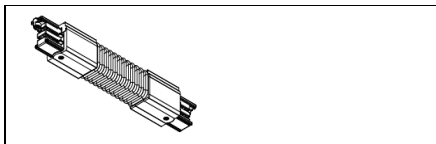
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 14

Middle-feed – used to feed track from the point chosen, these have 1 polarity ridge.

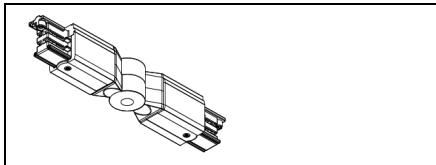
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 23

Flexible middle-feed – used to obtain angle needed, these have 1 polarity ridge.

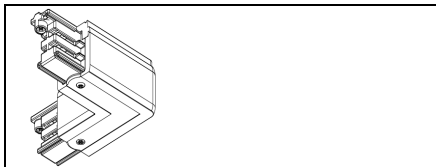
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 24

Adjusting middle-feed – used to obtain angle needed, these have 1 polarity ridge.

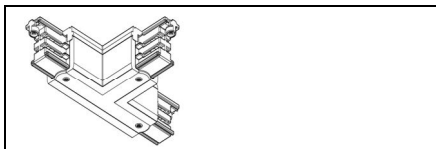
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 34, 35

L-feed – used to make track turn, these could have 2 different polarity ridges.

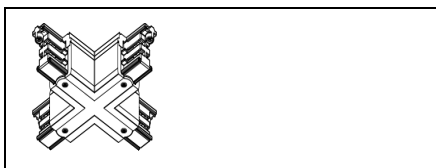
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 36, 37, 39, 40

T-feed – allows distributing through 3 branches, these could have 4 different polarity ridges.

Color 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.

Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 21

Straight connector – allows **connecting** tracks together.

Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 41

End cap – used to secure live ends of track.

Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



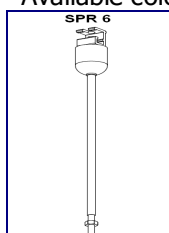
Article: GA 70

FIX point – used for single track light installation at point chosen.

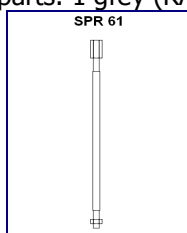
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).

The suspension applications for track system

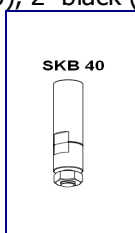
Available colors for parts: 1 grey (RAL 7040), 2- black (RAL 9005), 3- white (RAL 9010)



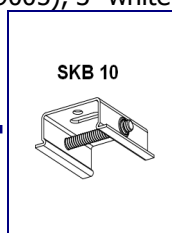
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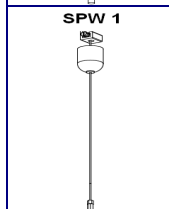
+



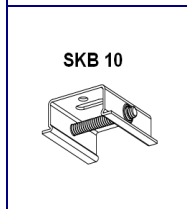
Rod suspension application with rod extension set or without:

SPR 6 1000mm

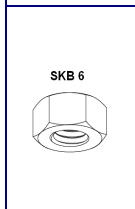
SPR 61 1000mm



+

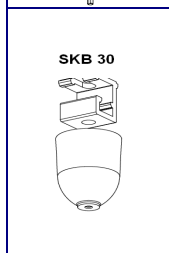


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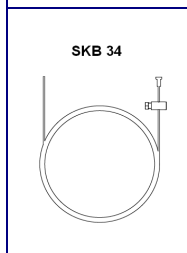


Wire suspension application with wire suspension set:

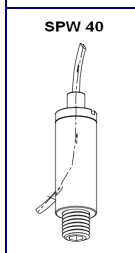
SPW 1 1500mm



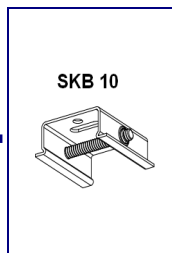
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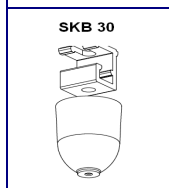
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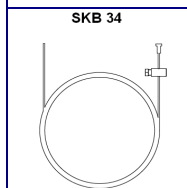
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Wire suspension application with fast mounting "click" and optional wire length:
SKB 34-1 1500mm
SKB 34-1/3m 3000mm
SKB 34-1/5m 3000mm



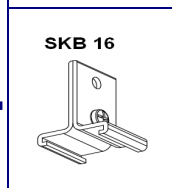
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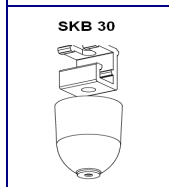
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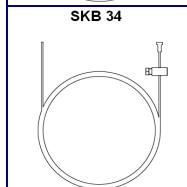
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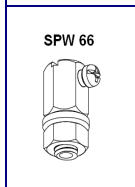
Wire suspension application with "T" clamp and optional wire length



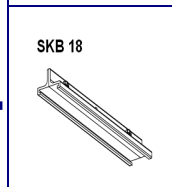
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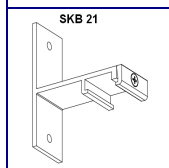
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Wire suspension application with "T" clamp for track connection and optional wire length



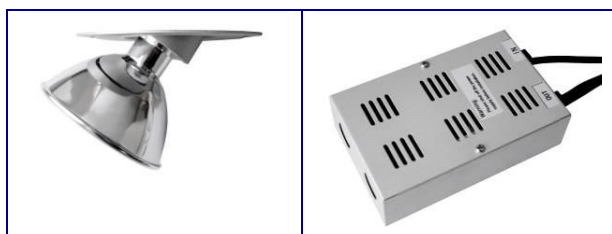
Wall fixing bracket application:
SKB 21

ATTIS

Round adjustable HID 35-70 W Luminaire with Symmetric Reflector



| | |
|-----------------------|--|
| Type: | A wide application discharge slim design recessed luminaire with symmetric different beam angle choice reflector designed for the accent lighting. Luminaires could be 120° far and wide adjusted without removing or disconnecting system from power network. |
| Specification: | Specular aluminum reflector with tempered glass cover. Die-cast aluminum housing grey powder coated. Protection degree IP20. Luminaire is plastic-wrapped and packaged separately. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Shops, department stores, public facilities, museums and etc. |



Versions equipped with electronic ballasts (or DIM and DALI- see options list) and independent gear box.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Attis 135 O86 24° HF | 1x35 W(G 12) | Ø110x90x140(130) | 1,1 | 43 |
| Attis 170 O87 24° HF | 1x70 W(G 12) | Ø110x90x140(130) | 1,2 | 78 |

Reflector for different light beam angle is available on request.

Options available on request:

- HF- High Frequency control gear
- 24°- Reflector with 24° light beam angle

ARES

Tracklight SLIM HID 35-70 W Luminaire with Symmetric Reflector



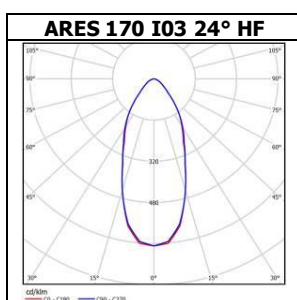
| | |
|-----------------------|--|
| Type: | A wide application discharge slim design open type track lights series with symmetric different beam angle choice reflector designed for the accent lighting. Supplied with GLOBAL brand adaptor. Track lights system ensures flexibility by adjusting luminaries according to your requirements. Luminaries could be removed or added or changed to different ones without disconnecting system from power network. |
| Specification: | Specular aluminum reflector with tempered glass cover. Die-cast aluminum housing grey powder coated. Protection degree IP20. Luminaire is plastic-wrapped and packaged 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 and etc. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Ares 135 I02 24° HF | 1x35 W(G 12) | Ø110x140x100 | 1,1 | 43 |
| Ares 170 I03 24° HF | 1x70 W(G 12) | Ø110x140x100 | 1,2 | 78 |

Reflector for different light beam angle is available on request.

Options available on request:

- 24°- Reflector with 24° light beam angle
- FXP- Fixed point installation box



SPHINX

Tracklight SLIM HID 35-70 W Luminaire with Symmetric Reflector



Type: A wide application discharge slim design open type track lights series with symmetric different beam angle choice reflector designed for the accent lighting. Supplied with GLOBAL brand adaptor. Track lights system ensures flexibility by adjusting luminaires according to your requirements. Luminaires could be removed or added or changed to different ones without disconnecting system from power network.

Specification: Specular aluminum reflector. Tempered glass diffuser in aluminum frame.
Die-cast aluminum housing grey powder coated. Protection degree IP20.
Luminaire is plastic-wrapped and packaged separately.

Installation: Surface luminaire is designed to be fixed into tracks or at fixed points by removing track adaptor.

Application: Shops, department stores, public facilities, museums and etc.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|----------------------------------|------------|------------------|
| Sphinx 135 I04 24° HF | 1x35 W(G 12) | Ø120x165x100 | 1,3 | 43 |
| Sphinx 170 I05 24° HF | 1x70 W(G 12) | Ø120x165x100 | 1,5 | 78 |

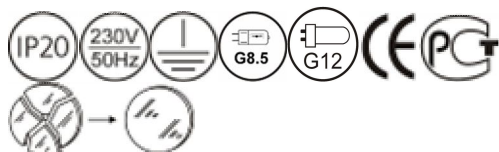
Reflector for different light beam angle available is on request.

Options available on request:

- 24°- Reflector with 24° light beam angle
- FXP- Fixed point installation box

CALIPSO

Tracklight HID 35-70 W Luminaire with Symmetric Reflector



| | |
|-----------------------|--|
| Type: | A wide application discharge slim design open type track lights series with symmetric different beam angle choice reflector designed for the accent lighting. Supplied with GLOBAL brand adaptor. Track lights system ensures flexibility by adjusting luminaires according to your requirements. Luminaires could be removed or added or changed to different ones without disconnecting system from power network. |
| Specification: | Specular aluminum reflector. Tempered glass diffuser in aluminum frame. Die-cast aluminum housing grey powder coated. Protection degree IP20. Luminaire is plastic-wrapped and packaged separately. |
| Installation: | Surface luminaire is designed to be fixed into tracks or at fixed points by removing track adaptor. |
| Application: | Shops, department stores, public facilities, museums and etc. |

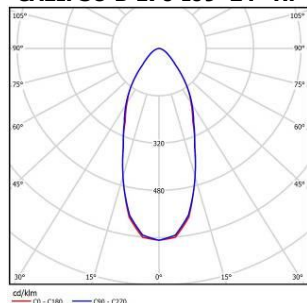
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|------------------------|------------|------------------|
| Calipso 135 I06 24° HF | 1x35 W(G8,5) | Ø120x270x295 | 1,8 | 43 |
| Calipso 170 I07 24° HF | 1x70 W(G8,5) | Ø120x270x295 | 1,9 | 78 |
| Calipso B 135 I08 24° HF | 1x35 W(G 12) | Ø132x245x210 | 2,4 | 43 |
| Calipso B 170 I09 24° HF | 1x70 W(G 12) | Ø132x245x210 | 2,5 | 78 |

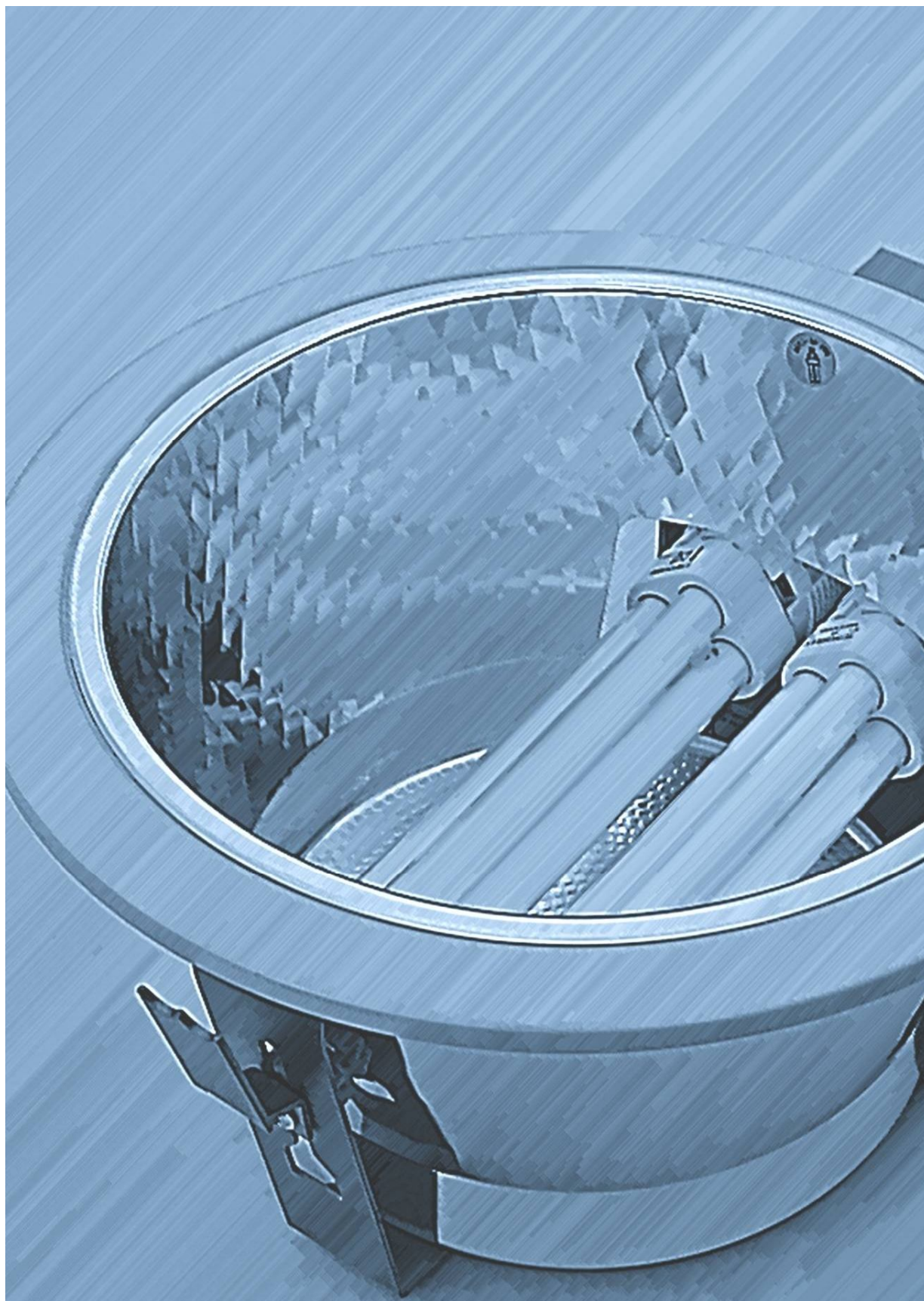
Reflector for different light beam angle available on request

Options available on request:

- 24°- Reflector with 24° light beam angle
- FXP- Fixed point installation box

CALIPSO B 170 I09 24° HF



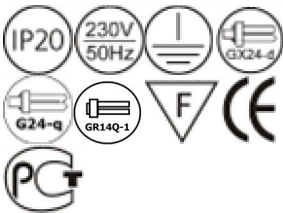


DOWNLIGHTS

www.northcliffe.org

ORION

Recessed
Downlight for
Compact
Fluorescent
Lamp



Orion 226 B28 FCT

Orion 226 B28 GLR

Orion 226 B28 OGL

| | |
|----------------|---|
| Type: | Recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimal ceiling void. |
| Specification: | Gloss aluminum reflector with white powder coated steel ring. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |



SGEARS - Versions with electronic ballasts (also DIM and DALI) and independent gear box available on request. See Option list.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 | 1x13W (G24d-1) | 193(165)x100 | 1,3 | 19 |
| Orion 213 D46 | 2x13W (G24d-1) | 193(165)x100 | 1,7 | 38 |
| Orion 118 E60 | 1x18W (G24d-2) | 193(165)x100 | 1,4 | 26 |
| Orion 218 B27 | 2x18W (G24d-2) | 193(165)x100 | 1,8 | 52 |
| Orion 126 I95 | 1x26W (G24d-3) | 193(165)x100 | 1,5 | 34 |
| Orion 226 I96 | 2x26W (G24d-3) | 193(165)x100 | 1,9 | 68 |
| Orion 126 D47 | 1x26W (G24d-3) | 235(210)x126 | 1,6 | 34 |
| Orion 226 B28 | 2x26W (G24d-3) | 235(210)x126 | 2,1 | 68 |
| Orion 132 J40 HF | 1x32W (Gx24q-3) | 235(210)x126 | 1,2 | 32 |
| Orion 142 J41 HF | 1x42W (Gx24q-4) | 235(210)x126 | 1,2 | 44 |
| Orion 132 J38 HF | 1x32W (Gx24q-3) | 260(245)x178 | 1,7 | 32 |
| Orion 232 K28 HF | 2x32W (Gx24q-3) | 260(245)x178 | 1,8 | 64 |
| Orion 142 J39 HF | 1x42W (Gx24q-4) | 260(245)x178 | 1,7 | 44 |
| Orion 242 K29 HF | 2x42W (Gx24q-4) | 260(245)x178 | 1,8 | 85 |
| <i>Energy saving series:</i> | | | | |
| Orion 114 O89 HF | 1x14W (GR14q-1) | 235(210)x126 | 1,2 | 18 |
| Orion 117 O90 HF | 1x17W (GR14q-1) | 235(210)x126 | 1,2 | 21,5 |
| Orion 114 O91 HF | 1x14W (GR14q-1) | 260(245)x178 | 1,7 | 18 |
| Orion 214 O92 HF | 2x14W (GR14q-1) | 260(245)x178 | 1,8 | 34 |
| Orion 117 O93 HF | 1x17W (GR14q-1) | 260(245)x178 | 1,7 | 21,5 |
| Orion 217 O94 HF | 2x17W (GR14q-1) | 260(245)x178 | 1,8 | 41 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

5TB- 5 way terminal block for loop feed and ease of wiring

MAT- Matted reflector

FCT- Facetted reflector

OGL- Decorative glass outside (in middle frosted)

GLR- Decorative frosted ring outside

RAL- RAL colours

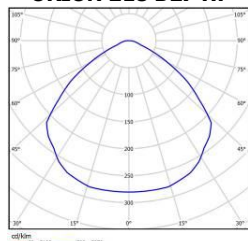
CR- Chrome plated ring

GOLD- Gold plated ring



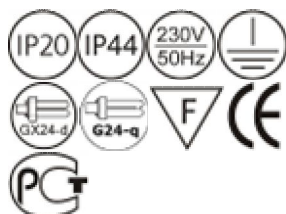
Steel ring can be optional: RAL powder coated, chrome or gold plated (see option list)

ORION 218 B27 HF



ORION OP

Recessed Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



Type: Recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimal ceiling void.

Specification: Matted aluminum reflector with white powder coated steel ring. Frosted glass cover. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually.

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

Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 OP | 1x13W (G24d-1) | 193(165)x100 | 1,3 | 19 |
| Orion 213 D46 OP | 2x13W (G24d-1) | 193(165)x100 | 1,7 | 38 |
| Orion 118 E60 OP | 1x18W (G24d-2) | 193(165)x100 | 1,4 | 26 |
| Orion 218 B27 OP | 2x18W (G24d-2) | 193(165)x100 | 1,8 | 52 |
| Orion 126 D47 OP | 1x26W (G24d-3) | 235(205)x126 | 1,6 | 34 |
| Orion 226 B28 OP | 2x26W (G24d-3) | 235(205)x126 | 2,1 | 68 |

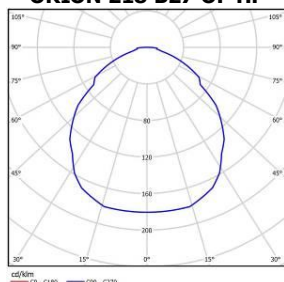
1x32/42W versions available on request

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

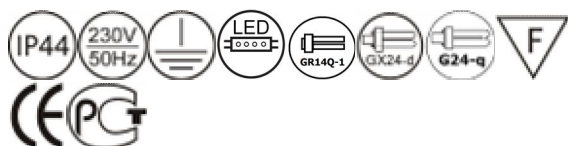
4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 PRZ- Prismatic glass
 IP44- Protection degree from water and dust
 RAL- RAL colors
 CLR- Clear glass

ORION 218 B27 OP HF



ORION SOP

Recessed Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



Orion 226 B28 SOP CLR



Orion 226 B28 SOP MPRZ



Orion 226 B28 SOP PRZ

| | |
|-----------------------|--|
| Type: | Recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimum ceiling void. |
| Specification: | Aluminum reflector with white powder coated steel ring. Frosted glass cover. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 D45 SOP | 1x13W (G24d-1) | 193(165)x100 | 1,3 | 19 |
| Orion 213 D46 SOP | 2x13W (G24d-1) | 193(165)x100 | 1,7 | 38 |
| Orion 118 E60 SOP | 1x18W (G24d-2) | 193(165)x100 | 1,4 | 26 |
| Orion 218 B27 SOP | 2x18W (G24d-2) | 193(165)x100 | 1,8 | 52 |
| Orion 126 D47 SOP | 1x26W (G24d-3) | 235(205)x126 | 1,6 | 34 |
| Orion 226 B28 SOP | 2x26W (G24d-3) | 235(205)x126 | 2,1 | 68 |
| Orion 132 J40 SOP HF | 1x32W (Gx24q-3) | 235(210)x126 | 1,2 | 32 |
| Orion 142 J41 SOP HF | 1x42W (Gx24q-4) | 235(210)x126 | 1,2 | 44 |
| Orion 132 J38 SOP HF | 1x32W (Gx24q-3) | 260(245)x178 | 1,7 | 32 |
| Orion 232 K28 SOP HF | 2x32W (Gx24q-3) | 260(245)x178 | 1,8 | 64 |
| Orion 142 J39 SOP HF | 1x42W (Gx24q-4) | 260(245)x178 | 1,7 | 44 |
| Orion 242 K29 SOP HF | 2x42W (Gx24q-4) | 260(245)x178 | 1,8 | 85 |

Energy saving series:

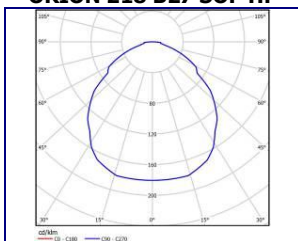
| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Orion 114 089 SOP HF | 1x14W (GR14q-1) | 235(210)x126 | 1,2 | 18 |
| Orion 117 090 SOP HF | 1x17W (GR14q-1) | 235(210)x126 | 1,2 | 21,5 |
| Orion 114 091 SOP HF | 1x14W (GR14q-1) | 260(245)x178 | 1,7 | 18 |
| Orion 214 092 SOP HF | 2x14W (GR14q-1) | 260(245)x178 | 1,8 | 34 |
| Orion 117 093 SOP HF | 1x17W (GR14q-1) | 260(245)x178 | 1,7 | 21,5 |
| Orion 217 094 SOP HF | 2x17W (GR14q-1) | 260(245)x178 | 1,8 | 41 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block for loop feed and ease of wiring
 RAL- RAL colors
 CLR- Clear glass
 MPRZ- Mikroprismatic diffuser
 PRZ- Prismatic diffuser

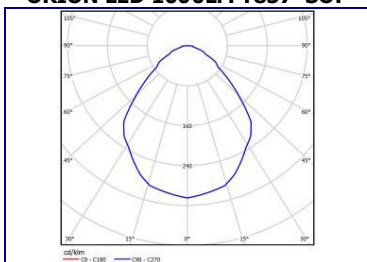
ORION 218 B27 SOP HF



LED series:

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|------------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Orion LED B118 950lm T840 SOP | 235(210)x126 | 950 | 4000 | >80 | 11 | 1,2 |
| Orion LED B118 1000lm T857 SOP | 235(210)x126 | 1000 | 5700 | >80 | 11 | 1,2 |
| Orion LED B118 950lm T840 SOP PRZ | 235(210)x126 | 950 | 4000 | >80 | 11 | 1,2 |
| Orion LED B118 1000lm T857 SOP PRZ | 235(210)x126 | 1000 | 5700 | >80 | 11 | 1,2 |

ORION LED 1000LM T857 SOP



ORION MIR

Recessed Downlight for Compact Fluorescent Lamp with Radial Louvre or Cross-reflector



Orion 226 MR4 MAT

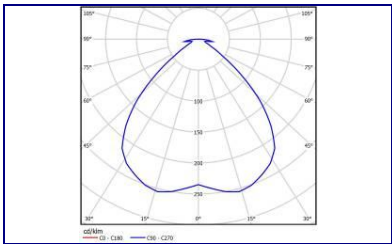
| | |
|----------------|--|
| Type: | Recessed downlight with radial louvre and horizontal lamp position for compact fluorescent lamps. |
| Specification: | Gloss aluminum reflector with radial cross blades for better protection from direct glare. White powder coated steel ring outside. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|----------------------------------|------------|------------------|
| Orion 213 D46 MIR | 2x13W (G24d-1) | 235(205)x155 | 1,95 | 38 |
| Orion 218 B27 MIR | 2x18W (G24d-2) | 235(205)x155 | 1,95 | 42 |
| Orion 226 B28 MIR | 2x26W (G24d-3) | 235(205)x155 | 2,5 | 60 |

Options available on request:

| | | | |
|------------|-----------------------------|------|---|
| HF- | High Frequency control gear | EM2- | Emergency version 2 hours |
| DIM- | Dimmable ballast | EM3- | Emergency version 3 hours |
| SWITCHDIM- | Switch DIM ballast | 5TB- | 5 way terminal block for loop feed and ease of wiring |
| DALI- | DALI ballast | MAT- | Matted reflector |
| EMG- | Emergency version 1 hour | MR4- | Cross-shape reflector |

ORION 218 B27 MIR



Ursa

Recessed Downlight with Vertical Lamp Position



Ursa 118 I22 SOP

Ursa 118 I22

| | |
|-----------------------|---|
| Type: | Recessed downlight with vertical lamp position for compact fluorescent lamps. |
| Specification: | Gloss aluminum reflector with white powder coated steel ring. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|----------------------------------|------------|------------------|
| Ursa 1E27 I20 | 40W (E27) | 180(155)x185 | 0,8 | - |
| Ursa 113 I21 | 1x13W (G24d-1) | 180(155)x185 | 1,0 | 19 |
| Ursa 118 I22 | 1x18W (G24d-2) | 180(155)x185 | 1,0 | 26 |
| Ursa 1E27 I20 FCT | 40W (E27) | 180(155)x205 | 0,8 | - |
| Ursa 113 I21 FCT | 1x13W (G24d-1) | 180(155)x205 | 1,1 | 19 |
| Ursa 118 I22 FCT | 1x18W (G24d-2) | 180(155)x205 | 1,1 | 26 |
| Ursa 1E27 I20 SOP | 40W (E27) | 180(155)x185 | 1,0 | - |
| Ursa 113 I21 SOP | 1x13W (G24d-1) | 180(155)x185 | 1,2 | 19 |
| Ursa 118 I22 SOP | 1x18W (G24d-2) | 180(155)x185 | 1,2 | 26 |

Options available on request:

HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours
 FCT- Facetted reflector
 SOP- Surface frosted glass cover
 RAL- RAL colors

TETRA SOP

Square Recessed Downlight with Frosted Glass Cover



Type: Square recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimal ceiling void.

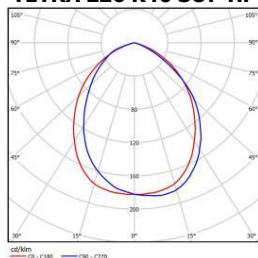
Specification: Aluminum reflector with white powder coated aluminum frame. Frosted glass cover. Body in steel with white finish, gearbox with grey finish. Luminaire is plastic-wrapped and boxed individually.

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

Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|----------------------|---------------------|----------------------------------|------------|------------------|
| Tetra 113 K35 SOP | 1x13W (G24d-1) | 232x232(210x210)x90 | 1,4 | 19 |
| Tetra 213 K36 SOP | 2x13W (G24d-1) | 232x232(210x210)x90 | 1,8 | 38 |
| Tetra 118 K37 SOP | 1x18W (G24d-2) | 232x232(210x210)x90 | 1,4 | 26 |
| Tetra 218 K38 SOP | 2x18W (G24d-2) | 232x232(210x210)x90 | 1,8 | 52 |
| Tetra 126 K39 SOP | 1x26W (G24d-3) | 232x232(210x210)x90 | 1,6 | 34 |
| Tetra 226 K40 SOP | 2x26W (G24d-3) | 232x232(210x210)x90 | 2,1 | 68 |
| Tetra 132 K41 SOP HF | 1x32W (G24q-4) | 232x232(210x210)x90 | 1,7 | 32 |
| Tetra 232 K42 SOP HF | 2x32W (G24q-4) | 232x232(210x210)x90 | 1,8 | 64 |
| Tetra 142 K43 SOP HF | 1x42W (G24q-4) | 232x232(210x210)x90 | 1,7 | 44 |
| Tetra 242 K44 SOP HF | 2x42W (G24q-4) | 232x232(210x210)x90 | 1,8 | 85 |
| Tetra 1E27 K45 SOP | max. 60W (E27) | 232x232(210x210)x90 | 1,2 | - |
| Tetra 2E27 M64 SOP | max. 2x40W (E27) | 232x232(210x210)x90 | 1,3 | - |

TETRA 226 K40 SOP HF



Energy saving series:

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|------------------|---------------------|----------------------------------|------------|------------------|
| Tetra 114 Q40 HF | 1x14W (GR14q-1) | 232x232(210x210)x90 | 1,7 | 18 |
| Tetra 214 Q41 HF | 2x14W (GR14q-1) | 232x232(210x210)x90 | 1,8 | 34 |
| Tetra 117 Q42 HF | 1x17W (GR14q-1) | 232x232(210x210)x90 | 1,7 | 21,5 |
| Tetra 217 Q43 HF | 2x17W (GR14q-1) | 232x232(210x210)x90 | 1,8 | 41 |

Options available on request:

HF- High Frequency control gear

DIM- Dimmable ballast

SWITCHDIM- Switch DIM ballast

DALI- DALI ballast

EMG- Emergency version 1 hour

EM2- Emergency version 2 hours

EM3- Emergency version 3 hours

5TB- 5 way terminal block for loop feed and ease of wiring

RAL- RAL colors

CLR- Clear glass

MPRZ- Mikroprismatic diffuser

PRZ- Prismatic diffuser

LED series:

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|----------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Tetra LED B188 1x950lm T840 SOP | 232x232(210x210)x90 | 950 | 4000 | >80 | 11 | 1,2 |
| Tetra LED B188 1x1000lm T857 SOP | 232x232(210x210)x90 | 1000 | 5700 | >80 | 11 | 1,2 |
| Tetra LED B188 1x950lm T840 PRZ | 232x232(210x210)x90 | 950 | 4000 | >80 | 11 | 1,2 |
| Tetra LED B188 1x1000lm T857 PRZ | 232x232(210x210)x90 | 1000 | 5700 | >80 | 11 | 1,2 |

TETRA MIR

Square Recessed Downlight with Cross-shape Reflector

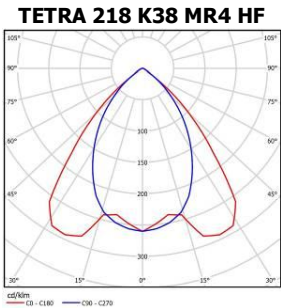


| | |
|----------------|---|
| Type: | Square recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimal ceiling void. |
| Specification: | Aluminum Cross-shape reflector with white powder coated aluminum frame. Body in zinc plated steel. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------------------------------|------------|------------------|
| Tetra 213 K36 MR4 | 2x13W (G24d-1) | 225x225(205x205)x135 | 1,95 | 38 |
| Tetra 218 K38 MR4 | 2x18W (G24d-2) | 225x225(205x205)x135 | 1,95 | 52 |
| Tetra 226 K40 MR4 | 2x26W (G24d-3) | 225x225(205x205)x135 | 2,15 | 68 |
| Tetra 2E27 M64 MR4 | max. 2x40W (E27) | 225x225(205x205)x135 | 1,15 | - |

Options available on request:

| | | | |
|-------|-----------------------------|------|---|
| HF- | High Frequency control gear | EM3- | Emergency version 3 hours |
| DIM- | Dimmable ballasts | 4TB- | 4 way terminal block for loop feed and ease of wiring |
| DALI- | DALI ballasts | 5TB- | 5 way terminal block for loop feed and ease of wiring |
| EMG- | Emergency version 1 hour | RAL- | RAL colors |
| EM2- | Emergency version 2 hours | MR4- | Cross-shape reflector |



ORION

Surface Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



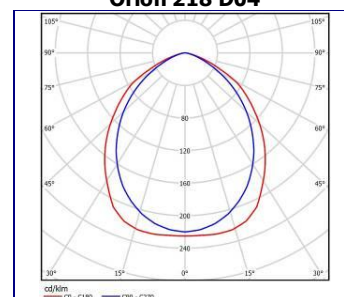
| | |
|-----------------------|---|
| Type: | Surface downlight for compact fluorescent lamps with frosted glass cover and horizontal lamp position with minimal body height. |
| Specification: | Aluminum reflector with frosted glass cover. White painted steel body. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface mounting. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|---------------|---------------------|----------------------------------|------------|------------------|
| Orion 113 K22 | 1x13W (G24d-1) | 268x70 | 1,4 | 19 |
| Orion 213 D97 | 2x13W (G24d-1) | 268x70 | 1,7 | 38 |
| Orion 118 K23 | 1x18W (G24d-2) | 268x70 | 1,5 | 26 |
| Orion 218 D04 | 2x18W (G24d-2) | 268x70 | 1,8 | 52 |
| Orion 126 K24 | 1x26W (G24d-3) | 268x70 | 1,7 | 34 |
| Orion 226 D05 | 2x26W (G24d-3) | 268x70 | 2,1 | 68 |

Options available on request:

- HF- High Frequency control gear
- EMG- Emergency version 1 hour
- CLR- Clear glass
- MPRZ- Mikroprismatic diffuser
- PRZ- Prismatic diffuser

Orion 218 D04



ORIONIS

An Architecturally Inspired Surface Downlight for Compact Fluorescent Lamp with Frosted Glass Cover



Type: An architecturally inspired surface mounted downlight for compact fluorescent lamps with frosted glass cover and horizontal lamp position.

Specification: Aluminum reflector with frosted glass cover.
White painted steel body.
Luminaire is plastic-wrapped and boxed individually.

Installation: Surface mounting.

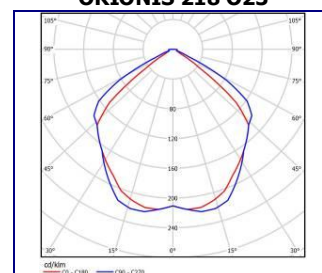
Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|----------------------------------|------------|------------------|
| Orionis 113 O20 | 1x13W (G24d-1) | Ø238x158 | 2,05 | 19 |
| Orionis 213 O21 | 2x13W (G24d-1) | Ø238x158 | 2,35 | 38 |
| Orionis 118 O22 | 1x18W (G24d-2) | Ø238x158 | 2,05 | 26 |
| Orionis 218 O23 | 2x18W (G24d-2) | Ø238x158 | 2,35 | 52 |
| Orionis 126 O24 | 1x26W (G24d-3) | Ø238x158 | 2,25 | 34 |
| Orionis 226 O25 | 2x26W (G24d-3) | Ø238x158 | 2,65 | 68 |

Options available on request:

- HF- High Frequency control gear
- DIM- Dimmable ballast
- SWITCHDIM- Switch DIM ballast
- DALI- DALI ballast
- EMG- Emergency version 1 hour
- EM2- Emergency version 2 hours
- EM3- Emergency version 3 hours
- CLR- Clear glass
- MPRZ- Mikroprismatic diffuser
- PRZ- Prismatic diffuser
- STB- 5 way terminal block for loop feed and ease of wiring

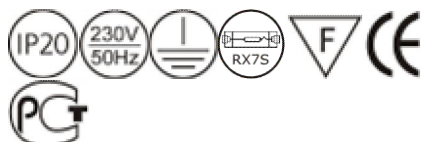
ORIONIS 218 O23



| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|------------------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Orionis LED B187 1x950lm T840 OP | Ø238x158 | 950 | 4000 | >80 | 11 | 1,2 |
| Orionis LED B187 1x1000lm T857 OP | Ø238x158 | 1000 | 5700 | >80 | 11 | 1,2 |
| Orionis LED B187 1x950lm T840 PRZ | Ø238x158 | 950 | 4000 | >80 | 11 | 1,2 |
| Orionis LED B187 1x1000lm T857 PRZ | Ø238x158 | 1000 | 5700 | >80 | 11 | 1,2 |

MIZAR

Recessed Downlight for Metal Halide Lamps with Frosted Glass



Mizar 170 D98 SOP

Type: Recessed downlight with frosted glass with horizontal lamp position for metal halide lamps. High performance downlights, ideal for high mounting applications.

Specification: Aluminum reflector with frosted glass.
Body in steel with white finish, gearbox with black finish.
Luminaire is plastic-wrapped and boxed individually.

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

Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

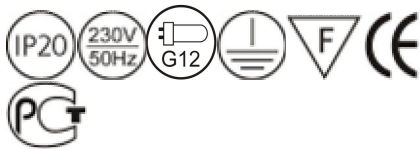
| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------------------------------|------------|------------------|
| Mizar 170 E01 OP | 1x70W (Rx7s) | 265(230)x195 | 2,7 | 80 |
| Mizar 1150 E02 OP | 1x150W (Rx7s) | 265(230)x195 | 2,9 | 170 |
| Mizar 170 D98 SOP | 1x70W (Rx7s) | 265(230)x195 | 2,7 | 80 |
| Mizar 1150 D99 SOP | 1x150W (Rx7s) | 265(230)x195 | 2,9 | 170 |

Options available on request:

HF- High Frequency control gear
TP- With built-in thermal protector
HS- For high pressure sodium lamp
RAL- RAL colors

CANIS

Adjustable Circular Downlight for Metal Halide Lamps



Canis 170 O17

| | |
|-----------------------|--|
| Type: | A range of round adjustable downlights for metal halide lamps. |
| Specification: | Aluminum reflector with tempered glass. Body in cast aluminum with white finish, gearbox with black finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Decorative lighting for shops, displays, interiors, offices, receptions and other public areas. |

| Type | Lamp (W) and socket | 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 |
| TP- | With built-in thermal protector |
| TIM- | Timed ignitor |
| RAL- | RAL colors |

DELPHINUS

Adjustable Circular Downlight for Metal Halide Lamps



Delphinus 170 O18

Type: A range of square adjustable downlights for metal halide lamps.

Specification: Aluminum reflector with tempered glass.
Body in cast aluminum with white finish, gearbox with black finish.
Luminaire is plastic-wrapped and boxed individually.

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

Application: Decorative lighting for shops, displays, interiors, offices, receptions and other public areas.

| Type | Lamp (W) and socket | 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 colors

PERSEUS OP

Recessed IP65 Downlight with Frosted Glass Cover



| | |
|-----------------------|--|
| Type: | Recessed IP65 downlight for maximum protection and use in adverse conditions. |
| Specification: | Matted aluminum reflector with grey powder coated aluminium ring. Frosted glass cover. Die-casting aluminium body with grey finish. Silicon gasket. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for plasterboard or similar types of ceilings, requires a cut-out. |
| Application: | Dust and moisture proof luminaire, ideal for environments subject to humidity and excessive dust. |

| Type | Lamp (W) and socket | Overall dimensions (cut-out), mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|----------------------------------|------------|------------------|
| Perseus 113 Q46 OP | 1x13W (G24d-1) | 230(210)x195 | 2,0 | 19 |
| Perseus 213 Q47 OP | 2x13W (G24d-1) | 230(210)x195 | 2,3 | 38 |
| Perseus 118 Q44 OP | 1x18W (G24d-2) | 230(210)x195 | 2,1 | 26 |
| Perseus 218 Q45 OP | 2x18W (G24d-2) | 230(210)x195 | 2,4 | 52 |

Options available on request:

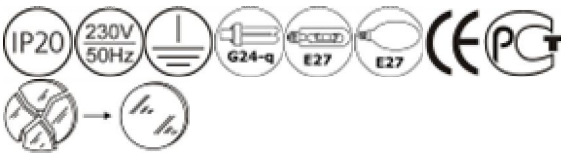
| | |
|------------|---|
| HF- | High Frequency control gear |
| DIM- | Dimmable ballast |
| SWITCHDIM- | Switch DIM ballast |
| DALI- | DALI ballast |
| 5TB- | 5 way terminal block for loop feed and ease of wiring |
| RAL- | RAL colors |

HIGH BAYS

www.northcliffe.org

MONTBLANC

High-Bay Luminaire for Metal Halide Lamps



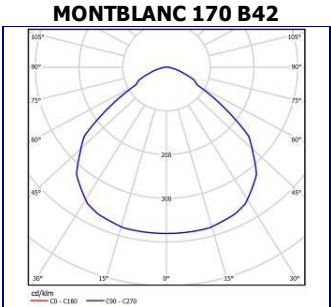
| | |
|----------------|---|
| Type: | Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications. |
| Specification: | Body in die-cast aluminum with grey finish, reflector in aluminum with matt finish, frosted glass cover. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Supplied with suspension hook and chain for easy mounting. |
| Application: | For use in most industrial and many commercial applications. |



Suspension kit **is** supplied together with the fixture.

| Type | Lamp type, W | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------|------------------------|------------|------------------|
| Montblanc 142 M53 | 1x42 (G24q-4) | 330x350 | 3,6 | 44 |
| Montblanc 242 M54 | 2x42 (G24q-4) | 330x350 | 3,7 | 85 |
| Montblanc 170 B42 | 1x70W | 330x350 | 4.6 | 80 |
| Montblanc 1150 B41 | 1x150W | 330x350 | 5.5 | 170 |

- Options available on request:
- HF- High Frequency control gear
 - TP- Built-in thermal protector
 - DIM- Dimmable ballast
 - SWITCHDIM- Switch DIM ballast
 - DALI- DALI ballast



PRIZMA

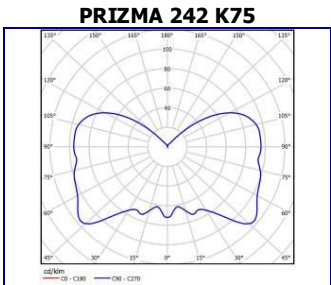
High-Bay Luminaire with Prismatic Reflector



| | |
|----------------|---|
| Type: | Luminaire for high mounting applications with transparent prismatic reflector. |
| Specification: | Aluminum body with light grey finish, transparent prismatic reflector. Protection cover is supplied on request. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Supplied with suspension hook for easy mounting. |
| Application: | For use in most industrial and many commercial applications. |

| Type | Lamp type, W | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------|------------------------|------------|------------------|
| Prizma 142 K74 HF | 1x42 (G24d-4) | Ø420x530 | 3,6 | 44 |
| Prizma 242 K75 HF | 2x42 (G24d-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 (G24d-4) | Ø510x595 | 4,9 | 132 |
| Prizma 1250 K73 | 1x250 (E40) | Ø510x595 | 6,8 | 280 |

- Options available on request:
- HF- High Frequency control gear
 - TP- Built-in thermal protector
 - DIM- Dimmable ballast
 - SWITCHDIM- Switch DIM ballast
 - DALI- DALI ballast
 - COVER- PC protection cover



AUSTER

High-Bay Luminaire for Metal Halide Lamps



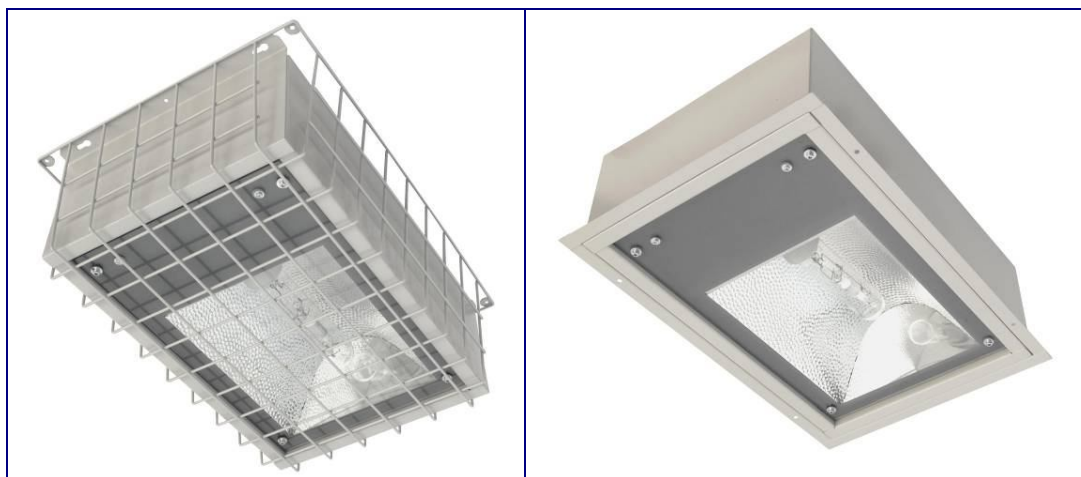
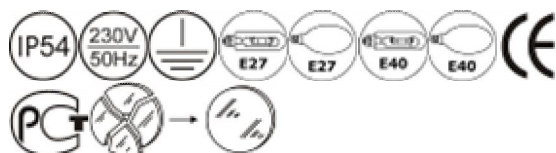
| | |
|-----------------------|---|
| Type: | Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications. |
| Specification: | Body in die-cast aluminum with grey finish, reflector in aluminum with matt finish, frosted glass cover. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Supplied with suspension hook and chain for easy mounting. |
| Application: | For use in most industrial and many commercial applications. |

| Type | Lamp type, W | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------|------------------------|------------|------------------|
| Auster 142 Q48 | 1x42 (G24q-4) | 315x381 | 3,6 | 44 |
| Auster 170 Q49 | 1x70W | 315x381 | 4.6 | 80 |
| Auster 1150 Q50 | 1x150W | 315x381 | 5.5 | 170 |

Options available on request:
HF- High Frequency control gear
TP- Built-in thermal protector
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

NORTE

Low-Bay Luminaire for Metal Halide Lamps



Norte 1250 G96 HI GRID

Norte 1250 G96 HI FRAME

| | |
|-----------------------|--|
| Type: | Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications. |
| Specification: | White painted steel body. Parabolic reflector in symmetrical faceted aluminum with clear glass cover. Luminaire is plastic-wrapped and packed separately. |
| Installation: | Suitable for surface mounting on ceilings. |
| Application: | For use in factories, warehouses, garages, halls and many others commercial applications. |

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|-------------|---------------------|------------------------|------------|------------------|
| Norte 1150 G95 HI | HI | 1x150 (E27) | 365x490x175 | 7,5 | 170 |
| Norte 1250 G96 HI | HI | 1x250 (E40) | 365x490x175 | 7,9 | 280 |
| Norte 1400 G97 HI | HI | 1x400 (E40) | 365x490x175 | 8,4 | 440 |
| Norte 1150 G98 HS | HS | 1x150 (E40) | 365x490x175 | 7,5 | 170 |
| Norte 1250 G96 HS | HS | 1x250 (E40) | 365x490x175 | 7,9 | 280 |
| Norte 1400 G97 HS | HS | 1x400 (E40) | 365x490x175 | 8,4 | 440 |

Options available on request:

TP- Built-in thermal protector

HS- For high pressure sodium **lamp**

GRID- Protection grid

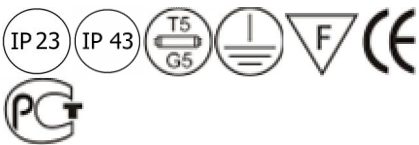
AS- Asymmetric reflector

FRAME- Frame for recessed mounting

IP65- IP65 version

SKY SPORT

Luminaire with Wire-guard for use in Sport Halls



| | |
|----------------|--|
| Type: | Luminaire with protection grid for use in Sport halls. High performance, ideal for high mounting applications. |
| Specification: | Mirror aluminum reflector. Protective frame retaining clips and hinges for easy maintenance. IP43 version is made with clear polycarbonate diffuser (see option list) White painted steel body with wire-guard. Luminaire is plastic-wrapped and packaged in twin boxes. |
| Installation: | Surface luminaire is designed to be fixed to ceilings of any type or suspended. |
| Application: | For use in all sports, athletics and recreational halls with ceiling heights of 4 meters and higher. |



Protection grid hinges and stainless steel clips for easy access to maintain luminaire

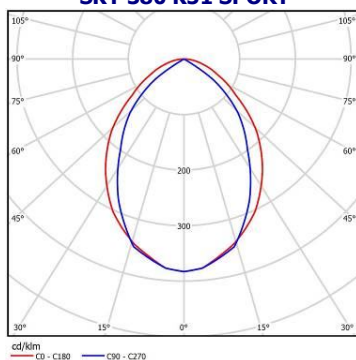
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|---------------------|------------------------|------------|------------------|
| Sky 235 K46 SPORT | 2x35 (G5) | 1510x315x135 | 6,2 | 76 |
| Sky 335 K47 SPORT | 3x35 (G5) | 1510x315x135 | 6,6 | 114 |
| Sky 249 K48 SPORT | 2x49 (G5) | 1510x315x135 | 6,2 | 105 |
| Sky 349 K49 SPORT | 3x49 (G5) | 1510x315x135 | 6,6 | 158 |
| Sky 280 K50 SPORT | 2x80 (G5) | 1510x315x135 | 6,2 | 170 |
| Sky 380 K51 SPORT | 3x80 (G5) | 1510x315x135 | 6,6 | 255 |

Options available on request:

DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast
 EMG- Emergency version 1 hour
 EM2- Emergency version 2 hours
 EM3- Emergency version 3 hours

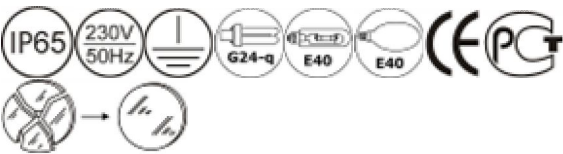
4TB- 4 way terminal block for loop feed and ease of wiring
 5TB- 5 way terminal block with two holes (for in and out going cable)
 MAT- Matted reflector (subject to minimum order)
 IP43- With PC diffuser and IP43 protection

SKY 380 K51 SPORT



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. High performance, ideal for high mounting applications. |
| Specification: | Body in die-cast aluminum with grey finish. Parabolic reflector in aluminum with matted finish, clear glass cover. 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: | For use in most industrial and many commercial applications. |



Through wired
version is available
on request



Switching device

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|-------------|---------------------|------------------------|------------|------------------|
| Everest 332 K77 | IP65, CFL | 3x32 (G24q-4) | 485x615 | 7,2 | 96 |
| Everest 342 K78 | IP65, CFL | 3x42 (G24q-4) | 485x615 | 7,2 | 132 |
| Everest 1150 I31 HI | IP65, HI | 1x150 (E27) | 485x615 | 8,6 | 170 |
| Everest 1250 E65 HI | IP65, HI | 1x250 (E40) | 485x615 | 9 | 280 |
| Everest 1400 E66 HI | IP65, HI | 1x400 (E40) | 485x615 | 9,5 | 440 |
| Everest 1150 I32 HS | IP65, HS | 1x150 (E40) | 485x615 | 8,6 | 170 |
| Everest 1250 E67 HS | IP65, HS | 1x250 (E40) | 485x615 | 9 | 280 |
| Everest 1400 E68 HS | IP65, HS | 1x400 (E40) | 485x615 | 9,5 | 440 |

Options available on request:

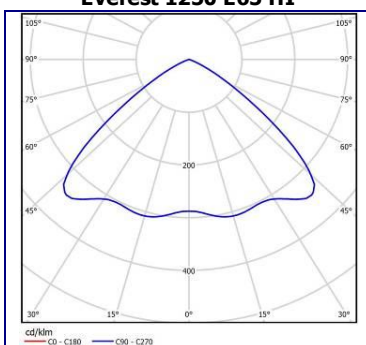
TiM- Timmed ignitor
HS- For high pressure sodium lamp
STR- Strip type reflector
IP23- Without protection glass
GRID- Protection grid

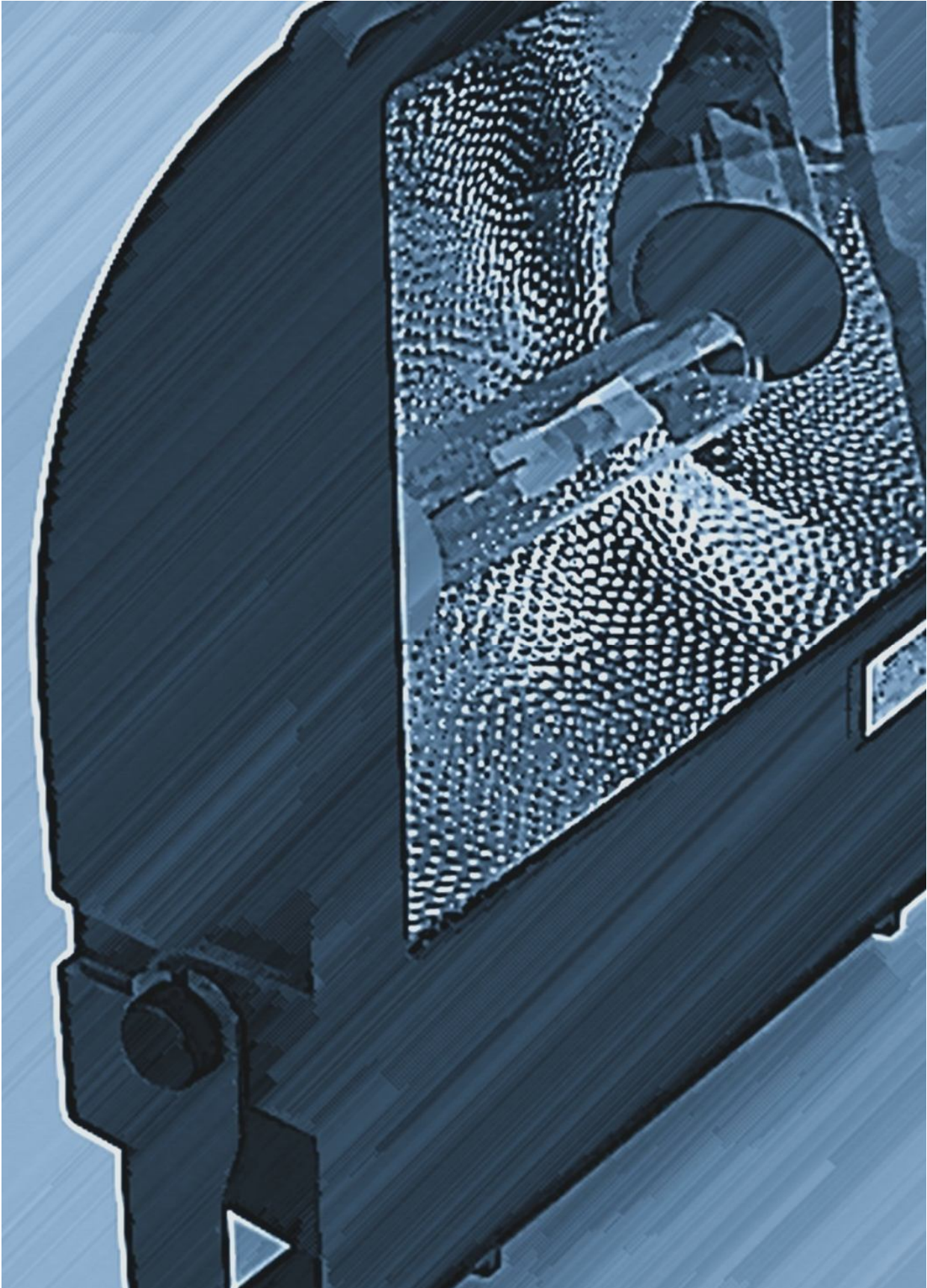
1LIN- Through wiring version with two sealing washers
GLMAT- Frosted tempered glass
SWITCH- Switching device
SINGLE- Single packaging (assembled)
RAL- Reflector and body painted RAL color



Reflector and body
painted RAL colour
(subject to a minimum
order quantity)

Everest 1250 E65 HI





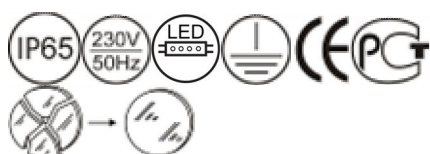
NORTHCLIFFE
MAKING LIFE BRIGHTER

FLOODLIGHTS

www.northcliffe.org

BOREAS LED

LED Floodlight with Symmetrical Reflector

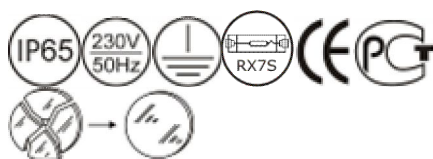


| | |
|-----------------------|--|
| Type: | A range of LED floodlights with symmetrical reflector. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc. |

| Type | Overall dimensions, mm | Luminous flux, lm | Color temperature, K | Color rendering, Ra | Total wattage, W | Weight, kg |
|-----------------------------|------------------------|-------------------|----------------------|---------------------|------------------|------------|
| Boreas LED B188 800lm T840 | 150x205x50 | 800 | 4000 | >80 | 10 | 3,5 |
| Boreas LED B188 900lm T857 | 150x205x50 | 900 | 5700 | >80 | 10 | 3,5 |
| Boreas LED B189 2400lm T840 | 245x330x75 | 2400 | 4000 | >80 | 30 | 5,4 |
| Boreas LED B189 2700lm T857 | 245x330x75 | 2700 | 5700 | >80 | 30 | 5,4 |
| Boreas LED B190 4800lm T840 | 300x400x95 | 4800 | 4000 | >80 | 60 | 9,8 |
| Boreas LED B190 5400lm T857 | 300x400x95 | 5400 | 5700 | >80 | 60 | 9,8 |

BOREAS

Discharge Floodlight for Metal Halide Lamps with Symmetrical Reflector



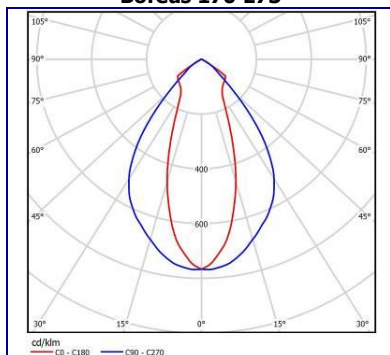
| | |
|-----------------------|--|
| Type: | A range of discharge floodlights with symmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Boreas 170 E73 | 1x70 (RX7s) | 280x232x170 | 3,5 | 83,5 |
| Boreas 1150 E74 | 1x150 (RX7s) | 280x232x170 | 4,2 | 168 |
| Boreas 170 E81 HS | 1x70 (RX7s) | 280x232x170 | 3,5 | 83,5 |
| Boreas 1150 E82 HS | 1x150 (RX7s) | 280x232x170 | 4,2 | 168 |

Options available on request:

- HF- High Frequency control gear
- TP- With built-in thermal protector
- HS- For high pressure sodium lamp

Boreas 170 E73



BOREAS

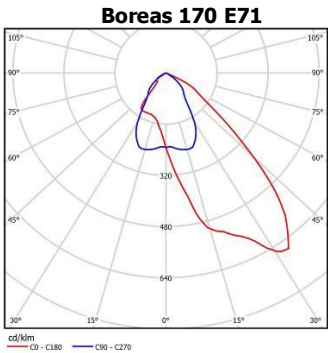
Discharge Floodlight for Metal Halide Lamps with Asymmetrical Reflector



| | |
|----------------|---|
| Type: | A range of discharge floodlights with asymmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted asymmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Boreas 170 E71 | 1x70 (RX7s) | 434x230x87 | 3,6 | 83,5 |
| Boreas 1150 E72 | 1x150 (RX7s) | 434x230x87 | 4,5 | 168 |
| Boreas 170 E79 HS | 1x70 (RX7s) | 434x230x87 | 3,6 | 83,5 |
| Boreas 1150 E80 HS | 1x150 (RX7s) | 434x230x87 | 4,5 | 168 |

Options available on request:
HF- High Frequency control gear
TP- With built-in thermal protector
HS- For high pressure sodium lamp



BOREAS

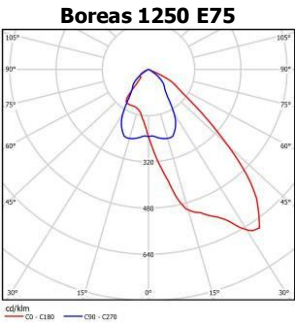
Discharge Floodlight for Metal Halide Lamps with Asymmetrical Reflector



| | |
|----------------|--|
| Type: | A range of discharge floodlights with asymmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Boreas 1150 I77 | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E75 | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E76 | 1x400 (E40) | 514x420x146 | 9 | 440 |
| Boreas 1150 I78 HS | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E83 HS | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E84 HS | 1x400 (E40) | 514x420x146 | 9 | 440 |

Options available on request:
HF- High Frequency control gear
TP- With built-in thermal protector
HS- For high pressure sodium lamp



BOREAS

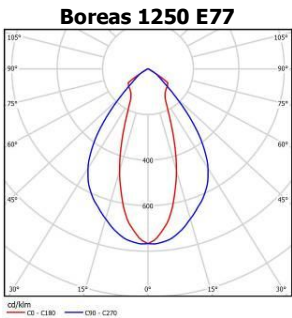
Discharge Floodlight for Metal Halide Lamps with Symmetrical Reflector



| | |
|----------------|--|
| Type: | A range of discharge floodlights with symmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc. |

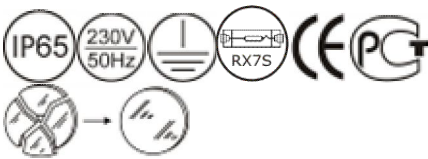
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|---------------------|------------------------|------------|------------------|
| Boreas 1150 I79 | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E77 | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E78 | 1x400 (E40) | 514x420x146 | 9 | 440 |
| Boreas 1150 I80 HS | 1x150 (E27) | 514x420x146 | 7,2 | 168 |
| Boreas 1250 E85 HS | 1x250 (E40) | 514x420x146 | 8,2 | 280 |
| Boreas 1400 E86 HS | 1x400 (E40) | 514x420x146 | 9 | 440 |

Options available on request:
HF- High Frequency control gear
TP- With built-in thermal protector
HS- For high pressure sodium lamp



BOREAS CL

Discharge Floodlight with Clips and Asymmetrical Reflector



- Type:

A range of discharge floodlights with asymmetrical reflector and aluminum clips. IP65 - water and dust protection for use in adverse conditions.
- Specification:

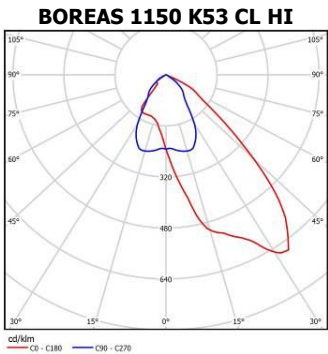
Body in aluminum with dark grey finish. Facetted asymmetrical reflector in anodized aluminum. Clear glass diffuser with aluminum clips.
Luminaire is plastic-wrapped and boxed individually.
- Installation:

Suitable for any horizontal and/or vertical surfaces.
- Application:

Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Type | Lamp (W) and socket | Overall dimensions, 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 K83 CL HS | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K80 CL HS | 1x150 W(RX7s) | 445x275x130 | 4,5 | 168 |

- Options available on request:
- TIM- Timed ignitor
 - HF- High Frequency control gear
 - TP- With built-in thermal protector
 - HS- For high pressure sodium lamp



BOREAS CL

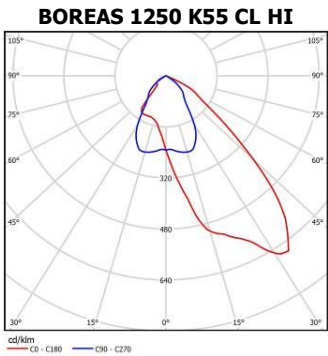
Discharge Floodlight with Clips and Asymmetrical Reflector



- Type:** A range of discharge floodlights with asymmetrical reflector and aluminum clips. IP65 - water and dust protection for use in adverse conditions.
- Specification:** Body in aluminum with dark grey finish. Facetted asymmetrical reflector in anodized aluminum. Clear glass diffuser with aluminum clips. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

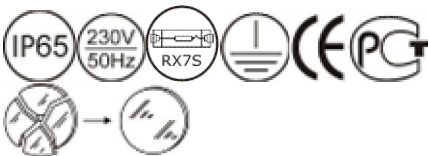
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| Boreas 1150 K54 CL HI | 1x150 (E27) | 500x420x145 | 7 | 168 |
| Boreas 1250 K55 CL HI | 1x250 (E40) | 500x420x145 | 8,2 | 280 |
| Boreas 1400 K56 CL HI | 1x400 (E40) | 500x420x145 | 9 | 440 |
| Boreas 1150 J37 CL HS | 1x150 (E40) | 500x420x145 | 7 | 168 |
| Boreas 1250 K81 CL HS | 1x250 (E40) | 500x420x145 | 8,2 | 280 |
| Boreas 1400 K82 CL HS | 1x400 (E40) | 500x420x145 | 9 | 440 |

- Options available on request:
- TIM- Timed ignitor
 - HF- High Frequency control gear
 - TP- With built-in thermal protector
 - HS- For high pressure sodium lamp



BOREAS CL

Discharge Floodlight with Clips and Spot Reflector



- Type:**

A range of discharge floodlights with spot reflector and aluminum clips. IP65 - water and dust protection for use in adverse conditions.
- Specification:**

Body in aluminum with dark grey finish. Spot reflector made of bright anodized aluminum. Clear glass cover with aluminum clips. Luminaire is plastic-wrapped and boxed individually.
- Installation:**

Suitable for any horizontal and/or vertical surfaces.
- Application:**

Efficient floodlight for building facades, churches, statues, displays, etc.

| Type | Lamp (W) and socket | Overall dimensions, 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 K10 CL SPOT HS | 1x70 W(RX7s) | 445x275x130 | 3,6 | 83,5 |
| Boreas 1150 K11 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
 - TP- With built-in thermal protector

BOREAS

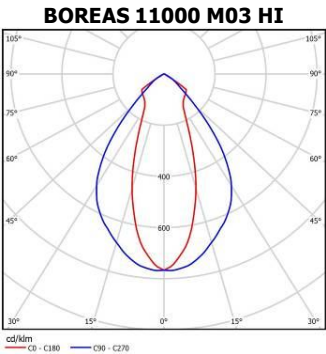
Discharge Floodlight for Metal Halide Lamps with Symmetrical Reflector



- Type:** A high power discharge floodlight with symmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions.
- Specification:** Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum. Clear glass cover with aluminum clips. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for any horizontal and/or vertical surfaces.
- Application:** Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---|---------------------|------------------------|------------|------------------|
| Boreas 11000 M03 HI With separate gear box | 1x1000 (E40) | 600x165x525 | 19,8 | 1075 |

- Options available on request:
- TP- With built-in thermal protector
 - HS- For high pressure sodium lamp



ARENA

Discharge Floodlight for sports field and stadium lighting



Arena 11000 N86 BLD



Arena 12000 N90 SPOT



Arena 11000 N86

| | |
|----------------|--|
| Type: | A high specification and performance discharge floodlight with a choice of symmetrical or asymmetrical reflector. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum or circular reflector in matt aluminum. Thermal resistant glass diffuser sealed with anti-ageing silicone gasket. Luminaire and gear box is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | 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 asymmetrical light distribution. See option list (BLD).

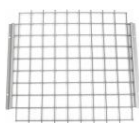


Ventilation valve ensures excess moisture depletion from inside of the luminaire and protects internal parts from corrosion.

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|-------------|---------------------|------------------------|------------|------------------|
| Arena 11000 N86 | symmetric | 1x1000 (E40) | 632x265x744 | 26 | 1075 |
| Arena 11000 N86 BLD | asymmetric | 1x1000 (E40) | 632x265x744 | 26 | 1075 |
| Arena 11000 N87 SPOT | symmetric | 1x1000 (E40) | 632x265x744 | 26 | 1075 |
| Arena 11000 N87 SPOT BLD | asymmetric | 1x1000 (E40) | 632x265x744 | 26 | 1075 |
| Arena 12000 N89 | symmetric | 1x2000 (E40) | 632x265x744 | 28 | 2150 |
| Arena 12000 N89 BLD | asymmetric | 1x2000 (E40) | 632x265x744 | 28 | 2150 |
| Arena 12000 N90 SPOT | symmetric | 1x2000 (E40) | 632x265x744 | 28 | 2150 |
| Arena 12000 N90 SPOT BLD | asymmetric | 1x2000 (E40) | 632x265x744 | 28 | 2150 |

All luminaires are with separate gear box

Hot re-strike versions are available on request (see option list)



Grid A2



Frame A1



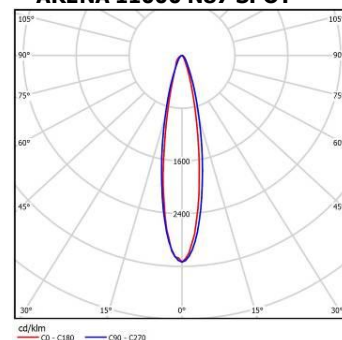
Frame A2

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
- K12s- Double ended lamp holder (K12s)
- HOT- Hot re-strike version (available only with option K12s)
- BLD- For asymmetrical light distribution

ARENA 11000 N87 SPOT



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: | Body in aluminum with dark grey finish. Spot reflector made of bright anodized aluminum. Toughened glass cover fixed with stainless steel screws. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient projector for illuminating the churches, flag poles, monuments and building facades, etc. |

| Type | Lamp (W) and socket | Overall dimensions, 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 |
| Radius 1150 N84 HI | 1x150 W(G12) | Ø175x265 | 3,9 | 168 |

Options available on request:

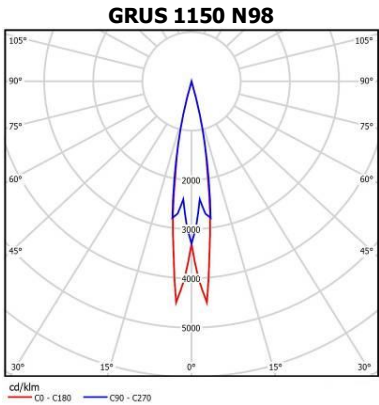
| | |
|------|---------------------------------|
| TIM- | Timed ignitor |
| HI- | For metal halide lamps |
| HF- | High Frequency control gear |
| TP- | With built-in thermal protector |

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: | Body in aluminum with dark grey finish. Spot reflector made of bright anodized aluminum. Toughened glass cover fixed with stainless steel screws. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for any horizontal and/or vertical surfaces. |
| Application: | Efficient projector for illuminating the churches, flag poles, monuments and building facades, etc. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Grus 150 N95 | 1x50 W(E27) | Ø275x255x400 | 3,5 | 62 |
| Grus 170 N96 | 1x70 W(E27) | Ø275x255x400 | 3,5 | 84 |
| Grus 1100 N97 | 1x100 W(E27) | Ø275x255x400 | 3,5 | 116 |
| Grus 1150 N98 | 1x150 W(E27) | Ø275x255x400 | 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
 - TP- With built-in thermal protector

CYGNI

Aluminium IP65 luminaire



Cygni 128 Q99

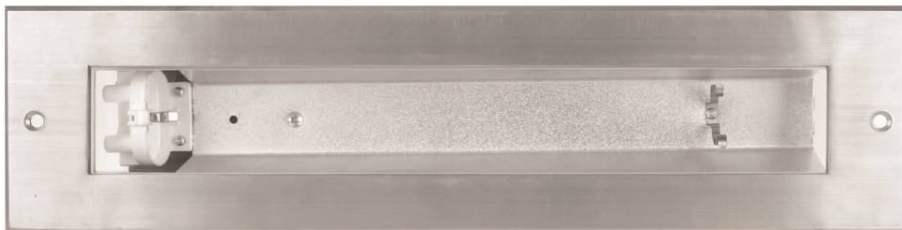
| | |
|----------------|--|
| Type: | Dust and moisture proof IP65 fixture made from aluminium profile. |
| Specification: | Hardened safety glass is fixed to the body. Glossy aluminium reflector. The body made from extruded aluminium profile, light grey finished. Silicone rubber sealing provide reliable IP protection. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Surface luminaire designed to be fixed to walls of any type. |
| Application: | Dust and moisture proof luminaire, efficient floodlight for building facades and bridges. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Cygni 114 Q97 | 1x14 (G5) | 62x630x63 | 2,1 | 16 |
| Cygni 124 Q98 | 1x24 (G5) | 62x630x63 | 2,1 | 25 |
| Cygni 128 Q99 | 1x28 (G5) | 62x1200x63 | 4,1 | 30 |
| Cygni 154 R01 | 1x54 (G5) | 62x1200x63 | 4,1 | 58 |

Options available on request:
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

FLOOR

Stainless Steel Ground Recessed Floodlight



IK08

| | |
|-----------------------|--|
| Type: | A range of ground recessed floodlights with square stainless steel frame. IP67 - water and dust protection for use in adverse conditions. |
| Specification: | Symmetric reflector made of matt anodized aluminum. Body in aluminum with dark grey finish. Toughened glass cover with anti-ageing silicone gasket and stainless steel frame 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, 200 mm in deep and around. |
| Application: | Efficient floodlight, ideal for illuminating walls. For in inside and outdoor applications. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------|---------------------|------------------------|------------|------------------|
| Floor 114 Q91 | 1x14 (G5) | 108x645x125 | 2,1 | 16 |
| Floor 124 Q92 | 1x24 (G5) | 108x645x125 | 2,1 | 25 |
| Floor 128 Q95 | 1x28 (G5) | 108x1245x125 | 4,1 | 30 |
| Floor 154 Q96 | 1x54 (G5) | 108x1245x125 | 4,1 | 58 |

Options available on request:

DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast
EMG- Emergency version 1 hour

EM2- Emergency version 2 hours
EM3- Emergency version 3 hours
5TB- 5 way terminal block for easy wiring

TUBE B & M

Wall Mounted Luminaire with pleasing Direct/Indirect Lighting effect



TUBE B HOL 1150 R09



TUBE M UP 170 R14

Type: A range of wall mounted luminaires with pleasing direct/indirect light distribution.

Specification: Tempered glass diffuser.
Die-cast aluminum body in dark grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for wall mounted on any vertical surface.

Application: Ideal for numerous indoor and outdoor applications.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Tube B 270 R05 | 2x70 W(Rx7s) | Ø180x500 | 3,4 | 160 |
| Tube B 2150 R06 | 2x150 W(Rx7s) | Ø180x500 | 3,9 | 340 |
| Tube B HOL 170 R08 | 1x70 W(Rx7s) | Ø180x220 | 2,2 | 80 |
| Tube B HOL 1150 R09 | 1x150 W(Rx7s) | Ø180x220 | 2,6 | 170 |
| Tube M 235 R10 | 2x35 W(G12) | Ø155x460 | 2,8 | 88 |
| Tube M 270 R11 | 2x70 W(G12) | Ø155x460 | 3,2 | 160 |
| Tube M UP 135 R12 | 1x35 W(G12) | Ø155x250 | 1,8 | 44 |
| Tube M UP 170 R14 | 1x70 W(G12) | Ø155x250 | 2,2 | 80 |

Options available on request:

- TIM- Timed ignitor
- HI- For metal halide lamps
- HF- High Frequency control gear
- TP- With built-in thermal protector
- UP- With uplight source only
- DOWN- With downlight source only

TUBE S

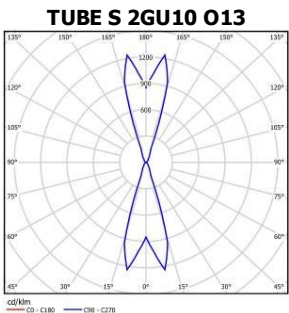
Wall Mounted Luminaire with pleasing Direct/Indirect Lighting effect



| | |
|----------------|---|
| Type: | A range of wall mounted luminaires with pleasing direct/indirect light distribution. |
| Specification: | Tempered glass diffuser. Die-cast aluminum body in dark grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for wall mounted on any vertical surface. |
| Application: | Ideal for numerous indoor and outdoor applications. |

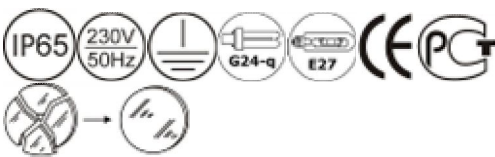
| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| Tube S 2GU10 O13 | max 2x50W (GU10) | Ø90x225 | 1,4 | - |
| Tube S 1GU10 O14 UP | max 1x50W (GU10) | Ø90x225 | 1,4 | - |
| Tube S 1GU10 O15 DOWN | max 1x50W (GU10) | Ø90x225 | 1,4 | - |

Options available on request:
UP- With uplight source only
DOWN- With downlight source only



ARCTURUS

Vandal Resistant Bulkhead

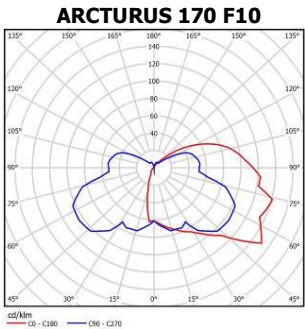


| | |
|----------------|--|
| Type: | A non-corrosive vandal resistant luminaire manufactured of tough and durable polycarbonate. IP65 - water and dust protection for use in adverse conditions. |
| Specification: | Anodized aluminum reflector to maximize light output and efficiency. The diffuser is made of impact resistant UV stable polycarbonate. Injection molded polycarbonate body in black finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on walls or ceilings. |
| Application: | Building exteriors and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, 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 |

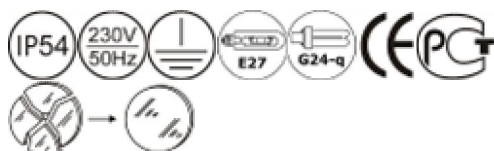
Options available on request:
HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

TP- With built-in thermal protector
HS- For high pressure sodium lamp
HI- For metal halide lamp



ETA

Vandal Resistant Bulkhead



ETA 126 Q80 LOUVER



ETA 1E27 Q78

| | |
|-----------------------|--|
| 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 ceilings. |
| Application: | Building exteriors and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------|---------------------|------------------------|------------|------------------|
| ETA 1E27 Q78 | 1x60W (max) (E27) | Ø350x150 | 2 | - |
| ETA 118 Q79 | 1x18W (G24d-2) | Ø350x150 | 2,3 | 26 |
| ETA 126 Q80 | 1x26W (G24d-3) | Ø350x150 | 2,4 | 34 |
| ETA 132 Q81 HF | 1x32W (Gx24q-3) | Ø350x150 | 2,3 | 32 |
| ETA 142 Q82 HF | 1x42W (Gx24q-4) | Ø350x150 | 2,3 | 44 |
| ETA 1E27 Q78 LOUVER | 1x60W (max) (E27) | Ø350x150 | 2,1 | - |
| ETA 118 Q79 LOUVER | 1x18W (G24d-2) | Ø350x150 | 2,4 | 26 |
| ETA 126 Q80 LOUVER | 1x26W (G24d-3) | Ø350x150 | 2,5 | 34 |
| ETA 132 Q81 LOUVER HF | 1x32W (Gx24q-3) | Ø350x150 | 2,4 | 32 |
| ETA 142 Q82 LOUVER HF | 1x42W (Gx24q-4) | Ø350x150 | 2,4 | 44 |

Options available on request:
HF- High Frequency control gear
DIM- Dimmable ballast
SWITCHDIM- Switch DIM ballast
DALI- DALI ballast

OVAL

Vandal Resistant Bulkhead



OVAL 126 Q85 LOUVER

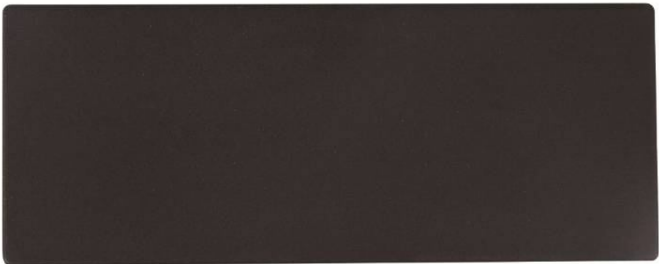
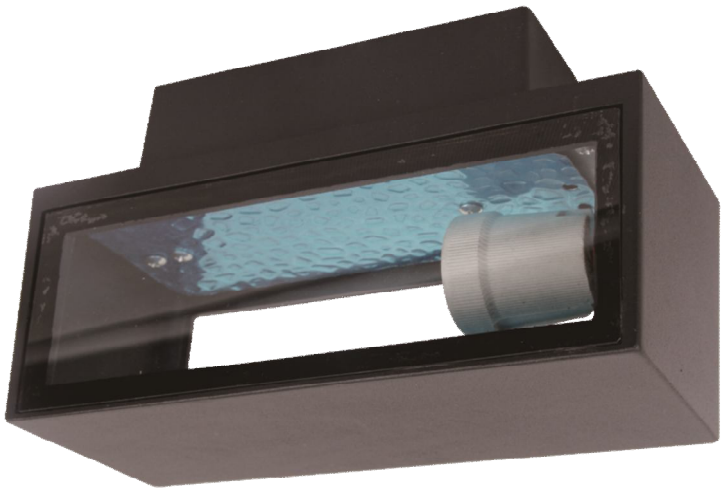
| | |
|-----------------------|--|
| Type: | A non-corrosive vandal resistant luminaire. IP54 - water and dust protection for use in adverse conditions. |
| Specification: | The diffuser is made of impact resistant UV stable polycarbonate. Die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on walls or ceilings. |
| Application: | Building exteriors and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|------------------------|---------------------|------------------------|------------|------------------|
| OVAL 1E27 Q83 | 1x60W (max) (E27) | Ø350x150 | 1,8 | - |
| OVAL 118 Q84 | 1x18W (G24d-2) | Ø350x150 | 2,1 | 26 |
| OVAL 126 Q85 | 1x26W (G24d-3) | Ø350x150 | 2,2 | 34 |
| OVAL 132 Q86 HF | 1x32W (Gx24q-3) | Ø350x150 | 2,1 | 32 |
| OVAL 1E27 Q83 LOUVER | 1x60W (max) (E27) | Ø350x150 | 1,9 | - |
| OVAL 118 Q84 LOUVER | 1x18W (G24d-2) | Ø350x150 | 2,2 | 26 |
| OVAL 126 Q85 LOUVER | 1x26W (G24d-3) | Ø350x150 | 2,3 | 34 |
| OVAL 132 Q86 LOUVER HF | 1x32W (Gx24q-3) | Ø350x150 | 2,2 | 32 |

Options available on request:
 HF- High Frequency control gear
 DIM- Dimmable ballast
 SWITCHDIM- Switch DIM ballast
 DALI- DALI ballast

PYXIS

Wall Mounted Luminaire



MENSA 1E27 Q89

| | |
|----------------|---|
| Type: | A non-corrosive vandal resistant luminaire. IP54 - water and dust protection for use in adverse conditions. |
| Specification: | Tempered glass diffuser. Die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on walls. |
| Application: | Building indoor and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Pyxis 1E27 Q90 | 1x60W (max) (E27) | 220x90x125 | 1,5 | - |

MENSA

Wall Mounted Luminaire



MENSA 1E27 Q89

| | |
|----------------|---|
| Type: | A non-corrosive vandal resistant luminaire. IP54 - water and dust protection for use in adverse conditions. |
| Specification: | Tempered glass diffuser. Die-cast aluminium in dark grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on walls or ceilings. |
| Application: | Building indoor and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Mensa 1E27 Q89 | 1x60W (max) (E27) | 157x160x180 | 2 | - |

POCKET

A Wall Recessed Luminaire

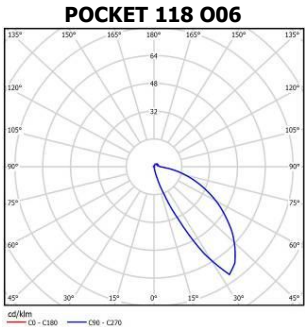


Pocket 1E27 O04

| | |
|----------------|--|
| Type: | A range of square wall recessed luminaires with indirect light distribution and good vandal resistant. |
| Specification: | Tempered frosted glass diffuser. Die-cast aluminum body in dark grey finish with a thermoplastic recessing housing. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for recessed mounting into walls. Supplied with recessing housing. |
| Application: | Ideal for numerous indoor applications. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------|---------------------|------------------------|------------|------------------|
| Pocket 1E27 O04 | 1x40W (max) (E27) | 227x128(205x105)x87 | 1 | |
| Pocket 113 O05 | 1x13W (G24d-1) | 227x128(205x105)x87 | 1,3 | 19 |
| Pocket 118 O06 | 1x18W (G24d-2) | 227x128(205x105)x87 | 1,3 | 26 |

Options available on request:
 NCP- Low Power Factor
 HF- High Frequency control gear



THETA

A Wall Recessed Luminaire



THETA 118 Q77 GRID

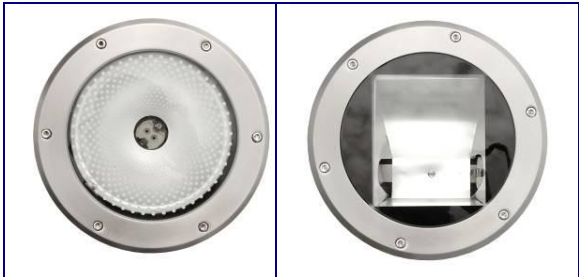
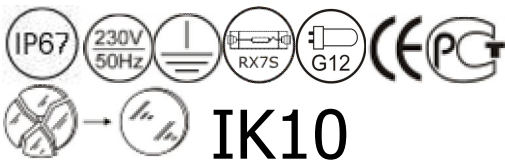
| | |
|-----------------------|--|
| Type: | A range of square wall recessed luminaires with indirect light distribution and good vandal resistant. |
| Specification: | Tempered frosted glass diffuser. Die-cast aluminum body in dark grey finish with a thermoplastic recessing housing. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for recessed mounting into walls. Supplied with recessing housing. |
| Application: | Ideal for numerous indoor applications. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------|---------------------|------------------------|------------|------------------|
| Theta 1E27 Q75 | 1x40W (max) (E27) | 260x76x87 | 1 | - |
| Theta 113 Q76 | 1x13W (G24d-1) | 260x76x87 | 1,3 | 19 |
| Theta 118 Q77 | 1x18W (G24d-2) | 260x76x87 | 1,3 | 26 |
| Theta 1E27 Q75 GRID | 1x40W (max) (E27) | 260x76x87 | 1 | - |
| Theta 113 Q76 GRID | 1x13W (G24d-1) | 260x76x87 | 1,3 | 19 |
| Theta 118 Q77 GRID | 1x18W (G24d-2) | 260x76x87 | 1,3 | 26 |

Options available on request:
 NCP- Low Power Factor
 GRID- Protection grid
 HF- High Frequency control gear

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 made of matt anodized aluminum. Body in aluminum with dark grey finish and recessed housing in polypropylene. Toughened 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 deep and around. |
| Application: | Efficient floodlight for building facades, statues, sculptures, etc. |



Recessed housing is used for easy access and service of floodlight during all life time.



Symmetrical reflector positioned at an angle suitable for wall lighting applications. See option list (**ANGLE**).



Louver to direct light and prevent from blinding effect. See option list (**LOUVER**).



Symmetrical moveable reflector available on request (**MOVE**).



Domed with single window (**COVER1**)



Domed with twin window (**COVER2**)



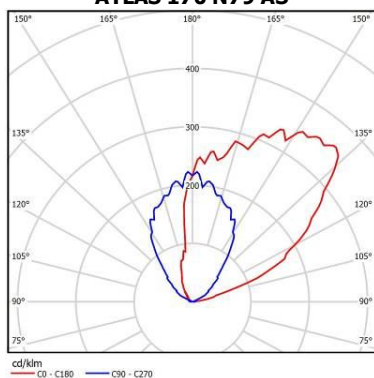
Domed with twelve window (**COVER12**)

| Type | Lamp (W) and socket | | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------|---------------------|------------|------------------------|------------|------------------|
| Atlas 135 N78 | 1x35 W(G12) | symmetric | Ø258x370 | 5,7 | 44 |
| Atlas 170 N79 | 1x70 W(G12) | symmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas 1150 N80 | 1x150 W(G12) | symmetric | Ø258x370 | 6,3 | 168 |
| Atlas 135 N78 AS | 1x35 W(Rx7s) | asymmetric | Ø258x370 | 5,7 | 44 |
| Atlas 170 N79 AS | 1x70 W(Rx7s) | asymmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas 1150 N80 AS | 1x150 W(Rx7s) | asymmetric | Ø258x370 | 6,3 | 168 |
| Atlas 135 N78 SQUARE | 1x35 W(G12) | symmetric | Ø258x370 | 5,7 | 44 |
| Atlas 170 N79 SQUARE | 1x70 W(G12) | symmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas 1150 N80 SQUARE | 1x150 W(G12) | symmetric | Ø258x370 | 6,3 | 168 |
| Atlas 135 N78 AS SQUARE | 1x35 W(Rx7s) | asymmetric | Ø258x370 | 5,7 | 44 |
| Atlas 170 N79 AS SQUARE | 1x70 W(Rx7s) | asymmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas 1150 N80 AS SQUARE | 1x150 W(Rx7s) | asymmetric | Ø258x370 | 6,3 | 168 |
| Atlas 135 N78 ANGLE | 1x35 W(G12) | symmetric | Ø258x450 | 5,7 | 44 |
| Atlas 170 N79 ANGLE | 1x70 W(G12) | symmetric | Ø258x450 | 5,7 | 83,5 |
| Atlas 1150 N80 ANGLE | 1x150 W(G12) | symmetric | Ø258x450 | 6,3 | 168 |
| Atlas 135 N78 MOVE | 1x35 W(G12) | symmetric | Ø258x370 | 5,7 | 44 |
| Atlas 170 N79 MOVE | 1x70 W(G12) | symmetric | Ø258x370 | 5,7 | 83,5 |
| Atlas 1150 N80 MOVE | 1x150 W(G12) | symmetric | Ø258x370 | 6,3 | 168 |
| Atlas 135 N78 LOUVER | 1x35 W(G12) | symmetric | Ø258x480 | 5,7 | 44 |
| Atlas 170 N79 LOUVER | 1x70 W(G12) | symmetric | Ø258x480 | 5,7 | 83,5 |
| Atlas 1150 N80 LOUVER | 1x150 W(G12) | symmetric | Ø258x480 | 6,3 | 168 |
| Atlas 135 N78 COVER1 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas 170 N79 COVER1 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas 1150 N80 COVER1 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |
| Atlas 135 N78 COVER2 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas 170 N79 COVER2 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas 1150 N80 COVER2 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |
| Atlas 135 N78 COVER12 | 1x35 W(G12) | symmetric | Ø258x400 | 5,7 | 44 |
| Atlas 170 N79 COVER12 | 1x70 W(G12) | symmetric | Ø258x400 | 5,7 | 83,5 |
| Atlas 1150 N80 COVER12 | 1x150 W(G12) | symmetric | Ø258x400 | 6,3 | 168 |

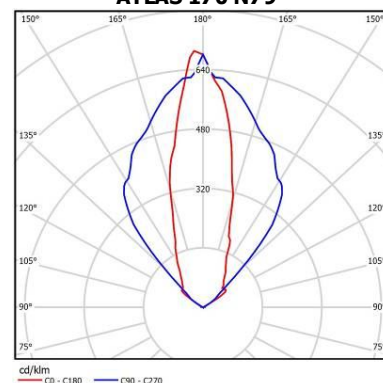
Options available on request:

SQUARE- Square stainless steel frame
AS- Asymmetric reflector
LOUVER- Louver to prevent from blinding effect
MOVE- Symmetrical moveable reflector
COVER1- Dome with single window
COVER2- Dome with double window
COVER12- Dome with twelve window
TIM- Timed ignitor
TP- With built-in thermal protector

ATLAS 170 N79 AS



ATLAS 170 N79



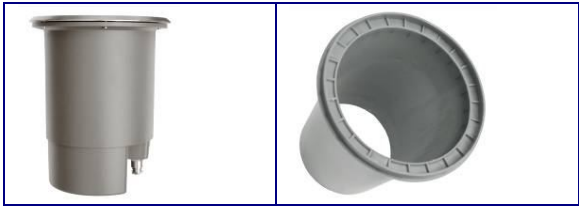
ATLAS M

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 matt anodized aluminum. Body in aluminum with dark grey finish and recessed housing in polypropylene. Toughened 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 deep and around. |
| Application: | 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 available on request (**GLASS ATLAS S**). Can be used in set with COVER1, COVER2 or COVER12 only.

| Type | Lamp (W) and socket | Overall dimensions, 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) | Ø200x235 | 3,9 | 44 |
| Atlas M 170 Q74 SQUARE | 1x70 W(G12) | Ø200x235 | 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 |

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

TIM- Timed ignitor

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: | Body in aluminum with dark grey finish and recessed housing in polypropylene. Toughened 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, 200 mm in deep and around. |
| Application: | 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 available on request (**GLASS ATLAS S**). Can be used in set with COVER1, COVER2 or COVER12 only.

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|---------------------------------|---------------------|------------------------|------------|------------------|
| Atlas S 1GU10 Q72 | max 1x50W (GU10) | Ø105x165 | 0,5 | - |
| Atlas S 1GU10 Q72 SQUARE | max 1x50W (GU10) | Ø105x165 | 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 | - |

Options available on request:

SQUARE- Square stainless steel frame

COVER1- Dome with single window

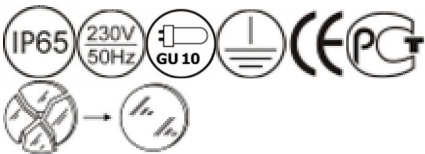
COVER2- Dome with double window

COVER12- Dome with twelve window

GLASS- Special glass to increase light efficiency

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 aluminum body in dark grey finish. Luminaire is plastic-wrapped and boxed individually. |
| Installation: | Suitable for surface mounting on walls or ceilings. |
| Application: | Building exteriors and other areas. |

| Type | Lamp (W) and socket | Overall dimensions, 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 | - |

APUS A Miniature Floodlight for Halogen Lamps



Holder for wall mounted version should be ordered. See option list: HOL.



Apus 1GU10 O11 HOL



Apus 1GU10 O11 HOL LOUVER



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 aluminum 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 deep and around. Ground spike or holder for wall mounting can be ordered separately. |
| Application: | 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.

| Type | Lamp (W) and socket | Overall dimensions, 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 | - |

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**

FISH

A underwater Projector for lighting polls



FISH 1G5.3 R02



INOX BOX4



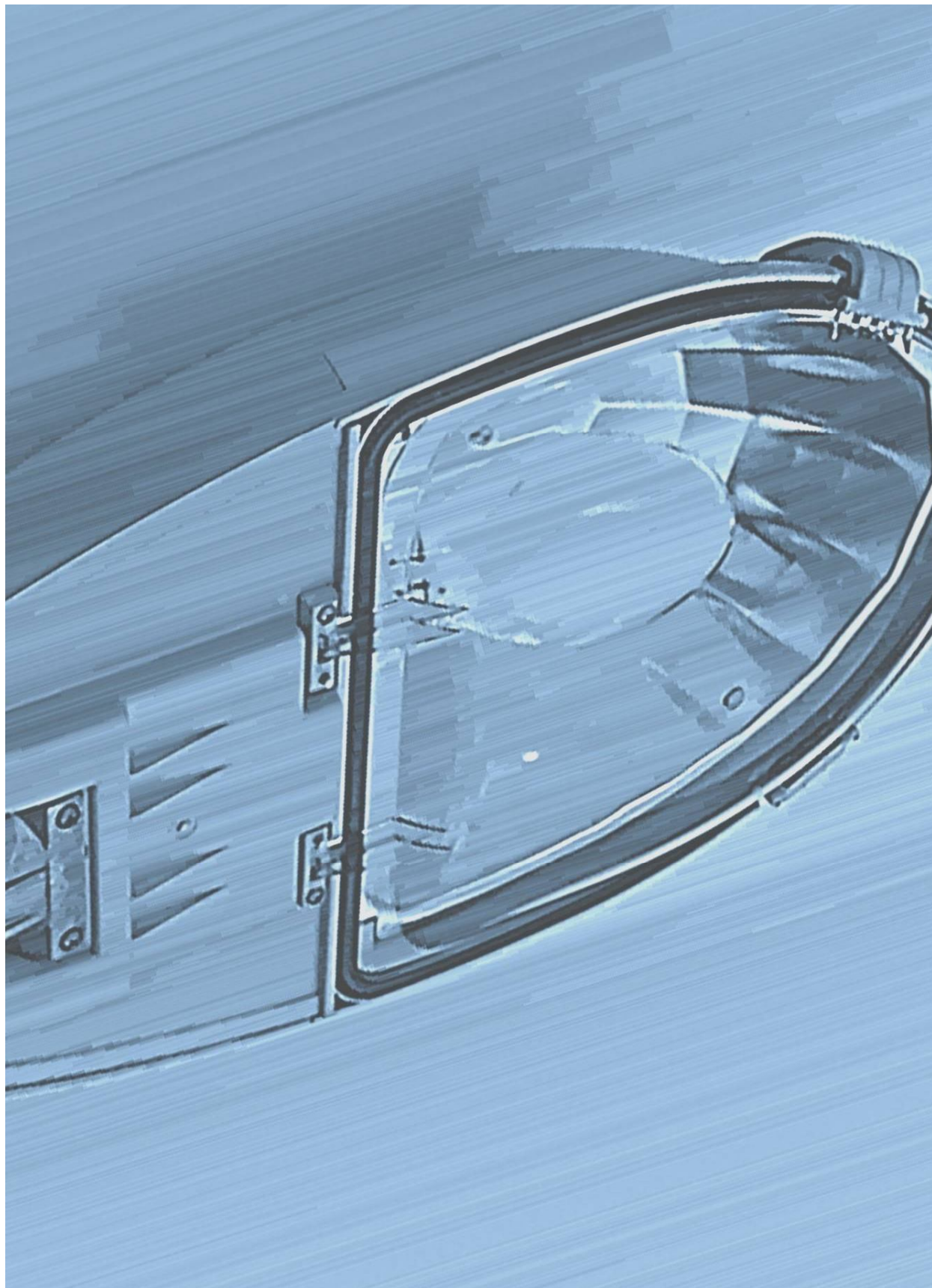
FISH 1G5.3 R03



FISH 1G5.3 R04

| | |
|----------------|--|
| Type: | A range of underwater projectors for lighting polls. 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: | Ideal for lighting polls. |

| Type | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|---------------------|------------------------|------------|------------------|
| Fish 1G5.3 R02 | max 1x50W (G5.3) | Ø90x110 | 0,9 | - |
| 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 | - |

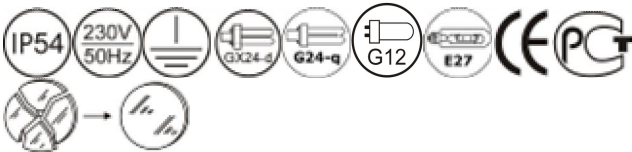


STREETLIGHTS

www.northcliffe.org

DRACO

IP54 Bollard
with Opal Diffuser



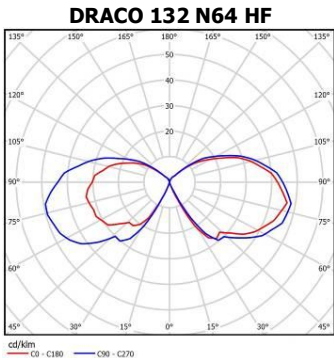
- Type:** A stylish circular bollard with emphasis on simple design and high vandal resistance.
- Specification:** Diffuser made of opal PC material.
Body in extruded aluminum with dark grey finish. Gear tray made of zinc plated steel.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Flange mounting plate (3x12,5 mm holes).
- Application:** Suitable for many applications including parks, path and side walks, residential areas and public places.

| Type | Lamp (W) and socket | Overall dimensions, 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

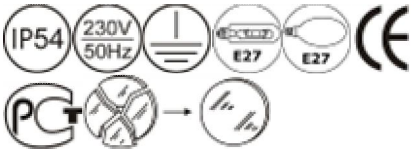
Options available on request:

- HS- For high pressure sodium lamps
- HM- For high pressure mercury lamps
- HI- For metal halide lamps
- HF- High Frequency control gear



SPHERE&
CYLINDER

IP54 Sphere-Shaped
Park Lights



Sphere 170 H98 CLR RFL

Sphere 170 H96 PRZ

Cylinder 170 I01 CLR RFL

| | |
|----------------|--|
| Type: | A range of non-corrosive sphere-shaped park lights. An efficient light distribution and glare designed to match the highest standards. |
| 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 made from injection moulded PC. Attached to diffuser with help of quick lock system. Gear tray made from 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: | 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.



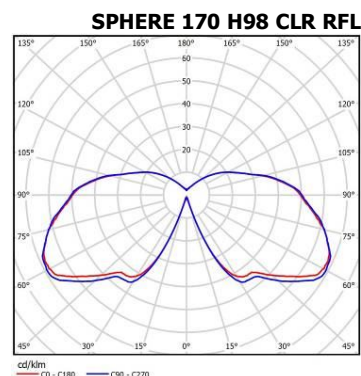
A chassis for suspended mounting **is** available on request (for Ø42mm pole). See option list- SUS.

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-----------------------------|--------------------------|---------------------|------------------------|------------|------------------|
| Sphere 1E27 H92 OP | Opal | E27 | Ø350x455 | 3,2 | |
| Sphere 150 H93 OP | Opal, HS | 1x50 (E27) | Ø350x455 | 3,6 | 62 |
| Sphere 170 H94 OP | Opal, HS | 1x70 (E27) | Ø400x505 | 4,1 | 85 |
| Sphere 1100 O03 OP | Opal, HS | 1x100 (E40) | Ø450x555 | 4,7 | 116 |
| Sphere 150 H93 OP PC | Opal, HS | 1x50 (E27) | Ø350x455 | 3,6 | 62 |
| Sphere 170 H94 OP PC | Opal, HS | 1x70 (E27) | Ø400x505 | 4,1 | 85 |
| Sphere 1100 O03 OP PC | Opal, HS | 1x100 (E40) | Ø450x555 | 4,7 | 116 |
| Sphere 150 H95 PRZ | Prismatic, HS | 1x50 (E27) | Ø400x505 | 4,1 | 62 |
| Sphere 170 H96 PRZ | Prismatic, HS | 1x70 (E27) | Ø400x505 | 4,1 | 85 |
| Sphere 150 H95 PRZ PC | Prismatic, HS | 1x50 (E27) | Ø400x505 | 4,1 | 62 |
| Sphere 170 H96 PRZ PC | Prismatic, HS | 1x70 (E27) | Ø400x505 | 4,1 | 85 |
| Sphere 150 H97 CLR RFL | Clear, HS with reflector | 1x50 (E27) | Ø350x455 | 3,9 | 62 |
| Sphere 170 H98 CLR RFL | Clear, HS with reflector | 1x70 (E27) | Ø400x505 | 4,4 | 85 |
| Sphere 1100 O03 CLR RFL | Opal, HS with reflector | 1x100 (E40) | Ø450x555 | 5,0 | 116 |
| Sphere 150 H97 CLR RFL PC | Clear, HS with reflector | 1x50 (E27) | Ø350x455 | 3,9 | 62 |
| Sphere 170 H98 CLR RFL PC | Clear, HS with reflector | 1x70 (E27) | Ø400x505 | 4,4 | 85 |
| Sphere 1100 O03 CLR RFL PC | Opal, HS with reflector | 1x100 (E40) | Ø450x555 | 5,0 | 116 |
| Cylinder 150 H99 CLR RFL | Clear, HS with reflector | 1x50 (E27) | Ø310x505 | 4,5 | 62 |
| Cylinder 170 I01 CLR RFL | Clear, HS with reflector | 1x70 (E27) | Ø310x505 | 4,5 | 85 |
| Cylinder 150 H99 CLR RFL PC | Clear, HS with reflector | 1x50 (E27) | Ø310x505 | 4,5 | 62 |
| Cylinder 170 I01 CLR RFL PC | Clear, HS with reflector | 1x70 (E27) | Ø310x505 | 4,5 | 85 |

Bowl diameter > **than** Ø450 mm and powers 150 & 250W can be produced on request.

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
- SUS- Suspended mounted version



SARGAS

IP54 Park Lights with a Large Round Canopy



Sargas 170 N72 OP

Sargas 170 N72 OP ROOF

Sargas 170 N72 CLR RFL

| | |
|----------------|---|
| Type: | A range of decorative park lights with a large round canopy or without. |
| Specification: | Diffuser made of UV stable PMMA material with a choice from three designs- opal, clear or matt coated. A stainless steel reflector for better glare control and light distribution in clear version is recommended. Canopy in aluminum with dark grey finish. Gear tray made of zinc plated steel. Black colour chassis 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: | Suitable for many applications including parks, path and side walks, minor roads, residential areas and public spaces. |



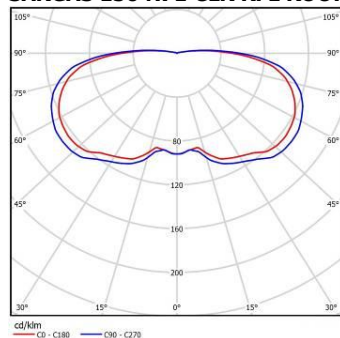
A stainless steel reflector for better glare control and light distribution can be ordered on request. See option list- RFL. Recommended in versions with a clear diffuser.

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------------------|---------------------------------|---------------------|------------------------|------------|------------------|
| Sargas 1E27 N68 OP | Opal | E27 (max.100 W) | Ø280x620 | 3,5 | |
| Sargas 142 N69 HF OP | Opal | 1x42 (G24q-4) | Ø280x620 | 3,6 | 44 |
| Sargas 150 N71 OP | Opal | 1x50 (E27) | Ø280x620 | 4,7 | 62 |
| Sargas 170 N72 OP | Opal | 1x70 (E27) | Ø280x620 | 4,7 | 85 |
| Sargas 1E27 N68 OP ROOF | Opal with canopy | E27 (max.100 W) | Ø500x630 | 4,4 | |
| Sargas 142 N69 HF OP ROOF | Opal with canopy | 1x42 (G24q-4) | Ø500x630 | 4,5 | 44 |
| Sargas 150 N71 OP ROOF | Opal with canopy | 1x50 (E27) | Ø500x630 | 5,6 | 62 |
| Sargas 170 N72 OP ROOF | Opal with canopy | 1x70 (E27) | Ø500x630 | 5,6 | 85 |
| Sargas 1E27 N68 CLR RFL | Clear with reflector | E27 (max.100 W) | Ø280x620 | 3,8 | |
| Sargas 142 N69 HF CLR RFL | Clear with reflector | 1x42 (G24q-4) | Ø280x620 | 3,9 | 44 |
| Sargas 150 N71 CLR RFL | Clear with reflector | 1x50 (E27) | Ø280x620 | 5,0 | 62 |
| Sargas 170 N72 CLR RFL | Clear with reflector | 1x70 (E27) | Ø280x620 | 5,0 | 85 |
| Sargas 1E27 N68 CLR RFL ROOF | Clear with reflector and canopy | E27 (max.100 W) | Ø500x630 | 4,7 | |
| Sargas 142 N69 HF CLR RFL ROOF | Clear with reflector and canopy | 1x42 (G24q-4) | Ø500x630 | 4,8 | 44 |
| Sargas 150 N71 CLR RFL ROOF | Clear with reflector and canopy | 1x50 (E27) | Ø500x630 | 5,9 | 62 |
| Sargas 170 N72 CLR RFL ROOF | Clear with reflector and canopy | 1x70 (E27) | Ø500x630 | 5,9 | 85 |

Options available on request:

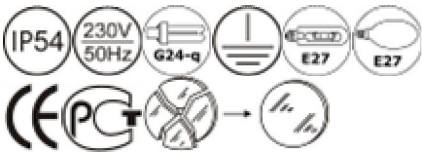
- HS- For high pressure sodium lamps
- HM- For high pressure mercury lamps
- HI- For metal halide lamps
- HF- High Frequency control gear
- PC- PC bowl
- OP- Opal diffuser
- CLR- Clear diffuser
- MAT- Matt coated
- RFL- Stainless steel reflector

SARGAS 150 N71 CLR RFL ROOF



VELA

IP54 Park Lights
with a Large Round
Canopy



Vela 170 N94 OP



Vela 170 N94 CLR RFL ROOF



Vela 170 N94 CLR RFL

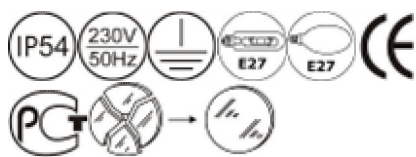
| | |
|----------------|---|
| Type: | A range of decorative park lights with a large round canopy. |
| Specification: | Diffuser made of UV stable PMMA material with a choice from three designs- opal, clear or matt coated. A stainless steel reflector for better glare control and light distribution in clear version is recommended. Canopy in aluminum with dark grey finish. Gear tray made of zinc plated steel. Black colour chassis 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: | Suitable for many applications including parks, path and side walks, minor roads, residential areas and public spaces. |



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.

CASTLE

IP54 Classic-Shaped Park Lights



| | |
|-----------------------|---|
| Type: | A range of classic shaped park lights with a low light pollution. |
| Specification: | Flat toughened glass diffuser with an opal top cap part made of UV stable PC material. A white aluminum reflector from two parts gives better glare control and light distribution. Canopy in aluminum with dark grey finish. Gear tray 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 mounted versions available on request. |
| Application: | Suitable for many applications including parks, old cities path walks and public spaces. |



Suspended mounted version is available on separate request. See option list.

| Type | Lamp (W) and socket | Overall dimensions, 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 |

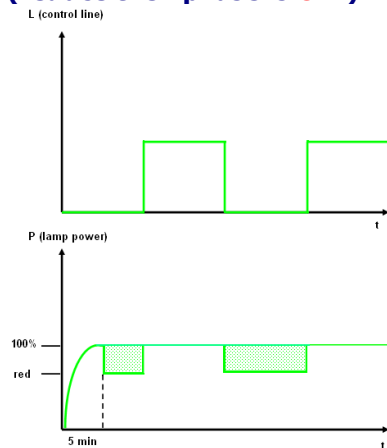
Options available on request:

| | |
|------|---------------------------------|
| HF- | High Frequency control gear |
| HS- | For high pressure sodium lamps |
| HM- | For high pressure mercury lamps |
| HI- | For metal halide lamps |
| SUS- | Suspended mounted version |

ENERGY SAVINGS AND POWER REDUCTION DEVICES FOR STREET LIGHTING

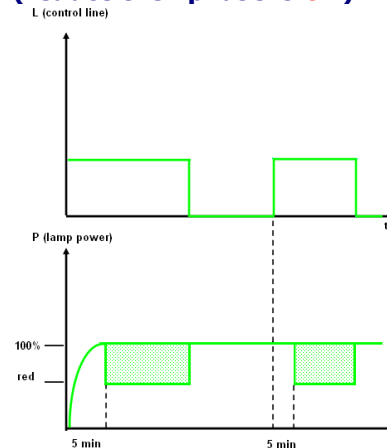


WCoffPRD - power reduction device with control wire (reduce then phase is **OFF**)



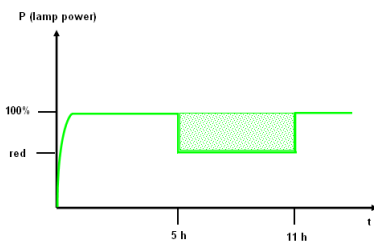
- Switch over to reduced power without applying control voltage
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

WConPRD - power reduction device with control wire (reduce then phase is **ON**)



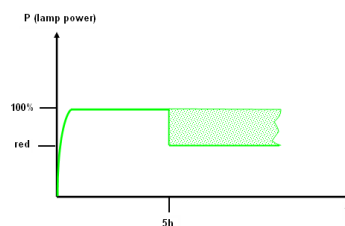
- Switch over to reduced power when control voltage applied, after delay of 5 minutes.
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

AC5h/6hPRD - power reduction device with automatic reduction for 6 h after 5h working time. **No control cable needed.**



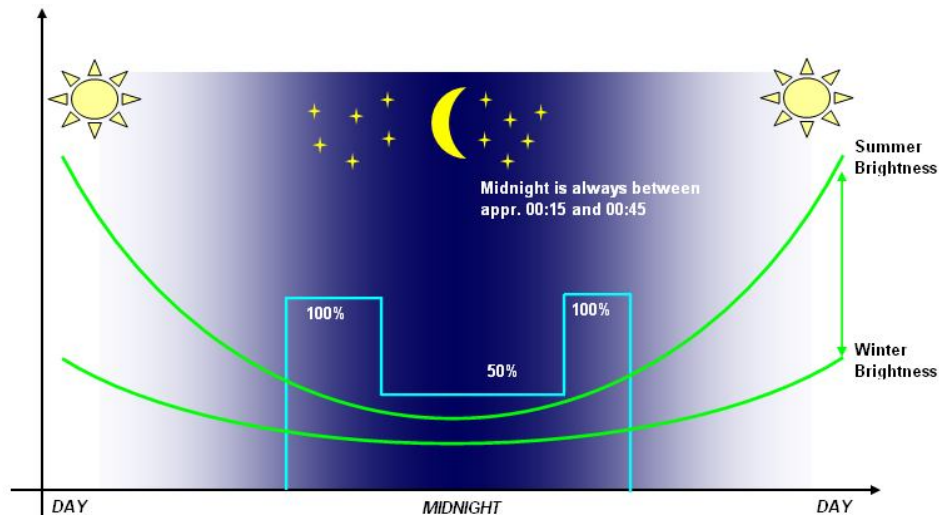
- Program sequence starts after supply voltage is applied
- Switch over to reduced power operation after permanently programmed time of 5h (no additional line needed)
- Reduced operation for 6h
- Full power operation till supply voltage is switched OFF
- 3 minutes of full load operation after short mains interruptions

AC5hPRD - power reduction device with automatic reduction after 5h. **No control cable needed.**



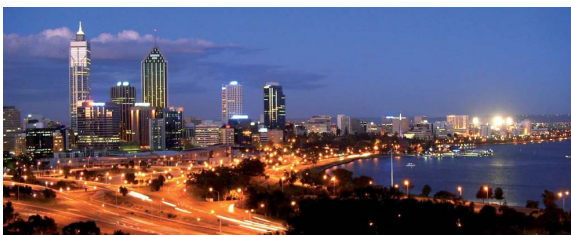
- Program sequence starts after supply voltage is applied
- Switch over to reduced power operation after permanently programmed time of 5h (no additional line needed)
- Reduced operation till supply voltage is switched OFF
- 3 minutes of full load operation after short mains interruptions

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 3h before reference point power increase follows 4h after reference point
- Factory settings could be changed via mains supply, if needed.

EXAMPLE: 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 21:30 (00:30 – 3h), returns to 100% operation at 04:30 (00:30 + 4h). Power switch always takes average of last 3 operating times to calculate reference point.



| | High-pressure Sodium Lamps (HS) | | | | | |
|---------------------------------------|---------------------------------|-------|--------|---------|---------|---------|
| Lamp Wattage, W | 50/35 | 70/50 | 100/70 | 150/100 | 250/150 | 400/250 |
| Circuit power (full), W | 63 | 84 | 115 | 166 | 274 | 434 |
| Circuit power (reduced), W | 40 | 59 | 79 | 107 | 171 | 288 |
| Energy savings, W | 23 | 25 | 36 | 59 | 103 | 146 |
| Circuit power reduction | 37 % | 30 % | 31 % | 36 % | 38 % | 34 % |
| Power-reduced operation/year, h | 2190 | 2190 | 2190 | 2190 | 2190 | 2190 |
| Energy savings per year, kW | 50,37 | 54,75 | 78,84 | 129,21 | 225,57 | 319,74 |
| Savings in Energy costs per year, EUR | 6,04 | 6,57 | 9,46 | 15,50 | 27,07 | 38,36 |
| Payback Period, Years | 3,3 | 3 | 2,1 | 1,3 | 0,7 | 0,5 |

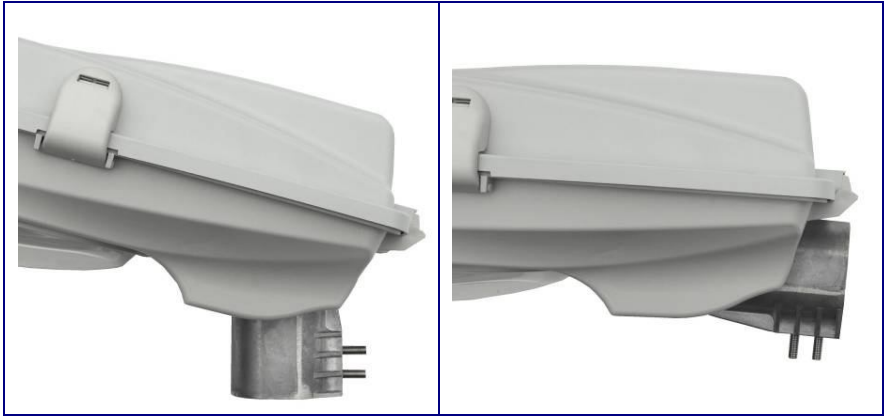
Energy costs are based on the power price of 0,12 Euro/kWh. Output reduction is based on an assumed period of 6 hours per night, 365 days a year. Lamps must always be ignited with the higher rated wattage of ballast and not switched down to reduced wattage before 10 minutes of normal operation after the ignition of a lamp.

ALGOL

IP66 Road and Street Lights with Adjustable Lamp Position



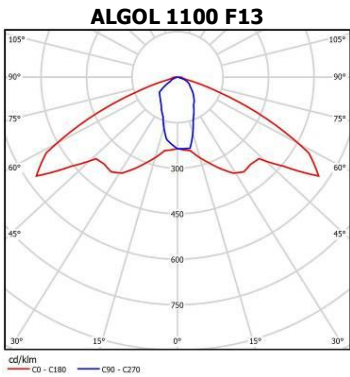
| | |
|-----------------------|--|
| Type: | A range of non-corrosive street lights with unique curved profile. High lighting output and optical performance, designed to match the highest required standards. |
| Specification: | Bright anodized aluminum reflector with transparent PMMA or PC bowl. Adjustable lamp position. Upper and lower canopies made of injection molded glass-fibre UV stabilized polycarbonate. 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 10 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.

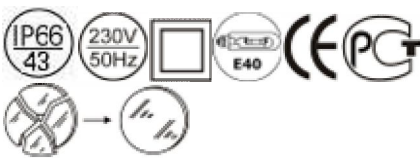
| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|----------------|-------------|---------------------|------------------------|------------|------------------|
| Algol 170 F12 | HS | 1x70 (E27) | 530x350x175 | 3,8 | 85 |
| Algol 1100 F13 | HS | 1x100 (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



ALGOL

IP66/IP43 Road and Street Lights



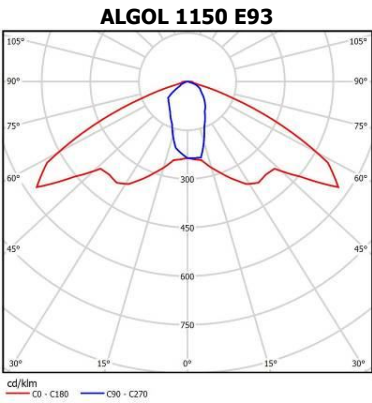
| | |
|-----------------------|--|
| Type: | A range of multi-purpose street lights made of injection molded glass-fibre reinforced polypropylene with a choice of two different sizes for most applications. High lighting output and optical performance. IP66 optical compartment and IP43 (IP44) control gear compartment. |
| Specification: | Anodised aluminum 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 made from injection molded glass-fibre UV stabilized polypropylene with 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 spaces. |



Supplied with special adjustable joint for horizontal or vertical mounting.

| Type | Description | Lamp (W) and socket | Overall dimensions, 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



ALGOL

IP65 Slim-line Road and Street Lights



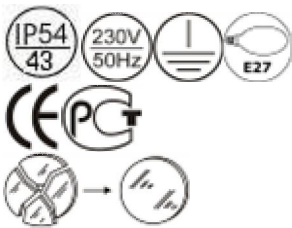
- Type:** A range of IP65 slim street lights with optimal light output at competitive prices.
- Specification:** Bright **anodized** aluminum reflector with transparent PMMA bowl. UV stable polyamide clips with stainless steel springs enable tool-free bowl and gear compartment cover removal. Upper canopy made **of** injection molded glass-fibre UV stabilized polypropylene with grey finish. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Side entry mounting with two screws on pole Ø60mm. Suggested mounting height from 4 to 6 meters.
- Application:** Suitable for many applications including car parks, minor and major roads, residential areas and public **places**.

| Type | Description | Lamp (W) and socket | Overall dimensions, 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

ALGOL

Aluminum Slim-line Road and Street Lights



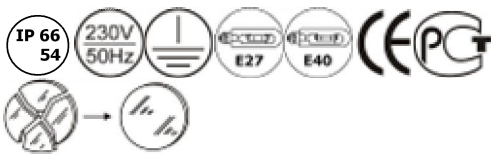
- Type:** A range of street lights made of pressed aluminum with a choice of three different sizes for most applications. Simple yet elegant design and optimal light output at competitive price. IP54 optical compartment and IP43 control gear compartment.
- Specification:** Bright anodized aluminum reflector with transparent PMMA bowl. Extruded aluminum clips with stainless steel springs enable tool-free bowl and gear compartment removal. Upper canopy in pressed aluminum with grey finish. Polypropylene gear compartment cover. Luminaire is plastic-wrapped and boxed individually.
- Installation:** Post top installation with two screw plates on poles Ø42mm. Suggested mounting height from 4 to 6 meters.
- Application:** Suitable for many applications including car parks, minor and major roads, residential areas and public spaces.

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|-------------------|-------------|---------------------|------------------------|------------|------------------|
| Algol 170 E96 | HS | 1x70 (E27) | 510x285x155 | 3,40 | 85 |
| Algol 1125 F18 HM | HM | 1x125 (E27) | 510x285x155 | 3,25 | 138 |

- Options available on request:**
- HS- For high pressure sodium lamps
 - HM- For high pressure mercury lamps
 - HI- For metal halide lamps

ALGOL

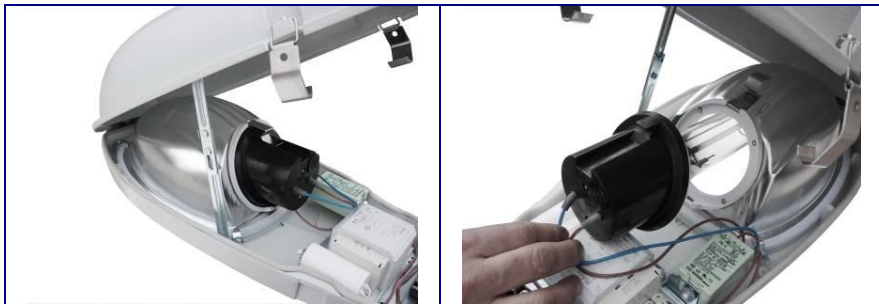
IP66/54 Aluminum Road and Street Lights



| | |
|-----------------------|---|
| Type: | A range of aluminum street lights with security switch. IP66 optical and IP54 control gear compartment. |
| Specification: | Anodized aluminum reflector with tempered glass bowl. Stainless steel clips. Upper canopy and gear compartment cover made of die-cast aluminum with 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: | Suitable for many applications including car parks, minor and major roads, residential areas and public spaces. |



Supplied with special adjustable joint for horizontal or vertical mounting.



Upper canopy fixing in open position allows convenient service and access inside fitting.



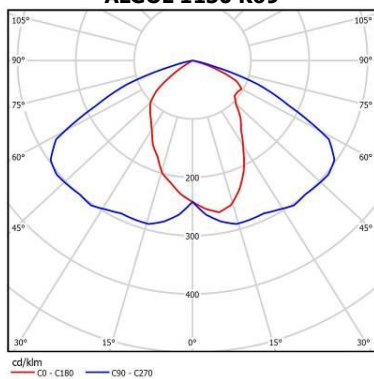
Security switch cuts power supply to fitting, once it has been opened. This way ensures safe maintenance of the luminaire.

| Type | Description | Lamp (W) and socket | Overall dimensions, mm | Weight, kg | Total wattage, W |
|--------------------|-------------|---------------------|------------------------|------------|------------------|
| Algol 150 J33 SWT | HS | 1x50 (E27) | 570x265x110 | 5,50 | 65 |
| 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

ALGOL 1150 K69



INFORMATION

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Table of light stream values for fluorescent light sources supplied by emergency kits NOVA L and NOVA LE in %:

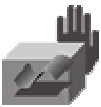


| Light source | Kit type | NOVA L/36, LE36 | NOVA L/58, LE/58 | NOVA L/80, LE/80 |
|---------------|-----------------------|--------------------|---------------------|---------------------|
| | Time of work Power | 1h/2h/3h | 1h/2h/3h | 1h/2h/3h |
| T8 | 18W | 10 | 12 | 23 |
| | 30W | 9 | 13 | 17 |
| | 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 |
| | 26W | - | 12 | 14 |
| T5 | 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 | - | 8 | 10 |
| TC-2D | 54W | - | 7 | 9 |
| | 80W | - | - | 7 |
| | 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)





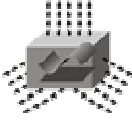



| 1-st number | 2-nd number | added letter | additional letter |
|-------------|-------------|--------------|-------------------|
| 0...6 | 0...8 | A...D | H...W |

| | 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- cent- ration | 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 | | • | | | • | | |

NOTES

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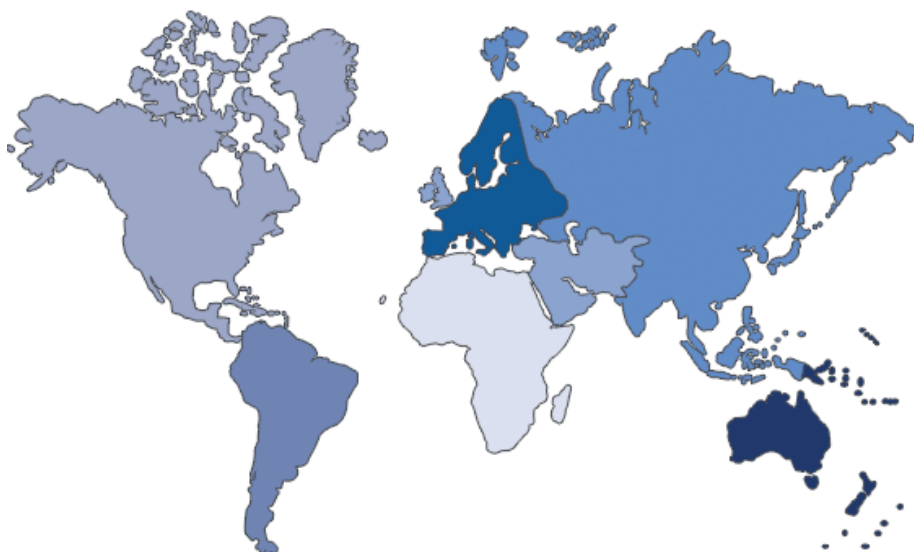
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