

NORTHCLIFFE

MAKING LIFE BRIGHTER

2013–2014

NORTHCLIFFE

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NORTHCLIFFE LIGHTING was established in 1993 with the factories in Lithuania, Russia and Ukraine and since then it has become one of the largest independent lighting manufacturers in Central and Eastern Europe. The company has achieved rapid growth over the last 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.

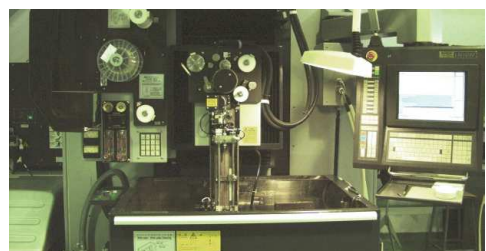
Northcliffe utilizes the most advanced technologies, some of them are unique and patented, to produce low weight and slim light fixtures for easy installation, as well as for efficient storage and transportation.

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 at info@northcliffe.org



HOW TO USE THIS CATALOGUE?

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

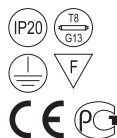
modifications of the luminaire

Photometric data

light characteristics of the product or range of products

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: 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 up to 11 for better glare protection. Fully enclosed white painted steel body. Wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packaged in twin boxes.

Installation: Fits 15–24 mm exposed T-Bar ceilings 600x600 mm.

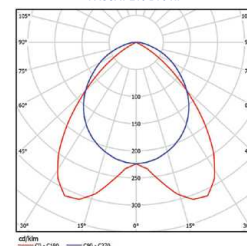
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and socket	Overall dimensions, mm	Weight, kg	Total wattage, W
Passat 218 D75	2x18 (G13)	295x595x85	2.4	42
Passat 418 A07 RGD	4x18 (G13)	595x595x72	3.7	84
Passat 236 D76	2x36 (G13)	295x1195x85	3.9	84
Passat 436 D77	4x36 (G13)	595x1195x85	7.2	168

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- 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
- WIE – 3-poles connector
- NCP – Low Power Factor

PASSAT 218 D75 HF



HOW TO USE CATALOGUE FOR LED RANGE?

BARAT LED

2x

2500

B104

T840

OP

Option list, there:
OP – opalized diffuser

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

Product number

Luminous flux: 2500 lm per module

Quantity of modules

Name of luminaire

Illustrations

Pictures of fitting and options, markings

Product description

luminaire parts, their materials, packaging and applications

Product table

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

Option list

modifications of the luminaire

Photometric data

light characteristics of the product or range of products

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 IK08 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	T857	- Color temperature 5700K
OP	- Opal UV stabilized polycarbonate diffuser	1LN	- Through wiring 3x1.5 mm ² with two push-in terminals
STB	- 5 way terminal block for easy wiring	3LN	- Through wiring 5x1.5 mm ² with two push-in terminals
MW	- MW sensor	1LN2.5	- Through wiring 3x2.5 mm ² with two push-in terminals
T830	- Color temperature 3000K	3LN2.5	- Through wiring 5x2.5 mm ² with two push-in terminals
T840	- Color temperature 4000K		

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Recessed Luminaires

Sirius T5	Polaris T5 Slim	Polaris T5	Polaris T5 White	Levanto T5	Levanto T5 IP40
					
38	40	40	43	44	44
Marengo T5	Marengo T5 IP40	Levanto R LED	Marengo R LED	Breeze T5	
					
44	44	46	46	50	
Jetta C	Jetta C LED	Jetta S	Jetta S LED	Jetta PAR	Jetta PAR LED
					
52	52	53	53	54	54
Bali T5	Bali LED				
					
56	57				
Breeze T8	Breeze DPAR T8/T5	Breeze RIB T8	Passat T8	Mistral ECO T8/T5	Monsoon ECO T8
					
58	60	61	63	64	64
Levanto T8/T5	Levanto T8 IP40	Marengo T8/T5	Marengo T8 IP40		
					
66	66	68	68		

Surface and Suspended Luminaires

Polaris T5	Polaris T5 Slim	Polaris T5 LG3	Suspension kit	Cap & cable	Levanto T5
					
72	74	74	75	75	76
Marengo T5	Levanto S LED	Marengo S LED	Levanto S LED	Marengo S LED	
					
76	78	78	80	80	

Surface and Suspended Luminaires

Breeze T8/T5  82	Breeze LONG T8/T5  82	Breeze DPAR T5/T5  88	Monsoon T8  84	Monsoon LONG T8  84	Passat T8  86
Passat SLIM T8  86	Passat LONG T8  86	Sirocco T8  89	Monsoon ECO T8  90	Mistral ECO T8  90	Levanto T8/T5  92
Levanto SLIM T8/T5  92	Levanto SPORT T8  92	Marengo T8/T5  91	Jetta T8/T5  94		
Bora REF T8  95	Jetta T5  96	Tucana T5  97	Tucana T5 LG3  97	 97	Tucana T5 PULL  97
Tucana T5 SENSE  99	Tucana T5 UP/DOWN  99	I-JOIN  99	Cap & Cable  97	Suspension Set  97	

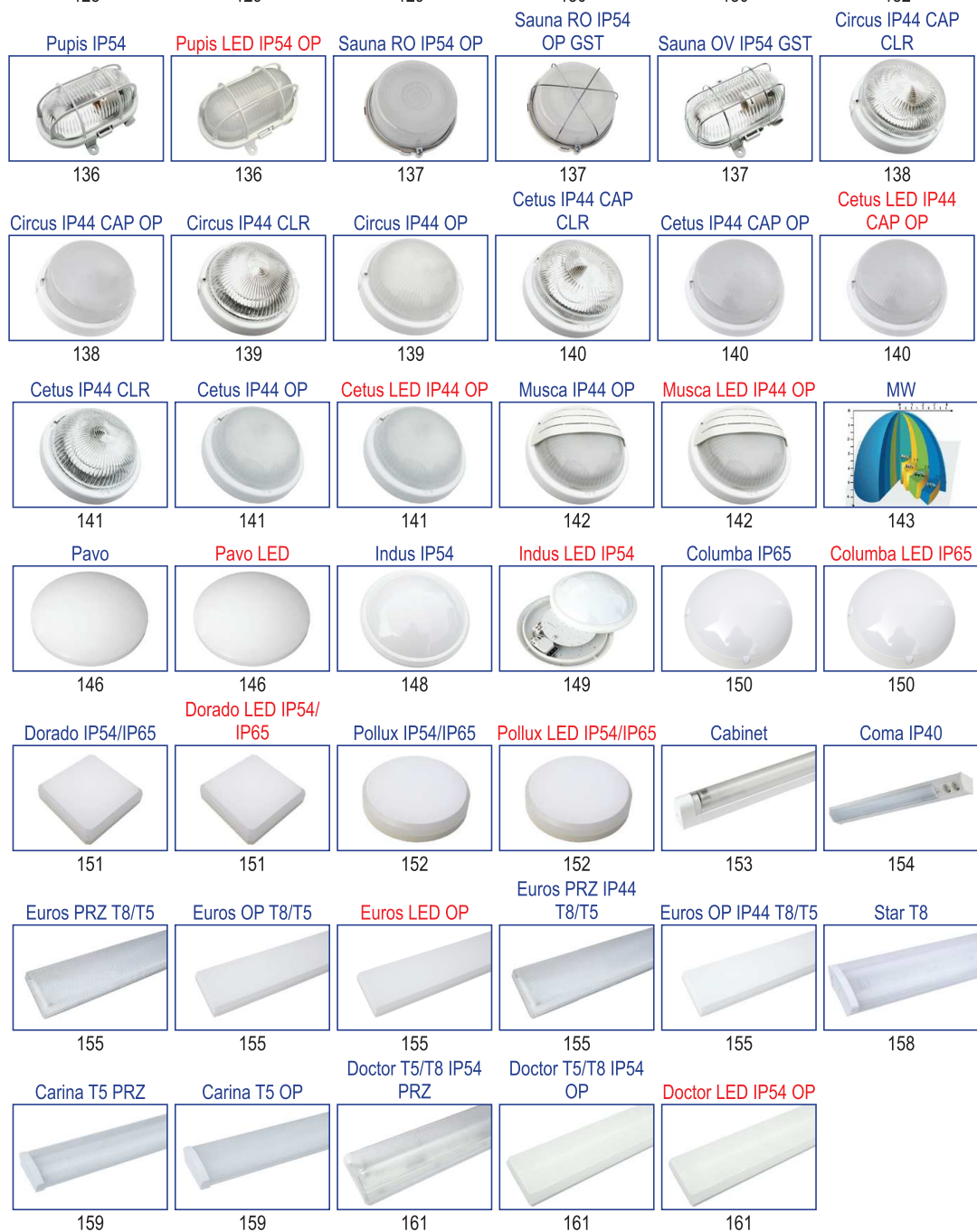
Aluminium Profile Luminaires

Serpens T5 PAR  102	Serpens T5 PRZ  102	Serpens T5 OP  102	Serpens LED OP  102	 102	Serpens D T5 PAR  105
Serpens D T5 PRZ  105	Serpens D T5 OP  105	Serpens D LED OP  105	Decor T5 PAR  107	Decor T5 PRZ  107	Decor T5 OP  107
Decor LED OP  107	 107	Decor D T5 Sense  107	I-JOIN  109	L-JOIN  109	T-JOIN  109
X-JOIN  109	Bracket UP  110	Bracket DOWN  110	Decor D T5 PAR  113	Decor D T5 PRZ  113	Decor D T5 OP  113
Decor D LED OP  113	Decor D T5 Sense  113	Decor D T5 PULL  117	I-JOIN  115	L-JOIN  115	T-JOIN  115
X-JOIN  115	Cap & Cable  113	Suspension Set  113			


















Battens




































Diffuser Luminaires



Waterproof and cleanroom Luminaires

Cyclone T5/T8  IP65 164	Pali T5/T8  IP65 166	Typhoon T8  IP65 168	Barat T5/T8  IP66 (IK08) 169	Barat T5/T8 AS  172	Barat LED OP  IP66 (IK08) 173
Barat T5/T8 PAR  PAR 174	Barat T5/T8 LG3  LG3 176	Nord T5/T8 tmin -40°C  >Tc min -40°C 178	Nord T8 tmax +60°C  >Tmax +60°C 180	Barat T8 EX  Ex 181	Proof T5/T8  IP67 182
Hercules T5/T8 IP65  185	Tunel T5/T8 IP65  186	Tunel LED IP65  187	Hermetic R T5/T8 PAR IP54/IP65  188	Hermetic R T5/T8 PRZ IP54/IP65  188	Hermetic R T5/T8 OP IP54/IP65  188
Hermetic R LED OP IP54/IP65  188	Hermetic S T5/T8 OP IP54  190	Hermetic S LED OP IP54  190			

Emergency Lighting

EMS  192	CEBLV  194	Nova  199	Nova Tmin-25C  200	Apollo  202	Apollo LED  203
Scorpius  204	Scorpius LED  205	Vega  206	Arias  207	Taurus LED  208	Capella LED  209
Ara LED  210	Corridor LED  211	Corridor LED WIDE  212	Corridor LED SUR  211	Apollo HIGH LED  213	Lepus LED  214
Leporis LED  215	Season  216	Dorado  217	Pollux  218	Libra  219	Libra LED  219
Hydra  220	Hydra LED  220	Zeta LED  221			
Pegasus 1x  224	Pegasus 2x  224	Pegasus 3x  224	Pegasus 4x  224	Pegasus HID  225	Pegasus LED 1x  226

Spotlights

Spotlights

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TRACK SYSTEM  227	Attis HID  230	Ares HID  231	Sphinx HID  232	Sphinx LED  232	Calipso HID  233
Canis HID  234	Delphinus HID  235	Mizar OP HID  236	Mizar SOP HID  236		

Downlights

Orion  238	Orion FCT  238	Orion OGL  238	Orion GLR  238	Orion OP IP44  240	Orion SOP IP44  241
Orion LED SOP IP44  242	Orion SOP PRZ IP44  241	Orion LED IP44  243	Orion MIR  244	Orion MR4  244	Ursa FCT  245
Ursa SOP IP44  245	SGEAR  238	Tetra SOP IP44  246	Tetra LED SOP IP44  247	Tetra MR4  248	Orion Surface  249
Orionis SURFACE  250	Orionis LED  250	Perseus IP65  251			

Highbays

Montblanc HID  254	Montblanc LED  254	Prizma HID  255	Prizma LED  255	Auster HID  256	Auster LED  256
Norte HID  257	Norte HID GRID  257	Norte HID FRAME  257	Norte LED  258	Brubu LED  259	Sky T5 SPORT  260
Blade T5 SLIM  262	Blade T5 SLIM HBPIR  262	Blade T5  262	Blade T5 HBPIR  262	SHBPIR  262	Bentu LED  266

Highbays



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Floodlights



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Radius HID max.150 W

Radius LED

Grus HID max.150W

Caver LED

Cygni T5

Cygni LED

Outdoor Accent Lighting



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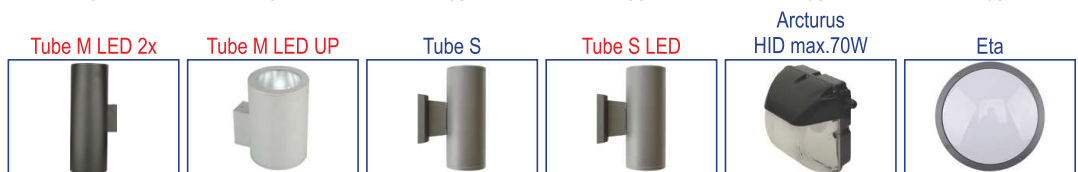
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Outdoor Accent Lighting

Atlas B HID SQUARE max.150W	Atlas B HID MOVE max.150W	Atlas B HID COVER max.150W	Atlas B HID ANGLE max.150W	Atlas B HID LOUVER max.150W	Atlas M HID max.70W
					
305	306	306	306	306	308
Atlas M HID SQUARE max.70W	Atlas M HID COVER max.70 W	Atlas M LED	Atlas M LED SQUARE	Atlas OP LED	Atlas S
					
308	309	310	310	311	312
Atlas S SQUARE	Atlas S COVER	Atlas S LED	Atlas S LED SQUARE	Kappa	Kappa LONG
					
312	313	313	313	314	314
Kappa LED	Kappa LED LONG	Apus	Apus HOL	Apus HOL LOUVER	Apus GRO
					
314	314	315	315	315	315
Apus GRO LOUVER	Apus LED	Apus LED HOL LOUVER	Apus LED GRO LOUVER	Fish	Fish
					
315	315	315	315	317	317
INOX BOX4					
					
317					

Park and Street Luminaires

Draco	Draco LED	Sphere OP	Sphere LED OP	Sphere CLR	Sphere PRZ
					
320	320	321	321	321	321
Cylinder CLR	Sphere SUS	Sargas OP	Sargas OP ROOF	Sargas CLR RFL	Sargas CLR RFL ROOF
					
321	321	323	323	323	323
Vela OP	Vela LED OP	Vela OP ROOF	Vela LED OP ROOF	Vela CLR RFL	Vela CLR RFL ROOF
					
325	325	325	325	325	325
Castle	Castle SUS				
					
327	327				



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

All Northcliffe luminaires are supplied without lamps or tubes.

Certificates:



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

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

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

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



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

2006/95/EC Low voltage Directive

2004/108/EC Electromagnetic Compatibility Directive

96/57/EEC Energy Efficiency Directive

The standards referenced below have been applied:

LST EN 60598-1 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



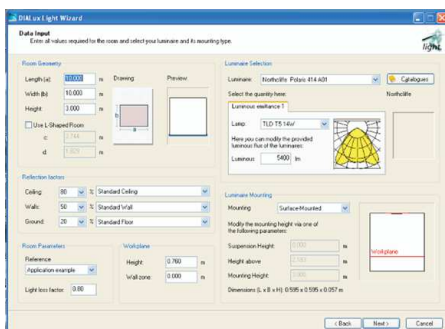
- Lamp and starter holders, terminal blocks from *AAG STUCCHI*, Italy



- Starters and tubes from *OSRAM*, Germany



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



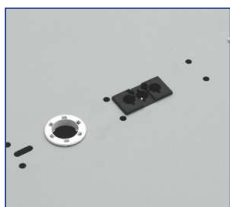
Sophisticated solutions:



Encased push-in type terminal for quick connection



PLUG – fitting with an outgoing flexible cable and plug



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



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



“T” type connector



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



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



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



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



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



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



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



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



MSENSOR – Minisensor with constant light sensor, IR receiver and PIR detector allows advanced lighting control features



SGEAR – quick installation independent gear box

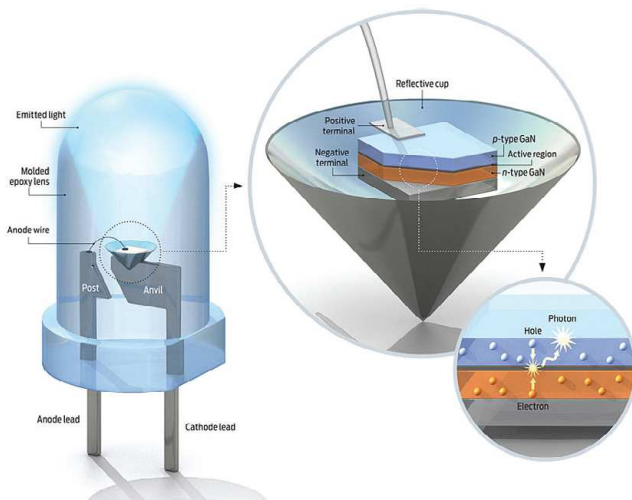
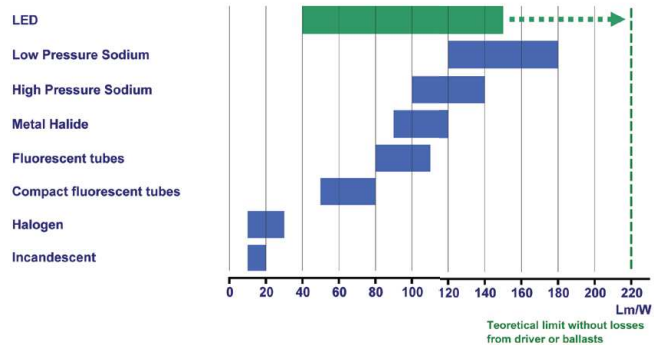


SPORT – white painted protection grid for sport halls (available on request for surface and suspended type 2×36, 2×58 and 4×18 type fixtures)

LED is the technology of the future

LED (Light-emitting diode) technology is becoming more and more important in the world market of illumination, thanks to the numerous features which make it superior to other traditional light sources allowing savings of up to 80% of electricity for the same amount of emitted light. The luminous efficiency of LEDs continues to reach higher values and already theoretical border of 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

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

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

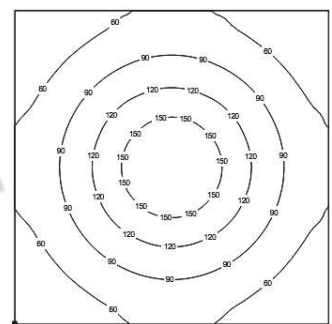
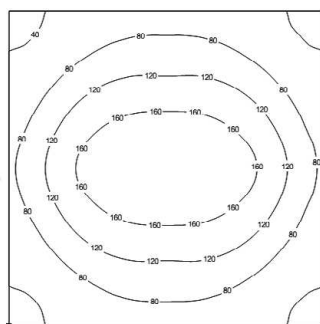


T8 Luminaire 4x18W with magnetic ballasts **86–90 W**



LED luminaire **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)



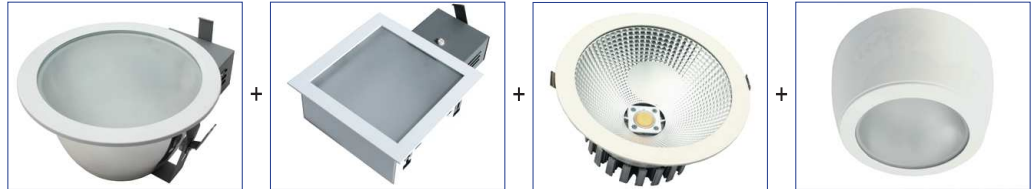
We now have available LED products for the following lighting applications, and other products may be available with an LED option on request. Visit www.northcliffe.org or mail info@northcliffe.org.

Application areas

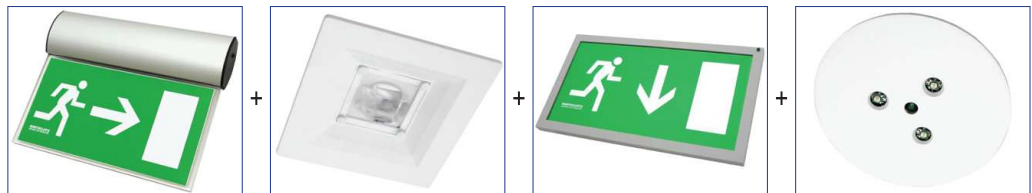
Recessed&Surface LED fittings: for office and commercial buildings



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



Emergency LED lighting: for information purposes when electricity supply fails



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



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



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



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



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



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



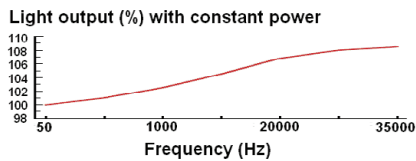
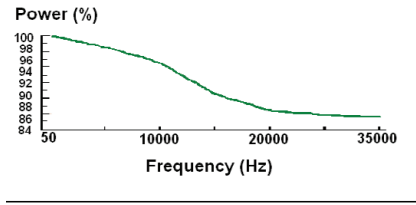
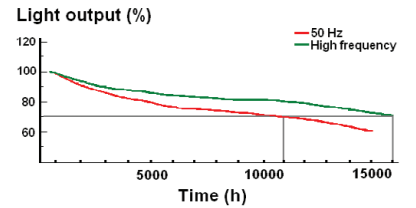
Why electronic ballasts?



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 50 Hz 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.

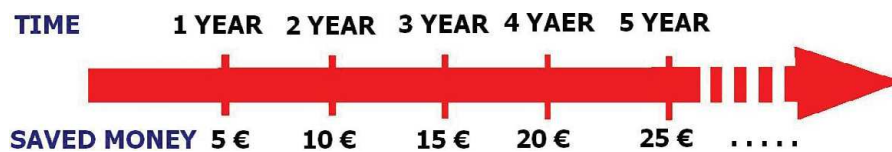


The benefits of using BREEZE T8 Energy saving series

	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 continuously 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 1 year and customer will save 4–5 € per year* from every luminaire installed every coming year !!!

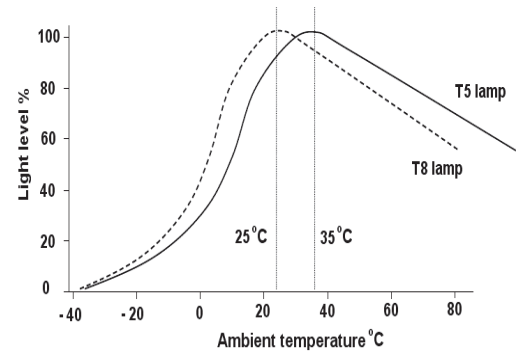
How many lighting fixtures you are planning to install?



*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 (90–104 lm/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.

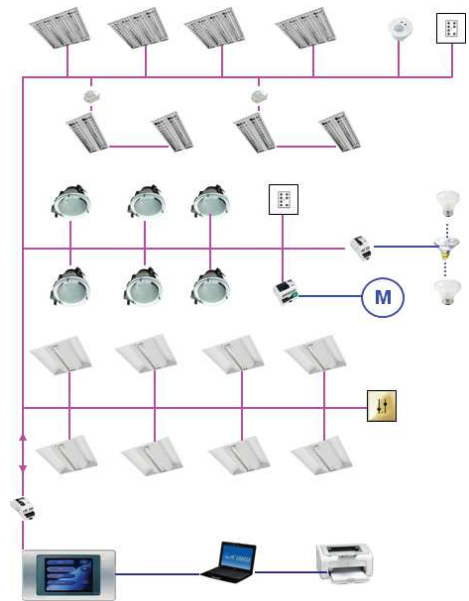
Illumination control system unites all the light sources in the building and gives an opportunity to control each of them individually from any location. Such system allows controlling illumination as much as possible, starting from illumination control in one room and extending to its control in as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

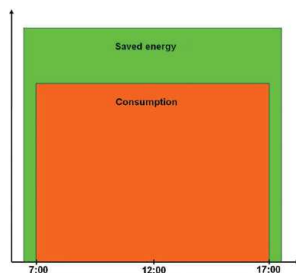
The cost-effectiveness and possibility of illumination sources self-adjustments seems to be one more obvious benefit of the system.

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.

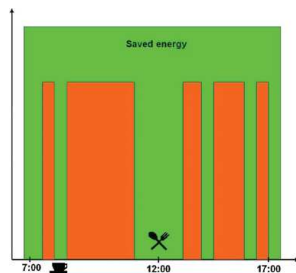
Upon the requests of a client, the system could be adjusted to a more sophisticated one. In such case, a special illumination design is drawn. Such individual complex designs are realized through the adoption of multiple control units corresponding between each other. The more difficult project is, the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



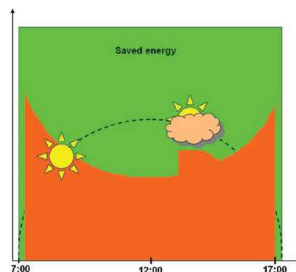
Energy savings with illumination control systems



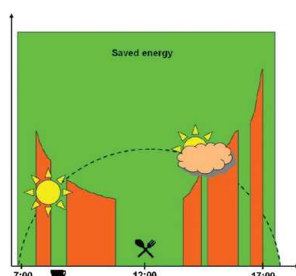
T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast



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

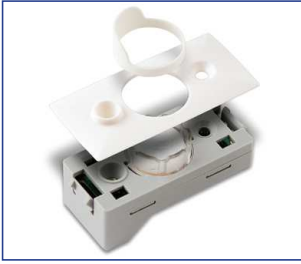


T8 Luminaire with magnetic ballast replaced with T5 luminaire operated by high frequency ballast + Daylight function added (natural light detection)



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 4.5×3 m, mounting height 3 m.



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

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

Constant light measuring range 200–600 Lux.



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

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



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

- Operating range is 5 meters.



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

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



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

- DALI consumption: 10 mA



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

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



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

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



Wall mounted dimmer for use in a DIGIDIM lighting control system. Suitable for tungsten, halogen, low voltage tungsten or neon loads. Different power dimmers available such as 16A, 25A or 8×5A.

- Stabilized output.
- Over temperature protection.



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

- Stabilized output.
- Over temperature protection.



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

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



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

- Status LED.
- Manual override.

Relay loads 10A (resistive), 8A (incandescent), 5A (inductive).



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

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



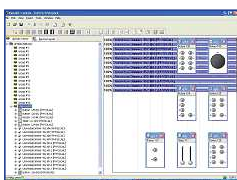
Input unit is a fully DALI compatible interface, designed to allow customer specified switches, sensors, time clocks or other on/off control devices to be incorporated into a DIGIDIM lighting control system.

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



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

- Status LED
- Terminal blocks for wiring.

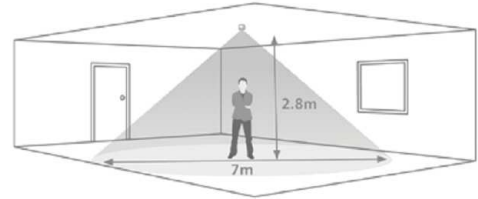


The DIGIDIM *Toolbox software Package* is a complete Windows® based application for designing, programming and maintaining a DIGIDIM lighting control system.

Detector PIR 311

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

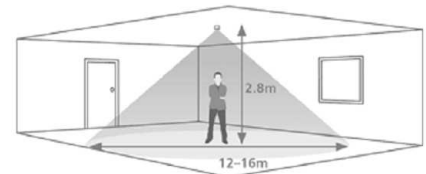
- IR Receiver receives programming commands from the 307 infrared handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



Detector MW 313

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

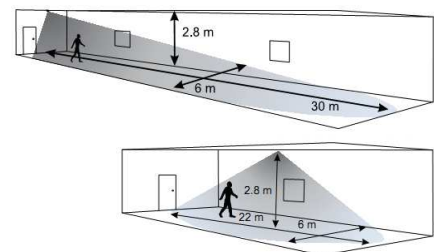
- IR Receiver receives control and programming commands from a 307 IR (infrared) handset (available separately).
- Programmable using the IR Remote. Full system access is available using Helvar's lighting system design and control software; Designer, and DIGIDIM Toolbox.



Detector MW 314

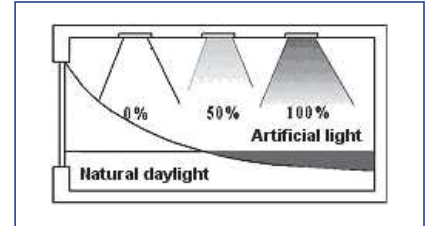
The 314 is also a microwave detector. Again, it works by emitting low-power microwave signals and measuring the reflections as the signal bounces off moving objects. However the detection field for this device is a long narrow beam for use in corridors and aisle ways. The sensor can detect movement up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

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

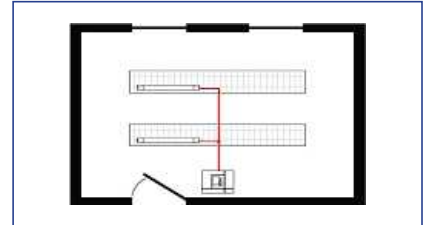


Simple solutions

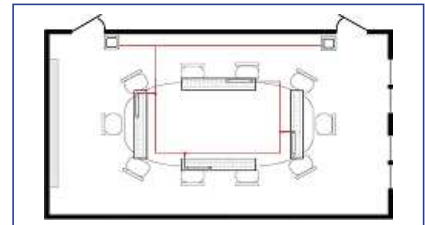
Simple classroom solution. Keeps constant light level combining daylight and artificial light. Using **Mimo3** sensor and controllable (**DIM**) ballasts, fittings could be arranged in groups or act as individual units depending on illumination requirements. Substantial savings could be achieved.



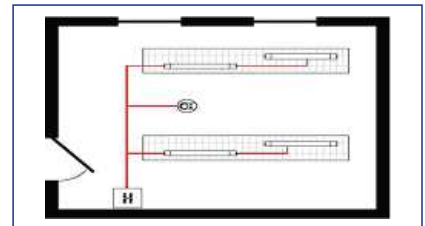
Simple office solution. Light level adjusted manually using **TK4** (switch+dim) panel and controllable (**DIM**) ballasts. Dimming of the fluorescent lamps down to 1% can be achieved using **TK4**.



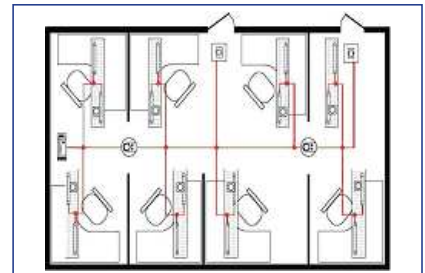
Cost effective meeting room. Luminaires fitted with controllable (**DIM**) ballasts combined with one or more **momentary switches**. Quick push of the button toggles lights on and off, and long press fades the lamps up or down. Solution allows multiple control points by simply connecting switches in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

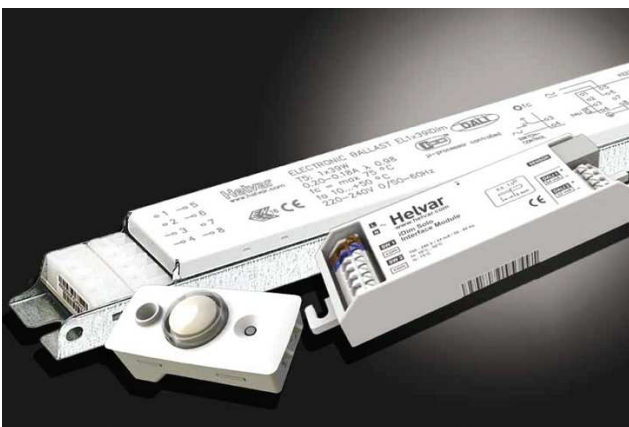
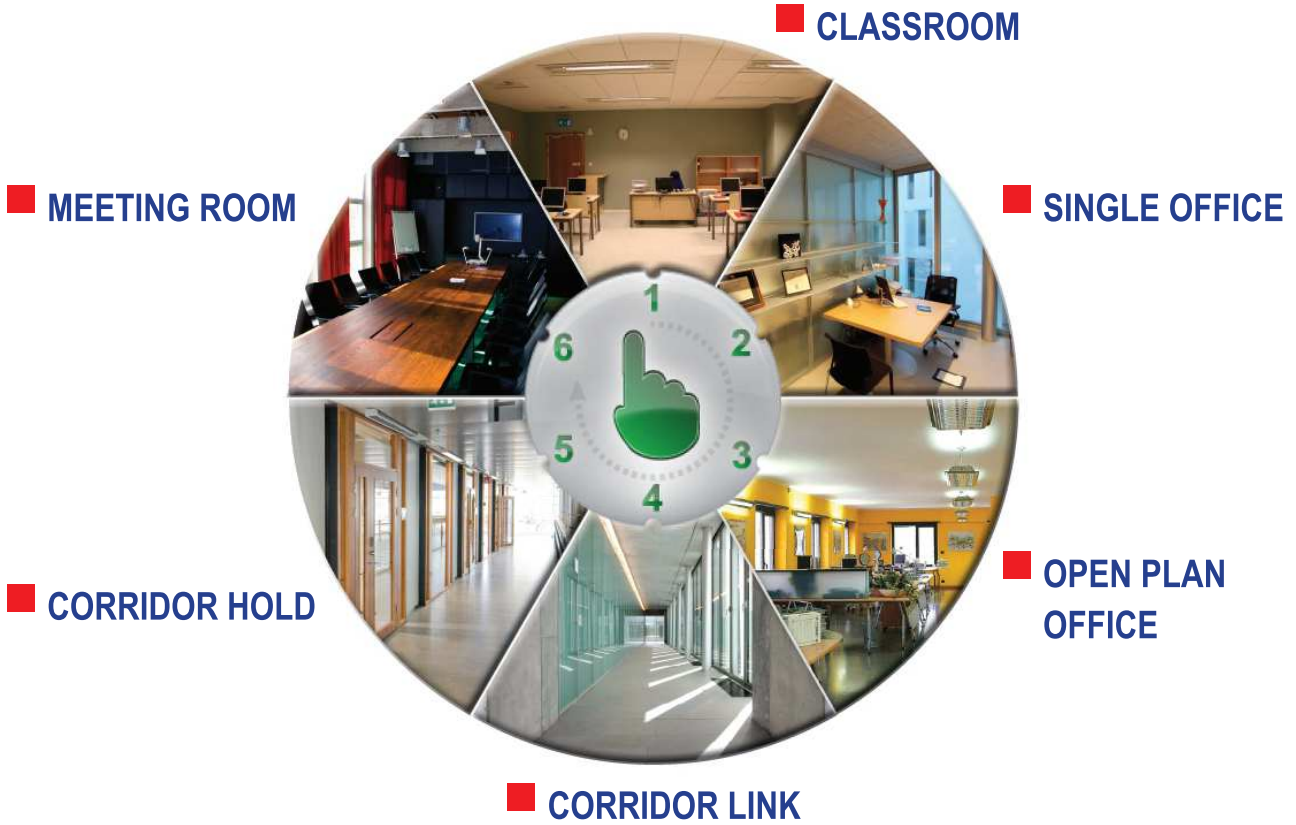


Efficient office solution. Luminaries fitted with digitally controlled (**DALI**) ballasts, gives individual control of each fitting. Multiple light scenes could be stored and recalled at the press of a button using different **Modular panels**. Incorporated **Multisensor** prevents lighting of unused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



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





Simple solutions

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

efficiency effortless innovations

Easy intelligence in luminaires

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



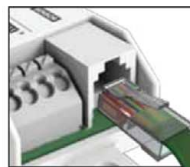
Click-and-go!

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

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



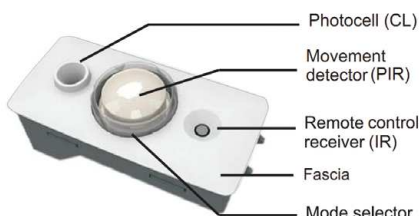
to iDim Solo



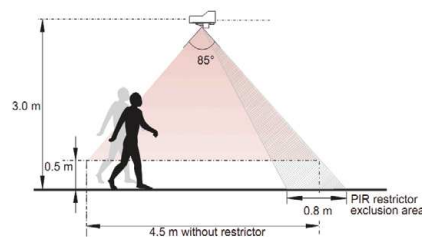
to iDim Sense



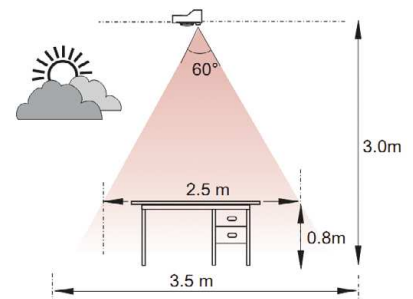
Select the mode



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)	1 min (20%)	1 min (20%)	60 min (20%)	30 min (20%)	1 min (20%)	1 min (20%)
BRIGHT OUT	GO OFF	✓	✓	✓	✓	✓	✓
	STAY OFF	✓	✓	✓	✓	✓	✓
CHANNELS	DALI 1	CL	CL	CL	FL	CL	CL
	DALI 2	Offset	Offset	Offset	FL	Link to Corridor	FL
PRESENCE	ENABLED/DISABLED	Disabled Manual On	Enabled Auto On	Enabled Auto On	Enabled Auto On	Enabled Auto On	Disabled Manual On
ABSENCE	ENABLED/DISABLED	Enabled Auto Off	Enabled Auto Off	Enabled Auto Off	Enabled Auto Off	Enabled Auto Off	Enabled Auto Off

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

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

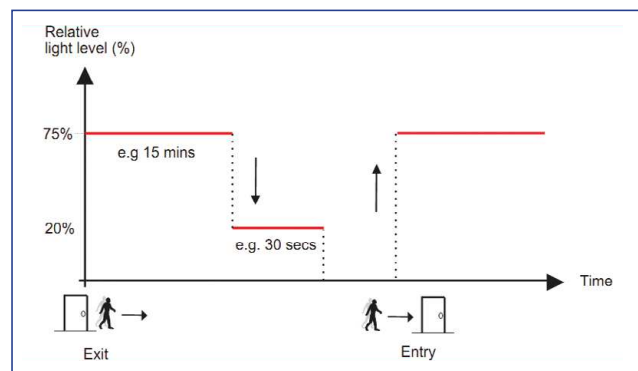
Bright Out – Go Off: If lights are on and there is enough daylight then the lights will go to min level (or off).

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

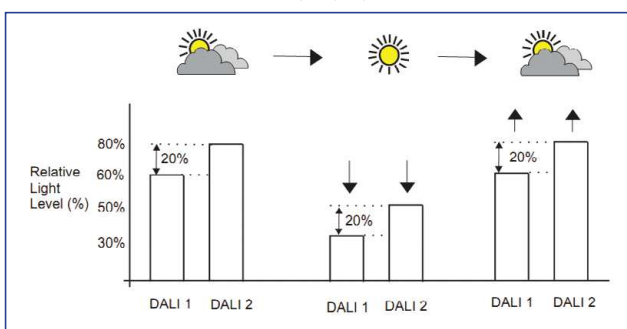
DALI 1 / DALI 2: The outputs can operate as either Constant Light (CL), Fixed Light (FL) and Offset light.

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

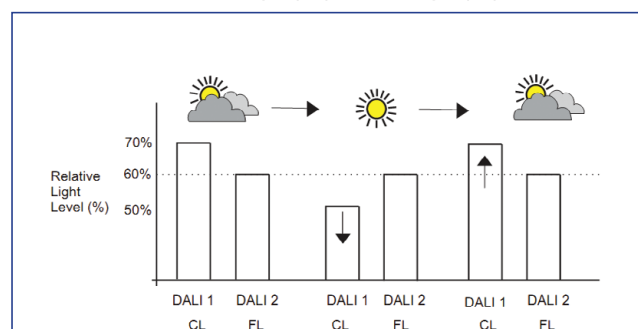
Occupancy and Transition Timeout (PIR)



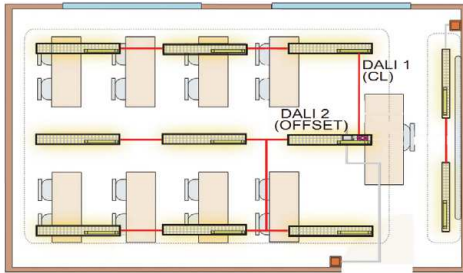
Constant Light (CL) & Offset



Constant Light (CL) & Fixed Light (FL)



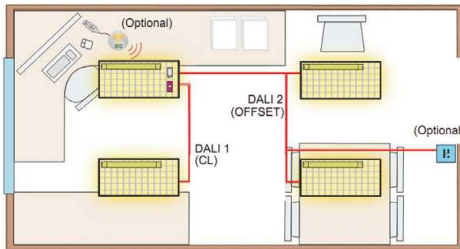
Classroom



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



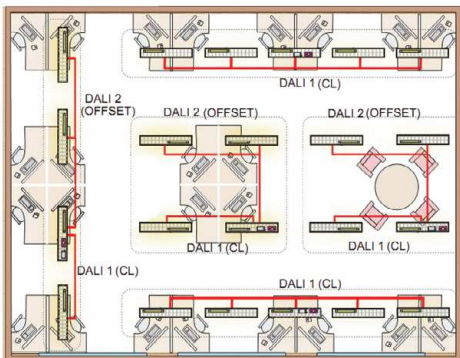
Single office



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.



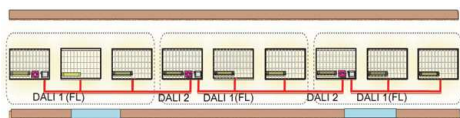
Open plan office



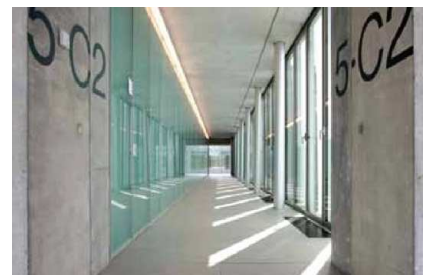
This mode keeps the lights on only when and where needed. It is an energy and cost efficient application creating a safe and convenient working environment for everyone at the same time. All advanced features are available for custom fine tuning.



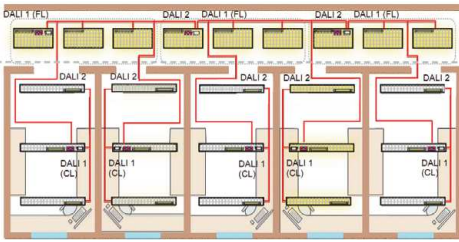
Corridor link



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.

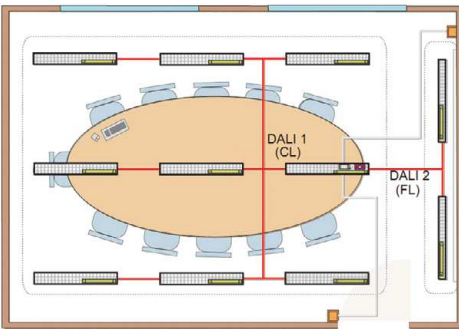







ON: Auto
OFF: Auto
15 min. → 20%
60 sec. → Off
Bright out

Meeting room



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








ON: Manual
OFF: Auto
15 min. → 20%
60 sec. → Off
Bright out



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

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



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

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



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

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

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



iMW – Presence detection with ON/OFF function

Max load capacity – 2 A

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

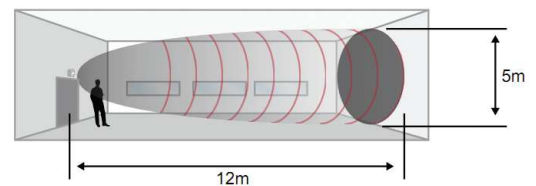
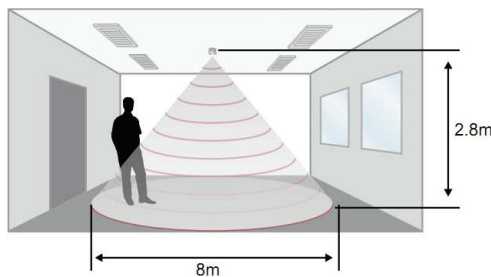
Max load capacity – 2 A

Dimmed Output - 4 × 1–10 V ballasts

iMWDALI – Presence detection with DALI constant light flux control

Max load capacity Relay Output – 2 A

Dimmed Output – 4 × DALI ballasts



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

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



iPIR – Presence detection with ON/OFF function

Max load capacity – 2 A

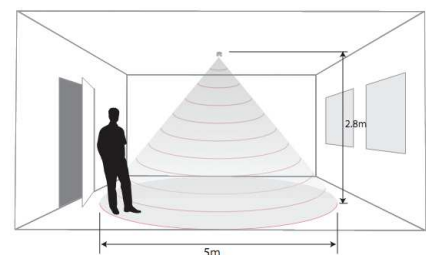
iPIRDIM – Presence detection with 1–10 V constant light flux control

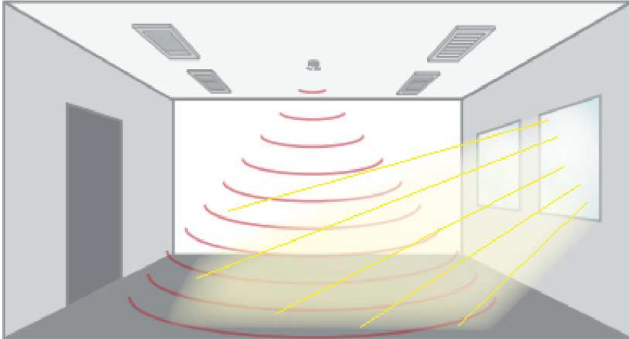
Max load capacity – 2 A

Dimmed Output – 4 × 1–10 V ballasts

Key Features

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

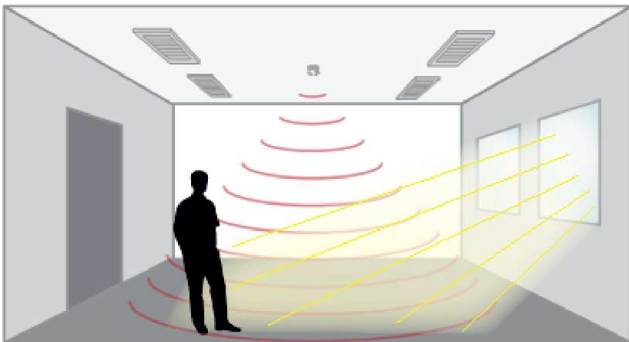




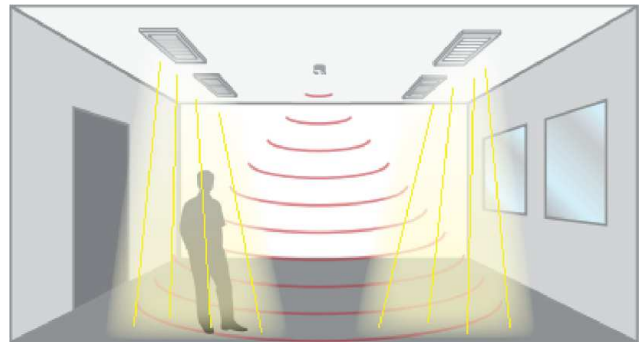
No presence detected, daylight, lights are OFF



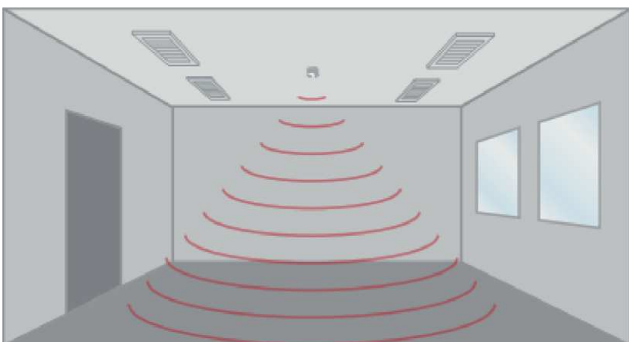
Presence detected some daylight. Lights are ON and dimmed to maintain lux level



Presence detected, sufficient daylight, lights are OFF



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



No presence detected, night time, lights are OFF

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



HIGHBAY AND WALL SWITCH PIR OCCUPANCY SENSORS

Wall Switch Passive Infrared Occupancy Sensor is used to provide automatic lighting control for energy savings and convenience in a variety of commercial applications, including:

- Hotel restrooms
- Conference rooms
- Small offices
- Storage areas
- Hospital restrooms
- Classrooms
- Lounges
- Bathrooms



The **WSSPIR10** uses passive infrared (PIR) detection technology to monitor a room for occupancy through a segmented Fresnel lens. This specialized lens divides the field-of-view into sensor zones. When a person passes into or out of a sensor zone, the sensor detects motion and switches the lights ON. The lights will remain ON as long as there is an occupant moving through the sensor zones.

- Load Rating: 1000W

- Vandal resistant PIR lens.
- Convenient pushbutton provides manual-ON/OFF light switching at any time.
- Beep Warn - unit beeps 3 times after delayed-OFF time expires, then waits 10 seconds before turning lights OFF (only WSSPIR15).
- Self-adjusting delayed-OFF time interval compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching (only WSSPIR15).
- Exclusive Walk-Through feature provides increased energy savings by not leaving the lights ON for an extended period after only momentary occupancy (only WSSPIR15).
- Manual-ON/auto-OFF mode for installations where manual-ON switching is required but auto-OFF switching is still desired for energy savings.
- Time Delay adjustment for delayed-OFF time settings of 30 seconds (for walking test), 10 minutes, 20 minutes, and 30 minutes. Allows customized adjustments to maximize energy savings.
- Light Sensor Adjustable Ambient Light Override ranges from approximately 20 lux to 5000+ lux to prevent lights from turning ON automatically during periods of ample natural light, increasing energy savings.
- Light sensor enables the load hold-OFF feature once level has been set.
- Vacancy confirmation - when the time out expires and the relays turn OFF, a 30 second vacancy confirmation exists to turn the relays back ON.
- False detection circuitry.
- Presentation Mode feature for slide or film presentations allows push buttons to turn lights OFF and keep them OFF while the room is occupied.
- Relay switches at the zero crossing point of the AC power curve to ensure maximum contact life and compatibility with electronic ballasts.



The passive infrared (PIR) sensor **WSSPIRNL** detects motion from a heat-emitting source within its field-of-view to automatically switch lights ON and OFF, offering the same performance features as the WSSPIR family of occupancy sensors. **WSSPIRNL** has the ability to reduce (dim) and turn off the "Guide Light" function with a simple dial setting. The LED NightLight consumes less than 0,5 W providing energy savings and guide lighting when room lights are off.

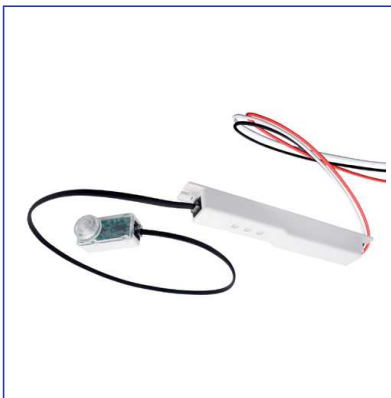
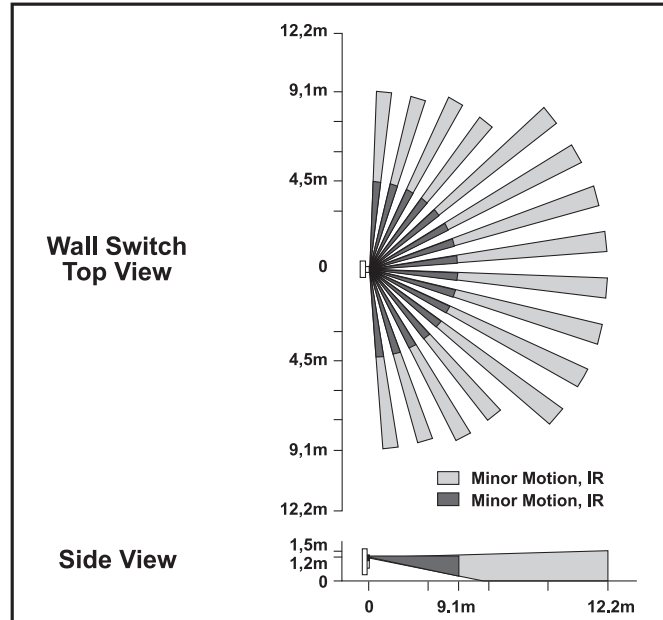
WSSPIRNL is perfect for use in hospitality and healthcare facilities with either auto-ON or manual-ON settings with adjustable time delay settings of 30 seconds to 2 hours. The NightLight Occupancy Sensor Wall Switch can be used to provide automatic lighting control for energy savings and convenience in a variety of commercial applications.

- Load Rating: 1000W

- LED NightLight offers "Guide Light" functionality.
- Adjustable NightLight illumination setting for continuous or dimmed NightLight.
- NightLight Mode - the factory default setting for the NightLight Mode is Dimmed Mode. This means the NightLight will automatically dim to 5% of full brightness after 2 minutes of no occupancy when activated by the internal light sensor.

The Wall Switch Sensors provides a 180° field of view with a maximum coverage area of approximately 222 square meters. The maximum sensing distance in front of the sensor is 12,2 meter, and at each side is 9,1 meter. A “minor-motion” zone detects relatively small body movements and allows the lights to stay ON even though a person may not be moving or walking around the room. The remainder of the field of view, the “major-motion” zone, exhibits a lesser degree of sensitivity and requires larger movements.

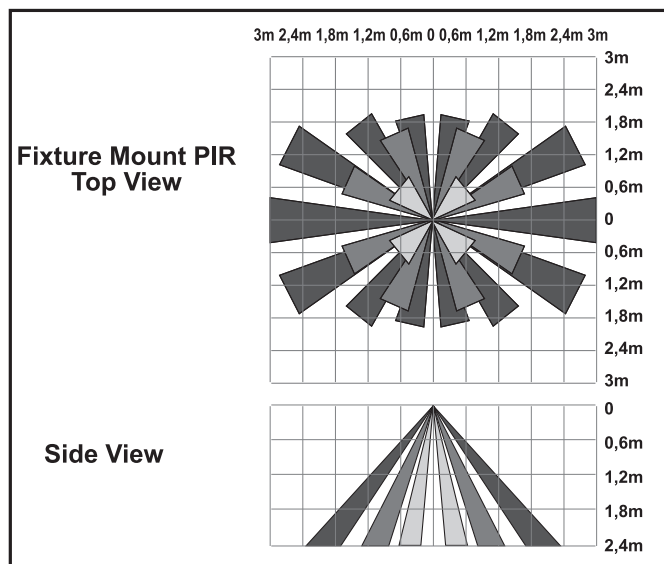
WSSPIR FIELD OF VIEW

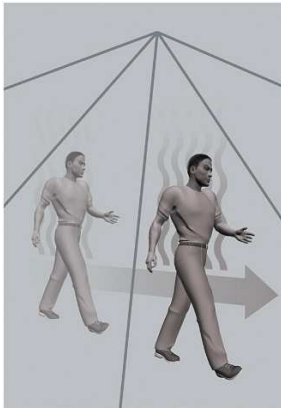


FMPIR Integral Power Pack and Sensor Head, is designed to be mounted directly into a luminaire with an integrated ambient Hold-OFF adjustable photocell for daylighting. The wiring and housing of the power pack is hidden from view behind the reflector cover and only the PIR detector dome lens with locking ring are visible on the exterior of the fixture.

- Field Configurable: no power is required for setting the time delay or light level, reducing labor and callbacks
- Time Delay: timing between the last motion detected and when the lights turn OFF; this can be adjusted 30 seconds to 30 minutes
- Ambient Light Override: utilizes an internal light sensor for measuring room light level and when activated will hold light OFF for increased energy savings
- Load Rating: 1000W

FMPIR FIELD OF VIEW





PASSIVE INFRARED (PIR)



MICROWAVE (MW)

DEFINITIONS:

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



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

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



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

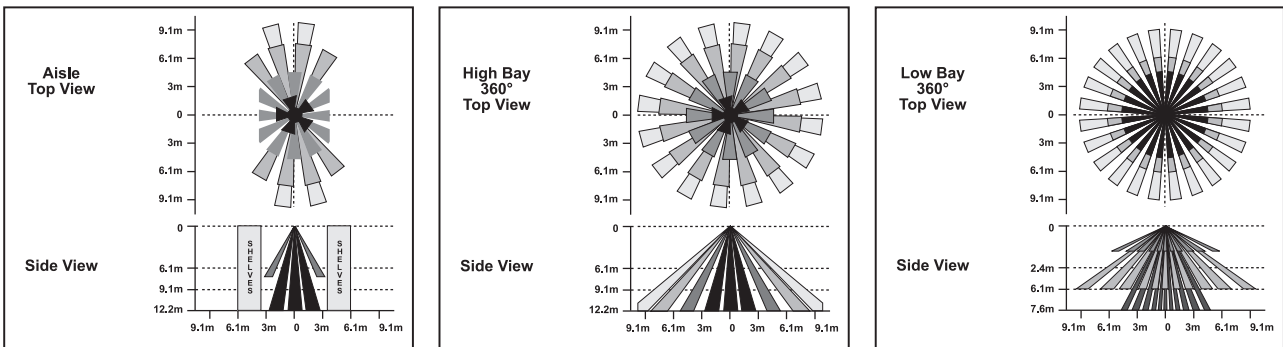
- Fast, easy time delay setting: can be set at any time without requiring power to the sensor; time delay is variable from 30s-30m
- Auto temperature calibration: automatically adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field-of-view
-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



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

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

HBPIR and HBPIR&LIGHT FIELD OF VIEW



More information on HBPIR sensors and energy savings applications please see page 262.



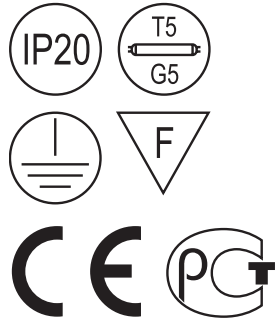
NORTHCLIFFE
MAKING LIFE BRIGHTER

RECESSED LUMINAIRES

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 louvre, for direct light projection, with specular 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% reflectiveness. Fully enclosed white steel body. Deluxe version made completely of specular aluminum. Luminaire is plastic-wrapped and packaged in twin boxes.
- Installation:** Fits 15–24 mm 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.



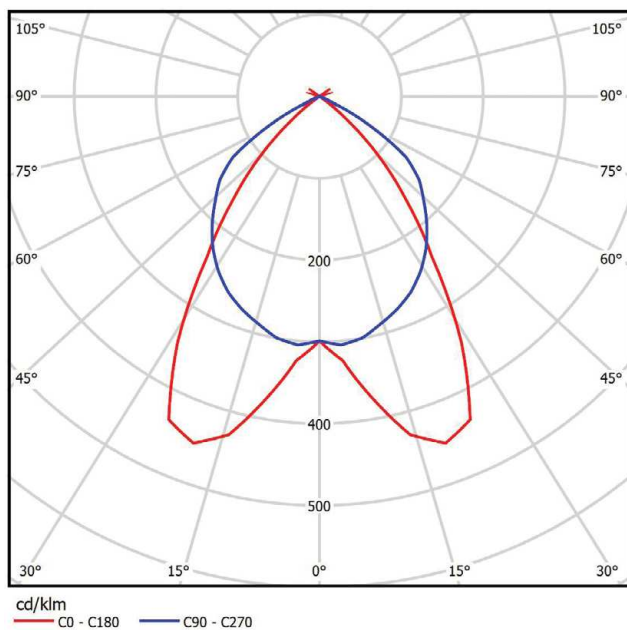
SB – Support brackets (4 pcs) for installation into a plasterboard ceiling. Available on request

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Sirius 224 B37	2×24 (G5)	595×595×66	1,8	49
Sirius 414 A03	4×14 (G5)	595×595×66	1,8	62
Sirius 424 D59	4×24 (G5)	595×595×66	2,1	98
Sirius 224 B37 Deluxe	2×24 (G5)	595×595×66	1,8	49
Sirius 414 A03 Deluxe	4×14 (G5)	595×595×66	1,8	62
Sirius 424 D59 Deluxe	4×24 (G5)	595×595×66	2,1	98

Options available on request:

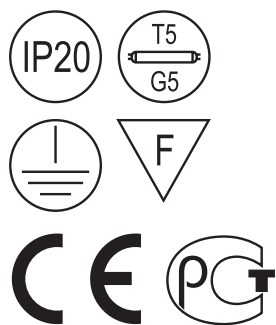
- | | | | |
|-----------|--|--------|---|
| DIM | – Dimmable ballast 1-10V | MAT | – Matt reflector (subject to minimum order) |
| SWITCHDIM | – Switch DIM ballast | MRO | – Reflector Deluxe |
| DALI | – DALI ballasts | PMT | – Matt perforated inserts (subject to minimum order) |
| EMG | – Emergency version 1 hour | MTO | – Matt reflector Deluxe (subject to minimum order) |
| EM2 | – Emergency version 2 hours | SMS | – Glossy aluminum body |
| EM3 | – Emergency version 3 hours | WIE | – 3-poles connector (subject to minimum order) |
| 4TB | – 4 way terminal block for loop feed and ease of wiring | W625 | – Designed for the German market to fit 625×625 suspended ceiling |
| 5TB | – 5 way terminal block with two holes (for in and out going cable) | Deluxe | – MIRO® aluminum louvre and matt aluminum body |

SIRIUS 224 B37 DELUXE



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 matt aluminum. Luminaire is plastic-wrapped and packaged in twin boxes.

Installation: Fits 15–24 mm 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 – Supports brackets (4 pcs) for installation into a plasterboard ceiling available on request.



To fit 625×625 mm suspended ceiling (Germany market) could be designed. More information see in option list.

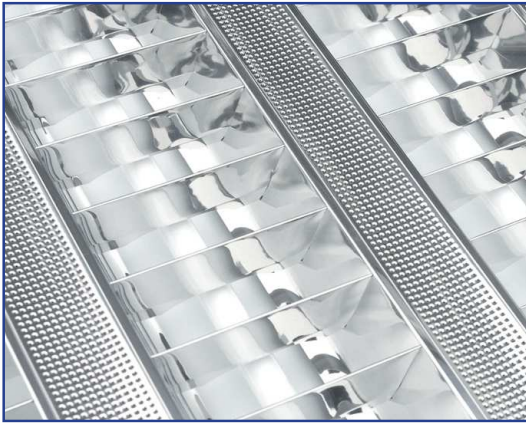
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Polaris 214 B12	2x14 (G5)	295x595x57	1,1	31
Polaris 224 D70	2x24 (G5)	295x595x57	1,1	49
Polaris 414 A01	4x14 (G5)	595x595x57	1,8	62
Polaris 424 D06	4x24 (G5)	595x595x57	1,8	98
Polaris 128 I10	1x28 (G5)	143x1195x57	1,1	30,5
Polaris 228 I11	2x28 (G5)	143x1195x57	1,2	60
Polaris 154 I12	1x54 (G5)	143x1195x57	1,1	58
Polaris 254 I13	2x54 (G5)	143x1195x57	1,2	116
Polaris 228 F04	2x28 (G5)	295x1195x57	3,4	60
Polaris 254 F05	2x54 (G5)	295x1195x57	3,4	114,5
Polaris 428 F06	4x28 (G5)	595x1195x57	6,7	120
Polaris 454 F07	4x54 (G5)	595x1195x57	6,7	229



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



Standard version manufactured from glossy aluminum louvre and white steel body



DB- version with cross-blades made from one piece (straight). More information see in option list.

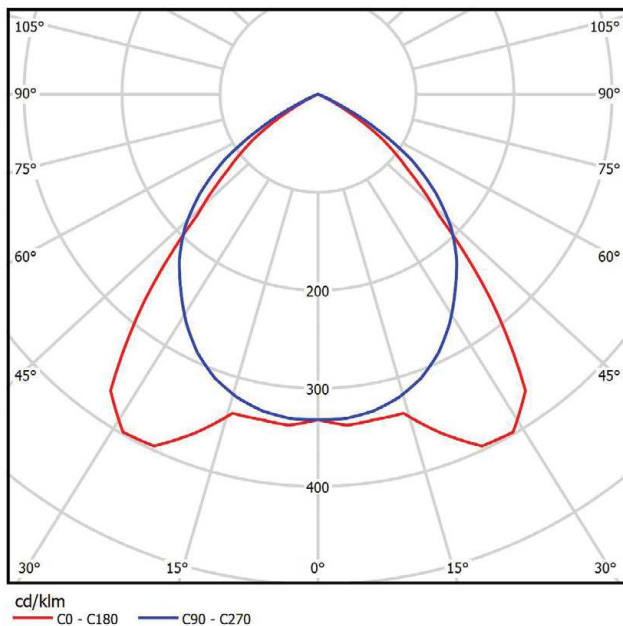


Fitting can be made with "Wieland" type socket for quick connection. "Push in" type connector for 2 cables 3x2,5mm² supplied with a fitting. So total installation time can be reduced to a few minutes. More information see in sophisticated solutions.

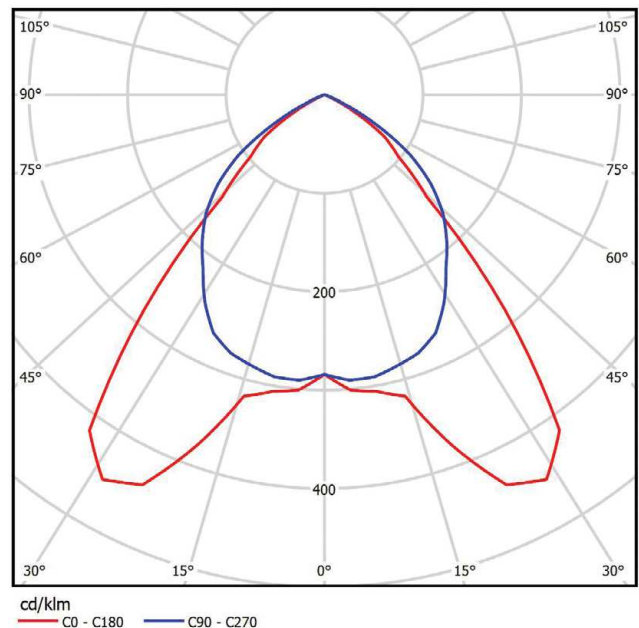
Options available on request:

- | | | | |
|-----------|--|------|---|
| DIM | - Dimmable ballast 1-10V | MAT | - Matt reflector (subject to minimum order) |
| SWITCHDIM | - Switch DIM ballast | MTO | - Matt reflector Deluxe (subject to minimum order) |
| DALI | - DALI ballasts | MRO | - Reflector Deluxe |
| EMG | - Emergency version 1 hour | WHT | - White perforated inserts |
| EM2 | - Emergency version 2 hours | W625 | - Designed for the German market to fit 625x625 suspended ceiling |
| EM3 | - Emergency version 3 hours | WIE | - 3-poles connector |
| 4TB | - 4 way terminal block for loop feed and ease of wiring | DB | - Version with straight cross-blades |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | SMS | - Glossy aluminum body |
| Deluxe | - MIRO® aluminum louvre and matt aluminum body | | |

POLARIS 414 A01

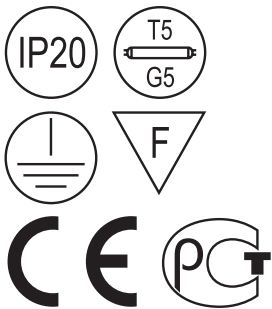


POLARIS 214 B12 DELUXE



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 15–24 mm 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.

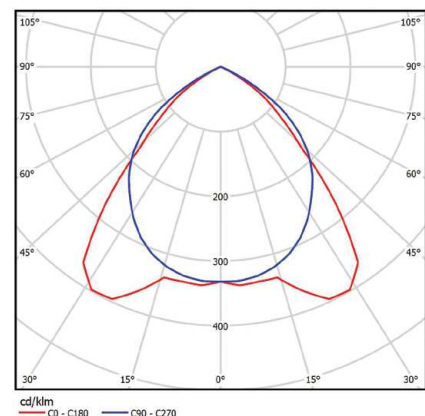
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Polaris 214 O63	2x14 (G5)	295x595x57	1,1	31
Polaris 224 O64	2x24 (G5)	295x595x57	1,1	49
Polaris 314 E61	3x14 (G5)	595x595x57	1,8	47
Polaris 324 E62	3x24 (G5)	595x595x57	1,8	74
Polaris 414 F02	4x14 (G5)	595x595x57	1,8	62
Polaris 424 F03	4x24 (G5)	595x595x57	1,8	98
Polaris 228 S18	2x28 (G5)	295x1195x57	3,4	60
Polaris 254 S19	2x54 (G5)	295x1195x57	3,4	114,5
Polaris 428 S20	4x28 (G5)	595x1195x57	6,7	120
Polaris 454 S21	4x54 (G5)	595x1195x57	6,7	229

Options available on request:

DIM – Dimmable ballast 1-10V
 SWITCHDIM – Switch DIM ballast
 DALI – DALI ballasts
 EMG – Emergency version 1 hour
 EM2 – Emergency version 2 hours
 EM3 – Emergency version 3 hours
 DB – Version with straight cross-blades
 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 matt aluminum body

MAT – Matt reflector (subject to minimum order)
 WIE – 3-poles connector Wieland or similar connectors (subject to minimum order)
 W625 – Designed specifically for the German market to fit 625x625 suspended ceiling
 SB – Support brackets (4 pieces)

POLARIS 314 E61



LEVANTO & MARENCO

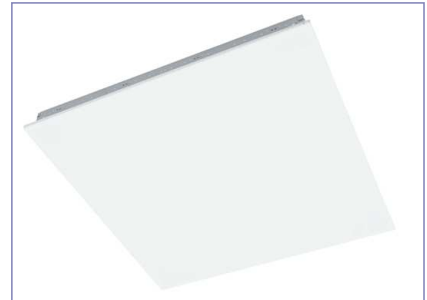
T5 Recessed Luminaire with Opal or Prismatic Diffuser



Marengo 414 R50



Marengo 414 S26



Levanto 414 R87

Type: Traditional recessed T5 luminaire with opal or prismatic diffuser for most applications.

Specification: UV stable opal (Levanto) or prismatic (Marengo) diffuser.
Fully enclosed white steel body.
Luminaire is plastic-wrapped and packaged in twin boxes.

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

Application: Office buildings, shops and other commercial environments.



UV stable opal or prismatic sheet can be fitted to the body with a steel frame.

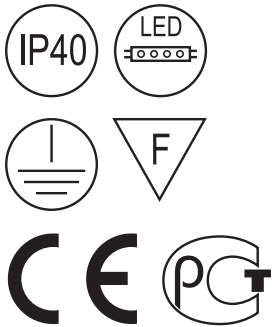
Options available on request:

- | | | | |
|-----------|---|------|--|
| DIM | - Dimmable ballast 1-10V | 5TB | - 5 way terminal block with two holes (for in and out going cable) |
| SWITCHDIM | - Switch DIM ballast | MPRZ | - Mikroprismatic diffuser |
| 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 |
| EM2 | - Emergency version 2 hours | SB | - Support brackets (4 pieces) |
| EM3 | - Emergency version 3 hours | L80 | - Opal sheet with 80% light transmission |
| 4TB | - 4 way terminal block for loop feed and ease of wiring | | |

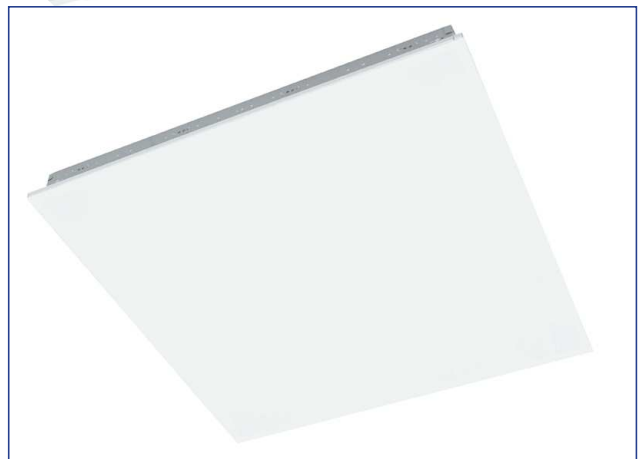
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Marenco 114 R44	IP20	1x14 (G5)	295x595x57	1,2	16
Marenco 124 R45	IP20	1x24 (G5)	295x595x57	1,2	25
Marenco 214 R46	IP20	2x14 (G5)	295x595x57	1,2	31
Marenco 224 R47	IP20	2x24 (G5)	295x595x57	1,2	49
Marenco 314 R48	IP20	3x14 (G5)	595x595x57	1,8	47
Marenco 324 R49	IP20	3x24 (G5)	595x595x57	1,8	74
Marenco 414 R50	IP20	4x14 (G5)	595x595x57	1,8	62
Marenco 424 R51	IP20	4x24 (G5)	595x595x57	1,8	98
Marenco 128 R52	IP20	1x28 (G5)	143x1195x57	1,4	30,5
Marenco 154 R53	IP20	1x54 (G5)	143x1195x57	1,4	58
Marenco 228 R54	IP20	2x28 (G5)	295x1195x57	2,4	60
Marenco 254 R55	IP20	2x54 (G5)	295x1195x57	2,4	115
Marenco 328 R56	IP20	3x28 (G5)	595x1195x57	4,8	90,5
Marenco 354 R57	IP20	3x54 (G5)	595x1195x57	4,8	173
Marenco 428 R58	IP20	4x28 (G5)	595x1195x57	4,8	120
Marenco 454 R59	IP20	4x54 (G5)	595x1195x57	4,8	229
Levanto 114 R89	IP20	1x14 (G5)	295x595x57	1,2	16
Levanto 124 R90	IP20	1x24 (G5)	295x595x57	1,2	25
Levanto 214 R91	IP20	2x14 (G5)	295x595x57	1,2	31
Levanto 224 R92	IP20	2x24 (G5)	295x595x57	1,2	49
Levanto 314 R85	IP20	3x14 (G5)	595x595x57	1,8	47
Levanto 324 R86	IP20	3x24 (G5)	595x595x57	1,8	74
Levanto 414 R87	IP20	4x14 (G5)	595x595x57	1,8	62
Levanto 424 R88	IP20	4x24 (G5)	595x595x57	1,8	98
Levanto 128 R93	IP20	1x28 (G5)	143x1195x57	1,4	30,5
Levanto 154 R94	IP20	1x54 (G5)	143x1195x57	1,4	58
Levanto 228 R95	IP20	2x28 (G5)	295x1195x57	2,4	60
Levanto 254 R96	IP20	2x54 (G5)	295x1195x57	2,4	115
Levanto 328 R97	IP20	3x28 (G5)	595x1195x57	4,8	90,5
Levanto 354 R98	IP20	3x54 (G5)	595x1195x57	4,8	173
Levanto 428 R99	IP20	4x28 (G5)	595x1195x57	4,8	120
Levanto 454 S01	IP20	4x54 (G5)	595x1195x57	4,8	229
Marenco 214 S22	IP40, framed	2x14 (G5)	295x595x57	1,2	31
Marenco 224 S23	IP40, framed	2x24 (G5)	295x595x57	1,2	49
Marenco 314 S24	IP40, framed	3x14 (G5)	595x595x57	2	47
Marenco 324 S25	IP40, framed	3x24 (G5)	595x595x57	2	74
Marenco 414 S26	IP40, framed	4x14 (G5)	595x595x57	2	62
Marenco 424 S27	IP40, framed	4x24 (G5)	595x595x57	2	98
Marenco 128 S28	IP40, framed	1x28 (G5)	143x1195x57	1,6	30,5
Marenco 154 S29	IP40, framed	1x54 (G5)	143x1195x57	1,6	58
Marenco 228 S30	IP40, framed	2x28 (G5)	295x1195x57	2,6	60
Marenco 254 S31	IP40, framed	2x54 (G5)	295x1195x57	2,6	115
Marenco 328 S32	IP40, framed	3x28 (G5)	595x1195x57	5	90,5
Marenco 354 S33	IP40, framed	3x54 (G5)	595x1195x57	5	173
Marenco 428 S34	IP40, framed	4x28 (G5)	595x1195x57	5	120
Marenco 454 S35	IP40, framed	4x54 (G5)	595x1195x57	5	229
Levanto 214 S36	IP40, framed	2x14 (G5)	295x595x57	1,2	31
Levanto 224 S37	IP40, framed	2x24 (G5)	295x595x57	1,2	49
Levanto 314 S38	IP40, framed	3x14 (G5)	595x595x57	2	47
Levanto 324 S39	IP40, framed	3x24 (G5)	595x595x57	2	74
Levanto 414 S40	IP40, framed	4x14 (G5)	595x595x57	2	62
Levanto 424 S41	IP40, framed	4x24 (G5)	595x595x57	2	98
Levanto 128 S42	IP40, framed	1x28 (G5)	143x1195x57	1,6	30,5
Levanto 154 S43	IP40, framed	1x54 (G5)	143x1195x57	1,6	58
Levanto 228 S44	IP40, framed	2x28 (G5)	295x1195x57	2,6	60
Levanto 254 S45	IP40, framed	2x54 (G5)	295x1195x57	2,6	115
Levanto 328 S46	IP40, framed	3x28 (G5)	595x1195x57	5	90,5
Levanto 354 S47	IP40, framed	3x54 (G5)	595x1195x57	5	173
Levanto 428 S48	IP40, framed	4x28 (G5)	595x1195x57	5	120
Levanto 454 S49	IP40, framed	4x54 (G5)	595x1195x57	5	229

LEVANTO & MARENCO LED

Recessed Luminaire with Opal or Pizmatic Diffuser



Marenco R LED4x1050 B202 T840



Levanto R LED4x1050 B199 T840

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



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

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Levanto R LED1x1050 B251 T840	IP20	295x595x57	1050	4000	>80	11	1,2
Levanto R LED1x1400 B252 T840	IP20	295x595x57	1400	4000	>80	14	1,2
Levanto R LED1x2000 B253 T840	IP20	295x595x57	2000	4000	>80	20	1,2
Levanto R LED2x1050 B209 T840	IP20	295x595x57	2100	4000	>80	21	1,2
Levanto R LED2x1400 B254 T840	IP20	295x595x57	2800	4000	>80	28	1,2
Levanto R LED2x2000 B255 T840	IP20	295x595x57	4000	4000	>80	40	1,2
Levanto R LED3x1050 B198 T840	IP20	595x595x57	3150	4000	>80	31	2
Levanto R LED3x1400 B256 T840	IP20	595x595x57	4200	4000	>80	41	2
Levanto R LED3x2000 B257 T840	IP20	595x595x57	6000	4000	>80	59	2
Levanto R LED4x1050 B199 T840	IP20	595x595x57	4200	4000	>80	41	2
Levanto R LED4x1400 B258 T840	IP20	595x595x57	5600	4000	>80	55	2
Levanto R LED4x2000 B259 T840	IP20	595x595x57	8000	4000	>80	79	2
Levanto R LED1x2350 B260 T840	IP20	143x1195x57	2350	4000	>80	23	1,6
Levanto R LED1x3150 B261 T840	IP20	143x1195x57	3150	4000	>80	31	1,6
Levanto R LED1x4300 B262 T840	IP20	143x1195x57	4300	4000	>80	42	1,6
Levanto R LED2x2350 B210 T840	IP20	295x1195x57	4700	4000	>80	46	2,6
Levanto R LED2x3150 B263 T840	IP20	295x1195x57	6300	4000	>80	62	2,6
Levanto R LED2x4300 B264 T840	IP20	295x1195x57	8600	4000	>80	84	2,6
Levanto R LED3x2350 B211 T840	IP20	595x1195x57	7050	4000	>80	69	5
Levanto R LED3x3150 B265 T840	IP20	595x1195x57	9450	4000	>80	93	5
Levanto R LED3x4300 B266 T840	IP20	595x1195x57	12900	4000	>80	126	5
Levanto R LED4x2350 B212 T840	IP20	595x1195x57	9400	4000	>80	92	5
Levanto R LED4x3150 B267 T840	IP20	595x1195x57	12600	4000	>80	123	5
Levanto R LED4x4300 B268 T840	IP20	595x1195x57	17200	4000	>80	168	5
Levanto R LED4x3150 B267 T840	IP20	595x1195x57	12600	4000	>80	123	5
Levanto R LED4x4300 B268 T840	IP20	595x1195x57	17200	4000	>80	168	5
Marengo R LED1x1050 B269 T840	IP20	295x595x57	1050	4000	>80	11	1,2
Marengo R LED1x1400 B270 T840	IP20	295x595x57	1400	4000	>80	14	1,2
Marengo R LED1x2000 B271 T840	IP20	295x595x57	2000	4000	>80	20	1,2
Marengo R LED2x1050 B213 T840	IP20	295x595x57	2100	4000	>80	21	1,2
Marengo R LED2x1400 B272 T840	IP20	295x595x57	2800	4000	>80	28	1,2
Marengo R LED2x2000 B273 T840	IP20	295x595x57	4000	4000	>80	40	1,2
Marengo R LED3x1050 B201 T840	IP20	595x595x57	3150	4000	>80	31	2
Marengo R LED3x1400 B274 T840	IP20	595x595x57	4200	4000	>80	41	2
Marengo R LED3x2000 B275 T840	IP20	595x595x57	6000	4000	>80	59	2
Marengo R LED4x1050 B202 T840	IP20	595x595x57	4200	4000	>80	41	2
Marengo R LED4x1400 B276 T840	IP20	595x595x57	5600	4000	>80	55	2
Marengo R LED4x2000 B277 T840	IP20	595x595x57	8000	4000	>80	79	2
Marengo R LED1x2350 B278 T840	IP20	143x1195x57	2350	4000	>80	23	1,6
Marengo R LED1x3150 B279 T840	IP20	143x1195x57	3150	4000	>80	31	1,6
Marengo R LED1x4300 B280 T840	IP20	143x1195x57	4300	4000	>80	42	1,6
Marengo R LED2x2350 B214 T840	IP20	295x1195x57	4700	4000	>80	46	2,6
Marengo R LED2x3150 B281 T840	IP20	295x1195x57	6300	4000	>80	62	2,6
Marengo R LED2x4300 B282 T840	IP20	295x1195x57	8600	4000	>80	84	2,6
Marengo R LED3x2350 B287 T840	IP20	595x1195x57	7050	4000	>80	69	5
Marengo R LED3x3150 B283 T840	IP20	595x1195x57	9450	4000	>80	93	5
Marengo R LED3x4300 B284 T840	IP20	595x1195x57	12900	4000	>80	126	5
Marengo R LED4x2350 B215 T840	IP20	595x1195x57	9400	4000	>80	92	5
Marengo R LED4x3150 B285 T840	IP20	595x1195x57	12600	4000	>80	123	5
Marengo R LED4x4300 B286 T840	IP20	595x1195x57	17200	4000	>80	168	5



UV stable opal or prismatic sheet can be fitted to the body with a steel frame.

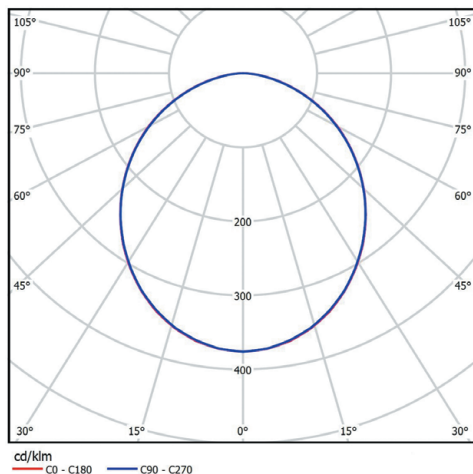
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Levanto R LED1x1050 B288 T840	IP40, framed	295x595x57	1050	4000	>80	11	1,4
Levanto R LED1x1400 B289 T840	IP40, framed	295x595x57	1400	4000	>80	14	1,4
Levanto R LED1x2000 B290 T840	IP40, framed	295x595x57	2000	4000	>80	20	1,4
Levanto R LED2x1050 B291 T840	IP40, framed	295x595x57	2100	4000	>80	21	1,4
Levanto R LED2x1400 B292 T840	IP40, framed	295x595x57	2800	4000	>80	28	1,4
Levanto R LED2x2000 B293 T840	IP40, framed	295x595x57	4000	4000	>80	40	1,4
Levanto R LED3x1050 B294 T840	IP40, framed	595x595x57	3150	4000	>80	31	2,2
Levanto R LED3x1400 B295 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Levanto R LED3x2000 B296 T840	IP40, framed	595x595x57	6000	4000	>80	59	2,2
Levanto R LED4x1050 B334 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Levanto R LED4x1400 B335 T840	IP40, framed	595x595x57	5600	4000	>80	55	2,2
Levanto R LED4x2000 B297 T840	IP40, framed	595x595x57	8000	4000	>80	79	2,2
Levanto R LED1x2350 B298 T840	IP40, framed	143x1195x57	2350	4000	>80	23	1,8
Levanto R LED1x3150 B299 T840	IP40, framed	143x1195x57	3150	4000	>80	31	1,8
Levanto R LED1x4300 B300 T840	IP40, framed	143x1195x57	4300	4000	>80	42	1,8
Levanto R LED2x2350 B301 T840	IP40, framed	295x1195x57	4700	4000	>80	46	2,8
Levanto R LED2x3150 B302 T840	IP40, framed	295x1195x57	6300	4000	>80	62	2,8
Levanto R LED2x4300 B303 T840	IP40, framed	295x1195x57	8600	4000	>80	84	2,8
Levanto R LED3x2350 B304 T840	IP40, framed	595x1195x57	7050	4000	>80	69	5,2
Levanto R LED3x3150 B305 T840	IP40, framed	595x1195x57	9450	4000	>80	93	5,2
Levanto R LED3x4300 B306 T840	IP40, framed	595x1195x57	12900	4000	>80	126	5,2
Levanto R LED4x2350 B307 T840	IP40, framed	595x1195x57	9400	4000	>80	92	5,2
Levanto R LED4x3150 B308 T840	IP40, framed	595x1195x57	12600	4000	>80	123	5,2
Levanto R LED4x4300 B309 T840	IP40, framed	595x1195x57	17200	4000	>80	168	5,2

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Marengo R LED1x1050 B310 T840	IP40, framed	295x595x57	1050	4000	>80	11	1,4
Marengo R LED1x1400 B311 T840	IP40, framed	295x595x57	1400	4000	>80	14	1,4
Marengo R LED1x2000 B312 T840	IP40, framed	295x595x57	2000	4000	>80	20	1,4
Marengo R LED2x1050 B313 T840	IP40, framed	295x595x57	2100	4000	>80	21	1,4
Marengo R LED2x1400 B314 T840	IP40, framed	295x595x57	2800	4000	>80	28	1,4
Marengo R LED2x2000 B315 T840	IP40, framed	295x595x57	4000	4000	>80	40	1,4
Marengo R LED3x1050 B316 T840	IP40, framed	595x595x57	3150	4000	>80	31	2,2
Marengo R LED3x1400 B317 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Marengo R LED3x2000 B318 T840	IP40, framed	595x595x57	6000	4000	>80	59	2,2
Marengo R LED4x1050 B319 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Marengo R LED4x1400 B320 T840	IP40, framed	595x595x57	5600	4000	>80	55	2,2
Marengo R LED4x2000 B321 T840	IP40, framed	595x595x57	8000	4000	>80	79	2,2
Marengo R LED1x2350 B322 T840	IP40, framed	143x1195x57	2350	4000	>80	23	1,8
Marengo R LED1x3150 B323 T840	IP40, framed	143x1195x57	3150	4000	>80	31	1,8
Marengo R LED1x4300 B324 T840	IP40, framed	143x1195x57	4300	4000	>80	42	1,8
Marengo R LED2x2350 B325 T840	IP40, framed	295x1195x57	4700	4000	>80	46	2,8
Marengo R LED2x3150 B326 T840	IP40, framed	295x1195x57	6300	4000	>80	62	2,8
Marengo R LED2x4300 B327 T840	IP40, framed	295x1195x57	8600	4000	>80	84	2,8
Marengo R LED3x2350 B328 T840	IP40, framed	595x1195x57	7050	4000	>80	69	5,2
Marengo R LED3x3150 B329 T840	IP40, framed	595x1195x57	9450	4000	>80	93	5,2
Marengo R LED3x4300 B330 T840	IP40, framed	595x1195x57	12900	4000	>80	126	5,2
Marengo R LED4x2350 B331 T840	IP40, framed	595x1195x57	9400	4000	>80	92	5,2
Marengo R LED4x3150 B332 T840	IP40, framed	595x1195x57	12600	4000	>80	123	5,2
Marengo R LED4x4300 B333 T840	IP40, framed	595x1195x57	17200	4000	>80	168	5,2

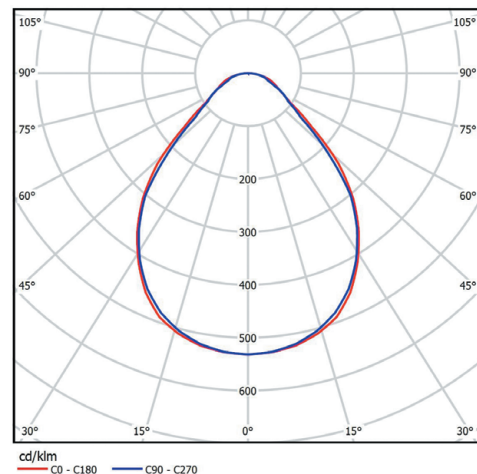
Options available on request:

- | | | | |
|-----------|---|------|--|
| DIM | - Dimmable ballast 1-10V | W625 | - Designed specifically for the German market to fit 625x625 suspended ceiling |
| SWITCHDIM | - Switch DIM ballast | SB | - Support brackets (4 pieces) |
| DALI | - DALI ballasts | T830 | - Color temperature 3000K |
| EMG | - Emergency version 1 hour | T840 | - Color temperature 4000K |
| EM2 | - Emergency version 2 hours | T857 | - Color temperature 5700K |
| EM3 | - Emergency version 3 hours | L80 | - Opal sheet with 80% light transmission |
| MPRZ | - Mikroprismatic diffuser | | |
| WIE | - 3- poles connector Wieland or similar connectors (subject to minimum order) | | |

LEVANTO R LED4X1050 B199 T840

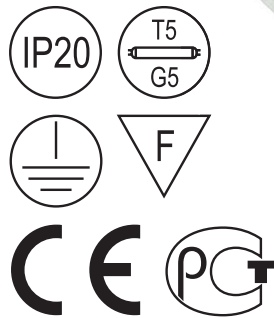


MARENCO R LED4X1050 B202 T840



BREEZE T5

Recessed Luminaire



Breeze 414 F41



Breeze 414 F41 9CR

Type: Recessed T5 luminaire with a choice of louvres for most applications.

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 15–24 mm exposed T-Bar ceilings 600×600 mm. 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 625×625 mm suspended ceiling (Germany market) could be designed. For more information, see Option list.

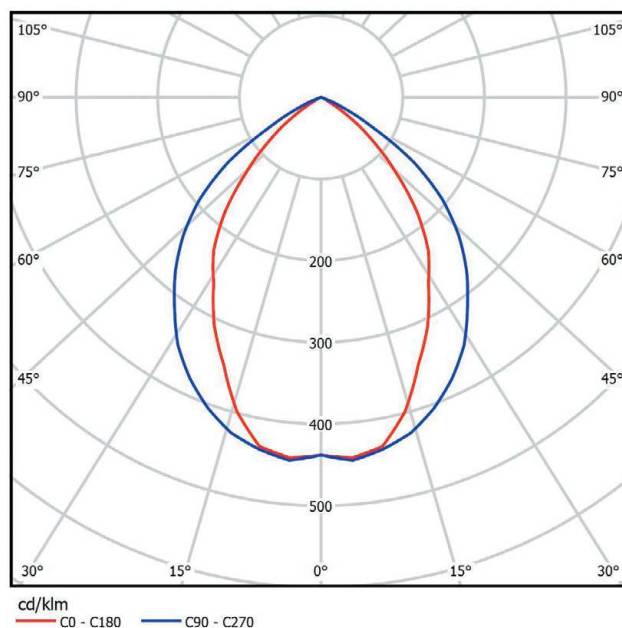
SB – Support brackets (4 pcs) for installation into a plasterboard ceiling. Available on request.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 214 I25	2×14 (G5)	295×595×85	2,2	31
Breeze 224 I26	2×24 (G5)	295×595×85	2,2	49
Breeze 314 K27	3×14 (G5)	595×595×72	2,8	46
Breeze 314 K27 7CR	3×14 (G5)	595×595×72	2,8	46
Breeze 314 K27 9CR	3×14 (G5)	595×595×72	2,8	46
Breeze 324 K34	3×24 (G5)	595×595×72	3,05	73
Breeze 324 K34 9CR	3×24 (G5)	595×595×72	3,05	73
Breeze 414 F41	4×14 (G5)	595×595×72	2,9	62
Breeze 414 F41 7CR	4×14 (G5)	595×595×72	2,9	62
Breeze 414 F41 9CR	4×14 (G5)	595×595×72	2,9	62
Breeze 414 F41 11CR	4×14 (G5)	595×595×72	2,9	62
Breeze 424 F08	4×24 (G5)	595×595×72	3,15	98
Breeze 424 F08 9CR	4×24 (G5)	595×595×72	3,15	98
Breeze 228 I27	2×28 (G5)	295×1195×85	3,2	60
Breeze 254 I28	2×54 (G5)	295×1195×85	3,2	115
Breeze 328 K30	3×28 (G5)	595×1195×85	5,7	90
Breeze 354 K31	3×54 (G5)	595×1195×85	5,7	172,5
Breeze 428 I29	4×28 (G5)	595×1195×85	5,7	120
Breeze 454 I30	4×54 (G5)	595×1195×85	5,7	230

Options available on request:

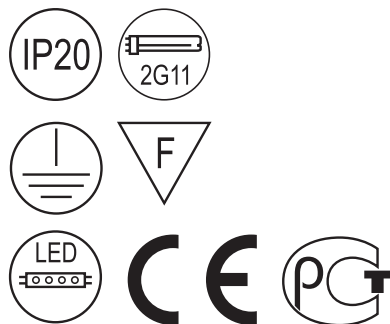
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- MBL – Matt 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 (2/4×28/54 W)
- W625 – Designed specifically for the German market to fit 625×625 suspended ceiling or plasterboard

BREEZE 414 F41 9CR



JETTA

Recessed Indirect Luminaire



- Type:** Modern design Indirect LED or CFL luminaire with light source 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.

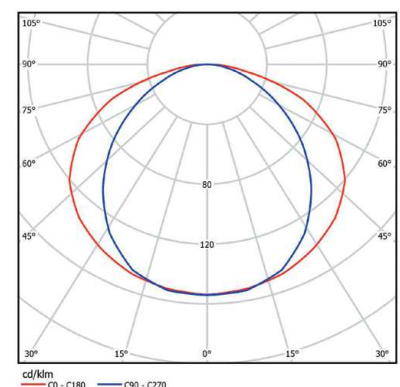
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Jetta 236 C49	2x36 (2G11)	595x595x100	4	84
Jetta 240 B44	2x40 (2G11)	595x595x100	4	84
Jetta 255 B40	2x55 (2G11)	595x595x100	4	118

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Jetta R LED4x1050 B336 T840	595x595x100	4200	4000	>80	41	4
Jetta R LED4x1400 B337 T840	595x595x100	5600	4000	>80	55	4
Jetta R LED4x2000 B338 T840	595x595x100	8000	4000	>80	79	4

Options available on request:

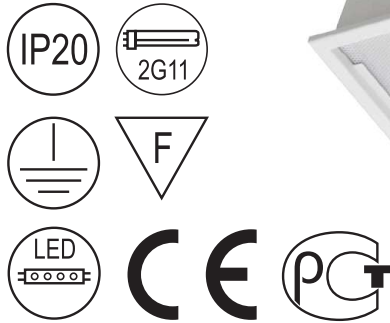
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- WIE – 3- poles connector Wieland or similar connectors
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

JETTA 255 B40



JETTA

Recessed Indirect Luminaire



Type: Recessed Indirect LED or CFL luminaire 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 15–24 mm exposed T-Bar ceilings.

Application: Office buildings, shops and other commercial environments.

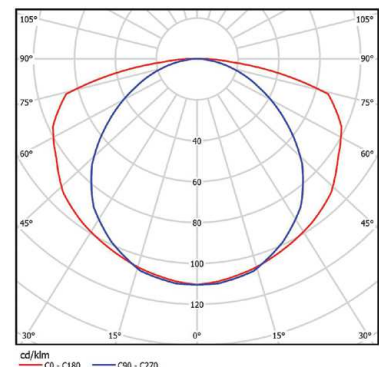
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Jetta 236 C48	2x36 (2G11)	595x595x130	4	84
Jetta 240 C50	2x40 (2G11)	595x595x130	4	84
Jetta 255 C51	2x55 (2G11)	595x595x130	4	118

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Jetta R LED4x1050 B339 T840	595x595x130	4200	4000	>80	41	4
Jetta R LED4x1400 B340 T840	595x595x130	5600	4000	>80	55	4
Jetta R LED4x2000 B341 T840	595x595x130	8000	4000	>80	79	4

Options available on request:

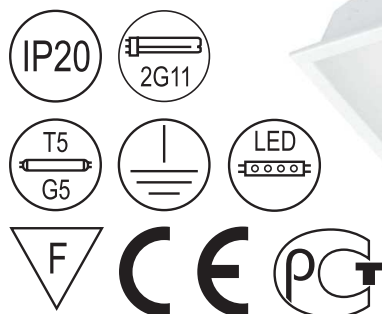
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- WIE – 3- poles connector Wieland or similar connectors (subject to minimum order)
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

JETTA 255 C51



JETTA

Recessed Luminaire with Central Louver



Type: Recessed LED, T5 or CFL luminaire with direct/indirect lighting possibilities.

Specification: A white 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.

Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Jetta 414 D62	4x14 (G5)	595x595x100	5,1	62
Jetta 424 G45	4x24 (G5)	595x595x100	5,2	98
Jetta 255 O26	2x55 (2G11)	595x595x100	4	118
Jetta 214214 G46*	2x14(G5)+2x14(G5)	595x595x100	5,3	62
Jetta 214224 G47*	2x14(G5)+2x24(G5)	595x595x100	5,3	80
Jetta 224224 G48*	2x24(G5)+2x24(G5)	595x595x100	5,3	98
Jetta 214240 G49*	2x14(G5)+2x40(2G11)	595x595x100	5,3	118
Jetta 224240 G50*	2x24(G5)+2x40(2G11)	595x595x100	5,3	136
Jetta 214255 G51*	2x14(G5)+2x55(2G11)	595x595x100	5,3	144
Jetta 314 H54	3x14 (G5)	595x595x100	5,1	46
Jetta 324 H91	3x24 (G5)	595x595x100	5,2	73
Jetta 114214 H55*	1x14(G5)+2x14(G5)	595x595x100	5,3	46
Jetta 114224 H56*	1x14(G5)+2x24(G5)	595x595x100	5,3	61
Jetta 124224 H57*	1x24(G5)+2x24(G5)	595x595x100	5,3	74
Jetta 114240 H58*	1x14(G5)+2x40(2G11)	595x595x100	5,3	102
Jetta 124240 H59*	1x24(G5)+2x40(2G11)	595x595x100	5,3	112
Jetta 114255 H60*	1x14(G5)+2x55(2G11)	595x595x100	5,3	129

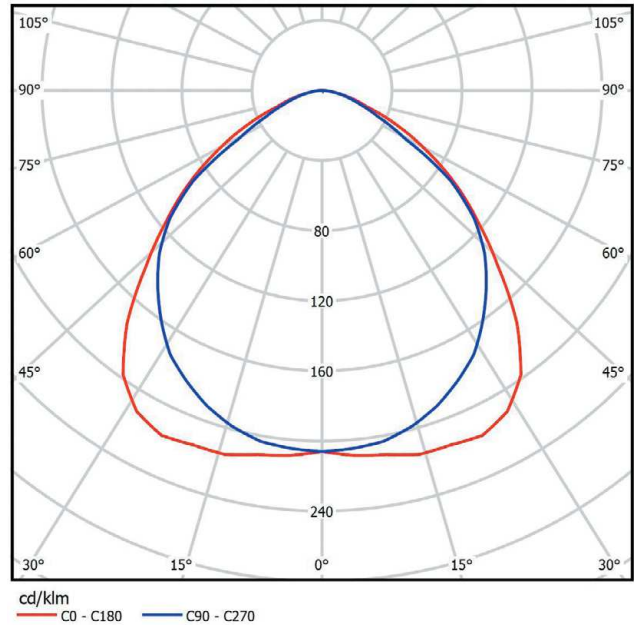
* – lighting fixture supplied with two electronic ballasts and terminal boards to play three different scenes (direct light, indirect light or both direct and indirect light). The two-phase switcher is needed.

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Jetta R LED4x1050 B342 T840	595x595x100	4200	4000	>80	41	4
Jetta R LED4x1400 B343 T840	595x595x100	5600	4000	>80	55	4
Jetta R LED4x2000 B344 T840	595x595x100	8000	4000	>80	79	4

Options available on request:

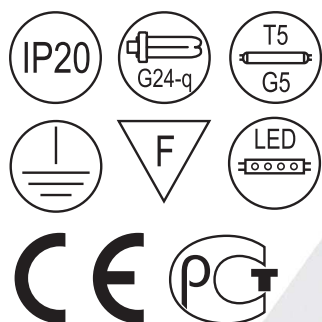
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- WIE – 3- poles connector Wieland or similar connectors (subject to minimum order)
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

JETTA 414 D62

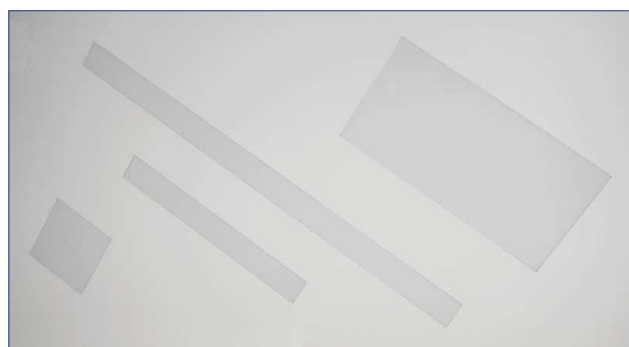


BALI T5&LED

Recessed Frame-free Luminaire with Opal Diffuser



- Type:** Frame free recessed T5 or LED 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.



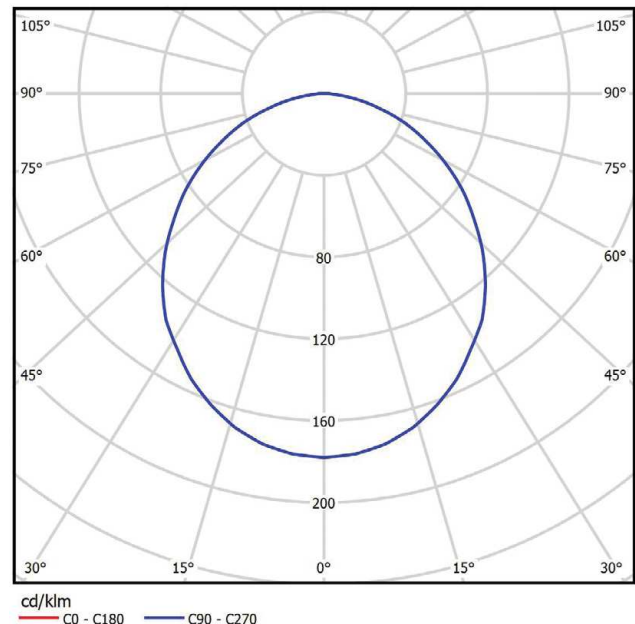
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Bali 213 M04 HF	2×13 (G24q-1)	205×215×80	1,8	28
Bali 218 M05 HF	2×18 (G24q-2)	205×215×80	1,8	40
Bali 226 M06 HF	2×26 (G24q-3)	205×215×80	1,8	55
Bali 114 M07	1×14 (G5)	90×580×80	1,8	16
Bali 124 M08	1×24 (G5)	90×580×80	1,8	25
Bali 121 M09	1×21 (G5)	90×880×80	2,1	23
Bali 128 M10	1×28 (G5)	90×1180×80	2,4	30,5
Bali 135 M11	1×35 (G5)	90×1480×80	2,8	38
Bali 139 M12	1×39 (G5)	90×880×80	2,4	42
Bali 149 M13	1×49 (G5)	90×1480×80	2,8	53
Bali 154 M14	1×54 (G5)	90×1180×80	2,4	58
Bali 180 M15	1×80 (G5)	90×1480×80	2,8	85
Bali 314 M16	3×14 (G5)	300×580×80	3,8	47
Bali 324 M17	3×24 (G5)	300×580×80	3,9	74
Bali 414 M18	4×14 (G5)	300×580×80	3,8	62
Bali 424 M19	4×24 (G5)	300×580×80	3,9	98

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Bali R LED1x1050 B123 T840	205x215x80	1050	4000	>80	11	1,8
Bali R LED1x1300 B345 T840	205x215x80	1300	4000	>80	13	1,8
Bali R LED1x1800 B346 T840	205x215x80	1800	4000	>80	18	1,8
Bali R LED1x2400 B347 T840	205x215x80	2400	4000	>80	24	1,8
Bali R LED1x3250 B348 T840	205x215x80	3250	4000	>80	32	1,8
Bali R LED1x1050 B124 T840	90x580x80	1050	4000	>80	11	1,8
Bali R LED1x1400 B349 T840	90x580x80	1400	4000	>80	14	1,8
Bali R LED1x2000 B350 T840	90x580x80	2000	4000	>80	20	1,8
Bali R LED1x1700 B125 T840	90x880x80	1700	4000	>80	17	2,1
Bali R LED1x2300 B351 T840	90x880x80	2300	4000	>80	23	2,1
Bali R LED1x3100 B352 T840	90x880x80	3100	4000	>80	31	2,1
Bali R LED1x2350 B126 T840	90x1180x80	2350	4000	>80	23	2,4
Bali R LED1x3150 B353 T840	90x1180x80	3150	4000	>80	31	2,4
Bali R LED1x4300 B354 T840	90x1180x80	4300	4000	>80	42	2,4
Bali R LED1x2950 B127 T840	90x1480x80	2950	4000	>80	29	2,8
Bali R LED1x4000 B355 T840	90x1480x80	4000	4000	>80	40	2,8
Bali R LED1x5400 B356 T840	90x1480x80	5400	4000	>80	53	2,8
Bali R LED3x1050 B128 T840	300x580x80	3150	4000	>80	31	3,8
Bali R LED3x1400 B357 T840	300x580x80	4200	4000	>80	41	3,8
Bali R LED3x2000 B358 T840	300x580x80	6000	4000	>80	59	3,8
Bali R LED4x1050 B129 T840	300x580x80	4200	4000	>80	41	3,8
Bali R LED4x1400 B359 T840	300x580x80	5600	4000	>80	55	3,8
Bali R LED4x2000 B360 T840	300x580x80	8000	4000	>80	79	3,8

Options available on request:

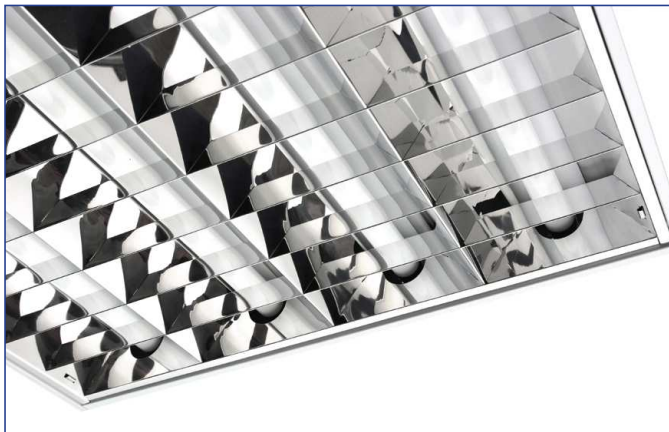
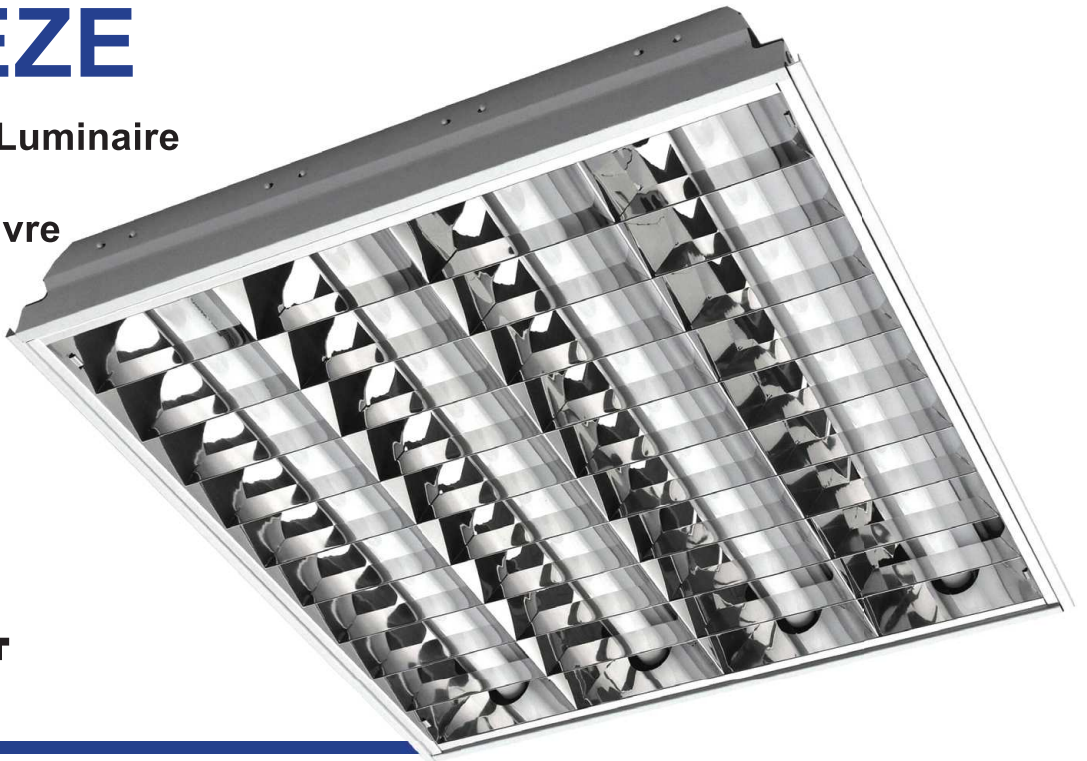
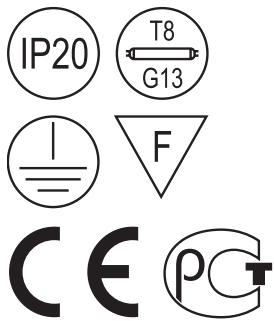
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- WIE – 3- poles connector Wieland or similar connectors
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

BALI 128 M10



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: 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. Number of cross blades is optional from 5 up 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 15–24 mm exposed T-Bar ceilings 600×600 mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.

Application: Office buildings, shops and other commercial environments.



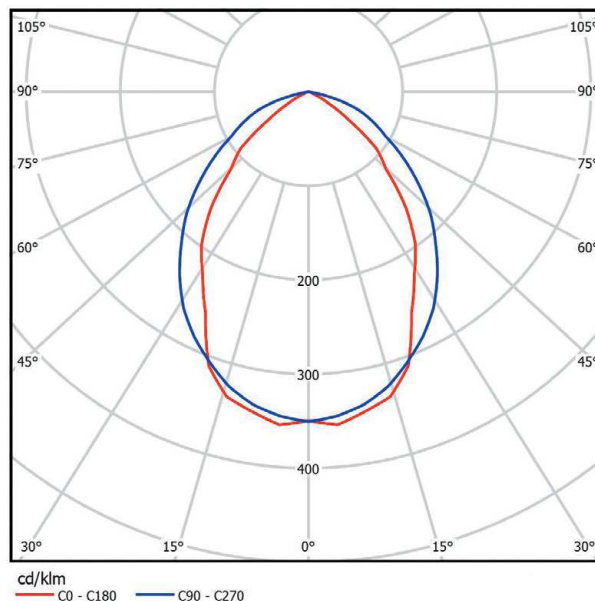
To fit 625×625 mm recessed ceiling (Germany market) could be designed. For more information, see Option list.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 318 F21	3×18 (G13)	595x595x72	3,6	63
Breeze 318 F21 7CR	3×18 (G13)	595x595x72	3,6	63
Breeze 318 F21 9CR	3×18 (G13)	595x595x72	3,6	63
Breeze 418 A04	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 7CR	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 9CR	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 11CR	4×18 (G13)	595x595x72	3,7	63
Breeze 218 C44	2×18 (G13)	295x595x85	2,4	42
Breeze 236 B35	2×36 (G13)	295x1195x85	3,9	84
Breeze 336 L69	3×36 (G13)	595x1195x85	6,6	126
Breeze 436 C45	4×36 (G13)	595x1195x85	7,2	168

Options available on request:

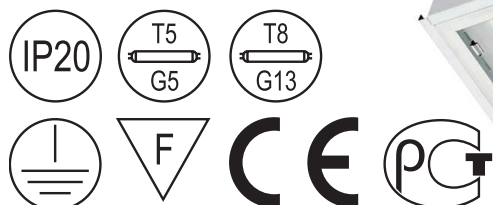
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- MBL – Matt 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 (2/4×36 W)
- WIE – 3-poles connector (subject to minimum order)
- NCP – Low Power Factor
- W625 – Designed for the German market to fit 625×625 suspended ceiling and plasterboard

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 15–24 mm exposed T-Bar ceilings 600×600 mm. 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 418 I92	4×18 (G13)	595×595×72	3,7	84
Breeze 414 M70	4×14 (G5)	595×595×72	2,9	62
Breeze 424 M71	4×24 (G5)	595×595×72	2,9	98

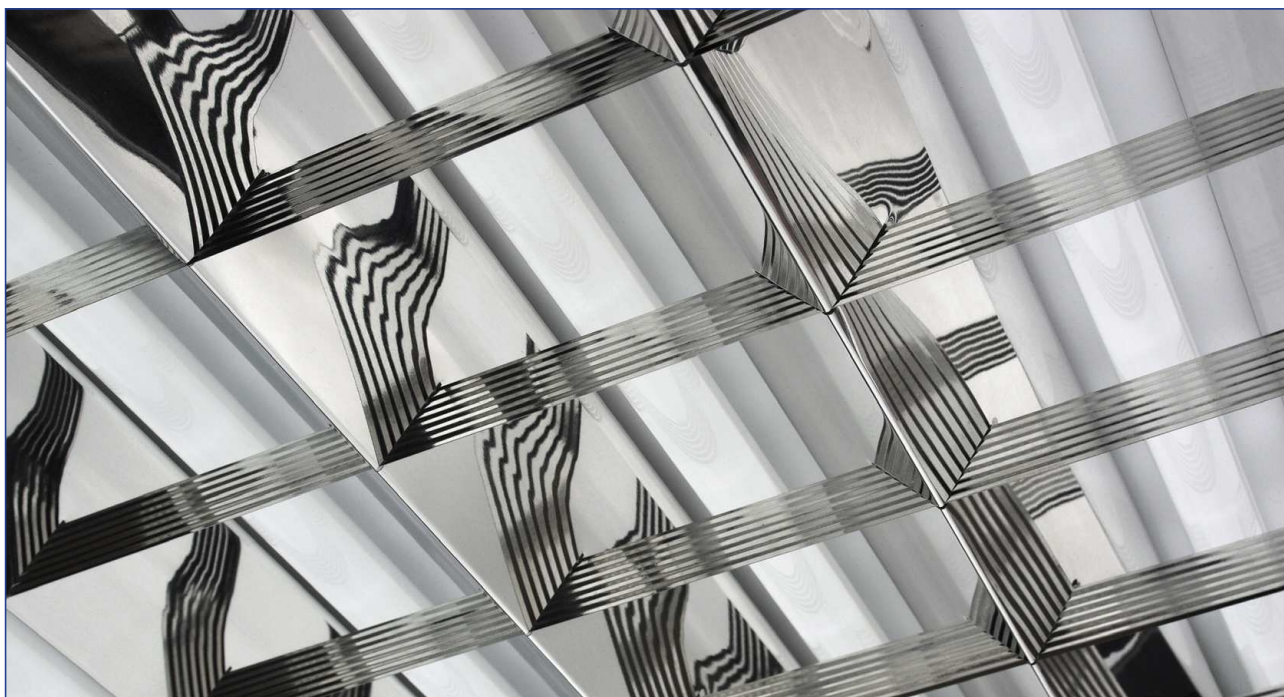
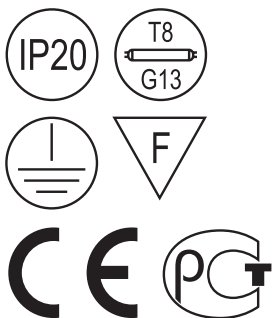
2 or 3 Tube (2/3×18/36/14/28/54W) versions are available on Request.

Options available on request:

- | | | | |
|-----------|---|------|---|
| HF | – High Frequency control gear | 5TB | – 5 way terminal block for loop feed and ease of wiring |
| DIM | – Dimmable ballast 1-10V | MAT | – Matt reflector (subject to minimum order) |
| SWITCHDIM | – Switch DIM ballast | WIE | – 3-poles connector (subject to minimum order) |
| DALI | – DALI ballast | NCP | – Low Power Factor |
| EMG | – Emergency version 1 hour | W625 | – Designed for the German market to fit 625×625 suspended ceiling or plasterboard |
| EM2 | – Emergency version 2 hours | | |
| EM3 | – Emergency version 3 hours | | |
| 4TB | – 4 way terminal block for loop feed and ease of wiring | | |

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:** 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.
 Number of cross blades is optional from 5 up 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 15–24 mm exposed T-Bar ceilings 600×600 mm. When the luminaire is fitted into a plasterboard ceiling, it is recommended to use support brackets.
-
- Application:** Office buildings, shops and other commercial environments.

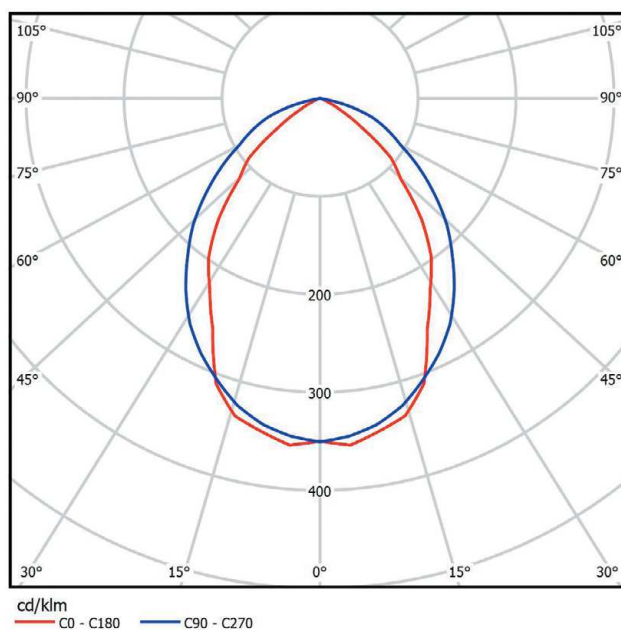
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 418 A04 RIB	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 7CR RIB	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 9CR RIB	4×18 (G13)	595x595x72	3,7	84
Breeze 418 A04 11CR RIB	4×18 (G13)	595x595x72	3,7	84
Breeze 218 C44 RIB	2×18 (G13)	295x595x85	2,4	42
Breeze 236 B35 RIB	2×36 (G13)	295x1195x85	3,9	84
Breeze 436 C45 RIB	4×36 (G13)	595x1195x85	7,2	168

3 Tube (3×18/14W) versions are available on request.

Options available on request:

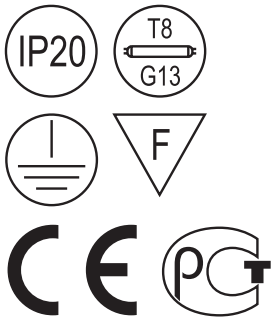
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- 11CR – Louvre with 11 cross blades
- WIE – 3- poles connector (subject to minimum order)
- NCP – Low Power Factor
- W625 – Designed for the German market to fit 625×625 suspended ceiling and plasterboard

BREEZE 418 A04 RIB



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: 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 up to 11 for better glare protection. Fully enclosed white painted steel body. Wiring is concealed and not visible from ground level. Luminaire is plastic-wrapped and packaged in twin boxes.

Installation: Fits 15–24 mm exposed T-Bar ceilings 600×600 mm.

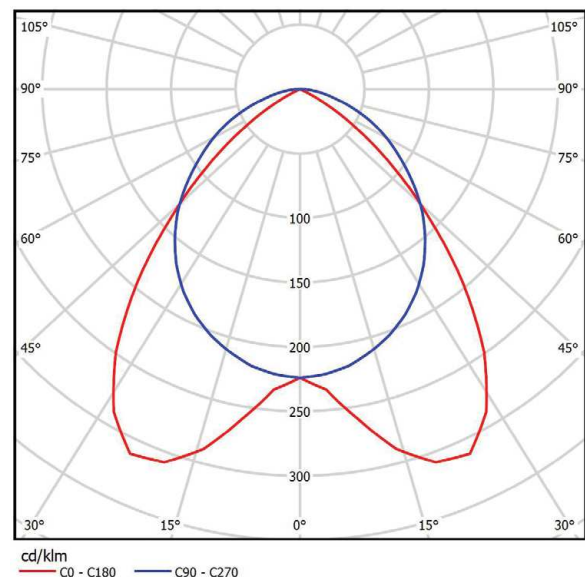
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Passat 218 D75	2×18 (G13)	295x595x85	2,4	42
Passat 418 A07 RGD	4×18 (G13)	595x595x72	3,7	84
Passat 236 D76	2×36 (G13)	295x1195x85	3,9	84
Passat 436 D77	4×36 (G13)	595x1195x85	7,2	168

Options available on request:

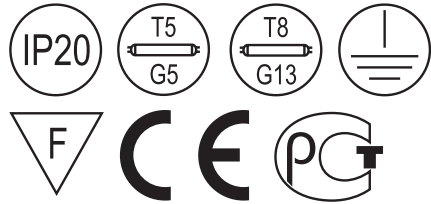
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- 11CR – Louvre with 11 cross blades
- WIE – 3-poles connector
- NCP – Low Power Factor

PASSAT 218 D75 HF



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 15–24 mm exposed T-Bar ceilings 600×600 mm.

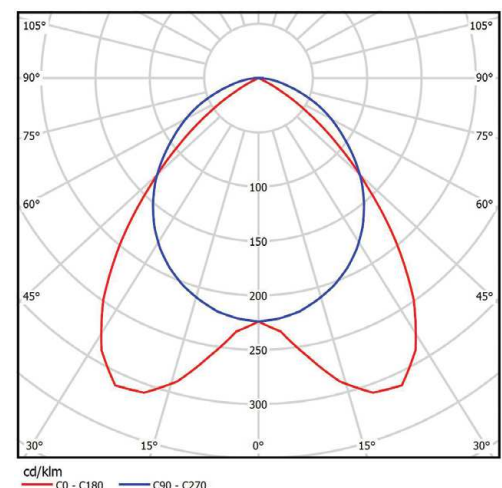
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Mistral 418 B20	4×18 (G13)	595×595×72	2,6	84
Mistral 418 A13	4×18 (G13)	595×595×72	3,7	84
Mistral 414 O96	4×14 (G5)	595×595×72	2,9	62
Monsoon 418 B21	4×18 (G13)	595×595×72	2,6	84

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- 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

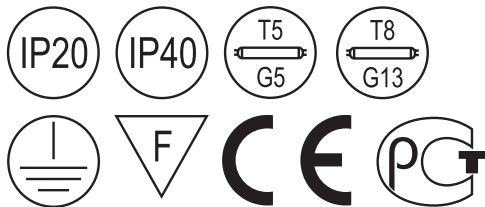
MISTRAL 418 A13 HF





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 15–24 mm exposed T-Bar ceilings 600×600 mm.
- Application:** Office buildings, shops and other commercial environments.

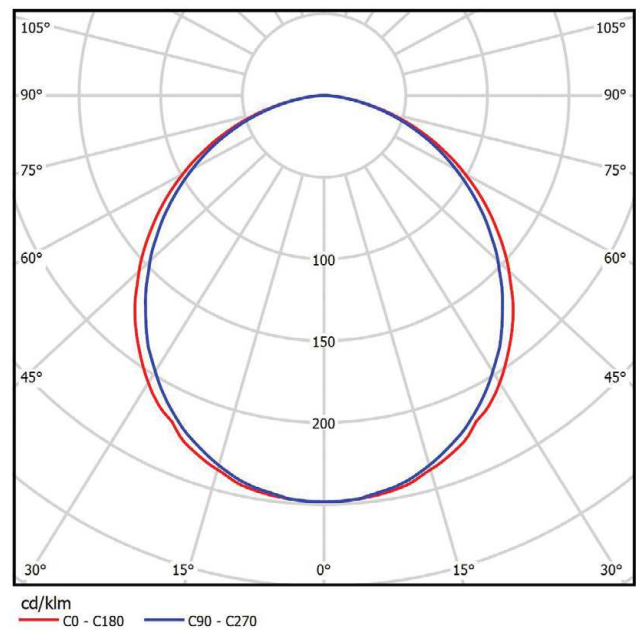
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Levanto 218 H61	IP20	2×18 (G13)	295×595×85	2,4	42
Levanto 318 L51	IP20	3×18 (G13)	595×595×72	3,7	63
Levanto 318 L52	IP40, framed	3×18 (G13)	595×595×72	3,7	63
Levanto 418 B07	IP20	4×18 (G13)	595×595×72	3,7	84
Levanto 418 F24	IP40, framed	4×18 (G13)	595×595×72	3,7	84
Levanto 236 H62	IP20	2×36 (G13)	295×1195×85	3,9	84
Levanto 336 L53	IP20	3×36 (G13)	595×1195×85	7,2	126
Levanto 436 H63	IP20	4×36 (G13)	595×1195×85	7,2	168

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Levanto 214 H67	IP20	2×14 (G5)	295×595×85	2,2	31
Levanto 224 H68	IP20	2×24 (G5)	295×595×85	2,2	49
Levanto 314 L54	IP20	3×14 (G5)	595×595×72	2,9	47
Levanto 324 L55	IP20	3×24 (G5)	595×595×72	2,9	74
Levanto 314 L56	IP40, framed	3×14 (G5)	595×595×72	2,9	47
Levanto 324 L57	IP40, framed	3×24 (G5)	595×595×72	2,9	74
Levanto 414 H69	IP20	4×14 (G5)	595×595×72	2,9	62
Levanto 424 H70	IP20	4×24 (G5)	595×595×72	2,9	98
Levanto 414 I34	IP40, framed	4×14 (G5)	595×595×72	2,9	62
Levanto 424 I35	IP40, framed	4×24 (G5)	595×595×72	2,9	98
Levanto 228 H71	IP20	2×28 (G5)	295×1195×85	3,2	60
Levanto 254 H72	IP20	2×54 (G5)	295×1195×85	3,2	115
Levanto 328 L58	IP20	3×28 (G5)	595×1195×85	5,7	90,5
Levanto 354 L59	IP20	3×54 (G5)	595×1195×85	5,7	173
Levanto 428 H73	IP20	4×28 (G5)	595×1195×85	5,7	120
Levanto 454 H74	IP20	4×54 (G5)	595×1195×85	5,7	230

Options available on request:

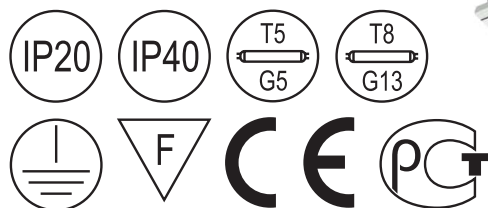
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- WIE – 3-poles connector (subject to minimum order)
- NCP – Low Power Factor
- L80 – Opal sheet with 80% light transmission

LEVANTO 418 B07 HF



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 15–24 mm exposed T-Bar ceilings 600×600 mm

Application: Office buildings, shops and other commercial environments.

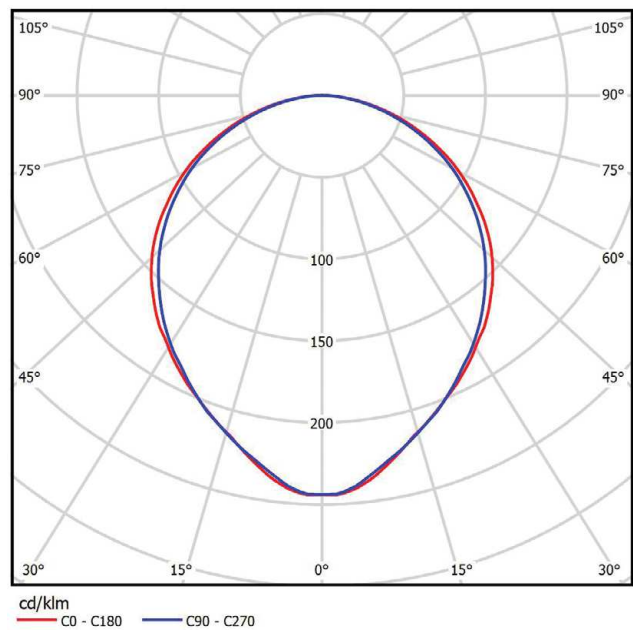
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Marenco 218 I33	IP20	2×18 (G13)	295×595×85	2,4	42
Marenco 318 L60	IP20	3×18 (G13)	595×595×72	3,7	63
Marenco 318 L61	IP40, framed	3×18 (G13)	595×595×72	3,7	63
Marenco 418 D09	IP20	4×18 (G13)	595×595×72	3,7	84
Marenco 418 F47	IP40, framed	4×18 (G13)	595×595×72	3,7	84
Marenco 236 K25	IP20	2×36 (G13)	295×1195×85	3,9	84
Marenco 336 L62	IP20	3×36 (G13)	595×1195×85	7,2	126
Marenco 436 K26	IP20	4×36 (G13)	595×1195×85	7,2	168

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Marengo 214 I36	IP20	2×14 (G5)	295×595×85	2,2	31
Marengo 224 I37	IP20	2×24 (G5)	295×595×85	2,2	49
Marengo 314 L63	IP20	3×14 (G5)	595×595×72	2,9	47
Marengo 324 L64	IP20	3×24 (G5)	595×595×72	2,9	74
Marengo 314 L65	IP40, framed	3×14 (G5)	595×595×72	2,9	47
Marengo 324 L66	IP40, framed	3×24 (G5)	595×595×72	2,9	74
Marengo 414 I38	IP20	4×14 (G5)	595×595×72	2,9	62
Marengo 424 I39	IP20	4×24 (G5)	595×595×72	2,9	98
Marengo 414 I40	IP40, framed	4×14 (G5)	595×595×72	2,9	62
Marengo 424 I41	IP40, framed	4×24 (G5)	595×595×72	2,9	98
Marengo 228 J59	IP20	2×28 (G5)	295×1195×85	3,2	60
Marengo 254 J60	IP20	2×54 (G5)	295×1195×85	3,2	115
Marengo 328 L67	IP20	3×28 (G5)	595×1195×85	5,7	90,5
Marengo 354 L68	IP20	3×54 (G5)	595×1195×85	5,7	173
Marengo 428 J61	IP20	4×28 (G5)	595×1195×85	5,7	120
Marengo 454 J62	IP20	4×54 (G5)	595×1195×85	5,7	230

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- 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

MARENGO 418 F47 HF





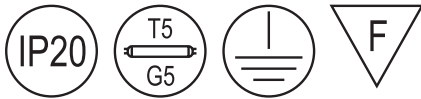
NORTHCLIFFE
MAKING LIFE BRIGHTER

SURFACE AND SUSPENDED LUMINAIRES

www.northcliffe.org

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 matt 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 matt aluminum body



Standard version manufactured from glossy aluminum louver and white steel body



DB- version with cross-blades made from one piece (straight). More information see in option list.

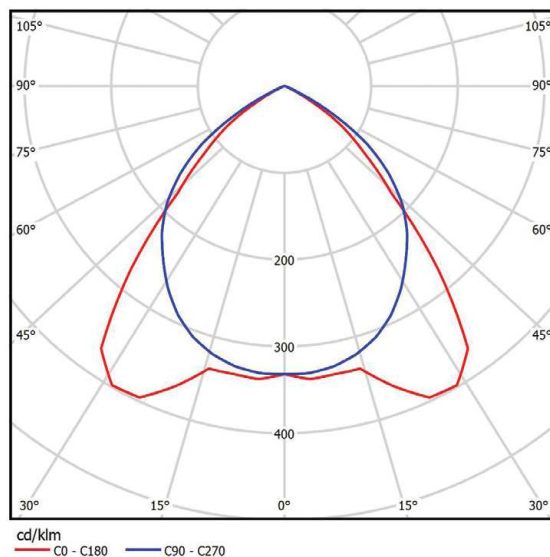
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Polaris 114 I23	1×14 (G5)	143×595×57	1	15
Polaris 124 I24	1×24 (G5)	143×595×57	1	25
Polaris 214 F22	2×14 (G5)	143×595×57	1	31
Polaris 224 F23	2×24 (G5)	143×595×57	1	49
Polaris 214 B22	2×14 (G5)	295×595×57	1,2	31
Polaris 224 D79	2×24 (G5)	295×595×57	1,2	49
Polaris 414 F43	4×14 (G5)	295×595×57	1,3	31
Polaris 424 F44	4×24 (G5)	295×595×57	1,3	49
Polaris 414 A19	4×14 (G5)	595×595×57	1,9	62
Polaris 424 D12	4×24 (G5)	595×595×57	2,1	98

3×14/24 W version with white inserts available on request.

Options available on request:

- DIM – Dimmable ballast 1-10V
- 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
- Deluxe – MIRO® aluminum louver and matt aluminum body
- MAT – Matt reflector (subject to minimum order)
- MRO – Mirror reflector Deluxe
- MTO – Matt reflector Deluxe (subject to minimum order)
- WHT – White perforated inserts
- DB – Version with straight cross-blades

POLARIS 414 A19



POLARIS LINEAR NARROW & WIDE

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



Polaris 228 A22



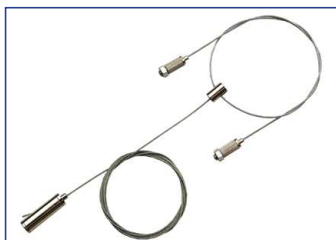
LG3 – Luminaire fit LG3 requirements (with 30% light distribution to the ceiling and 70% to the floor). Available on request.

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 matt 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.

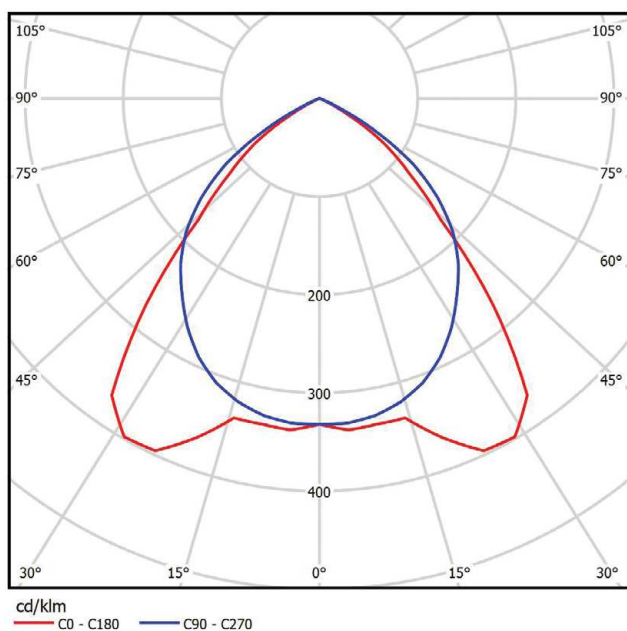
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Polaris 128 A20	1×28 (G5)	143×1210×57	1,1	30,5
Polaris 154 A24	1×54 (G5)	143×1210×57	1,1	58
Polaris 228 A21	2×28 (G5)	143×1210×57	1,2	60
Polaris 254 A25	2×54 (G5)	143×1210×57	1,2	116
Polaris 228 A22	2×28 (G5)	295×1210×57	1,9	60
Polaris 254 A26	2×54 (G5)	295×1210×57	1,9	116
Polaris 428 A23	4×28 (G5)	295×1210×57	2,1	120
Polaris 128 A20 Deluxe	1×28 (G5)	143×1210×57	1,1	30,5
Polaris 154 A24 Deluxe	1×54 (G5)	143×1210×57	1,1	58
Polaris 228 A21 Deluxe	2×28 (G5)	143×1210×57	1,2	60
Polaris 254 A25 Deluxe	2×54 (G5)	143×1210×57	1,2	116
Polaris 228 A22 Deluxe	2×28 (G5)	295×1210×57	1,9	60
Polaris 254 A26 Deluxe	2×54 (G5)	295×1210×57	1,9	116
Polaris 428 A23 Deluxe	4×28 (G5)	295×1210×57	2,1	120
Polaris 454 A27 Deluxe	4×54 (G5)	295×1210×57	2,1	232

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

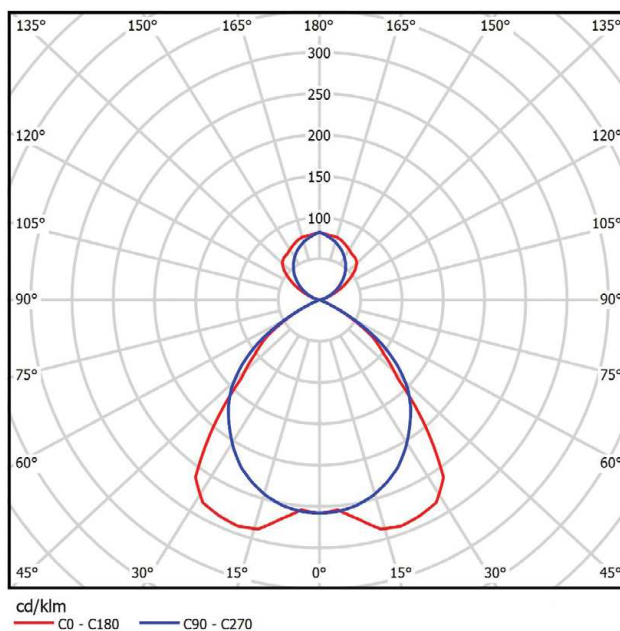
Options available on request:

- | | | | |
|-----------|--|------|--|
| DIM | - Dimmable ballast 1-10V | MRO | - Mirror reflector Deluxe |
| SWITCHDIM | - Switch DIM ballast | MTO | - Matt reflector Deluxe (subject to minimum order) |
| DALI | - DALI ballast | SMS | - Glossy aluminum body |
| MAT | - Matt reflector (subject to minimum order) | SUS2 | - Suspension wires set (2 pcs) |
| LG3 | - LG3 option | CAPW | - White cap with spiral cable 3×1 mm ² |
| Deluxe | - MIRO® aluminum louvre and matt aluminum body | DB | - Version with stright cross-blades |

POLARIS 228 A21

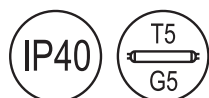


POLARIS 228 A21 DELUXE LG3



LEVANTO & MARENCO

**T5 Surface
Luminaire with framed Opal
or Prismatic Diffuser**



Marengo 414 S59

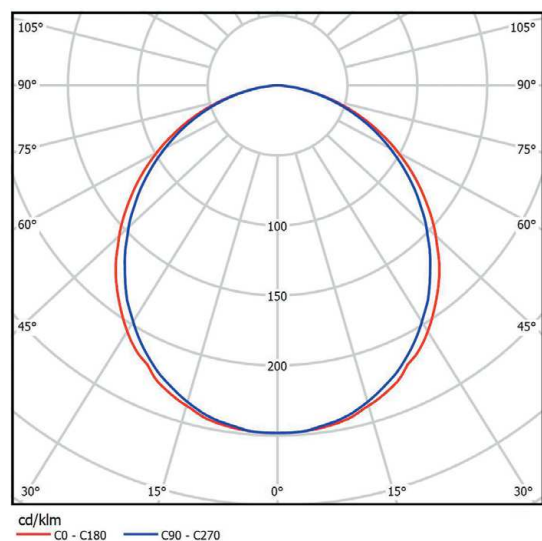
Type:	Traditional surface T5 luminaire with opal or prismatic diffuser for most applications.
Specification:	UV stable opal (Levanto) or prismatic (Marengo) diffuser fitted to the body with a steel frame. Fully enclosed white steel body. Luminaire is plastic-wrapped and packaged in twin boxes.
Installation: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

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Marengo 214 S55	IP40, framed	2x14 (G5)	295x595x57	1,2	31
Marengo 224 S56	IP40, framed	2x24 (G5)	295x595x57	1,2	49
Marengo 314 S57	IP40, framed	3x14 (G5)	595x595x57	2	47
Marengo 324 S58	IP40, framed	3x24 (G5)	595x595x57	2	74
Marengo 414 S59	IP40, framed	4x14 (G5)	595x595x57	2	62
Marengo 424 S60	IP40, framed	4x24 (G5)	595x595x57	2	98
Marengo 128 S61	IP40, framed	1x28 (G5)	143x1210x57	1,6	30,5
Marengo 154 S62	IP40, framed	1x54 (G5)	143x1210x57	1,6	58
Marengo 228 S63	IP40, framed	2x28 (G5)	143x1210x57	1,6	60
Marengo 254 S64	IP40, framed	2x54 (G5)	143x1210x57	1,6	115
Marengo 228 S65	IP40, framed	2x28 (G5)	295x1210x57	2,6	60
Marengo 254 S66	IP40, framed	2x54 (G5)	295x1210x57	2,6	115
Marengo 328 S67	IP40, framed	3x28 (G5)	295x1210x57	3	90,5
Marengo 354 S68	IP40, framed	3x54 (G5)	295x1210x57	3	173
Levanto 214 S69	IP40, framed	2x14 (G5)	295x595x57	1,2	31
Levanto 224 S70	IP40, framed	2x24 (G5)	295x595x57	1,2	49
Levanto 314 S71	IP40, framed	3x14 (G5)	595x595x57	2	47
Levanto 324 S72	IP40, framed	3x24 (G5)	595x595x57	2	74
Levanto 414 S73	IP40, framed	4x14 (G5)	595x595x57	2	62
Levanto 424 S74	IP40, framed	4x24 (G5)	595x595x57	2	98
Levanto 128 S75	IP40, framed	1x28 (G5)	143x1210x57	1,6	30,5
Levanto 154 S76	IP40, framed	1x54 (G5)	143x1210x57	1,6	58
Levanto 228 S77	IP40, framed	2x28 (G5)	143x1210x57	1,6	60
Levanto 254 S78	IP40, framed	2x54 (G5)	143x1210x57	1,6	115
Levanto 228 S79	IP40, framed	2x28 (G5)	295x1210x57	2,6	60
Levanto 254 S80	IP40, framed	2x54 (G5)	295x1210x57	2,6	115
Levanto 328 S81	IP40, framed	3x28 (G5)	295x1210x57	3	90,5
Levanto 354 S82	IP40, framed	3x54 (G5)	295x1210x57	3	173

Options available on request:

- DIM – Dimmable ballast 1-10V
- 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)
- MPRZ – Mikroprismatic diffuser
- L80 – Opal sheet with 80% light transmission

LEVANTO 228 S79



LEVANTO & MARENCO LED

Surface Luminaire with Opal or Pizmatic Diffuser



Type: Traditional surface T5 luminaire with opal or prismatic diffuser for most applications.

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

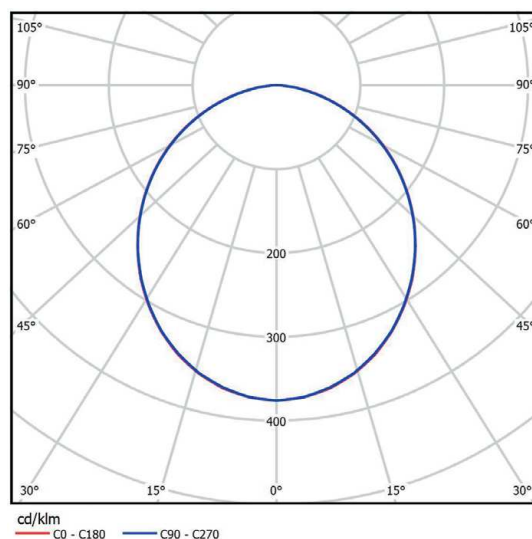
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Levanto S LED1x1050 B361 T840	IP40, framed	295x595x57	1050	4000	>80	11	1,4
Levanto S LED1x1400 B362 T840	IP40, framed	295x595x57	1400	4000	>80	14	1,4
Levanto S LED1x2000 B363 T840	IP40, framed	295x595x57	2000	4000	>80	20	1,4
Levanto S LED2x1050 B364 T840	IP40, framed	295x595x57	2100	4000	>80	21	1,4
Levanto S LED2x1400 B365 T840	IP40, framed	295x595x57	2800	4000	>80	28	1,4
Levanto S LED2x2000 B366 T840	IP40, framed	295x595x57	4000	4000	>80	40	1,4
Levanto S LED3x1050 B367 T840	IP40, framed	595x595x57	3150	4000	>80	31	2,2
Levanto S LED3x1400 B368 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Levanto S LED3x2000 B369 T840	IP40, framed	595x595x57	6000	4000	>80	59	2,2
Levanto S LED4x1050 B370 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Levanto S LED4x1400 B371 T840	IP40, framed	595x595x57	5600	4000	>80	55	2,2
Levanto S LED4x2000 B372 T840	IP40, framed	595x595x57	8000	4000	>80	79	2,2
Levanto S LED1x2350 B373 T840	IP40, framed	143x1210x57	2350	4000	>80	23	1,8
Levanto S LED1x3150 B374 T840	IP40, framed	143x1210x57	3150	4000	>80	31	1,8
Levanto S LED1x4300 B375 T840	IP40, framed	143x1210x57	4300	4000	>80	42	1,8
Levanto S LED2x2350 B376 T840	IP40, framed	143x1210x57	4700	4000	>80	46	2,8
Levanto S LED2x3150 B377 T840	IP40, framed	143x1210x57	6300	4000	>80	62	2,8
Levanto S LED2x4300 B378 T840	IP40, framed	143x1210x57	8600	4000	>80	84	2,8

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Levanto S LED2x2350 B379 T840	IP40, framed	295x1210x57	4700	4000	>80	46	2,8
Levanto S LED2x3150 B380 T840	IP40, framed	295x1210x57	6300	4000	>80	62	2,8
Levanto S LED2x4300 B381 T840	IP40, framed	295x1210x57	8600	4000	>80	84	2,8
Levanto S LED3x2350 B382 T840	IP40, framed	295x1210x57	7050	4000	>80	69	3
Levanto S LED3x3150 B383 T840	IP40, framed	295x1210x57	9450	4000	>80	93	3
Levanto S LED3x4300 B384 T840	IP40, framed	295x1210x57	12900	4000	>80	126	3
Marengo S LED1x1050 B385 T840	IP40, framed	295x595x57	1050	4000	>80	11	1,4
Marengo S LED1x1400 B386 T840	IP40, framed	295x595x57	1400	4000	>80	14	1,4
Marengo S LED1x2000 B387 T840	IP40, framed	295x595x57	2000	4000	>80	20	1,4
Marengo S LED2x1050 B388 T840	IP40, framed	295x595x57	2100	4000	>80	21	1,4
Marengo S LED2x1400 B389 T840	IP40, framed	295x595x57	2800	4000	>80	28	1,4
Marengo S LED2x2000 B390 T840	IP40, framed	295x595x57	4000	4000	>80	40	1,4
Marengo S LED3x1050 B391 T840	IP40, framed	595x595x57	3150	4000	>80	31	2,2
Marengo S LED3x1400 B392 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Marengo S LED3x2000 B393 T840	IP40, framed	595x595x57	6000	4000	>80	59	2,2
Marengo S LED4x1050 B394 T840	IP40, framed	595x595x57	4200	4000	>80	41	2,2
Marengo S LED4x1400 B395 T840	IP40, framed	595x595x57	5600	4000	>80	55	2,2
Marengo S LED4x2000 B396 T840	IP40, framed	595x595x57	8000	4000	>80	79	2,2
Marengo S LED1x2350 B397 T840	IP40, framed	143x1210x57	2350	4000	>80	23	1,8
Marengo S LED1x3150 B398 T840	IP40, framed	143x1210x57	3150	4000	>80	31	1,8
Marengo S LED1x4300 B399 T840	IP40, framed	143x1210x57	4300	4000	>80	42	1,8
Marengo S LED2x2350 B400 T840	IP40, framed	143x1210x57	4700	4000	>80	46	2,8
Marengo S LED2x3150 B401 T840	IP40, framed	143x1210x57	6300	4000	>80	62	2,8
Marengo S LED2x4300 B402 T840	IP40, framed	143x1210x57	8600	4000	>80	84	2,8
Marengo S LED2x2350 B403 T840	IP40, framed	295x1210x57	4700	4000	>80	46	2,8
Marengo S LED2x3150 B404 T840	IP40, framed	295x1210x57	6300	4000	>80	62	2,8
Marengo S LED2x4300 B405 T840	IP40, framed	295x1210x57	8600	4000	>80	84	2,8
Marengo S LED3x2350 B406 T840	IP40, framed	295x1210x57	7050	4000	>80	69	3
Marengo S LED3x3150 B407 T840	IP40, framed	295x1210x57	9450	4000	>80	93	3
Marengo S LED3x4300 B408 T840	IP40, framed	295x1210x57	12900	4000	>80	126	3

Options available on request:

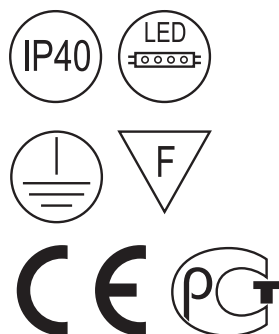
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- MPRZ – Mikroprismatic diffuser
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K
- L80 – Opal sheet with 80% light transmission

LEVANTO S LED4x1050 B370 T840



LEVANTO & MARENCO LED

Surface Luminaire with Opal or Prismatic Diffuser



LEVANTO S LED2X2350 B145
T840



LEVANTO S LED2X2350 B145 T840
SPORT

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

Specification: UV stable opal (Levanto) or prismatic (Marenco) 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.

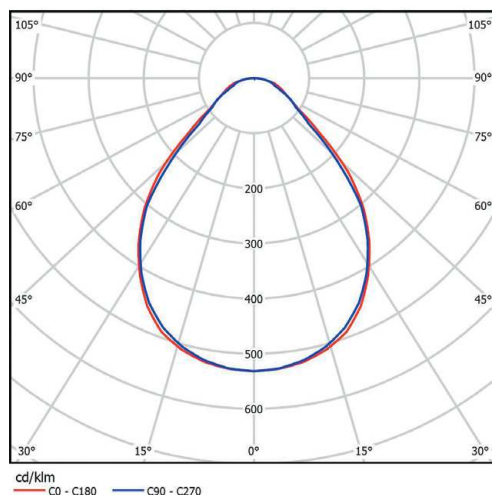
Options available on request:

DIM – Dimmable ballast 1-10V
SWITCHDIM – Switch DIM ballast
DALI – DALI ballasts
EMG – Emergency version 1 hour
EM2 – Emergency version 2 hours
EM3 – Emergency version 3 hours

MPRZ – Mikroprismatic diffuser
T830 – Color temperature 3000K
T840 – Color temperature 4000K
T857 – Color temperature 5700K
SPORT – White painted steel protective grid
L80 – Opal sheet with 80% light transmission

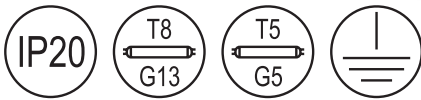
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Levanto S LED2x1050 B142 T840	360x635x66	2100	4000	>80	21	2
Levanto S LED2x1400 B574 T840	360x635x66	2800	4000	>80	28	2
Levanto S LED2x2000 B575 T840	360x635x66	4000	4000	>80	40	2
Levanto S LED3x1050 B143 T840	635x635x66	3150	4000	>80	31	3
Levanto S LED3x1400 B576 T840	635x635x66	4200	4000	>80	41	3
Levanto S LED3x2000 B577 T840	635x635x66	6000	4000	>80	59	3
Levanto S LED4x1050 B144 T840	635x635x66	4200	4000	>80	41	3
Levanto S LED4x1400 B578 T840	635x635x66	5600	4000	>80	55	3
Levanto S LED4x2000 B579 T840	635x635x66	8000	4000	>80	79	3
Levanto S LED1x2350 B580 T840	220x1245x66	2350	4000	>80	23	3
Levanto S LED1x3150 B581 T840	220x1245x66	3150	4000	>80	31	3
Levanto S LED1x4300 B582 T840	220x1245x66	4300	4000	>80	42	3
Levanto S LED2x2350 B145 T840	220x1245x66	4700	4000	>80	46	3
Levanto S LED2x3150 B583 T840	220x1245x66	6300	4000	>80	62	3
Levanto S LED2x4300 B584 T840	220x1245x66	8600	4000	>80	84	3
Levanto S LED2x2350 B146 T840	360x1245x66	4700	4000	>80	46	3,5
Levanto S LED2x3150 B585 T840	360x1245x66	6300	4000	>80	62	3,5
Levanto S LED2x4300 B586 T840	360x1245x66	8600	4000	>80	84	3,5
Levanto S LED3x2350 B147 T840	635x1245x66	7050	4000	>80	69	3,5
Levanto S LED3x3150 B587 T840	635x1245x66	9450	4000	>80	93	3,5
Levanto S LED3x4300 B588 T840	635x1245x66	12900	4000	>80	126	3,5
Marenco S LED2x1050 B148 T840	360x635x66	2100	4000	>80	21	2
Marenco S LED2x1400 B589 T840	360x635x66	2800	4000	>80	28	2
Marenco S LED2x2000 B590 T840	360x635x66	4000	4000	>80	40	2
Marenco S LED3x1050 B149 T840	635x635x66	3150	4000	>80	31	3
Marenco S LED3x1400 B591 T840	635x635x66	4200	4000	>80	41	3
Marenco S LED3x2000 B592 T840	635x635x66	6000	4000	>80	59	3
Marenco S LED4x1050 B150 T840	635x635x66	4200	4000	>80	41	3
Marenco S LED4x1400 B593 T840	635x635x66	5600	4000	>80	55	3
Marenco S LED4x2000 B594 T840	635x635x66	8000	4000	>80	79	3
Marenco S LED1x2350 B595 T840	220x1245x66	2350	4000	>80	23	3
Marenco S LED1x3150 B596 T840	220x1245x66	3150	4000	>80	31	3
Marenco S LED1x4300 B597 T840	220x1245x66	4300	4000	>80	42	3
Marenco S LED2x2350 B151 T840	220x1245x66	4700	4000	>80	46	3
Marenco S LED2x3150 B598 T840	220x1245x66	6300	4000	>80	62	3
Marenco S LED2x4300 B599 T840	220x1245x66	8600	4000	>80	84	3
Marenco S LED2x2350 B152 T840	360x1245x66	4700	4000	>80	46	3,5
Marenco S LED2x3150 B600 T840	360x1245x66	6300	4000	>80	62	3,5
Marenco S LED2x4300 B601 T840	360x1245x66	8600	4000	>80	84	3,5
Marenco S LED3x2350 B153 T840	635x1245x66	7050	4000	>80	69	3,5
Marenco S LED3x3150 B602 T840	635x1245x66	9450	4000	>80	93	3,5
Marenco S LED3x4300 B603 T840	635x1245x66	12900	4000	>80	126	3,5

MARENCO S LED4X1050 B150 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: Shiny parabolic louvre with cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement. Number of cross blades is optional from 5 up 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: Surface luminaire designed to be fixed to ceilings of any type.

Application: Office buildings, shops and other commercial environments.

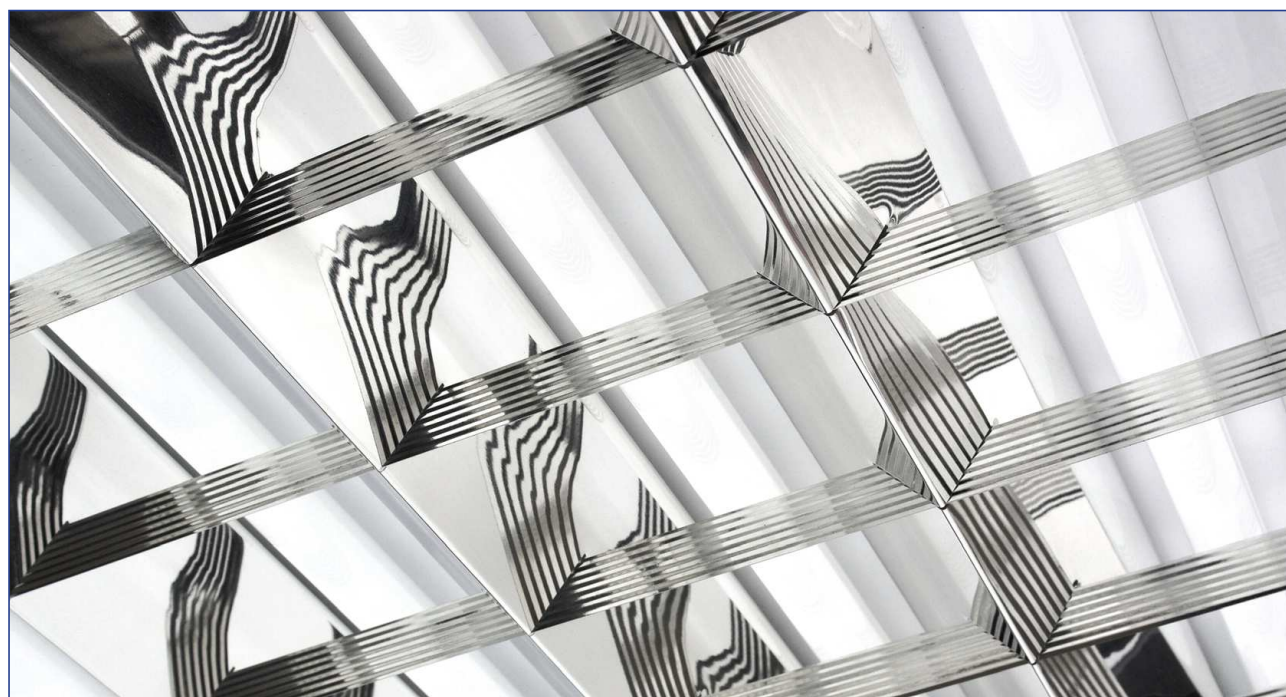
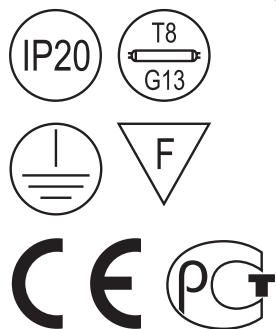
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 218 D13	2×18 (G13)	360×635×66	2,4	42
Breeze 318 M60	3×18 (G13)	635×635×66	3,6	68
Breeze 318 M60 9CR	3×18 (G13)	635×635×66	3,6	68
Breeze 418 B33	4×18 (G13)	635×635×66	3,6	84
Breeze 418 B33 7CR	4×18 (G13)	635×635×66	3,6	84
Breeze 418 B33 9CR	4×18 (G13)	635×635×66	3,6	84
Breeze 418 B33 11CR	4×18 (G13)	635×635×66	3,6	84
Breeze 136 I42	1×36 (G13)	220×1245×66	2,8	42
Breeze 236 I43	2×36 (G13)	220×1245×66	3,3	84
Breeze 158 P12	1×58 (G13)	220×1545×66	4	67
Breeze 236 D14	2×36 (G13)	360×1245×66	4	84
Breeze 258 O40	2×58 (G13)	360×1545×66	5,5	134
Breeze 436 G76	4×36 (G13)	635×1245×66	7	168
Breeze 214 F33	2×14 (G5)	360×635×66	2,2	31
Breeze 224 F34	2×24 (G5)	360×635×66	2,2	49
Breeze 314 J63	3×14 (G5)	635×635×66	2,8	46
Breeze 314 J63 9CR	3×14 (G5)	635×635×66	2,8	46
Breeze 324 J64	3×24 (G5)	635×635×66	2,9	73
Breeze 324 J64 9CR	3×24 (G5)	635×635×66	2,9	73
Breeze 414 F35	4×14 (G5)	635×635×66	2,9	62
Breeze 414 F35 9CR	4×14 (G5)	635×635×66	2,9	62
Breeze 424 F36	4×24 (G5)	635×635×66	3	98
Breeze 424 F36 9CR	4×24 (G5)	635×635×66	3	98
Breeze 128 J89	1×28 (G5)	220×1245×66	2,5	30
Breeze 154 J90	1×54 (G5)	220×1245×66	2,5	58
Breeze 228 J91	2×28 (G5)	220×1245×66	2,5	60
Breeze 254 J92	2×54 (G5)	220×1245×66	2,5	116
Breeze 135 P08	1×35 (G5)	220×1545×66	3	38
Breeze 149 P09	1×49 (G5)	220×1545×66	3	52
Breeze 235 P10	2×35 (G5)	220×1545×66	3	75
Breeze 249 P11	2×49 (G5)	220×1545×66	3	104
Breeze 228 F37	2×28 (G5)	360×1245×66	3,3	60
Breeze 254 F38	2×54 (G5)	360×1245×66	3,3	116
Breeze 235 O41	2×35 (G5)	360×1545×66	4	75
Breeze 249 O42	2×49 (G5)	360×1545×66	4	104
Breeze 280 O43	2×80 (G5)	360×1545×66	4,1	170
Breeze 428 F39	4×28 (G5)	360×1245×66	3,6	120
Breeze 454 F40	4×54 (G5)	360×1245×66	3,6	229
Breeze 328 O35	3×28 (G5)	635×1245×66	5,7	90
Breeze 354 O36	3×54 (G5)	635×1245×66	5,7	115
Breeze 428 O37	4×28 (G5)	635×1245×66	5,8	120
Breeze 454 O38	4×54 (G5)	635×1245×66	5,8	229
Breeze 628 P06	6×28 (G5)	635×1245×66	6	180
Breeze 654 P07	6×54 (G5)	635×1245×66	6	344

Options available on request:

HF	– High Frequency control gear	MAT	– Matt reflector
DIM	– Dimmable ballast 1-10V	MBL	– Matt cross blades
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	24CR	– Louvre with 24 cross blades (2×36/28/54 W)
EM3	– Emergency version 3 hours	NCP	– Low Power Factor
4TB	– 4 way terminal block for loop feed and ease of wiring	RIB	– Ribbed cross blades
5TB	– 5 way terminal block for loop feed and ease of wiring		

MONSOON

T8 Surface Luminaire
with Glossy Parabolic
Louvre and Ribbed
Cross Blades



Monsoon 418 B08 STD



Monsoon 418 B08 STD 9CR



Monsoon 236 D16

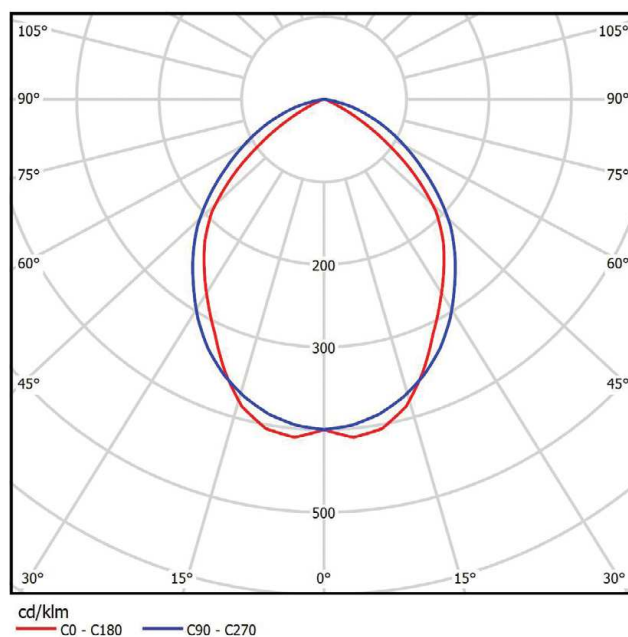
Type:	Traditional surface mounted T8 luminaire with a modern low profile body. Premium quality at competitive prices.
Specification:	Shiny parabolic louvre with ribbed cross blades. Louvre is fitted into the body with a locking safety clip for maximum stability. Nylon retainers enable louvre to swing down for maintenance and tube replacement. Number of cross blades is optional from 5 up 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:	Surface luminaire designed to be fixed to ceilings of any type.
Application:	Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Monsoon 218 D15	2×18 (G13)	360×635×66	2,4	42
Monsoon 418 B08 STD	4×18 (G13)	635×635×66	3,6	84
Monsoon 418 B08 STD 7CR	4×18 (G13)	635×635×66	3,6	84
Monsoon 418 B08 STD 9CR	4×18 (G13)	635×635×66	3,6	84
Monsoon 418 B08 STD 11CR	4×18 (G13)	635×635×66	3,6	84
Monsoon 236 D16	2×36 (G13)	360×1245×66	4	84
Monsoon 258 O44	2×58 (G13)	635×1545×66	5,5	134
Monsoon 436 G77	4×36 (G13)	635×1245×66	7	168

Options available on request:

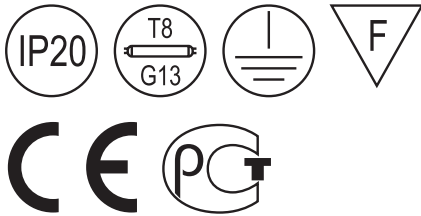
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- 11CR – Louvre with 11 cross blades
- NCP – Low Power Factor

MONSOON 236 D16 HF



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.

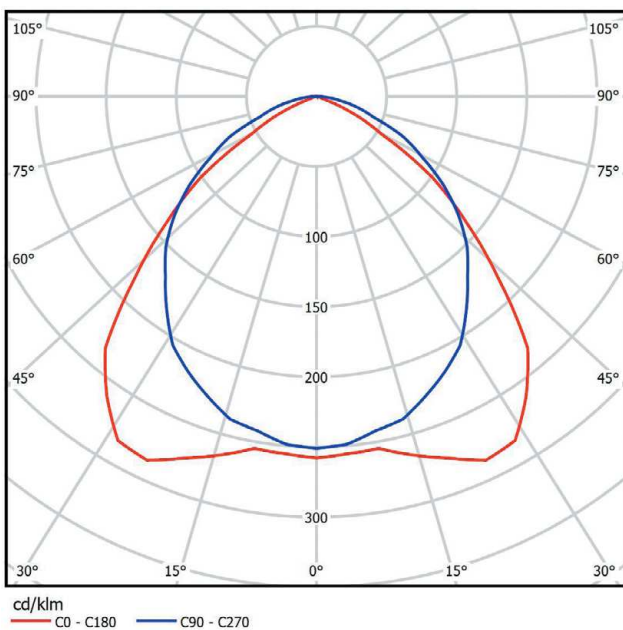
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Passat 218 A31	2×18 (G13)	360×635×66	2,4	42
Passat 418 A30	4×18 (G13)	635×635×66	3,6	84
Passat 418 A30 7CR	4×18 (G13)	635×635×66	3,6	84
Passat 236 A33	2×36 (G13)	220×1245×66	3,3	84
Passat 236 A32	2×36 (G13)	360×1245×66	4	84

Options available on request:

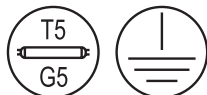
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- 7CR – Louvre with 7 cross blades
- 9CR – Louvre with 9 cross blades
- NCP – Low Power Factor

PASSAT 236 A32 HF



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.

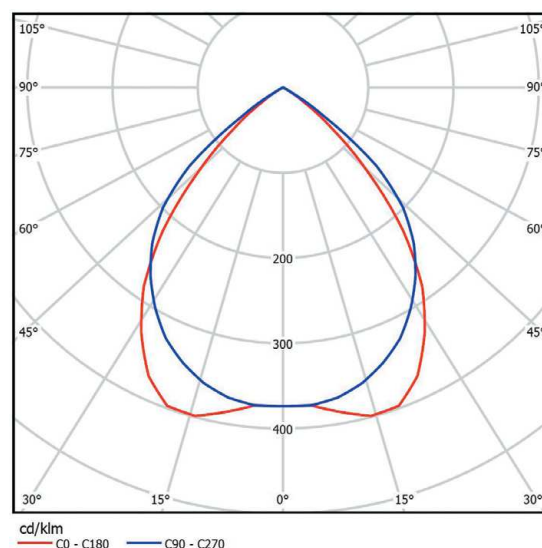
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Breeze 418 H16	4×18 (G13)	635×635×66	3,6	84
Breeze 236 N24	2×36 (G13)	360×1245×66	3,6	84
Breeze 414 N25	4×14 (G5)	635×635×66	2,8	62
Breeze 424 N26	4×24 (G5)	635×635×66	2,8	98
Breeze 228 N27	2×28 (G5)	360×1245×66	2,8	60
Breeze 254 N28	2×54 (G5)	360×1245×66	2,8	116

Options available on request:

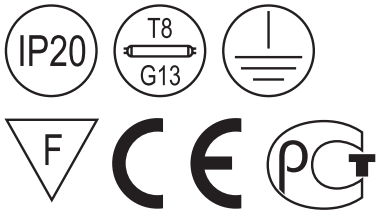
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- NCP – Low Power Factor

BREEZE 236 N24 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.

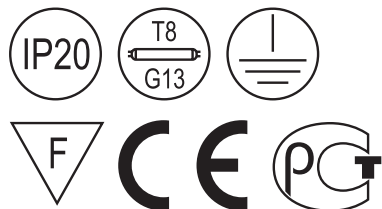
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Sirocco 218 A29	2×18 (G13)	360×635×66	2,4	50
Sirocco 418 A28	4×18 (G13)	635×635×66	3,8	84

Options available on request:

HF	- High Frequency control gear	EM2	- Emergency version 2 hours
DIM	- Dimmable ballast 1-10V	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	- Matt 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

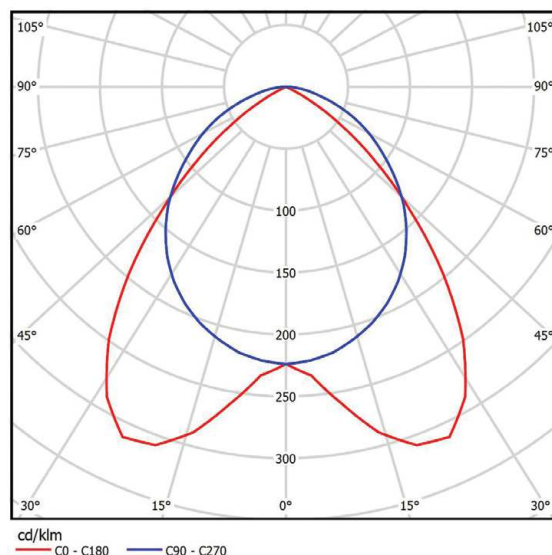
- Type:** Modern budget luminaire with ideal light distribution without blinding glare.
- Specification:** A special patented “One-piece” “Soft Light” V-shaped louvre with 5 ribbed cross blades. Louvre is fitted to the body with a locking safety clip for maximum stability. Fully enclosed painted steel 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Mistral 418 A34	4×18 (G13)	635×635×66	3,6	84
Monsoon 418 D17	4×18 (G13)	635×635×66	3,6	84

Options available on request:

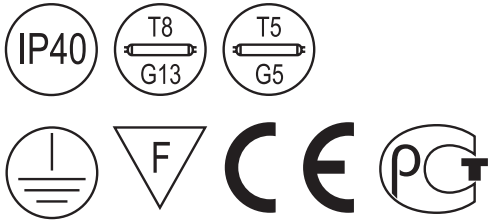
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor

MISTRAL 418 A34 HF



MARENCO

T5 & T8 Surface Luminaire with Prismatic Diffuser



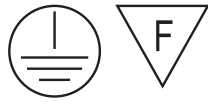
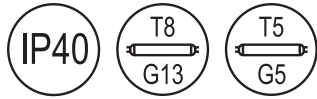
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Marengo 118 J98	1×18 (G13)	220×635×66	1,8	22
Marengo 218 J99	2×18 (G13)	220×635×66	2,2	42
Marengo 218 H76	2×18 (G13)	360×635×66	2,4	42
Marengo 318 L28	3×18 (G13)	360×635×66	2,8	64
Marengo 318 L29	3×18 (G13)	635×635×66	4	64
Marengo 418 D10	4×18 (G13)	635×635×66	4,2	84
Marengo 136 L01	1×36 (G13)	220×1245×66	3,2	42
Marengo 236 L02	2×36 (G13)	220×1245×66	3,8	84
Marengo 236 L30	2×36 (G13)	360×1245×66	4	84
Marengo 336 L04	3×36 (G13)	360×1245×66	4,6	126
Marengo 114 L31	1×14 (G5)	220×635×66	1,4	16
Marengo 124 L32	1×24 (G5)	220×635×66	1,4	25
Marengo 214 L33	2×14 (G5)	220×635×66	1,5	31
Marengo 224 L34	2×24 (G5)	220×635×66	1,5	49
Marengo 214 L35	2×14 (G5)	360×635×66	2,2	31
Marengo 224 L36	2×24 (G5)	360×635×66	2,2	49
Marengo 314 L37	3×14 (G5)	360×635×66	2,3	46
Marengo 324 L38	3×24 (G5)	360×635×66	2,3	73
Marengo 314 L39	3×14 (G5)	635×635×66	3,1	46
Marengo 324 L40	3×24 (G5)	635×635×66	3,1	73
Marengo 414 L41	4×14 (G5)	635×635×66	3,2	62
Marengo 424 L42	4×24 (G5)	635×635×66	3,2	98
Marengo 128 L43	1×28 (G5)	220×1245×66	2,5	30
Marengo 154 L44	1×54 (G5)	220×1245×66	2,5	58
Marengo 228 L45	2×28 (G5)	220×1245×66	2,6	60
Marengo 254 L46	2×54 (G5)	220×1245×66	2,6	116
Marengo 228 L47	2×28 (G5)	360×1245×66	3,3	60
Marengo 254 L48	2×54 (G5)	360×1245×66	3,3	116
Marengo 328 L49	3×28 (G5)	360×1245×66	3,7	90
Marengo 354 L50	3×54 (G5)	360×1245×66	3,7	174

Options available on request:

HF	- High Frequency control gear	EM3	- Emergency version 3 hours
DIM	- Dimmable ballast 1-10V	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 ballast	NCP	- Low Power Factor
EMG	- Emergency version 1 hour		
EM2	- Emergency version 2 hours		

LEVANTO

T5 & T8 Surface Luminaire with Opal Diffuser



Levanto 236 A41



Levanto Sport 236 A42

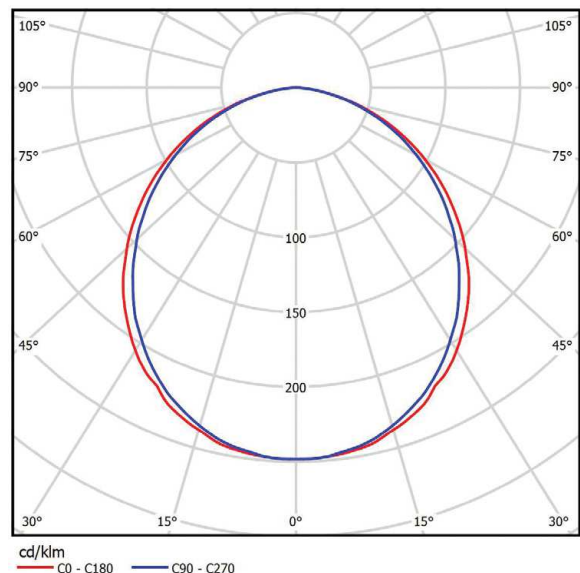
- Type:** Economical surface mounted T8 luminaire with a modern low profile body and opal diffuser. Premium quality at competitive prices.
-
- Specification:** UV stable opal sheet is fitted to the body with a steel frame. LEVANTO SPORT 236 A42 is equipped with a special white painted steel protective 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Levanto 118 J95	1×18 (G13)	220×635×66	1,8	22
Levanto 218 J96	2×18 (G13)	220×635×66	2,2	42
Levanto 218 H75	2×18 (G13)	360×635×66	2,4	42
Levanto 318 L05	3×18 (G13)	360×635×66	2,8	64
Levanto 318 L06	3×18 (G13)	635×635×66	4	64
Levanto 418 A40	4×18 (G13)	635×635×66	4,2	84
Levanto 136 J97	1×36 (G13)	220×1245×66	3,2	42
Levanto 236 A41	2×36 (G13)	220×1245×66	3,8	84
Levanto 236 L27	2×36 (G13)	360×1245×66	4	84
Levanto 336 L03	3×36 (G13)	360×1245×66	4,6	126
Levanto Sport 236 A42	2×36 (G13)	320×1380×105	5,9	84
Levanto 114 L07	1×14 (G5)	220×635×66	1,4	16
Levanto 124 L08	1×24 (G5)	220×635×66	1,4	25
Levanto 214 L09	2×14 (G5)	220×635×66	1,5	31
Levanto 224 L10	2×24 (G5)	220×635×66	1,5	49
Levanto 214 L11	2×14 (G5)	360×635×66	2,2	31
Levanto 224 L12	2×24 (G5)	360×635×66	2,2	49
Levanto 314 L13	3×14 (G5)	360×635×66	2,3	46
Levanto 324 L14	3×24 (G5)	360×635×66	2,3	73
Levanto 314 L15	3×14 (G5)	635×635×66	3,1	46
Levanto 324 L16	3×24 (G5)	635×635×66	3,1	73
Levanto 414 L17	4×14 (G5)	635×635×66	3,2	62
Levanto 424 L18	4×24 (G5)	635×635×66	3,2	98
Levanto 128 L19	1×28 (G5)	220×1245×66	2,5	30
Levanto 154 L20	1×54 (G5)	220×1245×66	2,5	58
Levanto 228 L21	2×28 (G5)	220×1245×66	2,6	60
Levanto 254 L22	2×54 (G5)	220×1245×66	2,6	116
Levanto 228 L23	2×28 (G5)	360×1245×66	3,3	60
Levanto 254 L24	2×54 (G5)	360×1245×66	3,3	116
Levanto 328 L25	3×28 (G5)	360×1245×66	3,7	90
Levanto 354 L26	3×54 (G5)	360×1245×66	3,7	174

Options available on request:

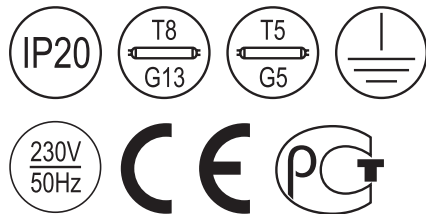
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor
- L80 – Opal sheet with 80% light transmission

LEVANTO 418 A40 HF



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.

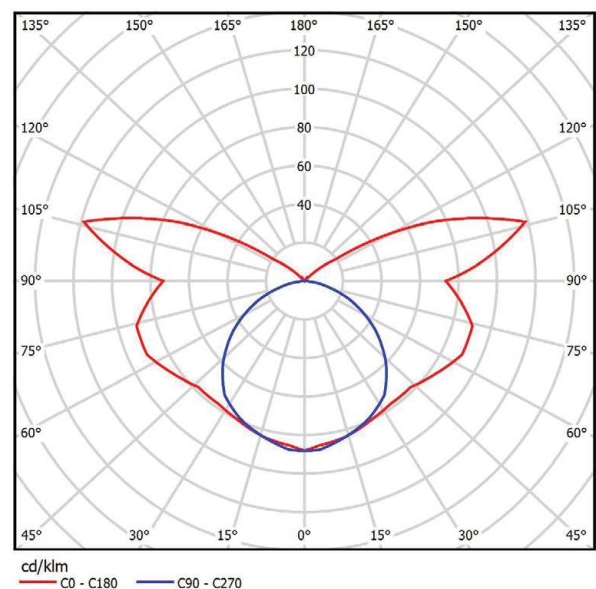
Application: Office buildings, showrooms and other commercial environments.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Jetta 236 C54	2×36 (G13)	460x1248x130	8,25	84
Jetta 336 C55	3×36 (G13)	460x1248x130	8,75	126
Jetta 228 C52	2×28 (G5)	460x1198x130	7,85	60
Jetta 328 C53	3×28 (G5)	460x1198x130	8,15	90
Jetta 254 D85	2×54 (G5)	460x1198x130	7,85	116
Jetta 354 D86	3×54 (G5)	460x1198x130	8,15	174

Options available on request:

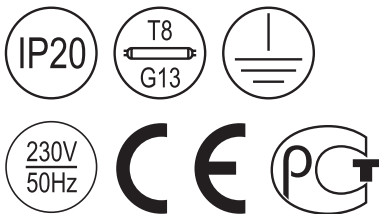
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block for loop feed and ease of wiring
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor

JETTA 228 C52



BORA REF

T8 Surface/Suspended Indirect Luminaire with Perforated Cover



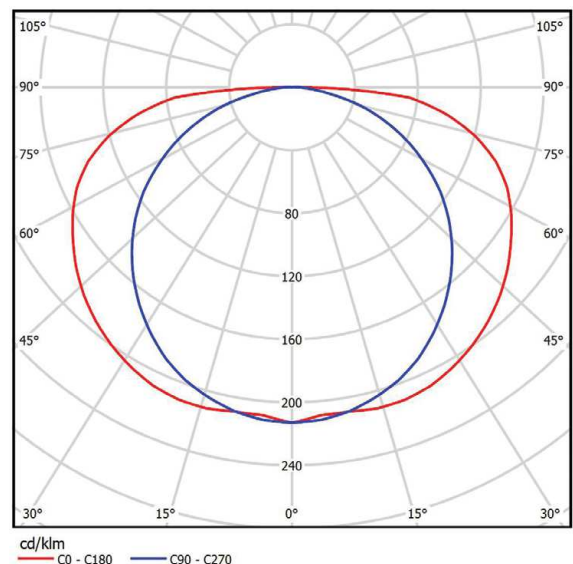
- Type:** Batten type luminaire with central perforated cover to create ideal light distribution without blinding glare.
- Specification:** Perforated white painted cover with symmetrical reflector.
Fully enclosed white painted body.
Luminaire is plastic-wrapped and boxed individually.
- Installation:**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

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Bora 136 C93 REF	1×36 (G13)	206x1232x92	2,9	42
Bora 158 C94 REF	1×58 (G13)	206x1534x92	3,7	67
Bora 236 C95 REF	2×36 (G13)	206x1232x92	3,4	84
Bora 258 C96 REF	2×58 (G13)	206x1534x92	5	134

Options available on request:

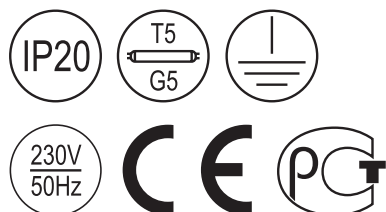
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- NCP – Low Power Factor

BORA 258 C96 REF



JETTA

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.

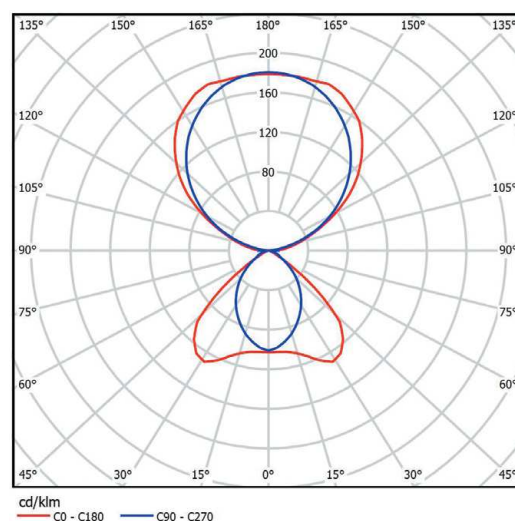
Application: Office buildings, shops and other commercial environments.

Type	Lamp (W) and holder	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:

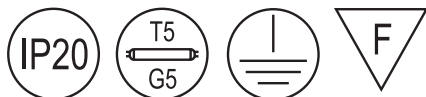
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- NCP – Low Power Factor

JETTA 328 D83



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.



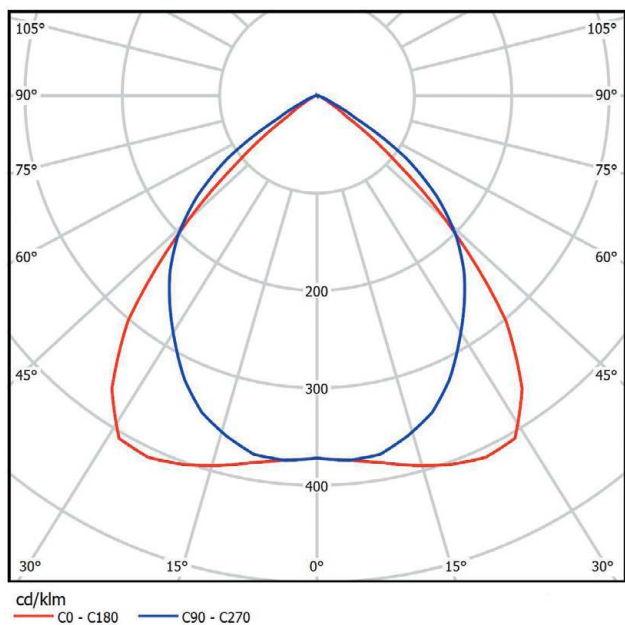
Pull switch version (to switch on/off) available on request. For more information see in Option list.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Tucana 128 J75	1x28 (G5)	175x1265x55	3	30
Tucana 228 J76	2x28 (G5)	175x1265x55	3,1	60
Tucana 135 J77	1x35 (G5)	175x1565x55	3,7	38
Tucana 235 J78	2x35 (G5)	175x1565x55	3,8	75
Tucana 149 J79	1x49 (G5)	175x1565x55	3,7	53
Tucana 249 J80	2x49 (G5)	175x1565x55	3,8	104
Tucana 154 J81	1x54 (G5)	175x1265x55	3,0	58
Tucana 254 J82	2x54 (G5)	175x1265x55	3,1	115
Tucana 180 J83	1x80 (G5)	175x1565x55	3,8	85
Tucana 280 J84	2x80 (G5)	175x1565x55	3,9	170

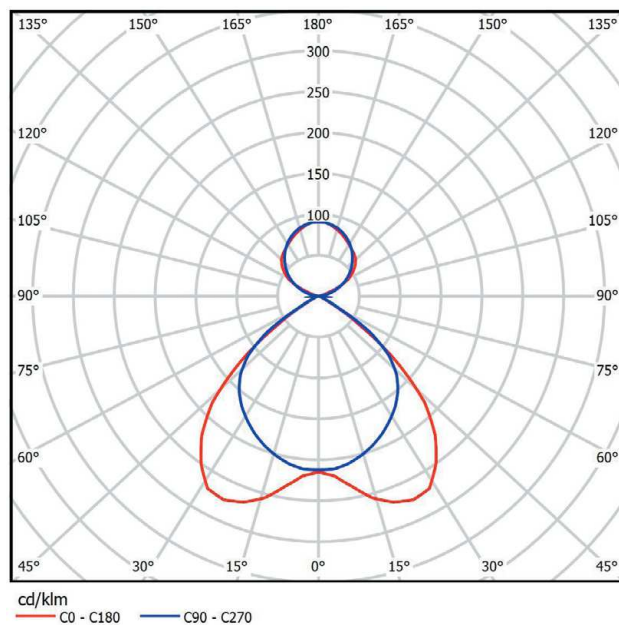
Options available on request:

- | | | | |
|------------|--|------|---|
| DIM | - Dimmable ballast 1-10V | MAT | - Matt reflector (subject to minimum order) |
| SWITCHDIM | - Switch DIM ballast | MRO | - MIRO® reflector Deluxe (subject to minimum order) |
| DALI | - DALI ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminal blocks |
| PULLSWITCH | - Pull switch device | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminal blocks |
| EMG | - Emergency version 1 hour | RAL | - Painted RAL colour |
| EM2 | - Emergency version 2 hours | LG3 | - LG3 option |
| EM3 | - Emergency version 3 hours | SUS2 | - Suspension wires set (2 pcs) |
| 4TB | - 4 way terminal block for loop feed and ease of wiring | CAPW | - White suspension cap with spiral cable 3x1mm ² |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | | |

TUCANA 149 J79



TUCANA 249 J80 LG3





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



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off



Bright
out

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Tucana 128 J75 Sense&Solo	1x28 (G5)	175x1265x55	3	30
Tucana 228 J76 Sense&Solo	2x28 (G5)	175x1265x55	3,1	60
Tucana 135 J77 Sense&Solo	1x35 (G5)	175x1565x55	3,7	38
Tucana 235 J78 Sense&Solo	2x35 (G5)	175x1565x55	3,8	75
Tucana 149 J79 Sense&Solo	1x49 (G5)	175x1565x55	3,7	53
Tucana 249 J80 Sense&Solo	2x49 (G5)	175x1565x55	3,8	104
Tucana 154 J81 Sense&Solo	1x54 (G5)	175x1265x55	3,0	58
Tucana 254 J82 Sense&Solo	2x54 (G5)	175x1265x55	3,1	115
Tucana 180 J83 Sense&Solo	1x80 (G5)	175x1565x55	3,8	85
Tucana 280 J84 Sense&Solo	2x80 (G5)	175x1565x55	3,9	170



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



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

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Tucana 128128 P71	1x28+1x28 (G5)	175x1265x85	4	30
Tucana 228128 P72	2x28+1x28 (G5)	175x1265x85	4,1	60
Tucana 135135 P73	1x35+1x35 (G5)	175x1565x85	4,7	38
Tucana 235135 P74	2x35+1x35 (G5)	175x1565x85	4,8	75
Tucana 149149 P76	1x49+1x49 (G5)	175x1565x85	4,7	53
Tucana 249149 P77	2x49+1x49 (G5)	175x1565x85	4,8	104
Tucana 154154 P78	1x54+1x54 (G5)	175x1265x85	4,0	58
Tucana 254154 P79	2x54+1x54 (G5)	175x1265x85	4,1	115
Tucana 180180 P80	1x80+1x80 (G5)	175x1565x85	4,8	85
Tucana 280180 P81	2x80+1x80 (G5)	175x1565x85	4,9	170

Options available on request:

DIM	- Dimmable ballast 1-10V	MRO	- MIRO® reflector Deluxe (subject to minimum order)
SWITCHDIM	- Switch DIM ballast	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminal blocks
DALI	- DALI ballast	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminal blocks
PULLSWITCH	- Pull switch device	RAL	- Painted RAL colour
EMG	- Emergency version 1 hour	LG3	- LG3 option
EM2	- Emergency version 2 hours	SUS2	- Suspension wires set (2 pcs)
EM3	- Emergency version 3 hours	CAPW	- White suspension cap with spiral cable 3x1mm ²
4TB	- 4 way terminal block for loop feed and ease of wiring	DB	- Version with stright cross-blades
5TB	- 5 way terminal block with two holes (for in and out going cable)		
MAT	- Matt reflector (subject to minimum order)		



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SERPENS

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

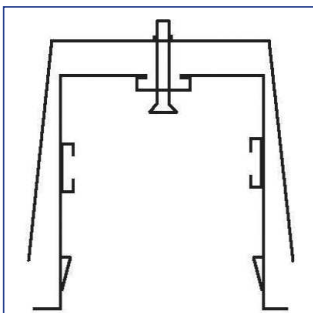


Serpens 128 M75 PRZ



Serpens 128 M75 PAR

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 BR- 3 pcs**) for installation into a plasterboard ceiling available on request.

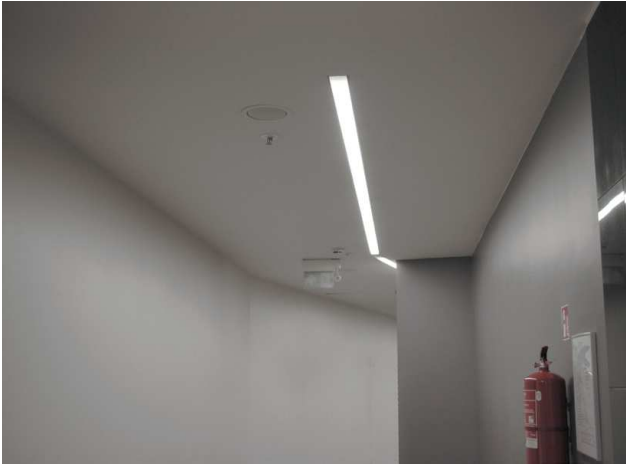
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Serpens 114 M73	1x14 (G5)	80x595x70	1,25	15
Serpens 124 M74	1x24 (G5)	80x595x70	1,25	25
Serpens 128 M75	1x28 (G5)	80x1195x70	2	30
Serpens 135 M76	1x35 (G5)	80x1495x70	2,4	38
Serpens 149 M77	1x49 (G5)	80x1495x70	2,4	53
Serpens 154 M78	1x54 (G5)	80x1195x70	2	58
Serpens 180 M79	1x80 (G5)	80x1495x70	2,5	85
Serpens 2x114 M94	2x1x14 (G5)	80x1170x70	2,5	30
Serpens 2x124 M95	2x1x24 (G5)	80x1170x70	2,5	50
Serpens 2x128 M96	2x1x28 (G5)	80x2370x70	4	60
Serpens 2x135 M97	2x1x35 (G5)	80x2970x70	4,8	76
Serpens 2x149 M98	2x1x49 (G5)	80x2970x70	4,8	106
Serpens 2x154 M99	2x1x54 (G5)	80x2370x70	4	116
Serpens 2x180 N01	2x1x80 (G5)	80x2970x70	5,0	170

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

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Serpens LED1x1050 B154 T840 OP	80x595x70	1050	4000	>80	11	1,4
Serpens LED1x1400 B409 T840 OP	80x595x70	1400	4000	>80	14	1,4
Serpens LED1x2000 B410 T840 OP	80x595x70	2000	4000	>80	20	1,4
Serpens LED1x2350 B156 T840 OP	80x1195x70	2350	4000	>80	23	2,2
Serpens LED1x3150 B411 T840 OP	80x1195x70	3150	4000	>80	31	2,2
Serpens LED1x4300 B412 T840 OP	80x1195x70	4300	4000	>80	42	2,2
Serpens LED1x2950 B157 T840 OP	80x1495x70	2950	4000	>80	29	2,6
Serpens LED1x4000 B413 T840 OP	80x1495x70	4000	4000	>80	40	2,6
Serpens LED1x5400 B414 T840 OP	80x1495x70	5400	4000	>80	53	2,6
Serpens LED1x4850 B158 T840 OP	80x2370x70	4850	4000	>80	48	4,4
Serpens LED1x6550 B415 T840 OP	80x2370x70	6550	4000	>80	64	4,4
Serpens LED1x8800 B416 T840 OP	80x2370x70	8800	4000	>80	86	4,4
Serpens LED1x6100 B160 T840 OP	80x2970x70	6100	4000	>80	60	5,2
Serpens LED1x8200 B417 T840 OP	80x2970x70	8200	4000	>80	80	5,2
Serpens LED1x11100 B418 T840 OP	80x2970x70	11100	4000	>80	109	5,2

Options available on request:

DIM	- Dimmable ballast 1-10V	OP	- Opal cover
SWITCHDIM	- Switch DIM ballast	PRZ	- Micro prismatic cover
DALI	- DALI ballast	SB	- Support brackets for installation into a plaster-board ceiling
EMG	- Emergency version 1 hour	L	- Designed for in-line connecting without gap
EM2	- Emergency version 2 hours	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminal blocks
EM3	- Emergency version 3 hours	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminal blocks
4TB	- 4 way terminal block for loop feed and ease of wiring	RAL	- Painted RAL colour
5TB	- 5 way terminal block with two holes (for in and out going cable)	T830	- Color temperature 3000K
MAT	- Matt reflector (subject to minimum order)	T840	- Color temperature 4000K
PAR	- Double parabolic reflector	T857	- Color temperature 5700K
MRO	- Mirror reflector Deluxe (subject to minimum order)		



SERPENS D

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



SERPENS D 228 P59 PRZ



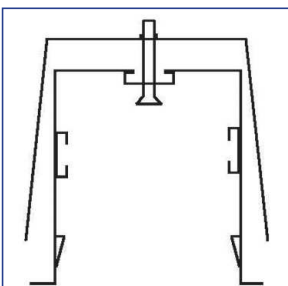
SERPENS D 228 P59 OP

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 BR- 3 pcs**)
for installation into a plasterboard ceiling
available on request.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Serpens 214 P57	2x14 (G5)	130x595x70	1,40	31
Serpens 224 P58	2x24 (G5)	130x595x70	1,40	49
Serpens 228 P59	2x28 (G5)	130x1195x70	2,15	60
Serpens 235 P60	2x35 (G5)	130x1495x70	2,65	76
Serpens 249 P61	2x49 (G5)	130x1495x70	2,65	105
Serpens 254 P62	2x54 (G5)	130x1195x70	2,15	116
Serpens 280 P63	2x80 (G5)	130x1495x70	2,75	170
Serpens 2x214 P64	2x2x14 (G5)	130x1170x70	2,80	62
Serpens 2x224 P65	2x2x24 (G5)	130x1170x70	2,80	98
Serpens 2x228 P66	2x2x28 (G5)	130x2370x70	4,3	120
Serpens 2x235 P67	2x2x35 (G5)	130x2970x70	5,3	152
Serpens 2x249 P68	2x2x49 (G5)	130x2970x70	5,3	210
Serpens 2x254 P69	2x2x54 (G5)	130x2370x70	4,3	232
Serpens 2x280 P70	2x2x80 (G5)	130x2970x70	5,5	340

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

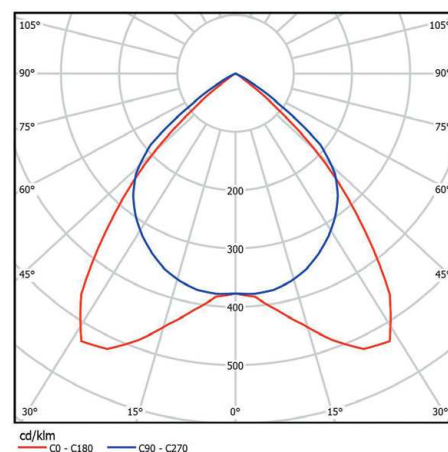
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Serpens D LED2x1050 B169 T840 OP	130x595x70	2100	4000	>80	21	1,6
Serpens D LED2x1400 B419 T840 OP	130x595x70	2800	4000	>80	28	1,6
Serpens D LED2x2000 B420 T840 OP	130x595x70	4000	4000	>80	40	1,6
Serpens D LED2x2350 B171 T840 OP	130x1195x70	4700	4000	>80	46	2,6
Serpens D LED2x3150 B421 T840 OP	130x1195x70	6300	4000	>80	62	2,6
Serpens D LED2x4300 B422 T840 OP	130x1195x70	8600	4000	>80	84	2,6
Serpens D LED2x2950 B173 T840 OP	130x1495x70	5900	4000	>80	58	3
Serpens D LED2x4000 B423 T840 OP	130x1495x70	8000	4000	>80	79	3
Serpens D LED2x5400 B424 T840 OP	130x1495x70	10800	4000	>80	106	3
Serpens D LED2x4850 B175 T840 OP	130x2370x70	9700	4000	>80	95	5,2
Serpens D LED2x6550 B425 T840 OP	130x2370x70	13100	4000	>80	128	5,2
Serpens D LED2x8800 B426 T840 OP	130x2370x70	17600	4000	>80	172	5,2
Serpens D LED2x6100 B179 T840 OP	130x2970x70	12200	4000	>80	120	6
Serpens D LED2x8200 B427 T840 OP	130x2970x70	16400	4000	>80	160	6
Serpens D LED2x11000 B428 T840 OP	130x2970x70	22200	4000	>80	217	6

Options available on request:

- DIM – Dimmable ballast 1-10V
- 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 – Matt 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
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

SERPENS D 228 P59 PAR



DECOR

T5&LED
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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor 114 M80	1x14 (G5)	60x576x70	1,2	15
Decor 124 M81	1x24 (G5)	60x576x70	1,2	25
Decor 128 M82	1x28 (G5)	60x1176x70	1,9	30
Decor 135 M83	1x35 (G5)	60x1476x70	2,3	38
Decor 149 M84	1x49 (G5)	60x1476x70	2,3	53
Decor 154 M85	1x54 (G5)	60x1176x70	1,9	58
Decor 180 M86	1x80 (G5)	60x1476x70	2,4	85
Decor 2x114 N02	2x1x14 (G5)	60x1151x70	2,4	30
Decor 2x124 N03	2x1x24 (G5)	60x1151x70	2,4	50
Decor 2x128 N04	2x1x28 (G5)	60x2351x70	3,8	60
Decor 2x135 N05	2x1x35 (G5)	60x2951x70	4,6	76
Decor 2x149 N06	2x1x49 (G5)	60x2951x70	4,6	106
Decor 2x154 N07	2x1x54 (G5)	60x2351x70	3,8	116
Decor 2x180 N08	2x1x80 (G5)	60x2951x70	4,8	170

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

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Decor LED1x1050 B161 T840 OP	60x576x70	1050	4000	>80	11	1,4
Decor LED1x1400 B429 T840 OP	60x576x70	1400	4000	>80	14	1,4
Decor LED1x2000 B430 T840 OP	60x576x70	2000	4000	>80	20	1,4
Decor LED1x2350 B163 T840 OP	60x1176x70	2350	4000	>80	23	2,2
Decor LED1x3150 B431 T840 OP	60x1176x70	3150	4000	>80	31	2,2
Decor LED1x4300 B432 T840 OP	60x1176x70	4300	4000	>80	42	2,2
Decor LED1x2950 B164 T840 OP	60x1476x70	2950	4000	>80	29	2,6
Decor LED1x4000 B433 T840 OP	60x1476x70	4000	4000	>80	40	2,6
Decor LED1x5400 B434 T840 OP	60x1476x70	5400	4000	>80	53	2,6
Decor LED1x4850 B165 T840 OP	60x2351x70	4850	4000	>80	48	4,4
Decor LED1x6550 B435 T840 OP	60x2351x70	6550	4000	>80	64	4,4
Decor LED1x8800 B436 T840 OP	60x2351x70	8800	4000	>80	86	4,4
Decor LED1x6100 B167 T840 OP	60x2951x70	6100	4000	>80	60	5,2
Decor LED1x8200 B437 T840 OP	60x2951x70	8200	4000	>80	80	5,2
Decor LED1x11100 B438 T840 OP	60x2951x70	11100	4000	>80	109	5,2

Options available on request:

DIM	- Dimmable ballast 1-10V	OP	- Opal cover
SWITCHDIM	- Switch DIM ballast	PRZ	- Prismatic cover
DALI	- DALI ballast	L	- Designed for in-line connection without gap (for OP/PRZ versions)
PULLSWITCH	- Pull switch device	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminal blocks
EMG	- Emergency version 1 hour	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminal blocks
EM2	- Emergency version 2 hours	RAL	- Painted RAL colour
EM3	- Emergency version 3 hours	T830	- Color temperature 3000K
5TB	- 5 way terminal block with two holes (for in and out going cable)	T840	- Color temperature 4000K
MAT	- Matt reflector (subject to minimum order)	T857	- Color temperature 5700K
PAR	- Double parabolic reflector		
MRO	- MIRO® reflector Deluxe (subject to minimum order)		



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



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off



Bright out

Type	Lamp (W) and socket	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor 114 P36 SENSE&SOLO	1x14 (G5)	60x876x70	1,5	15
Decor 124 P37 SENSE&SOLO	1x24 (G5)	60x876x70	1,5	25
Decor 128 P38 SENSE&SOLO	1x28 (G5)	60x1476x70	2,2	30
Decor 135 P39 SENSE&SOLO	1x35 (G5)	60x1776x70	2,6	38
Decor 149 P40 SENSE&SOLO	1x49 (G5)	60x1776x70	2,6	53
Decor 154 P41 SENSE&SOLO	1x54 (G5)	60x1476x70	2,2	58
Decor 180 P42 SENSE&SOLO	1x80 (G5)	60x1776x70	2,7	85



Decor 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

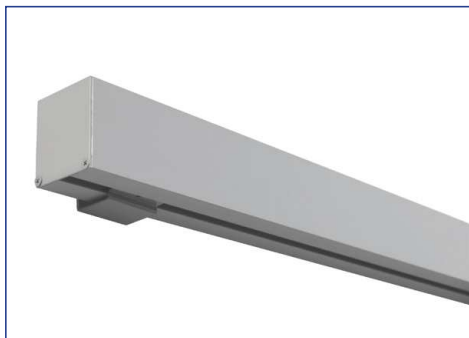


Fittings with 250mm closed profile from both ends are designed for connection into the lighting systems. Please add join elements ("I", "L", "T" or "X" type to the order).

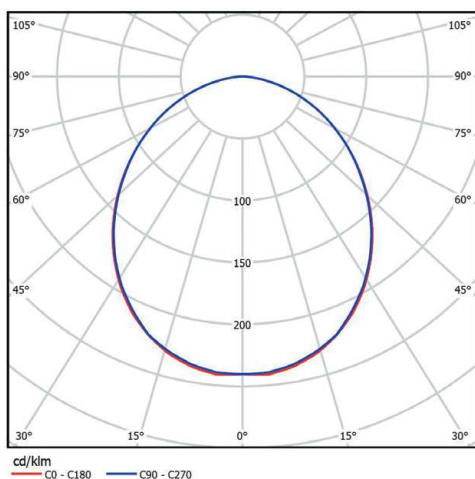
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor 114 P43	1x14 (G5)	60x1070x70	1,2	15
Decor 124 P44	1x24 (G5)	60x1070x70	1,2	25
Decor 128 P45	1x28 (G5)	60x1670x70	1,9	30
Decor 135 P46	1x35 (G5)	60x1970x70	2,3	38
Decor 149 P47	1x49 (G5)	60x1970x70	2,3	53
Decor 154 P48	1x54 (G5)	60x1670x70	1,9	58
Decor 180 P49	1x80 (G5)	60x1970x70	2,4	85
Decor 2x114 P50	2x1x14 (G5)	60x1640x70	2,4	30
Decor 2x124 P51	2x1x24 (G5)	60x1640x70	2,4	50
Decor 2x128 P52	2x1x28 (G5)	60x2840x70	3,8	60
Decor 2x135 P53	2x1x35 (G5)	60x3440x70	4,6	76
Decor 2x149 P54	2x1x49 (G5)	60x3440x70	4,6	106
Decor 2x154 P55	2x1x54 (G5)	60x2840x70	3,8	116
Decor 2x180 P56	2x1x80 (G5)	60x3440x70	4,8	170
DECOR I-JOIN		60x60x70	0,3	
DECOR L-JOIN		60x60x70	0,3	
DECOR T-JOIN		60x60x70	0,3	
DECOR X-JOIN		60x60x70	0,3	



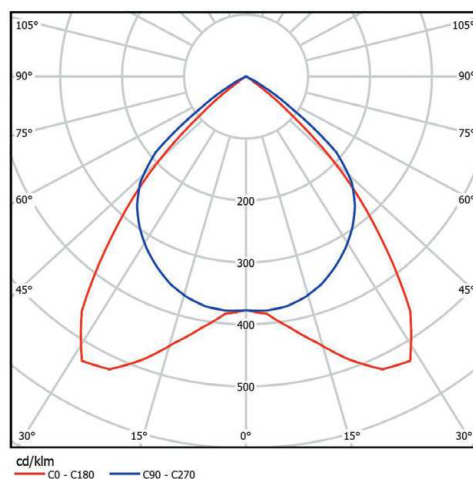
Brackets set (**DECOR WALL BR2**) for DECOR series mounting directly to the wall with up or down lighting.

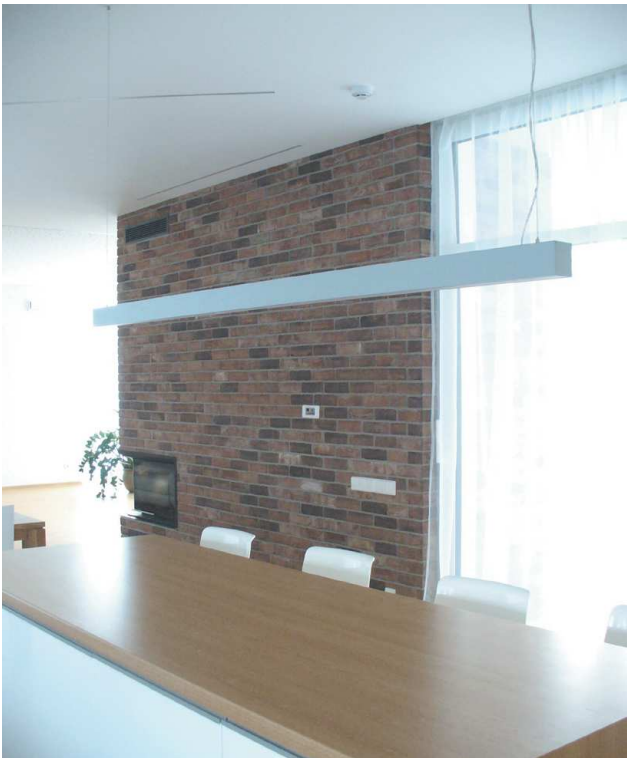
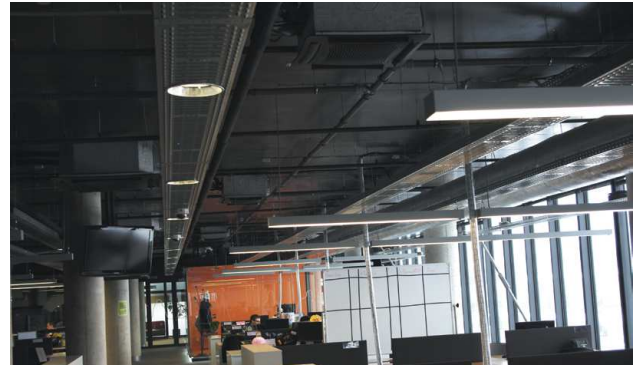


DECOR 128 M82 OP



DECOR 128 M82 PAR

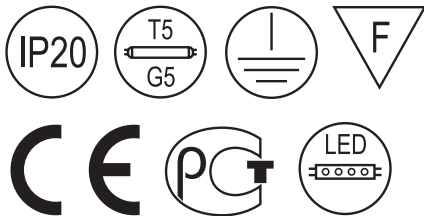






DECOR D

T5&LED Surface/
Suspended Luminaire
for in-line connection



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	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Decor D LED2x1050 B168 T840 OP	110x576x70	2100	4000	>80	21	1,6
Decor D LED2x1400 B439 T840 OP	110x576x70	2800	4000	>80	28	1,6
Decor D LED2x2000 B440 T840 OP	110x576x70	4000	4000	>80	40	1,6
Decor D LED2x2350 B170 T840 OP	110x1176x70	4700	4000	>80	46	2,6
Decor D LED2x3150 B441 T840 OP	110x1176x70	6300	4000	>80	62	2,6
Decor D LED2x4300 B442 T840 OP	110x1176x70	8600	4000	>80	84	2,6
Decor D LED2x2950 B172 T840 OP	110x1476x70	5900	4000	>80	58	3
Decor D LED2x4000 B443 T840 OP	110x1476x70	8000	4000	>80	79	3
Decor D LED2x5400 B444 T840 OP	110x1476x70	10800	4000	>80	106	3
Decor D LED2x4850 B174 T840 OP	110x2351x70	9700	4000	>80	95	5,2
Decor D LED2x6550 B445 T840 OP	110x2351x70	13100	4000	>80	128	5,2
Decor D LED2x8800 B446 T840 OP	110x2351x70	17600	4000	>80	172	5,2
Decor D LED2x6100 B178 T840 OP	110x2951x70	12200	4000	>80	120	6
Decor D LED2x8200 B447 T840 OP	110x2951x70	16400	4000	>80	160	6
Decor D LED2x11100 B448 T840 OP	110x2951x70	22200	4000	>80	217	6

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor D 214 M87	2x14 (G5)	110x576x70	1,40	31
Decor D 224 M88	2x24 (G5)	110x576x70	1,40	49
Decor D 228 M89	2x28 (G5)	110x1176x70	2,15	60
Decor D 235 M90	2x35 (G5)	110x1476x70	2,65	76
Decor D 249 M91	2x49 (G5)	110x1476x70	2,65	105
Decor D 254 M92	2x54 (G5)	110x1176x70	2,15	116
Decor D 280 M93	2x80 (G5)	110x1476x70	2,75	170
Decor D 2x214 N09	2x2x14 (G5)	110x1151x70	2,80	62
Decor D 2x224 N10	2x2x24 (G5)	110x1151x70	2,80	98
Decor D 2x228 N11	2x2x28 (G5)	110x2351x70	4,3	120
Decor D 2x235 N12	2x2x35 (G5)	110x2951x70	5,3	152
Decor D 2x249 N13	2x2x49 (G5)	110x2951x70	5,3	210
Decor D 2x254 N14	2x2x54 (G5)	110x2351x70	4,3	232
Decor D 2x280 N15	2x2x80 (G5)	110x2951x70	5,5	340

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



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



ON: Auto
OFF: Auto



15 min. → 20%
60 sec. → Off



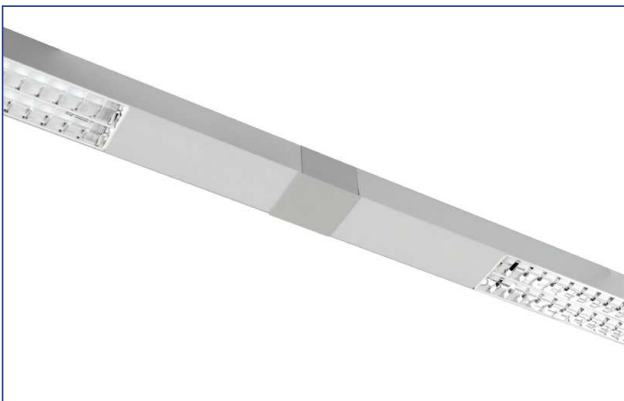
Bright
out

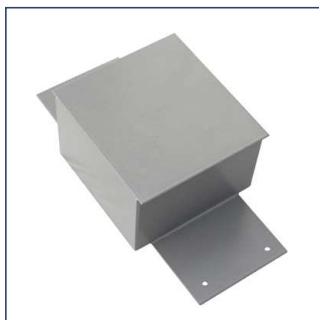
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor D 214 P29 SENSE&SOLO	2x14 (G5)	110x876x70	1,70	31
Decor D 224 P30 SENSE&SOLO	2x24 (G5)	110x876x70	1,70	49
Decor D 228 P31 SENSE&SOLO	2x28 (G5)	110x1476x70	2,45	60
Decor D 235 P32 SENSE&SOLO	2x35 (G5)	110x1776x70	2,95	76
Decor D 249 P33 SENSE&SOLO	2x49 (G5)	110x1776x70	2,95	105
Decor D 254 P34 SENSE&SOLO	2x54 (G5)	110x1476x70	2,45	116
Decor D 280 P35 SENSE&SOLO	2x80 (G5)	110x1776x70	3,05	170

Options available on request:

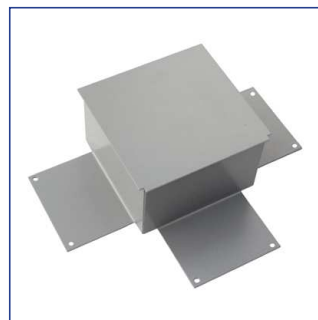
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|-----------|--|------|---|
| DIM | - Dimmable ballast 1-10V | OP | - Opal cover |
| SWITCHDIM | - Switch DIM ballast | PRZ | - Prismatic cover |
| DALI | - DALI ballast | L | - Designed for in-line connection without gap (for OP/PRZ versions) |
| PULLSWITC | - Pull switch device | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminal blocks |
| EMG | - Emergency version 1 hour | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminal blocks |
| EM2 | - Emergency version 2 hours | RAL | - Painted RAL colour |
| EM3 | - Emergency version 3 hours | T830 | - Color temperature 3000K |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | T840 | - Color temperature 4000K |
| MAT | - Matt reflector (subject to minimum order) | T857 | - Color temperature 5700K |
| LG3 | - LG3 option | | |
| PAR | - Double parabolic reflector | | |
| MRO | - MIRO® reflector Deluxe (subject to minimum order) | | |

Decor 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.

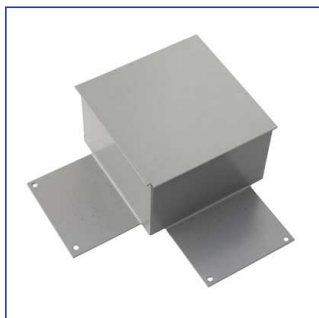




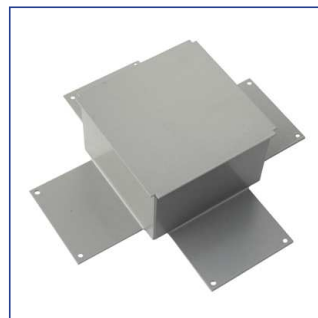
I-JOIN- "I" join element



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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Decor D 214 P15	2x14 (G5)	110x1070x70	2,0	31
Decor D 224 P16	2x24 (G5)	110x1070x70	2,0	49
Decor D 228 P17	2x28 (G5)	110x1670x70	2,75	60
Decor D 235 P18	2x35 (G5)	110x1970x70	3,25	76
Decor D 249 P19	2x49 (G5)	110x1970x70	3,25	105
Decor D 254 P20	2x54 (G5)	110x1670x70	2,75	116
Decor D 280 P21	2x80 (G5)	110x1970x70	3,35	170
Decor D 2x214 P22	2x2x14 (G5)	110x1640x70	3,4	62
Decor D 2x224 P23	2x2x24 (G5)	110x1640x70	3,4	98
Decor D 2x228 P24	2x2x28 (G5)	110x2840x70	4,9	120
Decor D 2x235 P25	2x2x35 (G5)	110x3440x70	5,9	152
Decor D 2x249 P26	2x2x49 (G5)	110x3440x70	5,9	210
Decor D 2x254 P27	2x2x54 (G5)	110x2840x70	4,9	232
Decor D 2x280 P28	2x2x80 (G5)	110x3440x70	6,1	340
DECOR D I-JOIN		110x110x70	0,4	
DECOR D L-JOIN		110x110x70	0,4	
DECOR D T-JOIN		110x110x70	0,4	
DECOR D X-JOIN		110x110x70	0,4	

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

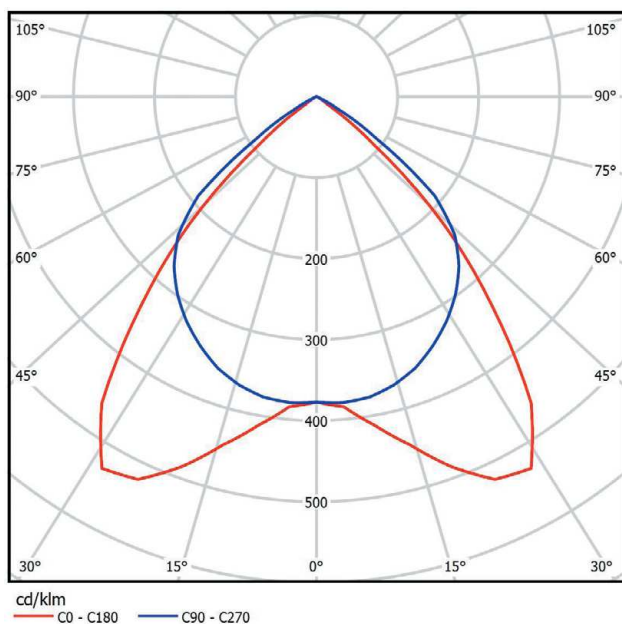


Pull switch version (to switch on/off) available on request. For more information see in Option list.

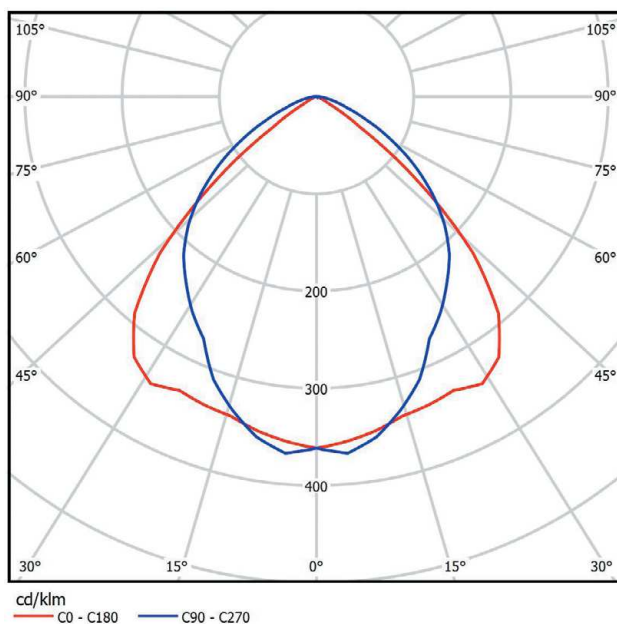
Options available on request:

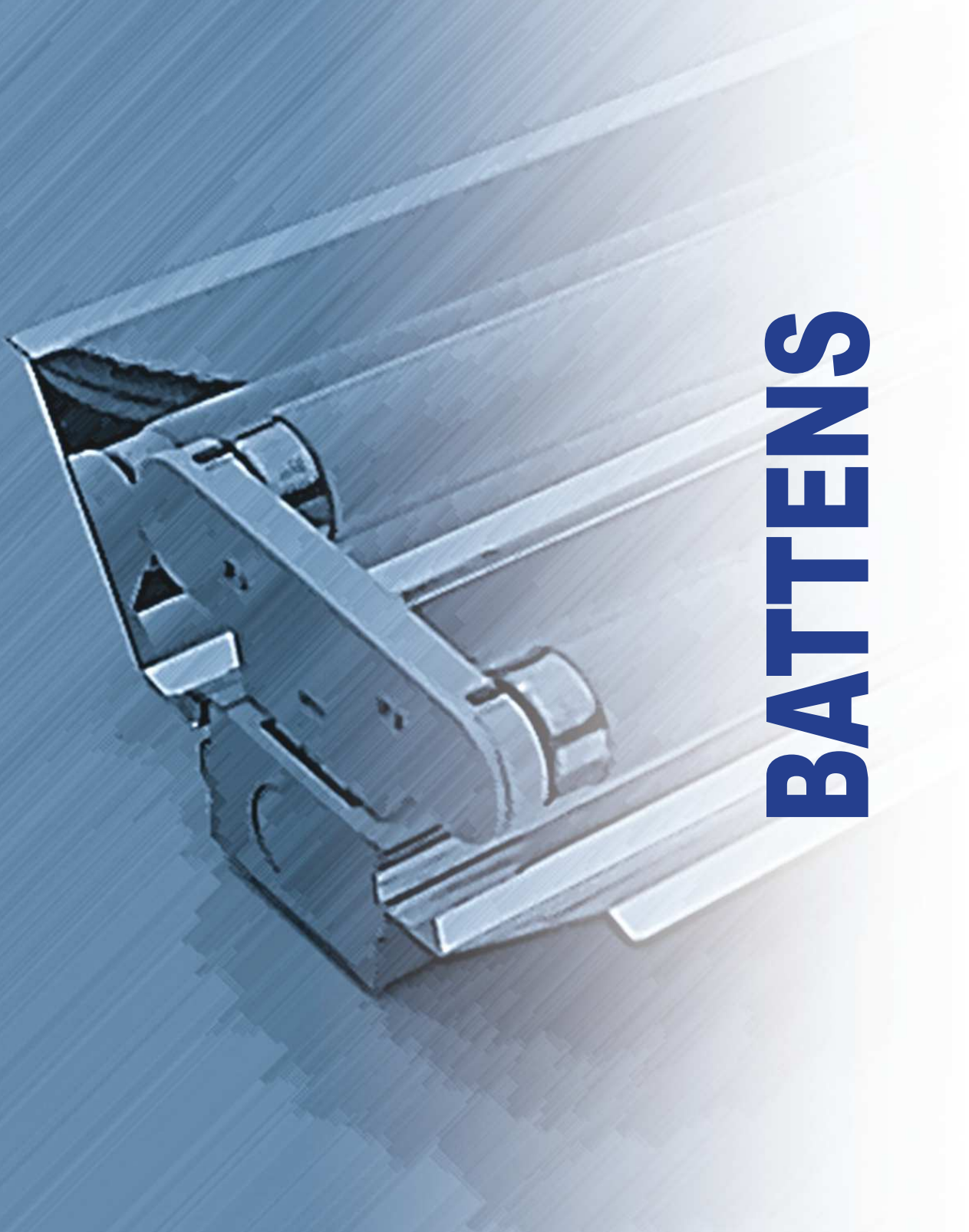
- | | | | |
|-----------|--|------|---|
| DIM | - Dimmable ballast 1-10V | LG3 | - LG3 option |
| SWITCHDIM | - Switch DIM ballast | PAR | - Double parabolic reflector |
| DALI | - DALI ballast | MRO | - MIRO® reflector Deluxe (subject to minimum order) |
| PULLSWITC | - Pull switch device | OP | - Opal cover |
| EMG | - Emergency version 1 hour | PRZ | - Prismatic cover |
| EM2 | - Emergency version 2 hours | L | - Designed for in-line connection without gap (for OP/PRZ versions) |
| EM3 | - Emergency version 3 hours | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminal blocks |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminal blocks |
| MAT | - Matt reflector (subject to minimum order) | RAL | - Painted RAL colour |

DECOR D 224 M88 PAR



DECOR D 228 M89 PAR MAT

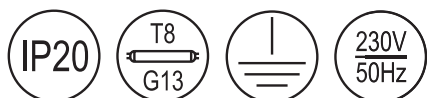




BATTENS

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 - male type or F - female 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Bora 118 A67	No reflector	1x18 (G13)	53x620x79	1	26
Bora 118 A68	Symmetrical white reflector	1x18 (G13)	173x620x79	1,4	26
Bora 118 A69	Asymmetrical white reflector	1x18 (G13)	113x620x150	1,2	26
Bora 136 A73	No reflector	1x36 (G13)	53x1230x79	1,3	42
Bora 136 A74	Symmetrical white reflector	1x36 (G13)	173x1230x79	2	42
Bora 136 A75	Asymmetrical white reflector	1x36 (G13)	113x1230x150	1,7	42
Bora 158 A79	No reflector	1x58 (G13)	53x1536x79	2,1	67
Bora 158 A80	Symmetrical white reflector	1x58 (G13)	173x1536x79	2,9	67
Bora 158 A81	Asymmetrical white reflector	1x58 (G13)	113x1536x150	2,5	67
Bora 218 A70	No reflector	2x18 (G13)	102x620x79	1	42
Bora 218 A71	Symmetrical white reflector	2x18 (G13)	173x620x79	1,4	42
Bora 218 A72	Asymmetrical white reflector	2x18 (G13)	138x620x150	1,2	42
Bora 236 A76	No reflector	2x36 (G13)	102x1230x79	1,9	84
Bora 236 A77	Symmetrical white reflector	2x36 (G13)	173x1230x79	2,9	84
Bora 236 A78	Asymmetrical white reflector	2x36 (G13)	138x1230x150	2,3	84
Bora 258 A82	No reflector	2x58 (G13)	102x1536x79	3,4	134
Bora 258 A83	Symmetrical white reflector	2x58 (G13)	173x1536x79	4,2	134
Bora 258 A84	Asymmetrical white reflector	2x58 (G13)	138x1536x150	3	134

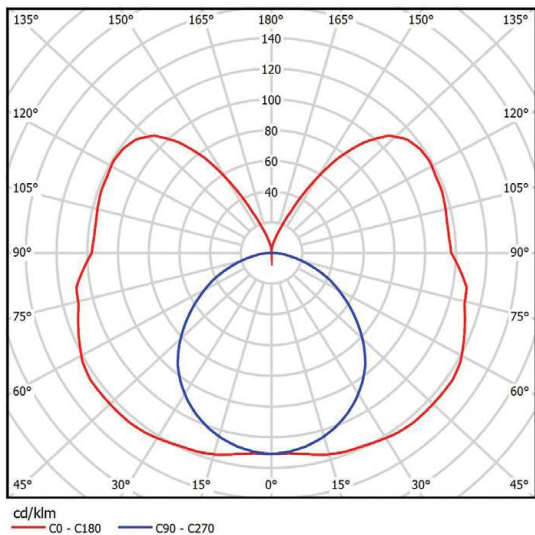
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Bora 118 A68 Deluxe	Symmetrical aluminum reflector	1x18 (G13)	170x620x95	1,3	26
Bora 136 A74 Deluxe	Symmetrical aluminum reflector	1x36 (G13)	170x1230x95	1,9	42
Bora 158 A80 Deluxe	Symmetrical aluminum reflector	1x58 (G13)	170x1536x95	2,8	67
Bora 218 A71 Deluxe	Symmetrical aluminum reflector	2x18 (G13)	170x620x95	1,3	42
Bora 236 A77 Deluxe	Symmetrical aluminum reflector	2x36 (G13)	170x1230x95	2,7	84
Bora 258 A83 Deluxe	Symmetrical aluminum reflector	2x58 (G13)	170x1536x95	4	134

Options available on request:

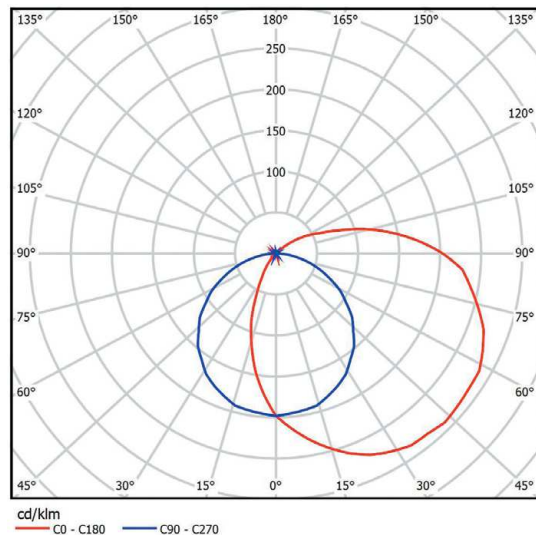
- HF – High Frequency control gear
- DALI – DALI ballast
- SWITCHDIM – Switch DIM ballast
- DIM – Dimmable ballast 1-10V
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- Deluxe – Symmetrical aluminum reflector
- 1LIN – Through wiring 3x1.5 mm² with 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 (*- male (M) and female (F) type)
- BR2 – Set of wall mounting brackets (2 pcs)
- 5TB – 5 way terminal block with two holes (for in and out going cable)
- WIE – 3- poles connector (subject to minimum order)
- NCP – Low Power Factor

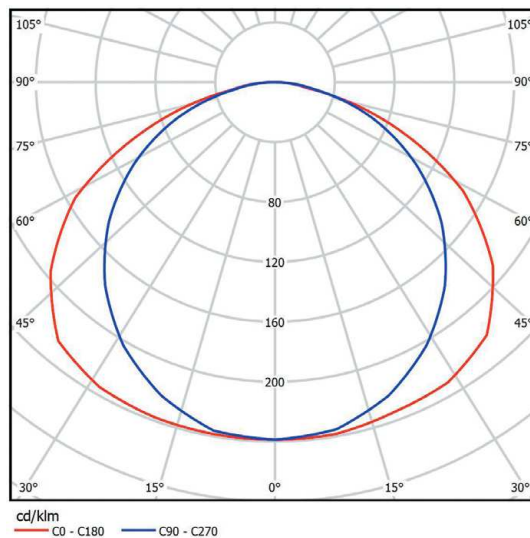
BORA 136 A73 HF



BORA 136 A75 HF

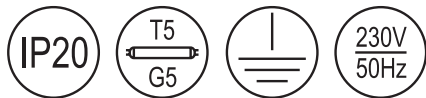


BORA 236 A77 DELUXE HF



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.



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



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



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

*- length of the flexcable

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

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Alcor 114 B46	No reflector	1x14 (G5)	45x575x64	0,5	16
Alcor 114 B47	Symmetrical white reflector	1x14 (G5)	137x575x79	1,1	16
Alcor 114 B48	Asymmetrical white reflector	1x14 (G5)	56x575x107	0,8	16
Alcor 124 I44	No reflector	1x24 (G5)	45x575x64	0,5	25
Alcor 124 I45	Symmetrical white reflector	1x24 (G5)	137x575x79	1,1	25
Alcor 124 I46	Asymmetrical white reflector	1x24 (G5)	56x575x107	0,8	25
Alcor 121 L70	No reflector	1x21 (G5)	45x875x64	0,7	23
Alcor 121 L71	Symmetrical white reflector	1x21 (G5)	137x875x79	1,5	23
Alcor 121 L72	Asymmetrical white reflector	1x21 (G5)	56x875x107	1,2	23
Alcor 139 L73	No reflector	1x39 (G5)	45x875x64	0,7	42
Alcor 139 L74	Symmetrical white reflector	1x39 (G5)	137x875x79	1,5	42
Alcor 139 L75	Asymmetrical white reflector	1x39 (G5)	56x875x107	1,2	42
Alcor 128 A55	No reflector	1x28 (G5)	45x1175x64	0,9	30
Alcor 128 A56	Symmetrical white reflector	1x28 (G5)	137x1175x79	1,8	30
Alcor 128 A57	Asymmetrical white reflector	1x28 (G5)	56x1175x107	1,4	30
Alcor 154 A61	No reflector	1x54 (G5)	45x1175x64	0,9	58
Alcor 154 A62	Symmetrical white reflector	1x54 (G5)	137x1175x79	1,8	58
Alcor 154 A63	Asymmetrical white reflector	1x54 (G5)	56x1175x107	1,4	58
Alcor 135 B09	No reflector	1x35 (G5)	45x1470x64	1,1	38
Alcor 135 B10	Symmetrical white reflector	1x35 (G5)	137x1470x79	2,2	38
Alcor 135 D24	Asymmetrical white reflector	1x35 (G5)	56x1470x107	1,8	38
Alcor 149 D25	No reflector	1x49 (G5)	45x1470x64	1,1	53
Alcor 149 D26	Symmetrical white reflector	1x49 (G5)	137x1470x79	2,2	53
Alcor 149 D27	Asymmetrical white reflector	1x49 (G5)	56x1470x107	1,8	53
Alcor 180 D28	No reflector	1x80 (G5)	45x1470x64	1,1	85
Alcor 180 D29	Symmetrical white reflector	1x80 (G5)	137x1470x79	2,2	85
Alcor 180 D30	Asymmetrical white reflector	1x80 (G5)	56x1470x107	1,8	85
Alcor 214 B49	No reflector	2x14 (G5)	70x575x64	0,6	31
Alcor 214 B50	Symmetrical white reflector	2x14 (G5)	137x575x79	1,2	31
Alcor 214 B51	Asymmetrical white reflector	2x14 (G5)	115x575x107	0,9	31
Alcor 224 I47	No reflector	2x24 (G5)	70x575x64	0,6	50
Alcor 224 I48	Symmetrical white reflector	2x24 (G5)	137x575x79	1,2	50
Alcor 224 I49	Asymmetrical white reflector	2x24 (G5)	115x575x107	0,9	50
Alcor 221 L76	No reflector	2x21 (G5)	70x875x64	0,8	45
Alcor 221 L77	Symmetrical white reflector	2x21 (G5)	137x875x79	1,6	45
Alcor 221 L78	Asymmetrical white reflector	2x21 (G5)	115x875x107	1,3	45
Alcor 239 L79	No reflector	1x39 (G5)	70x875x64	0,8	81
Alcor 239 L80	Symmetrical white reflector	1x39 (G5)	137x875x79	1,6	81
Alcor 239 L81	Asymmetrical white reflector	1x39 (G5)	115x875x107	1,3	81
Alcor 228 A58	No reflector	2x28 (G5)	70x1175x64	1	60
Alcor 228 A59	Symmetrical white reflector	2x28 (G5)	137x1175x79	1,9	60
Alcor 228 A60	Asymmetrical white reflector	2x28 (G5)	115x1175x107	1,5	60
Alcor 254 A64	No reflector	2x54 (G5)	70x1175x64	1	116
Alcor 254 A65	Symmetrical white reflector	2x54 (G5)	137x1175x79	1,9	116
Alcor 254 A66	Asymmetrical white reflector	2x54 (G5)	115x1175x107	1,5	116
Alcor 235 D31	No reflector	2x35 (G5)	70x1470x64	1,3	75
Alcor 235 D32	Symmetrical white reflector	2x35 (G5)	137x1470x79	2,4	75
Alcor 235 D33	Asymmetrical white reflector	2x35 (G5)	115x1470x107	2	75
Alcor 249 D34	No reflector	2x49 (G5)	70x1470x64	1,3	104
Alcor 249 D35	Symmetrical white reflector	2x49 (G5)	137x1470x79	2,4	104
Alcor 249 D36	Asymmetrical white reflector	2x49 (G5)	115x1470x107	2	104
Alcor 280 D37	No reflector	2x80 (G5)	70x1470x64	1,5	170

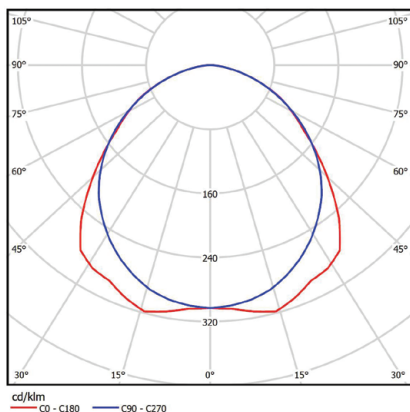
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Alcor 280 D38	Symmetrical white reflector	2x80 (G5)	137x1470x79	2,6	170
Alcor 280 D39	Asymmetrical white reflector	2x80 (G5)	115x1470x107	2,2	170

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Alcor 114 B47 Deluxe	Symmetrical aluminum reflector	1x14 (G5)	146x578x76	0,9	16
Alcor 124 I45 Deluxe	Symmetrical aluminum reflector	1x24 (G5)	146x578x76	0,9	25
Alcor 128 A56 Deluxe	Symmetrical aluminum reflector	1x28 (G5)	146x1178x76	1,6	30
Alcor 154 A62 Deluxe	Symmetrical aluminum reflector	1x54 (G5)	146x1178x76	1,6	58
Alcor 135 B10 Deluxe	Symmetrical aluminum reflector	1x35 (G5)	146x1473x76	2	38
Alcor 149 D26 Deluxe	Symmetrical aluminum reflector	1x49 (G5)	146x1473x76	2	53
Alcor 180 D29 Deluxe	Symmetrical aluminum reflector	1x80 (G5)	146x1473x76	2	85
Alcor 214 B50 Deluxe	Symmetrical aluminum reflector	2x14 (G5)	146x578x76	1	31
Alcor 224 I48 Deluxe	Symmetrical white reflector	2x24 (G5)	146x578x76	1	50
Alcor 228 A59 Deluxe	Symmetrical aluminum reflector	2x28 (G5)	146x1178x76	1,9	60
Alcor 254 A65 Deluxe	Symmetrical aluminum reflector	2x54 (G5)	146x1178x76	1,9	116
Alcor 235 D32 Deluxe	Symmetrical aluminum reflector	2x35 (G5)	146x1473x76	2,4	75
Alcor 249 D35 Deluxe	Symmetrical aluminum reflector	2x49 (G5)	146x1473x76	2,4	104
Alcor 280 D38 Deluxe	Symmetrical aluminum reflector	2x80 (G5)	146x1473x76	2,6	170

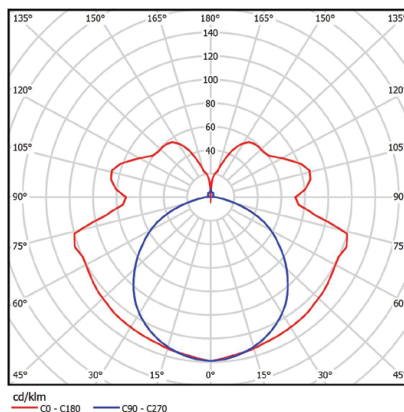
Options available on request:

DALI	– DALI ballast	*CBF3x1,5	– Outgoing flexcable 3x1,5mm ² ready for connection (*-length, m)
SWITCHDIM	– Switch DIM ballast		
DIM	– Dimmable ballast	*CBF5x1,5	– Outgoing flexcable 5x1,5mm ² ready for connection (*-length, m)
EMG	– Emergency version 1 hour		
EM2	– Emergency version 2 hours	*CBF3x2,5	– Outgoing flexcable 3x2,5mm ² ready for connection (*-length, m)
EM3	– Emergency version 3 hours		
Deluxel	– Symmetrical aluminum reflector	*CBF5x2,5	– Outgoing flexcable 5x2,5mm ² ready for connection (*-length, m)
1LIN	– Through wiring 3x1.5 mm ² with two push-in terminals	NAC31S.W	– ENSTO NET connector
3LIN	– Through wiring 5x1.5 mm ² with two push-in terminals	NAC32S.W	– ENSTO NET connector
		NAC51S.W	– ENSTO NET connector
1LIN2,5	– Through wiring 3x2.5 mm ² with two push-in terminals	NAC52S.W	– ENSTO NET connector
3LIN2,5	– Through wiring 5x2.5 mm ² with two push-in terminals	**CON3/5	– 3 or 5 poles connector (**- male (M) and female (F) type)
RAL	– Painted in RAL color	BR2	– Set of wall mounting brackets (2 pcs)
		5TB	– 5 way terminal block with two holes (for in and out going cable)
		NARROW	– Narrow beam reflector for high ceilings application (>8 meters)

ALCOR 228 A59 DELUXE



ALCOR 228 A58



HOLDER BR/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.

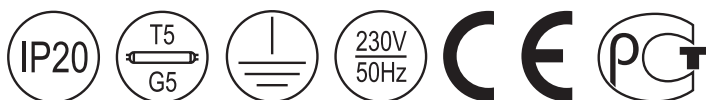
Installation: Designed to be fixed to walls of any type.



- BR** – Single piece wall mounting bracket (1pcs)
- 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.

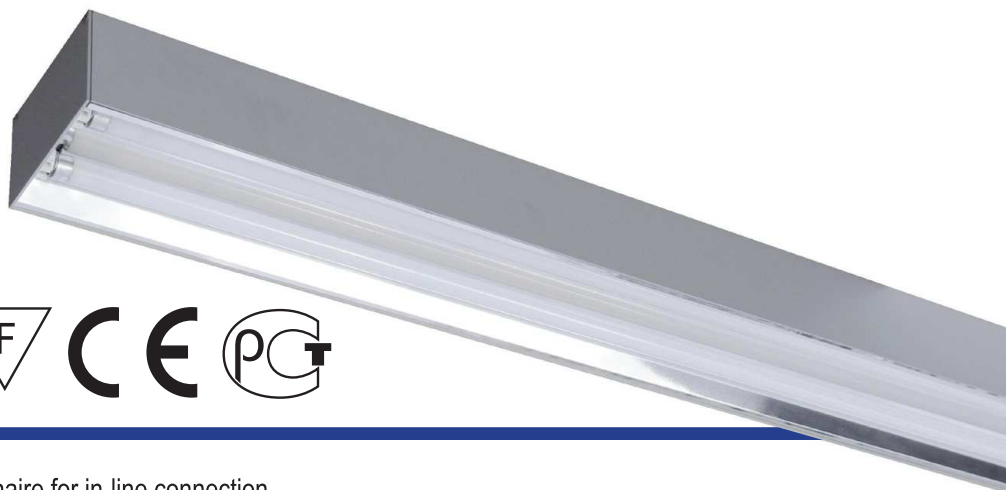
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Alcor 2x228 K18 Deluxe	2x2x28 (G5)	146x3000-2450x76	5,8	120
Alcor 2x254 K19 Deluxe	2x2x54 (G5)	146x3000-2450x76	5,8	232
Alcor 2x235 K20 Deluxe	2x2x35 (G5)	146x3600-3050x76	6,8	150
Alcor 2x249 K21 Deluxe	2x2x49 (G5)	146x3600-3050x76	6,8	208

Options available on request:

DALI	- DALI ballast	*CBF3x1,5	- Outgoing flexcable 3x1,5mm ² ready for connection (*-length, m)
SWITCHDIM	- Switch DIM ballast	*CBF5x1,5	- Outgoing flexcable 5x1,5mm ² ready for connection (*-length, m)
DIM	- Dimmable ballast 1-10V	*CBF3x2,5	- Outgoing flexcable 3x2,5mm ² ready for connection (*-length, m)
EMG	- Emergency version 1 hour	*CBF5x2,5	- Outgoing flexcable 5x2,5mm ² ready for connection (*-length, m)
EM2	- Emergency version 2 hours	NAC31S.W	- ENSTO NET connector
EM3	- Emergency version 3 hours	NAC32S.W	- ENSTO NET connector
Deluxe	- Symmetrical aluminum reflector	NAC51S.W	- ENSTO NET connector
1LIN	- Through wiring 3x1.5 mm ² with two push-in terminals	NAC52S.W	- ENSTO NET connector
3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals	**CON3/5	- 3 or 5 poles connector (**- male (M) and female (F) type)
1LIN2,5	- Through wiring 3x2.5 mm ² with two push-in terminals	5TB	- 5 way terminal block with two holes (for in and out going cable)
3LIN2,5	- Through wiring 5x2.5 mm ² with two push-in terminals		

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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Shop 114 N43	1x14 (G5)	110x576x70	1,40	15
Shop 124 N44	1x24 (G5)	110x576x70	1,40	25
Shop 128 N45	1x28 (G5)	110x1176x70	2,15	30
Shop 154 N48	1x54 (G5)	110x1176x70	2,15	58
Shop 135 N46	1x35 (G5)	110x1476x70	2,65	38
Shop 149 N47	1x49 (G5)	110x1476x70	2,65	53
Shop 180 N49	1x80 (G5)	110x1476x70	2,75	85
Shop 2x114 N50	2x1x14 (G5)	110x1151x70	2,80	30
Shop 2x124 N51	2x1x24 (G5)	110x1151x70	2,80	50
Shop 2x128 N52	2x1x28 (G5)	110x2351x70	4,3	60
Shop 2x154 N55	2x1x54 (G5)	110x2351x70	4,3	116
Shop 2x135 N53	2x1x35 (G5)	110x2951x70	5,3	76
Shop 2x149 N54	2x1x49 (G5)	110x2951x70	5,3	106
Shop 2x180 N56	2x1x80 (G5)	110x2951x70	5,5	170
Shop 214 N29	2x14 (G5)	110x576x70	1,40	31
Shop 224 N30	2x24 (G5)	110x576x70	1,40	49
Shop 228 N31	2x28 (G5)	110x1176x70	2,15	60
Shop 254 N34	2x54 (G5)	110x1176x70	2,15	116
Shop 235 N32	2x35 (G5)	110x1476x70	2,65	76
Shop 249 N33	2x49 (G5)	110x1476x70	2,65	105
Shop 280 N35	2x80 (G5)	110x1476x70	2,75	170
Shop 2x214 N36	2x2x14 (G5)	110x1151x70	2,80	62
Shop 2x224 N37	2x2x24 (G5)	110x1151x70	2,80	98
Shop 2x228 N38	2x2x28 (G5)	110x2351x70	4,3	120
Shop 2x254 N41	2x2x54 (G5)	110x2351x70	4,3	232
Shop 2x235 N39	2x2x35 (G5)	110x2951x70	5,3	152
Shop 2x249 N40	2x2x49 (G5)	110x2951x70	5,3	210
Shop 2x280 N42	2x2x80 (G5)	110x2951x70	5,5	340

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

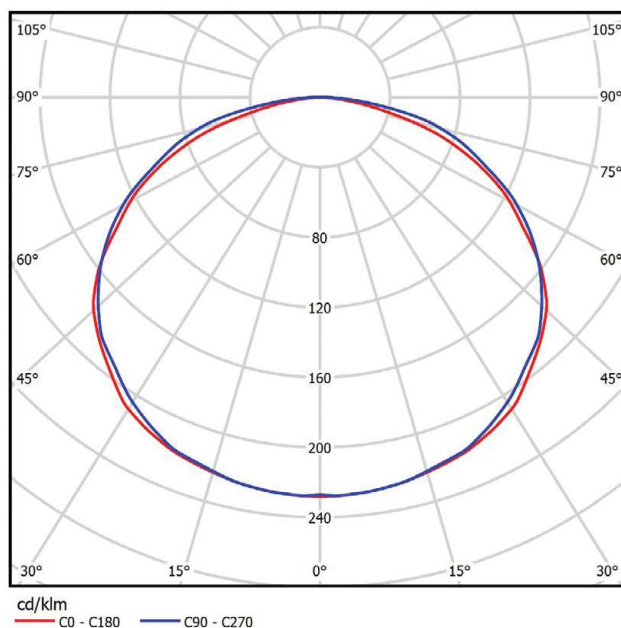


S-JOIN3 or S-JOIN6- Versions with 3 or 6 poles male/female type connectors are available on request. See Option list

Options available on request:

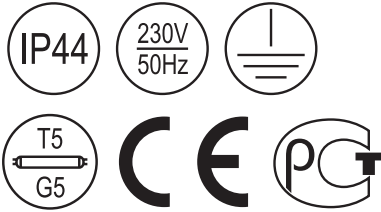
- | | | | |
|-----------|--|---------|---|
| DIM | - Dimmable ballast 1-10V | PAR | - Double parabolic reflector |
| SWITCHDIM | - Switch DIM ballast | MRO | - MIRO® reflector Deluxe (subject to minimum order) |
| DALI | - DALI ballast | L | - Designed for in-line connecting without gap |
| EMG | - Emergency version 1 hour | S-JOIN3 | - Version with 3 poles quick connector |
| EM2 | - Emergency version 2 hours | S-JOIN6 | - Version with 6 poles quick connector |
| EM3 | - Emergency version 3 hours | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminals |
| 4TB | - 4 way terminal block for loop feed and ease of wiring | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminals |
| 5TB | - 5 way terminal block with two holes (for in and out going cable) | 1LIN2,5 | - Through wiring 3x2.5 mm ² with two push-in terminals |
| MAT | - Matt reflector (subject to minimum order) | 3LIN2,5 | - Through wiring 5x2.5 mm ² with two push-in terminals |
| | | RAL | - Painted RAL colour |

SHOP 249 N33



AQUILA

IP44 Batten Luminaire



AQUILA 228 S93 Deluxe

Type: IP44 batten luminaire for use in retail and commercial applications where fire sprinkler system is installed.

Specification: Specular aluminum reflector (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.

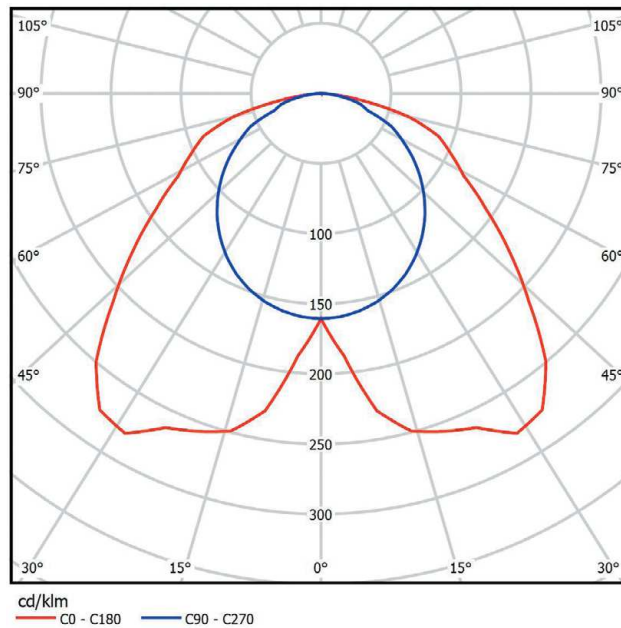
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Aquila 128 S83	No reflector	1x28 (G5)	55x1230x95	1,1	30
Aquila 154 S89	No reflector	1x54 (G5)	55x1230x95	1,1	58
Aquila 135 S85	No reflector	1x35 (G5)	55x1490x95	1,3	38
Aquila 149 S87	No reflector	1x49 (G5)	55x1490x95	1,3	53
Aquila 180 S91	No reflector	1x80 (G5)	55x1490x95	1,3	85
Aquila 228 S93	No reflector	2x28 (G5)	117x1190x95	1,2	60
Aquila 254 S99	No reflector	2x54 (G5)	117x1190x95	1,2	116
Aquila 235 S95	No reflector	2x35 (G5)	117x1490x95	1,4	75
Aquila 249 S97	No reflector	2x49 (G5)	117x1490x95	1,4	104
Aquila 280 T02	No reflector	2x80 (G5)	117x1490x95	1,5	170

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Aquila 128 S84 Deluxe	Symmetrical aluminum reflector	1x28 (G5)	173x1190x95	2,2	30
Aquila 154 S90 Deluxe	Symmetrical aluminum reflector	1x54 (G5)	173x1190x95	2,2	58
Aquila 135 S86 Deluxe	Symmetrical aluminum reflector	1x35 (G5)	173x1490x95	2,6	38
Aquila 149 S88 Deluxe	Symmetrical aluminum reflector	1x49 (G5)	173x1490x95	2,6	53
Aquila 180 S92 Deluxe	Symmetrical aluminum reflector	1x80 (G5)	173x1490x95	2,6	85
Aquila 228 S94 Deluxe	Symmetrical aluminum reflector	2x28 (G5)	173x1190x95	2,3	60
Aquila 254 T01 Deluxe	Symmetrical aluminum reflector	2x54 (G5)	173x1190x95	2,3	116
Aquila 235 S96 Deluxe	Symmetrical aluminum reflector	2x35 (G5)	173x1490x95	2,7	75
Aquila 249 S98 Deluxe	Symmetrical aluminum reflector	2x49 (G5)	173x1490x95	2,7	104
Aquila 280 T03 Deluxe	Symmetrical aluminum reflector	2x80 (G5)	173x1490x95	2,8	170

Options available on request:

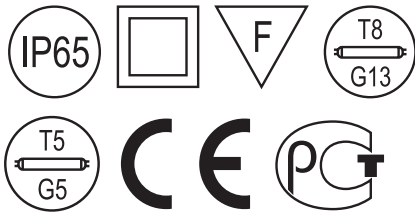
- | | | | |
|-----------|----------------------------------|---------|--|
| DALI | - DALI ballast | 1LIN | - Through wiring 3x1.5 mm ² with two push-in terminals |
| SWITCHDIM | - Switch DIM ballast | 3LIN | - Through wiring 5x1.5 mm ² with two push-in terminals |
| DIM | - Dimmable ballast | 1LIN2,5 | - Through wiring 3x2.5 mm ² with two push-in terminals |
| EMG | - Emergency version 1 hour | 3LIN2,5 | - Through wiring 5x2.5 mm ² with two push-in terminals |
| EM2 | - Emergency version 2 hours | RAL | - Painted in RAL color |
| EM3 | - Emergency version 3 hours | 5TB | - 5 way terminal block with two holes (for in and out going cable) |
| Deluxe | - Symmetrical aluminum reflector | NARROW | - Narrow beam reflector for high ceilings application (>8 meters) |

AQUILA 228 S94 DELUXE



NEGARA

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.

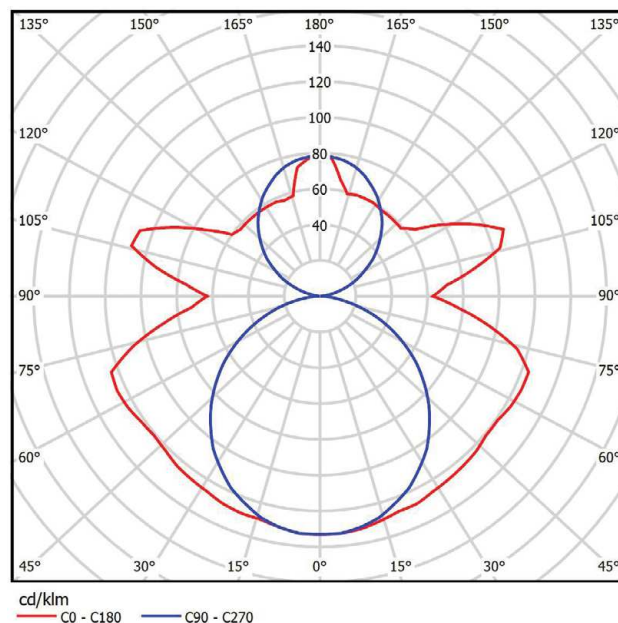
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Negara 118 H01	1x18 (G13)	66x661x115	1,25	26
Negara 136 H03	1x36 (G13)	66x1271x115	1,8	42
Negara 158 H05	1x58 (G13)	66x1571x115	2,3	67
Negara 218 H02	2x18 (G13)	117x661x115	1,35	42
Negara 236 H04	2x36 (G13)	117x1271x115	2,6	84
Negara 258 H06	2x58 (G13)	117x1571x115	3,35	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Negara 114 L82	1x14 (G5)	66x661x115	1	15
Negara 124 L83	1x24 (G5)	66x661x115	1	25
Negara 128 L84	1x28 (G5)	66x1271x115	1,7	30
Negara 154 L87	1x54 (G5)	66x1271x115	1,7	58
Negara 135 L85	1x35 (G5)	66x1571x115	2,1	38
Negara 149 L86	1x49 (G5)	66x1571x115	2,1	53
Negara 180 L88	1x80 (G5)	66x1571x115	2,1	85
Negara 214 L89	2x14 (G5)	117x661x115	1,1	31
Negara 224 L90	2x24 (G5)	117x661x115	1,1	50
Negara 228 L91	2x28 (G5)	117x1271x115	1,8	60
Negara 254 L94	2x54 (G5)	117x1271x115	1,8	116
Negara 235 L92	2x35 (G5)	117x1571x115	2,2	75
Negara 249 L93	2x49 (G5)	117x1571x115	2,2	104
Negara 280 L95	2x80 (G5)	117x1571x115	2,2	170

Options available on request:

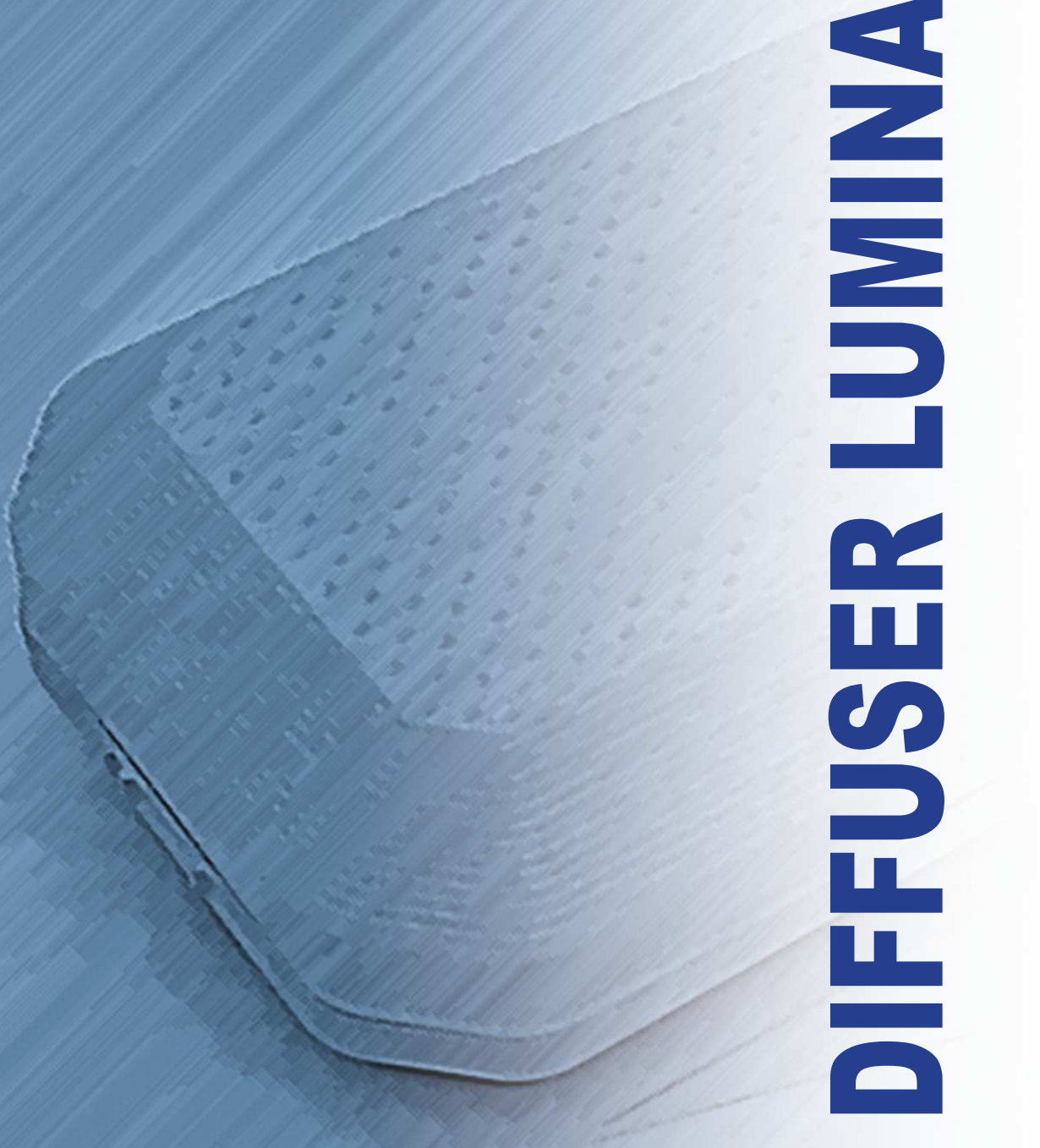
DALI	- DALI ballast	5TB	- 5 way terminal block with two holes
SWITCHDIM	- Switch DIM ballast	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminals
DIM	- Dimmable ballast 1-10V	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals
EMG	- Emergency version 1 hour	1LIN2,5	- Through wiring 3x2.5 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
EM3	- Emergency version 3 hours	*CBF3x1,5	- Outgoing flexcable 3x1,5mm ² ready for connection (*-length, m)
TUBE	- PMMA protection tube	*CBF5x1,5	- Outgoing flexcable 5x1,5mm ² ready for connection (*-length, m)
RFL	- White symmetrical reflector	*CBF3x2,5	- Outgoing flexcable 3x2,5mm ² ready for connection (*-length, m)
SPORT	- White painted protection grid	*CBF5x2,5	- Outgoing flexcable 5x2,5mm ² ready for connection (*-length, m)
Deluxe	- Symmetrical aluminum reflector		

NEGARA 236 H04 HF



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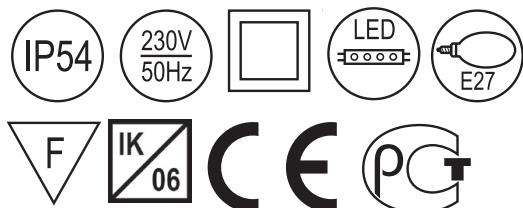
DIFFUSER LUMINAIRES



www.northcliffe.org

PUPIS

IP54 Oval Luminaire



Pupis 1E27 J45 GST



Pupis LED1x330 B247 T830 OP ECO

Type: Surface-mounted luminaire with oval profile.

Specification: Transparent or frosted 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 holder	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	-

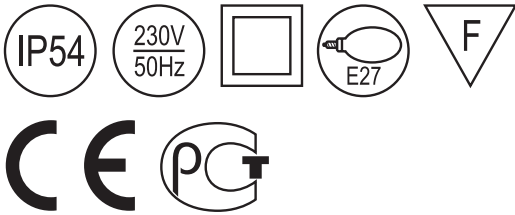
Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Pupis LED1x330 B247 T830 OP ECO	IP54	170x125x115	330	3000	>80	5	0,5
Pupis LED1x500 B218 T840 OP	IP54	170x125x115	500	4000	>80	5	0,5

Options available on request:

GST	-	Chrome plated steel grid	T840	-	Color temperature 4000K
OP	-	Frosted glass diffuser	T857	-	Color temperature 5700K
T830	-	Color temperature 3000K			

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 holder	IP level	Overall dimensions, mm	Weight, kg	Total wattage, W
Sauna RO 1E27 N21 OP	Round	max.40W (E27)	IP54	Ø245x105	0,95	-
Sauna RO 1E27 N21 GST OP	Round	max.40W (E27)	IP54	Ø245x105	0,95	-
Sauna OV 1E27 N22 GST	Oval	max.40W (E27)	IP54	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/OP

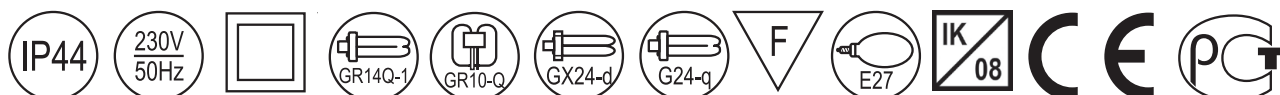
IP44 Rounded Profile Luminaire



Circus 1E27 J49 CAP OP



Circus 1E27 J49 CAP CLR



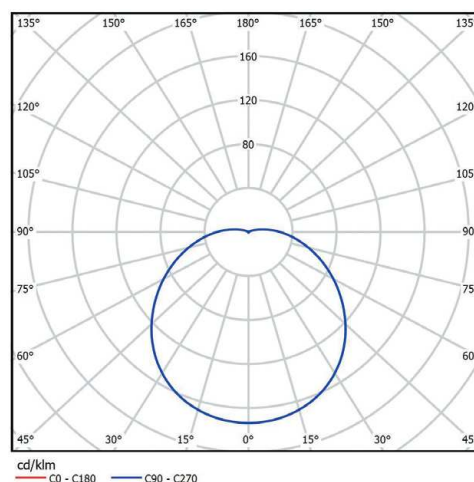
- Type:** Surface-mounted fluorescent luminaire with rounded profile.
- Specification:** Transparent or frosted glass IP44 diffuser with quick fix lock.
White thermoplastic body with aluminum reflector.
Luminaire is boxed 5 pcs/box.
- Installation:** Designed to be fixed onto ceilings or walls of any type, including flammable surfaces.
- Application:** Ideal for common areas in hospitals, colleges and other similar institutions.

Type	Lamp (W) and holder	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 1-10V
- DALI – DALI ballast
- OP – Frosted glass diffuser
- CLR – Clear glass diffuser
- MW – MW sensor
- 5TB – 5 way terminal block for loop feed and ease of wiring
- NCP – Low Power Factor

CIRCUS 118 J50 CAP OP HF



CIRCUS OP/CLR

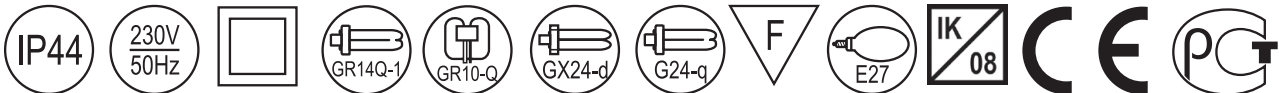
IP44 Rounded Profile
Luminaire



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 holder	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	CLR	-	Clear glass diffuser
DIM	-	Dimmable ballast 1-10V	MW	-	MW sensor
DALI	-	DALI ballast	5TB	-	5 way terminal block for loop feed and ease of wiring
OP	-	Frosted glass diffuser	NCP	-	Low Power Factor

CETUS CAP CLR/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 holder	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	5TB	-	5 way terminal block for loop feed and ease of wiring
DIM	-	Dimmable ballast 1-10V	NCP	-	Low Power Factor
DALI	-	DALI ballast	T830	-	Color temperature 3000K
OP	-	Frosted glass diffuser	T840	-	Color temperature 4000K
CLR	-	Clear glass diffuser	T857	-	Color temperature 5700K
MW	-	MW sensor			

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Cetus LED1x660 B248 T830 CAP OP ECO	IP44	Ø245x95	660	3000	>80	9	1,1
Cetus LED1x1050 B108 T840 OP	IP44	Ø245x95	1050	4000	>80	11	1,1
Cetus LED1x1300 B449 T840 OP	IP44	Ø245x95	1300	4000	>80	13	1,1

CETUS OP/CLR

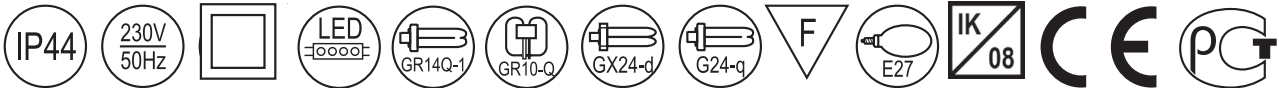
IP44 Rounded Profile Luminaire



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 holder	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

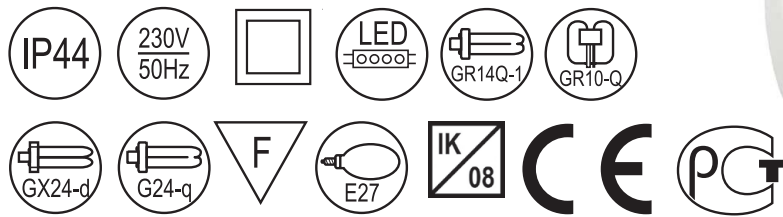
Options available on request:

HF	- High Frequency control gear	5TB	- 5 way terminal block for loop feed and ease of wiring
DIM	- Dimmable ballast 1-10V	NCP	- Low Power Factor
DALI	- DALI ballast	T830	- Color temperature 3000K
OP	- Frosted glass diffuser	T840	- Color temperature 4000K
CLR	- Clear glass diffuser	T857	- Color temperature 5700K
MW	- MW sensor		

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Cetus LED1x660 B248 T830 OP ECO	IP44	Ø245x85	660	3000	>80	9	1,1
Cetus LED1x1050 B108 T840 OP	IP44	Ø245x85	1050	4000	>80	11	1,1
Cetus LED1x1300 B449 T840 OP	IP44	Ø245x85	1300	4000	>80	13	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.

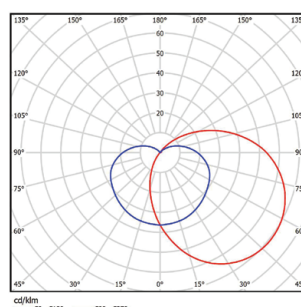
Type	Lamp (W) and holder	IP level	Overall dimensions, mm	Weight, kg	Total wattage, W
Musca 1E27 J55 OP	max. 100W (E27)	IP44	Ø245x90	0,8	max. 100W
Musca 209 M22 OP	2x9 (TC-S, G23)	IP44	Ø245x90	1,2	32
Musca 113 J56 OP	1x13 (G24d-1)	IP44	Ø245x90	1,2	19
Musca 118 J57 OP	1x18 (G24d-2)	IP44	Ø245x90	1,25	26
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	5TB	- 5 way terminal block for loop feed and ease of wiring
DIM	- Dimmable ballast 1-10V	NCP	- Low Power Factor
DALI	- DALI ballast	T830	- Color temperature 3000K
OP	- Frosted glass diffuser	T840	- Color temperature 4000K
CLR	- Clear glass diffuser	T857	- Color temperature 5700K
MW	- MW sensor		

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Musca LED1x660 B451 T830 OP ECO	IP44	Ø245x90	660	3000	>80	9	1,1
Musca LED1x1050 B180 T840 OP	IP44	Ø245x90	1050	4000	>80	11	1,1
Musca LED1x1300 B452 T840 OP	IP44	Ø245x90	1300	4000	>80	13	1,1

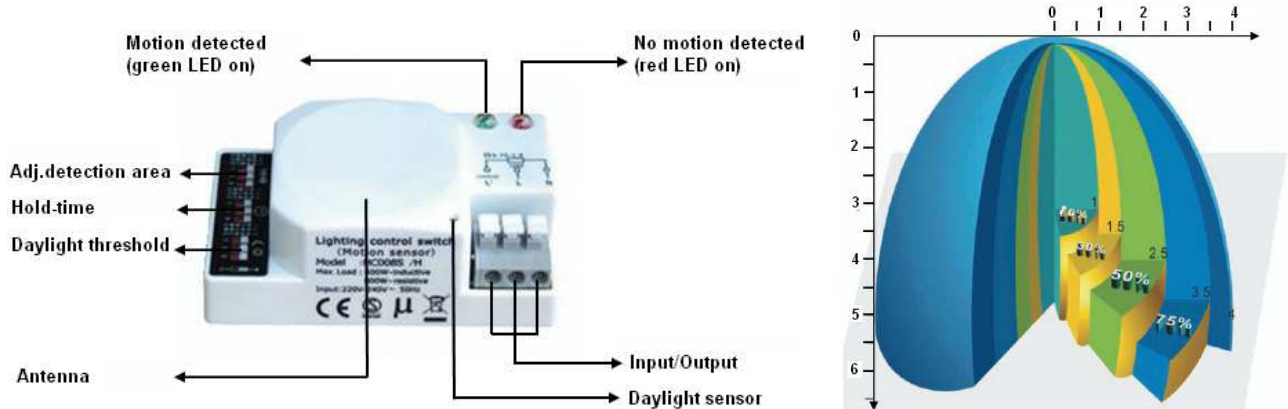
MUSCA 118 J57 OP HF



NORTHCLIFFE

MAKING LIFE BRIGHTER

MW (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°C ~ +60°C
- Max mounting height 5m
- Compact size
- 50 000 service hours

Applications with a plastic diffuser luminaires



NORTHCLIFFE

MAKING LIFE BRIGHTER

MW fittings illustrations



Slim indoor use fitting INDUS equipped with MW sensor



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

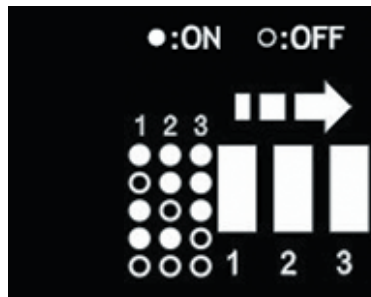
Functions and options

A: switch on/off function

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

B: detection area

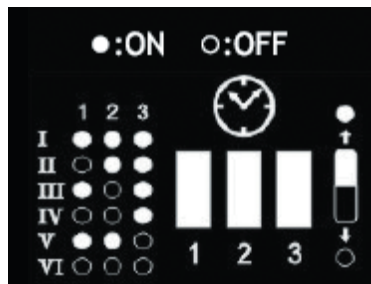
Detection area can be adjusted by selecting combination of DIP switches to fit precisely for each specific application.



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

C: hold-time

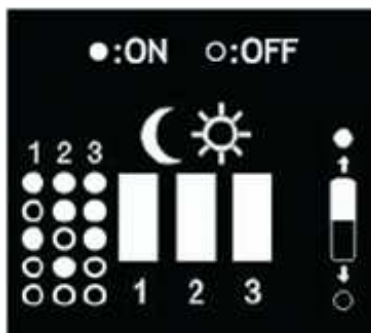
Hold time means the time period for which lamp should be kept on 100% after moving object has left detection area.



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

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	●	●	●	2Lux
II	○	●	●	5Lux
III	●	○	●	20Lux
IV	○	●	○	30Lux
V	○	○	○	Disable

Disabled means sensor will work even in bright daylight

NORTHCLIFFE

MAKING LIFE BRIGHTER

MW IP65 sensor enclosure can be used with high mounted luminaires



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



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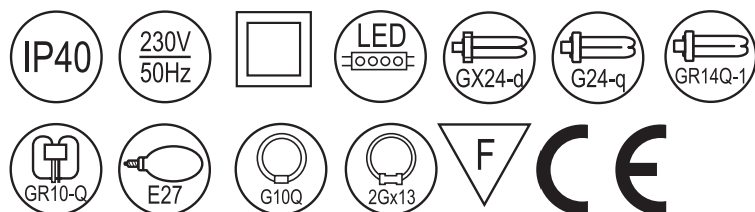


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PAVO

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.

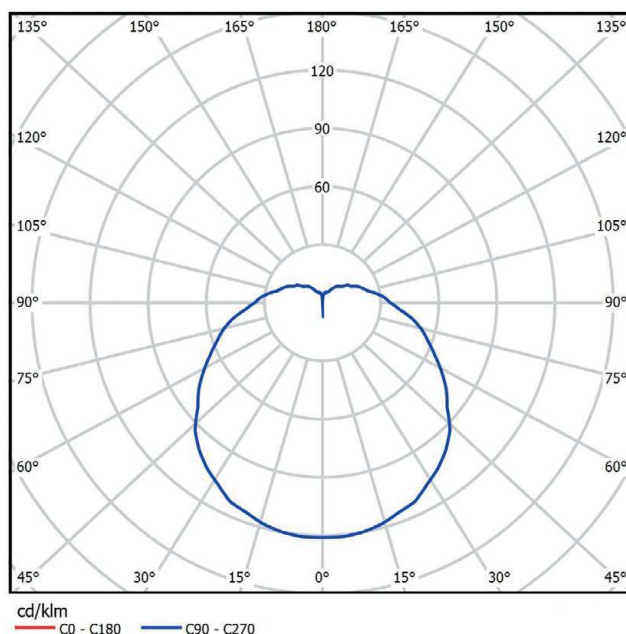
Type	Lamp (W) and holder	IP level	Overall dimensions, mm	Weight, kg	Total wattage, W
Pavo 1E27 J34	max. 20W (E27)	IP40	Ø275x105	0,8	-
Pavo 209 M42	2x9 (TC-S, G23)	IP40	Ø275x105	1,1	32
Pavo 113 M46	1x13 (G24d-1)	IP40	Ø275x105	1,1	19
Pavo 118 J35	1x18 (G24d-2)	IP40	Ø275x105	1,1	26
Pavo 126 J36	1x26 (G24d-3)	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 1-10V
- 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
- MW – MW sensor
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

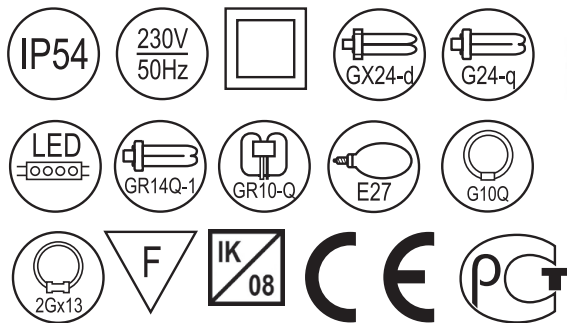
Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Pavo LED1x660 B607 T830 ECO	IP40	Ø275x105	660	3000	>80	9	1
Pavo LED1x1050 B181	IP40	Ø275x105	1050	4000	>80	11	1
Pavo LED1x1300 B182	IP40	Ø275x105	1300	4000	>80	13	1
Pavo LED1x1800 B465	IP40	Ø275x105	1800	4000	>80	18	1
Pavo LED1x1120 B608 T830 ECO	IP40	Ø375x115	1120	3000	>80	18	1,4
Pavo LED1x2400 B466	IP40	Ø375x115	2400	4000	>80	24	1,4

PAVO 218 M44 HF



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 holder	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:

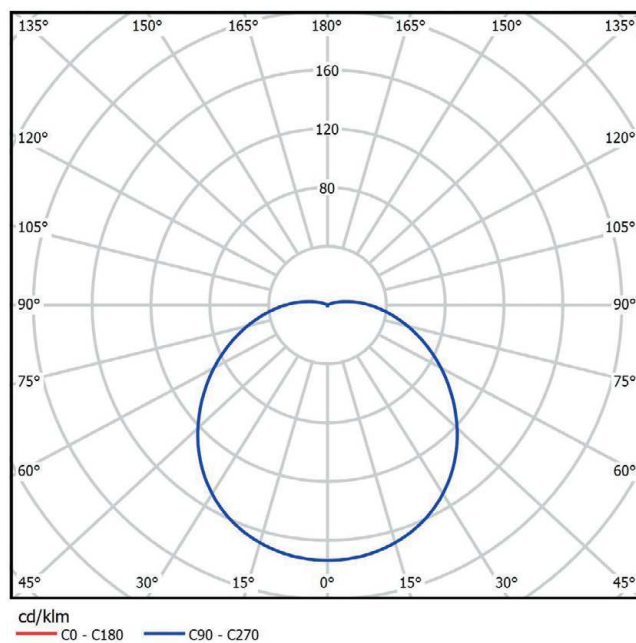
HF	- High Frequency control gear	5TB	- 5 way terminal block for loop feed and ease of wiring
DIM	- Dimmable ballast 1-10V	NCP	- Low Power Factor
SWITCHDIM	- Switch DIM ballast	MW	- MW sensor
DALI	- DALI ballast	T830	- Color temperature 3000K
EMG	- Emergency version 1 hour	T840	- Color temperature 4000K
EM2	- Emergency version 2 hours	T857	- Color temperature 5700K
EM3	- Emergency version 3 hours		



INDUS LED1X1050 B183 T840 MW

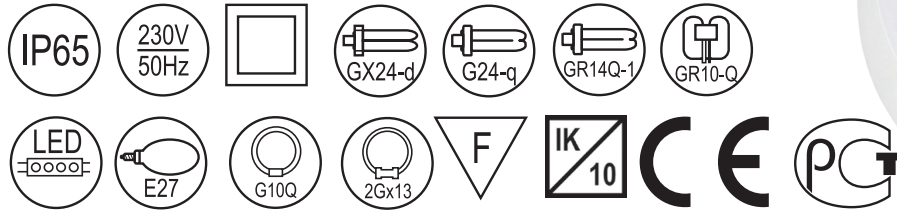
Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Indus LED1x660 B249 T830 ECO	IP54	Ø300x120	660	3000	>80	9	1
Indus LED1x1120 B453 T830 ECO	IP54	Ø300x120	1120	3000	>80	18	1
Indus LED1x1050 B183 T840	IP54	Ø300x120	1050	4000	>80	11	1
Indus LED1x1300 B184 T840	IP54	Ø300x120	1300	4000	>80	13	1
Indus LED1x1800 B454 T840	IP54	Ø300x120	1800	4000	>80	18	1
Indus LED1x2400 B455 T840	IP54	Ø300x120	2400	4000	>80	24	1,2

INDUS 218 M29 HF



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 holder	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:

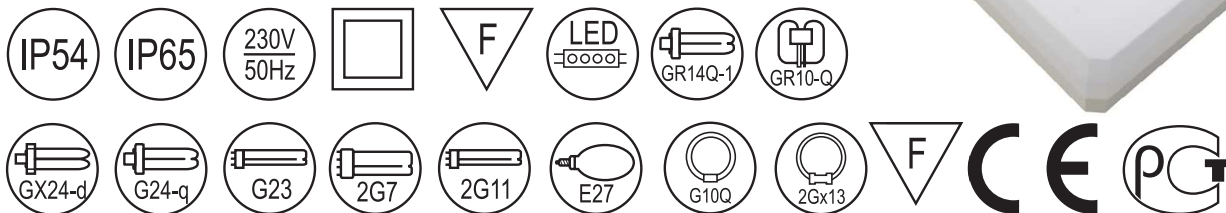
HF	- High Frequency control gear	EM3	- Emergency version 3 hours
DIM	- Dimmable ballast	NCP	- Low Power Factor
SWITCHDIM	- Switch DIM ballast	MW	- MW sensor
DALI	- DALI ballast	T830	- Color temperature 3000K
EMG	- Emergency version 1 hour	T840	- Color temperature 4000K
EM2	- Emergency version 2 hours	T857	- Color temperature 5700K

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Columba LED1x1120 B456 T830 ECO	IP65	Ø335x130	1120	3000	>80	18	1,2
Columba LED1x1050 B185 T840	IP65	Ø335x130	1050	4000	>80	11	1,2
Columba LED1x1300 B186 T840	IP65	Ø335x130	1300	4000	>80	13	1,2
Columba LED1x1800 B457 T840	IP65	Ø335x130	1800	4000	>80	18	1,2
Columba LED1x2400 B458 T840	IP65	Ø335x130	2400	4000	>80	24	1,4

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 holder	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

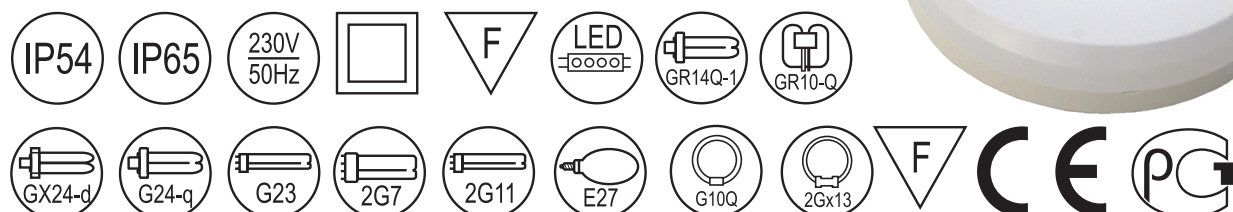
Options available on request:

HF	- High Frequency control gear	5TB	- 5 way terminal block for loop feed and ease of wiring
SWITCHDIM	- Switch DIM ballast		
DIM	- Dimmable ballast 1-10V	NCP	- Low Power Factor
DALI	- DALI ballast	PC	- Polycarbonate diffuser
EMG	- Emergency version 1 hour	MW	- MW sensor
EM2	- Emergency version 2 hours	T830	- Color temperature 3000K
EM3	- Emergency version 3 hours	T840	- Color temperature 4000K
4TB	- 4 way terminal block for loop feed and ease of wiring	T857	- Color temperature 5700K

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Dorado LED1x1050 B110 T840	IP54	200x200x58	1050	4000	>80	11	1
Dorado LED1x1300 B460 T840	IP54	200x200x58	1300	4000	>80	13	1
Dorado B LED1x1050 B111 T840	IP65	300x300x83	1050	4000	>80	11	1,7
Dorado B LED1x1300 B461 T840	IP65	300x300x83	1300	4000	>80	13	1,7
Dorado B LED1x1800 B462 T840	IP65	300x300x83	1800	4000	>80	18	1,7
Dorado B LED1x2400 B463 T840	IP65	300x300x83	2400	4000	>80	24	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 holder	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

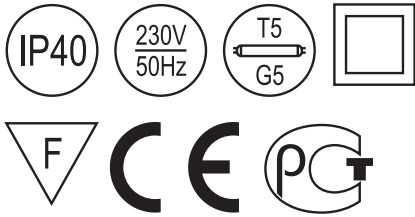
Options available on request:

HF	- High Frequency control gear	5TB	- 5 way terminal block for loop feed and ease of wiring
SWITCHDIM	- Switch DIM ballast	NCP	- Low Power Factor
DIM	- Dimmable ballast 1-10V	PC	- Polycarbonate diffuser
DALI	- DALI ballast	MW	- MW sensor
EMG	- Emergency version 1 hour	T830	- Color temperature 3000K
EM2	- Emergency version 2 hours	T840	- Color temperature 4000K
EM3	- Emergency version 3 hours	T857	- Color temperature 5700K
4TB	- 4 way terminal block for loop feed and ease of wiring		

Type	IP level	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Pollux LED1x1050 B109 T840	IP54	Ø260x58	1050	4000	>80	11	1
Pollux LED1x1300 B464 T840	IP54	Ø260x58	1300	4000	>80	13	1

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.

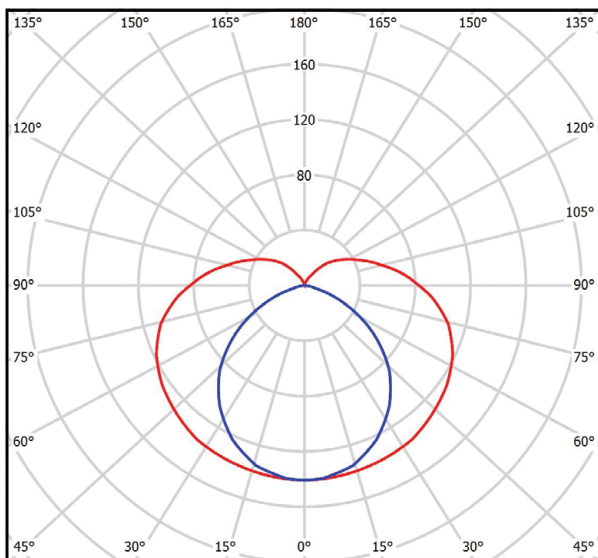
Application: Ideal for industrial, retail, furniture and education applications.



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 holder	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

CABINET 128 O09



cd/klm
— C0 - C180 — C90 - C270

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.

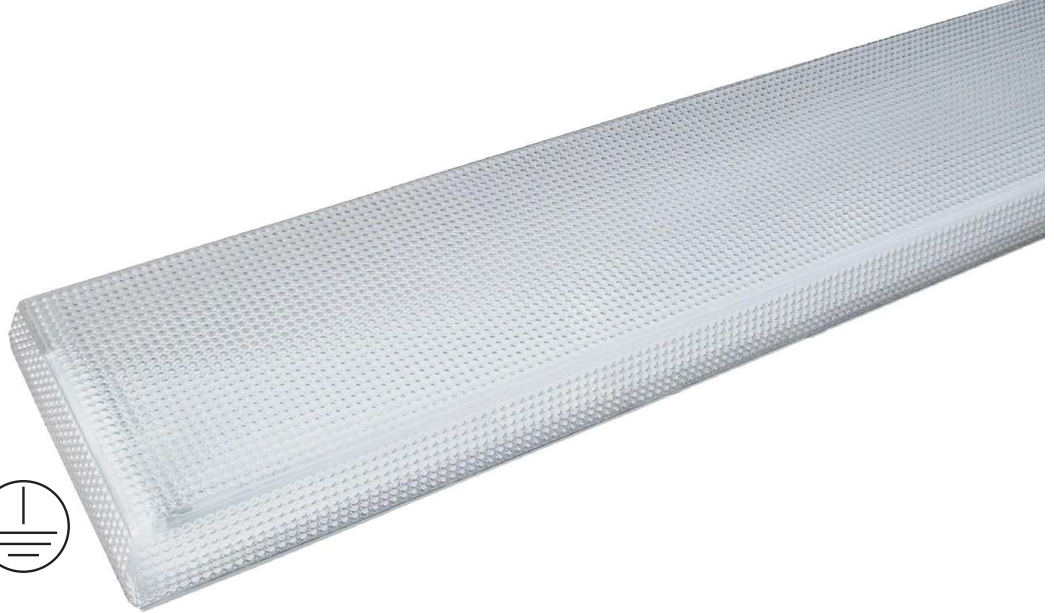
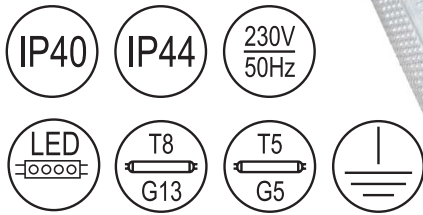
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Coma 118 Q35	1x18 (G13)	65x765x85	1,2	26
Coma 130 Q36	1x30 (G13)	65x1060x85	1,6	36
Coma 136 Q37	1x36 (G13)	65x1365x85	2	42

Options available on request:

HF	– High Frequency control gear	EMG	– Emergency version 1 hour
DIM	– Dimmable ballast 1-10V	EM2	– Emergency version 2 hours
SWITCHDIM	– Switch DIM ballast	EM3	– Emergency version 3 hours
DALI	– DALI ballast	5TB	– 5 way terminal block for loop feed and ease of wiring

EUROS

Surface Plastic Luminaire



EUROS 158 H11 OP HF



EUROS 236 H10 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.

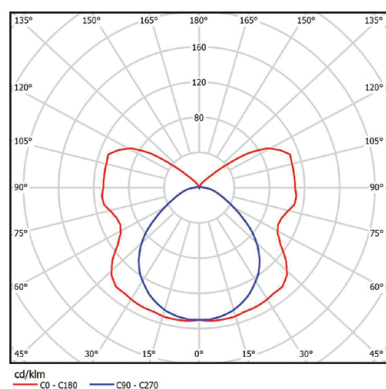


Version with an aluminum reflector inside can be made on request. See option list for detailed information (PAR).

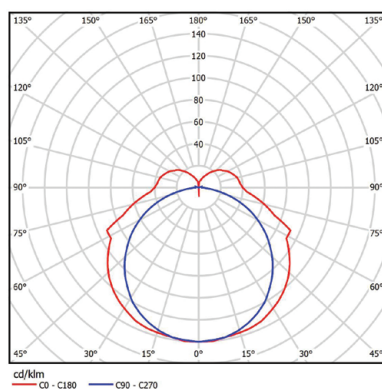
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Euros 118 H07	1x18 (G13)	110x665x65	1,2	26
Euros 218 H08	2x18 (G13)	195x665x65	1,7	42
Euros 418 T09	4x18 (G13)	665x665x65	4,5	84
Euros 136 H09	1x36 (G13)	110x1270x65	2	42
Euros 236 H10	2x36 (G13)	195x1270x65	3,3	84
Euros 336 T10	3x36 (G13)	295x 270x65	5,1	126
Euros 436 T11	4x36 (G13)	295x1270x65	5,5	168
Euros 158 H11	1x58 (G13)	110x1570x65	2,7	67
Euros 258 H12	2x58 (G13)	195x1570x65	4,5	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Euros 114 H13	1x14 (G5)	110x665x65	0,9	16
Euros 214 H14	2x14 (G5)	195x665x65	1,3	31
Euros 124 H15	1x24 (G5)	110x 665x65	0,9	25
Euros 224 H16	2x24 (G5)	195x665x65	1,3	49
Euros 414 S15	4x14 (G5)	665x665x65	3,8	62
Euros 424 S16	4x24 (G5)	665x665x65	3,9	98
Euros 128 H17	1x28 (G5)	110x1270x65	1,7	30
Euros 228 H18	2x28 (G5)	195x1270x65	2,4	60
Euros 154 H23	1x54 (G5)	110x1270x65	1,7	58
Euros 254 H24	2x54 (G5)	195x1270x65	2,4	116
Euros 328 T12	3x28 (G5)	295x1270x65	4,1	90
Euros 354 T13	3x54 (G5)	295x1270x65	4,1	174
Euros 428 T14	4x28 (G5)	295x1270x65	4,1	232
Euros 135 H19	1x35 (G5)	110x1570x65	2	38
Euros 235 H20	2x35 (G5)	195x1570x65	2,8	76
Euros 149 H21	1x49 (G5)	110x1570x65	2	53
Euros 249 H22	2x49 (G5)	195x1570x65	2,8	105
Euros 180 H25	1x80 (G5)	110x1570x65	2	85
Euros 280 H26	2x80 (G5)	195x1570x65	3,2	170

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 LED1x1250 B112 T840 OP	110x665x65	1250	4000	>80	13	1,1
Euros LED1x1700 B470 T840 OP	110x665x65	1700	4000	>80	17	1,1
Euros LED1x2250 B471 T840 OP	110x665x65	2250	4000	>80	22	1,1
Euros LED2x1250 B113 T840 OP	195x665x65	2500	4000	>80	25	1,5
Euros LED2x1700 B472 T840 OP	195x665x65	3400	4000	>80	34	1,5
Euros LED2x2250 B473 T840 OP	195x665x65	4500	4000	>80	44	1,5
Euros LED3x1250 B529 T840 OP	665x665x65	3750	4000	>80	37	4,3
Euros LED3x1700 B530 T840 OP	665x665x65	5100	4000	>80	50	4,3
Euros LED3x2250 B531 T840 OP	665x665x65	6750	4000	>80	66	4,3
Euros LED4x1250 B532 T840 OP	665x665x65	5000	4000	>80	49	4,3
Euros LED4x1700 B533 T840 OP	665x665x65	6800	4000	>80	67	4,3
Euros LED4x2250 B534 T840 OP	665x665x65	9000	4000	>80	88	4,3
Euros LED1x2500 B114 T840 OP	110x1270x65	2500	4000	>80	25	2
Euros LED1x3400 B474 T840 OP	110x1270x65	3400	4000	>80	34	2
Euros LED1x4500 B475 T840 OP	110x1270x65	4500	4000	>80	44	2
Euros LED2x2500 B115 T840 OP	195x1270x65	5000	4000	>80	49	2,6

Euros LED2x3400 B476 T840 OP	195x1270x65	6800	4000	>80	67	2,6
Euros LED2x4500 B477 T840 OP	195x1270x65	9000	4000	>80	88	2,6
Euros LED3x2500 B535 T840 OP	295x1270x65	7500	4000	>80	74	4,5
Euros LED3x3400 B536 T840 OP	295x1270x65	10200	4000	>80	100	4,5
Euros LED3x4500 B537 T840 OP	295x1270x65	13500	4000	>80	132	4,5
Euros LED1x3150 B116 T840 OP	110x1570x65	3150	4000	>80	31	2,2
Euros LED1x4200 B478 T840 OP	110x1570x65	4200	4000	>80	41	2,2
Euros LED1x5700 B479 T840 OP	110x1570x65	5700	4000	>80	56	2,2
Euros LED2x3150 B117 T840 OP	195x1570x65	6300	4000	>80	62	3,4
Euros LED2x4200 B480 T840 OP	195x1570x65	8400	4000	>80	82	3,4
Euros LED2x5700 B481 T840 OP	195x1570x65	11400	4000	>80	112	3,4

Options available on request:

PRZ	- Prismatic diffuser	5TB	- 5 way terminal block for loop feed and ease of wiring
OP	- Diffuser in opal execution	NCP	- Low Power Factor
HF	- High Frequency control gear	SPORT	- White painted protection grid
DIM	- Dimmable ballast 1-10V	IP44	- Protection level
SWITCHDIM	- Switch DIM ballast	PAR	- Aluminum reflector inside
DALI	- DALI ballast	T830	- Color temperature 3000K
EMG	- Emergency version 1 hour	T840	- Color temperature 4000K
		T857	- Color temperature 5700K

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.

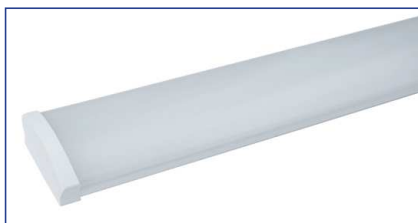
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Star 236 O01 PRZ	2x36 (G13)	155x1250x65	3	84
Star 236 O01 PRZ HF	2x36 (G13)	155x1250x65	2,1	71

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- 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.



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

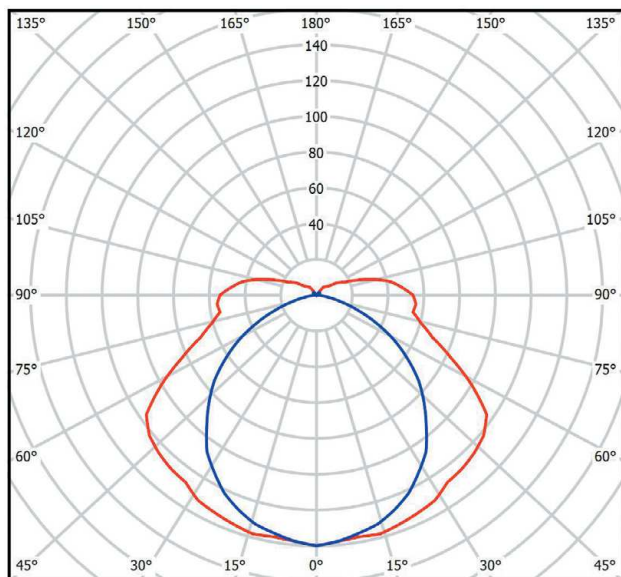
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Carina 114 O51 PRZ	1x14 (G5)	90x595x85	0,9	16
Carina 214 O52 PRZ	2x14 (G5)	150x595x60	1,3	31
Carina 124 O53 PRZ	1x24 (G5)	90x595x85	0,9	25
Carina 224 O54 PRZ	2x24 (G5)	150x595x60	1,3	49
Carina 128 O55 PRZ	1x28(G5)	90x1195x85	1,7	30
Carina 228 O56 PRZ	2x28 (G5)	150x1195x60	2,4	60
Carina 154 O57 PRZ	1x54(G5)	90x1195x85	1,7	58
Carina 254 O58 PRZ	2x54 (G5)	150x1195x60	2,4	116
Carina 135 O59 PRZ	1x35 (G5)	90x1495x85	2	38
Carina 235 O60 PRZ	2x35 (G5)	150x1495x60	2,8	76
Carina 149 O61 PRZ	1x49(G5)	90x1495x85	2	53
Carina 249 O62 PRZ	2x49 (G5)	150x1495x60	2,8	105
Carina 180 O73 PRZ	1x80 (G5)	90x1495x85	2,1	85

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Carina 114 O51 OP	1x14 (G5)	90x595x85	0,9	16
Carina 214 O52 OP	2x14 (G5)	150x595x60	1,3	31
Carina 124 O53 OP	1x24 (G5)	90x595x85	0,9	25
Carina 224 O54 OP	2x24 (G5)	150x595x60	1,3	49
Carina 128 O55 OP	1x28(G5)	90x1195x85	1,7	30
Carina 228 O56 OP	2x28 (G5)	150x1195x60	2,4	60
Carina 154 O57 OP	1x54(G5)	90x1195x85	1,7	58
Carina 254 O58 OP	2x54 (G5)	150x1195x60	2,4	116
Carina 135 O59 OP	1x35 (G5)	90x1495x85	2	38
Carina 235 O60 OP	2x35 (G5)	150x1495x60	2,8	76
Carina 149 O61 OP	1x49(G5)	90x1495x85	2	53
Carina 249 O62 OP	2x49 (G5)	150x1495x60	2,8	105
Carina 180 O73 OP	1x80 (G5)	90x1495x85	2,1	85

Options available on request:

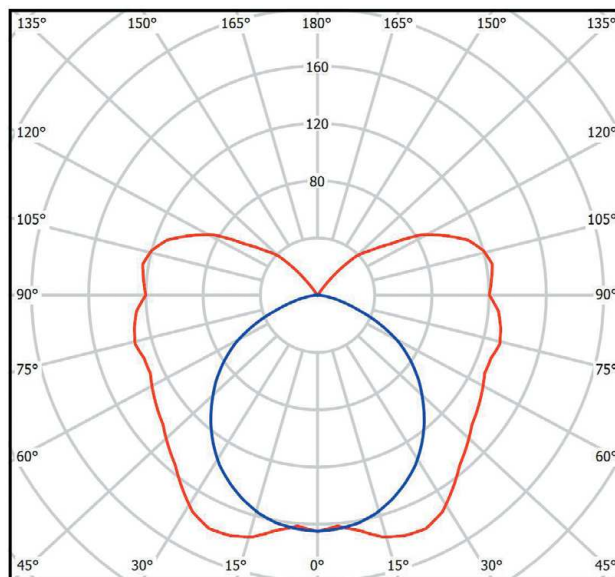
- | | | | |
|-----------|-----------------------------|-------|---|
| DIM | – Dimmable ballast 1-10V | 4TB | – 4 way terminal block for loop feed and ease of wiring |
| SWITCHDIM | – Switch DIM ballast | 5TB | – 5 way terminal block for loop feed and ease of wiring |
| DALI | – DALI ballast | OP | – Opalized diffuser |
| EMG | – Emergency version 1 hour | PRZ | – Prismatic diffuser |
| EM2 | – Emergency version 2 hours | SPORT | – White painted protection grid |
| EM3 | – Emergency version 3 hours | SCREW | – End cap fixed with screw lock |

CARINA 149 O61 OP



cd/klm
— C0 - C180 — C90 - C270

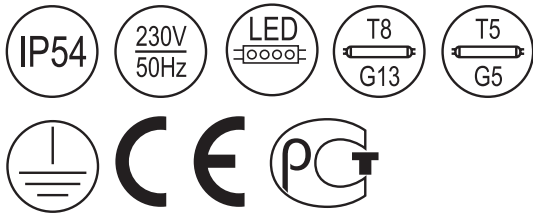
CARINA 149 O61 PRZ



cd/klm
— C0 - C180 — C90 - C270

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 PMMA diffuser in prismatic or opal execution.
Body in light grey finish.
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.



DOCTOR 228 G86 PRZ

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Doctor 114 G81	1x14 (G5)	110x665x65	0,9	16
Doctor 214 G82	2x14 (G5)	195x665x65	1,3	31
Doctor 124 G83	1x24 (G5)	110x 665x65	0,9	25
Doctor 224 G84	2x24 (G5)	195x665x65	1,3	49
Doctor 414 S18	4x14 (G5)	665x665x65	3,8	62
Doctor 424 S19	4x24 (G5)	665x665x65	3,9	98
Doctor 128 G85	1x28 (G5)	110x1270x65	1,7	30
Doctor 228 G86	2x28 (G5)	195x1270x65	2,4	60
Doctor 154 G91	1x54 (G5)	110x1270x65	1,7	58
Doctor 254 G92	2x54 (G5)	195x1270x65	2,4	116
Doctor 328 T20	3x28 (G5)	295x1270x65	4,1	90
Doctor 354 T21	3x54 (G5)	295x1270x65	4,1	174
Doctor 428 T22	4x28 (G5)	295x1270x65	4,1	232
Doctor 135 G87	1x35 (G5)	110x1570x65	2	38
Doctor 235 G88	2x35 (G5)	195x1570x65	2,8	76
Doctor 149 G89	1x49 (G5)	110x1570x65	2	53
Doctor 249 G90	2x49 (G5)	195x1570x65	2,8	105
Doctor 180 G93	1x80 (G5)	110x1570x65	2	85
Doctor 280 G94	2x80 (G5)	195x1570x65	3,2	170

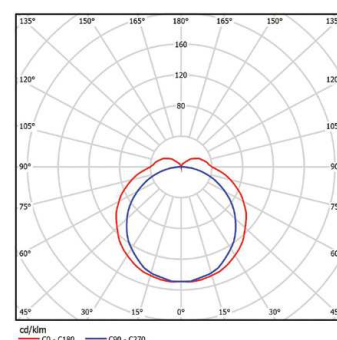
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Doctor 118 G79	1x18 (G13)	110x665x65	1,2	26
Doctor 218 G02	2x18 (G13)	195x665x65	1,7	42
Doctor 418 T15	4x18 (G13)	665x665x65	4,5	84
Doctor 136 G52	1x36 (G13)	110x1270x65	2	42
Doctor 236 G03	2x36 (G13)	195x1270x65	3,3	84
Doctor 336 T16	3x36 (G13)	295x 270x65	5,1	126
Doctor 436 T17	4x36 (G13)	295x1270x65	5,5	168
Doctor 158 G80	1x58 (G13)	110x1570x65	2,7	67
Doctor 258 G04	2x58 (G13)	195x1570x65	4,5	134

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Doctor LED1x1250 B609 T840 OP	IP54 110x665x65	1250	4000	>80	13	1,1
Doctor LED1x1700 B610 T840 OP	IP54 110x665x65	1700	4000	>80	17	1,1
Doctor LED1x2250 B611 T840 OP	IP54 110x665x65	2250	4000	>80	22	1,1
Doctor LED2x1250 B612 T840 OP	IP54 195x665x65	2500	4000	>80	25	1,5
Doctor LED2x1700 B613 T840 OP	IP54 195x665x65	3400	4000	>80	34	1,5
Doctor LED2x2250 B614 T840 OP	IP54 195x665x65	4500	4000	>80	44	1,5
Doctor LED3x1250 B615 T840 OP	IP54 665x665x65	3750	4000	>80	37	4,3
Doctor LED3x1700 B616 T840 OP	IP54 665x665x65	5100	4000	>80	50	4,3
Doctor LED3x2250 B617 T840 OP	IP54 665x665x65	6750	4000	>80	66	4,3
Doctor LED4x1250 B618 T840 OP	IP54 665x665x65	5000	4000	>80	49	4,3
Doctor LED4x1700 B619 T840 OP	IP54 665x665x65	6800	4000	>80	67	4,3
Doctor LED4x2250 B620 T840 OP	IP54 665x665x65	9000	4000	>80	88	4,3
Doctor LED1x2500 B492 T840 OP	IP54 110x1270x65	2500	4000	>80	25	2
Doctor LED1x3400 B493 T840 OP	IP54 110x1270x65	3400	4000	>80	34	2
Doctor LED1x4500 B494 T840 OP	IP54 110x1270x65	4500	4000	>80	44	2
Doctor LED2x2500 B495 T840 OP	IP54 195x1270x65	5000	4000	>80	49	2,6
Doctor LED2x3400 B496 T840 OP	IP54 195x1270x65	6800	4000	>80	67	2,6
Doctor LED2x4500 B497 T840 OP	IP54 195x1270x65	9000	4000	>80	88	2,6
Doctor LED3x2500 B621 T840 OP	IP54 295x1270x65	7500	4000	>80	74	4,5
Doctor LED3x3400 B622 T840 OP	IP54 295x1270x65	10200	4000	>80	100	4,5
Doctor LED3x4500 B623 T840 OP	IP54 295x1270x65	13500	4000	>80	132	4,5
Doctor LED1x3150 B498 T840 OP	IP54 110x1570x65	3150	4000	>80	31	2,2
Doctor LED1x4200 B499 T840 OP	IP54 110x1570x65	4200	4000	>80	41	2,2
Doctor LED1x5700 B500 T840 OP	IP54 110x1570x65	5700	4000	>80	56	2,2
Doctor LED2x3150 B501 T840 OP	IP54 195x1570x65	6300	4000	>80	62	3,4
Doctor LED2x4200 B502 T840 OP	IP54 195x1570x65	8400	4000	>80	82	3,4
Doctor LED2x5700 B503 T840 OP	IP54 195x1570x65	11400	4000	>80	112	3,4

Options available on request:

PRZ	– Prismatic diffuser	PAR	– Aluminum reflector inside
OP	– Diffuser in opal execution	MW	– MW sensor
HF	– High Frequency control gear	T830	– Color temperature 3000K
SWITCHDIM	– Switch DIM ballast	T840	– Color temperature 4000K
DIM	– Dimmable ballast 1-10V	T857	– Color temperature 5700K
DALI	– DALI ballasts		
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		

DOCTOR 249 G90 OP

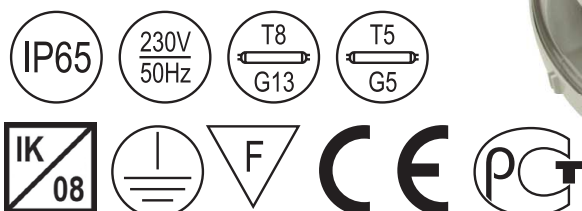


WATERPROOF AND CLEANROOM LUMINAIRES

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 luminaires, 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.

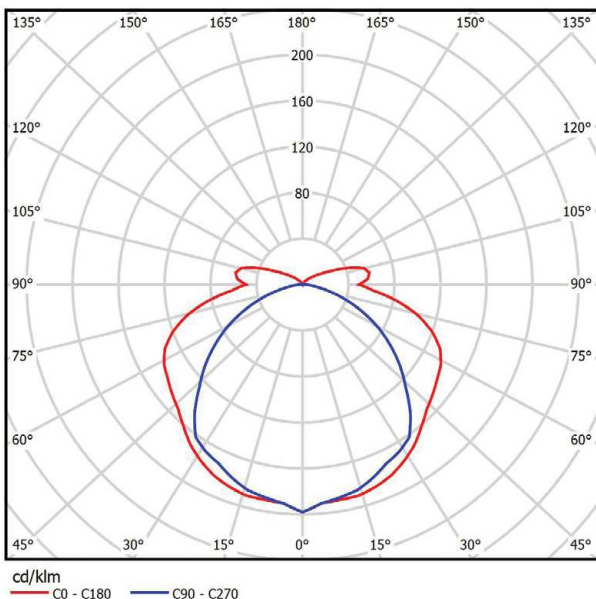
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Cyclone 118 A49	1x18 (G13)	170x670x95	1,7	26
Cyclone 218 A50	2x18 (G13)	170x670x95	1,8	42
Cyclone 136 A51	1x36 (G13)	170x1280x95	2,5	42
Cyclone 236 A52	2x36 (G13)	170x1280x95	3,1	84
Cyclone 158 A53	1x58 (G13)	170x1580x95	4	67
Cyclone 258 A54	2x58 (G13)	170x1580x95	5,4	134
Cyclone 218 A50 Deluxe HF	2x18 (G13)	170x670x95	1,5	36
Cyclone 236 A52 Deluxe HF	2x36 (G13)	170x1280x95	2,4	70
Cyclone 258 A54 Deluxe HF	2x58 (G13)	170x1580x95	2,9	108

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Cyclone 114 D18	1x14 (G5)	170x670x95	1,5	16
Cyclone 214 D19	2x14 (G5)	170x670x95	1,6	31
Cyclone 128 A43	1x28 (G5)	170x1280x95	2,5	30
Cyclone 228 A44	2x28 (G5)	170x1280x95	2,6	60
Cyclone 154 A45	1x54 (G5)	170x1280x95	2,5	58
Cyclone 254 A46	2x54 (G5)	170x1280x95	2,6	116
Cyclone 135 D20	1x35 (G5)	170x1580x95	3	38
Cyclone 235 D21	2x35 (G5)	170x1580x95	3,1	75
Cyclone 149 D22	1x49 (G5)	170x1580x95	3	53
Cyclone 249 D23	2x49 (G5)	170x1580x95	3,1	104
Cyclone 180 A47	1x80 (G5)	170x1580x95	3	85
Cyclone 280 A48	2x80 (G5)	170x1580x95	3,1	170

Options available on request:

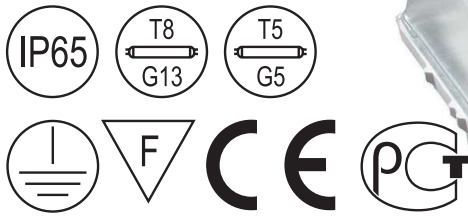
HF	– High Frequency control gear	IC	– Stainless steel clips
DIM	– Dimmable ballast 1-10V	5TB	– 5 way terminal block for loop feed and ease of wiring
SWITCHDIM	– Switch DIM ballast	1LIN	– Through wiring 3x1.5 mm ² with two push-in terminals
DALI	– DALI ballast	3LIN	– Through wiring 5x1.5 mm ² with two 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
EM3	– Emergency version 3 hours		

CYCLONE 236 A52 HF



PALI T8/T5

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: Luminaires are available with injection moulded Acrylic diffuser for exposure to severe atmospheric conditions. White painted steel reflector. Injection molded glass fiber reinforced 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 food processing areas, farms and other aggressive atmospheres with salts, acids and mineral oils.

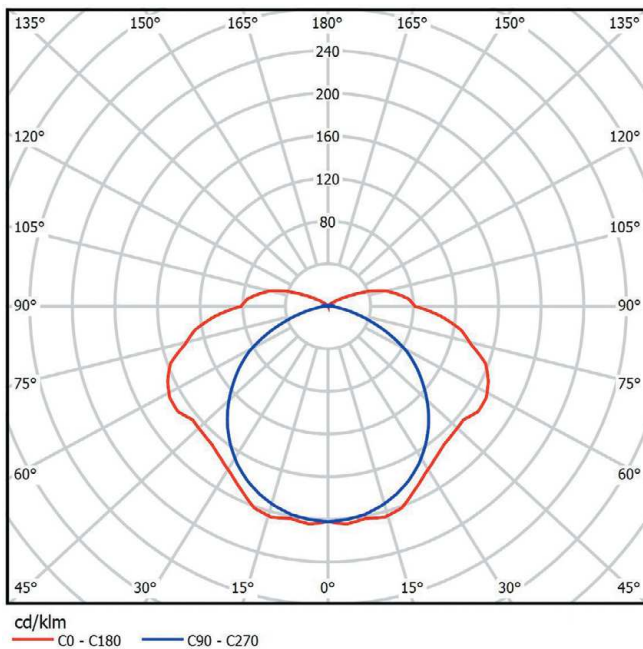
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Pali 118 Q66 PMMA	1x18 (G13)	90x669x95	1,9	26
Pali 218 Q67 PMMA	2x18 (G13)	116x669x99	2,4	42
Pali 136 Q68 PMMA	1x36 (G13)	90x1277x95	2,8	42
Pali 236 Q69 PMMA	2x36 (G13)	116x1277x99	3,6	84
Pali 158 Q70 PMMA	1x58 (G13)	90x1577x95	3,5	67
Pali 258 Q71 PMMA	2x58 (G13)	116x1577x99	4,6	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Pali 114 Q52 PMMA	1x14 (G5)	90x669x95	1	16
Pali 214 Q53 PMMA	2x14 (G5)	116x669x99	1,7	31
Pali 124 Q54 PMMA	1x24 (G5)	90x669x95	1	25
Pali 224 Q55 PMMA	2x24 (G5)	116x669x99	1,7	49
Pali 128 Q56 PMMA	1x28 (G5)	90x1277x95	1,8	30
Pali 228 Q57 PMMA	2x28 (G5)	116x1277x99	2,7	60
Pali 154 Q62 PMMA	1x49 (G5)	90x1277x95	2,3	58
Pali 254 Q63 PMMA	2x49 (G5)	116x1277x99	3,7	116
Pali 135 Q58 PMMA	1x54 (G5)	90x1577x95	2,3	38
Pali 235 Q59 PMMA	2x54 (G5)	116x1577x99	3,7	75
Pali 149 Q60 PMMA	1x35 (G5)	90x1577x95	1,8	53
Pali 249 Q61 PMMA	2x35 (G5)	116x1577x99	2,7	104
Pali 180 Q64 PMMA	1x80 (G5)	90x1577x95	2,3	85
Pali 280 Q65 PMMA	2x80 (G5)	116x1577x99	2,8	170

Options available on request:

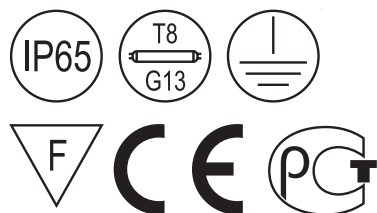
HF	- High Frequency control gear	5TB	- 5 way terminal block for loop feed and ease of wiring
DIM	- Dimmable ballast 1-10V	PMMA	- Diffuser made from acrylic plastic
SWITCHDIM	- Switch DIM ballast	PC	- Diffuser made from polycarbonate plastic
DALI	- DALI ballast	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminals
EMG	- Emergency version 1 hour	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals
EM2	- Emergency version 2 hours	1LIN2,5	- Through wiring 3x2.5 mm ² with two push-in terminals
EM3	- Emergency version 3 hours	3LIN2,5	- Through wiring 5x2.5 mm ² with two push-in terminals
		PAR	- Specular aluminum parabolic reflector

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: Luminaires 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 luminaires, ideal for environments subject to high humidity and excessive dust.

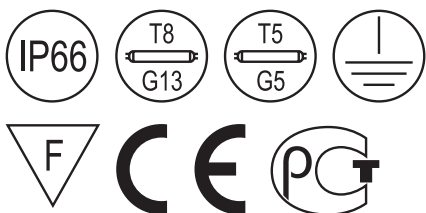
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Typhoon 236 N99 ABS/PS	2x36 (G13)	130x1270x93	3,4	84
Typhoon 236 N99 ABS/PS HF	2x36 (G13)	130x1270x93	2,5	71

Options available on request:

HF	- High Frequency control gear
DIM	- Dimmable ballast 1-10V
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 mm ² with two push-in terminals
3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals
1LIN2,5	- Through wiring 3x2.5 mm ² with two push-in terminals
3LIN2,5	- Through wiring 5x2.5 mm ² with two push-in terminals

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).

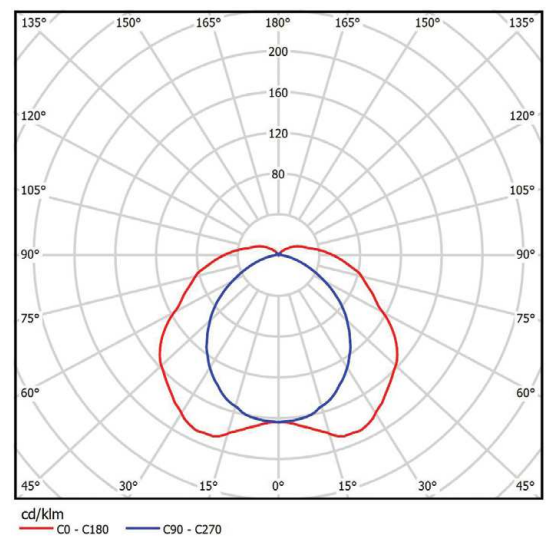
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 118 I14 PC/PMMA	1x18 (G13)	96x662x111	1,5	26
Barat 218 I15 PC/PMMA	2x18 (G13)	146x662x111	2,2	42
Barat 136 I16 PC/PMMA	1x36 (G13)	96x1272x111	2,4	42
Barat 236 I17 PC/PMMA	2x36 (G13)	146x1272x111	3,7	84
Barat 158 I18 PC/PMMA	1x58 (G13)	96x1572x111	3,1	67
Barat 258 I19 PC/PMMA	2x58 (G13)	146x1572x111	4,9	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 114 I97 PC/PMMA	1x14 (G5)	96x662x111	1	16
Barat 214 I98 PC/PMMA	2x14 (G5)	146x662x111	1,7	31
Barat 124 I99 PC/PMMA	1x24 (G5)	96x662x111	1	25
Barat 224 F01 PC/PMMA	2x24 (G5)	146x662x111	1,7	49
Barat 128 I66 PC/PMMA	1x28 (G5)	96x1272x111	1,8	30
Barat 228 I67 PC/PMMA	2x28 (G5)	146x1272x111	2,7	60
Barat 154 I73 PC/PMMA	1x49 (G5)	96x1272x111	2,3	58
Barat 254 I74 PC/PMMA	2x49 (G5)	146x1272x111	3,7	116
Barat 135 I68 PC/PMMA	1x54 (G5)	96x1572x111	2,3	38
Barat 235 I69 PC/PMMA	2x54 (G5)	146x1572x111	3,7	75
Barat 149 I70 PC/PMMA	1x35 (G5)	96x1572x111	1,8	53
Barat 249 I71 PC/PMMA	2x35 (G5)	146x1572x111	2,7	104
Barat 180 I75 PC/PMMA	1x80 (G5)	96x1572x111	2,3	85
Barat 280 I76 PC/PMMA	2x80 (G5)	146x1572x111	2,8	170

Options available on request:

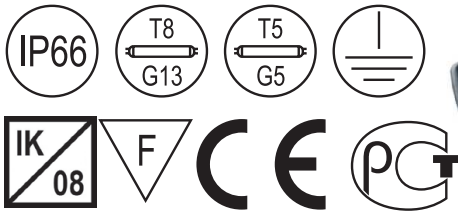
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- ABS/PMMA – Body made of acrylonitrile butadiene styrene and dif-fuser from acrylic
- ABS/PC – Body made of acrylonitrile butadiene styrene and dif-fuser 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 reflector
- MW – MW 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 IK08 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.

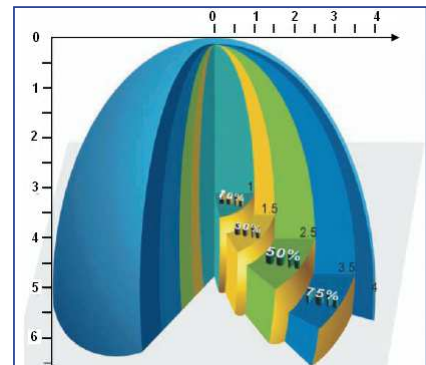
- Application:** Dust and moisture proof luminaire, ideal for use in factories, warehouses, garages, halls and many others commercial applications.



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



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



Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 118 I14 PC/PC	1x18 (G13)	96x662x111	1,5	26
Barat 218 I15 PC/PC	2x18 (G13)	146x662x111	2,2	42
Barat 136 I16 PC/PC	1x36 (G13)	96x1272x111	2,4	42
Barat 236 I17 PC/PC	2x36 (G13)	146x1272x111	3,7	84
Barat 158 I18 PC/PC	1x58 (G13)	96x1572x111	3,1	67
Barat 258 I19 PC/PC	2x58 (G13)	146x1572x111	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	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Barat LED1x1250 B101 T840 OP	96x662x111	1250	4000	>80	13	1,2
Barat LED1x1700 B482 T840 OP	96x662x111	1700	4000	>80	17	1,2
Barat LED1x2250 B483 T840 OP	96x662x111	2250	4000	>80	22	1,2
Barat LED2x1250 B102 T840 OP	146x662x111	2500	4000	>80	25	1,8
Barat LED2x1700 B484 T840 OP	146x662x111	3400	4000	>80	34	1,8
Barat LED2x2250 B485 T840 OP	146x662x111	4500	4000	>80	44	1,8
Barat LED1x2500 B103 T840 OP	96x1272x111	2500	4000	>80	25	2
Barat LED1x3400 B486 T840 OP	96x1272x111	3400	4000	>80	34	2
Barat LED1x4500 B487 T840 OP	96x1272x111	4500	4000	>80	44	2
Barat LED2x2500 B104 T840 OP	146x1272x111	5000	4000	>80	49	2,8
Barat LED2x3400 B204 T840 OP	146x1272x111	6800	4000	>80	67	2,8
Barat LED2x4500 B488 T840 OP	146x1272x111	9000	4000	>80	88	2,8
Barat LED1x3150 B105 T840 OP	96x1572x111	3150	4000	>80	31	2,6
Barat LED1x4200 B489 T840 OP	96x1572x111	4200	4000	>80	41	2,6
Barat LED1x5700 B490 T840 OP	96x1572x111	5700	4000	>80	56	2,6
Barat LED2x3150 B106 T840 OP	146x1572x111	6300	4000	>80	62	3,6
Barat LED2x4200 B205 T840 OP	146x1572x111	8400	4000	>80	82	3,6
Barat LED2x5700 B491 T840 OP	146x1572x111	11400	4000	>80	112	3,6

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- 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
- PC/PC – Body and diffuser made of polycarbonate plastic
- 1LIN – Through wiring 3x1.5 mm² with two push-in terminals
- 3LIN – Through wiring 5x1.5 mm² with two push-in terminals
- 1LIN2,5 – Through wiring 3x2.5 mm² with two push-in terminals
- 3LIN2,5 – Through wiring 5x2.5 mm² with two push-in terminals
- AS – Asymmetric aluminium reflector
- MW – MW sensor
- SPORT – 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 IK08 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.

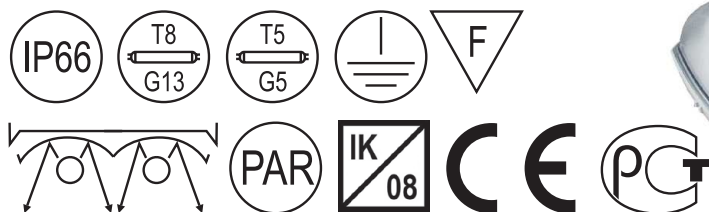
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Barat LED1x1250 B101 T840 OP	96x662x111	1250	4000	>80	13	1,2
Barat LED1x1700 B482 T840 OP	96x662x111	1700	4000	>80	17	1,2
Barat LED1x2250 B483 T840 OP	96x662x111	2250	4000	>80	22	1,2
Barat LED2x1250 B102 T840 OP	146x662x111	2500	4000	>80	25	1,8
Barat LED2x1700 B484 T840 OP	146x662x111	3400	4000	>80	34	1,8
Barat LED2x2250 B485 T840 OP	146x662x111	4500	4000	>80	44	1,8
Barat LED1x2500 B103 T840 OP	96x1272x111	2500	4000	>80	25	2
Barat LED1x3400 B486 T840 OP	96x1272x111	3400	4000	>80	34	2
Barat LED1x4500 B487 T840 OP	96x1272x111	4500	4000	>80	44	2
Barat LED2x2500 B104 T840 OP	146x1272x111	5000	4000	>80	49	2,8
Barat LED2x3400 B204 T840 OP	146x1272x111	6800	4000	>80	67	2,8
Barat LED2x4500 B488 T840 OP	146x1272x111	9000	4000	>80	88	2,8
Barat LED1x3150 B105 T840 OP	96x1572x111	3150	4000	>80	31	2,6
Barat LED1x4200 B489 T840 OP	96x1572x111	4200	4000	>80	41	2,6
Barat LED1x5700 B490 T840 OP	96x1572x111	5700	4000	>80	56	2,6
Barat LED2x3150 B106 T840 OP	146x1572x111	6300	4000	>80	62	3,6
Barat LED2x4200 B205 T840 OP	146x1572x111	8400	4000	>80	82	3,6
Barat LED2x5700 B491 T840 OP	146x1572x111	11400	4000	>80	112	3,6

Options available on request:

- IC – Stainless steel clips
- OP – Opal UV stabilized polycarbonate diffuser
- 5TB – 5 way terminal block for easy wiring
- MW – MW sensor
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K
- 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 PAR

IP66 for high mounting applications



BARAT 249 I71 PC/PC PAR



BARAT 236 I17 PC/PMMA PAR IC



BARAT 236 I17 PC/PMMA PAR IC

Type: Dust and moisture proof IP66 fixture for high mounting applications. High performance.

Specification: Luminaires are available with injection molded UV stabilized IK08 polycarbonate (or IK03 PMMA) diffuser for high impact resistance. Specular aluminum parabolic 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.

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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 136 I16 PC/PMMA PAR	1x36 (G13)	96x1272x111	2,6	42
Barat 236 I17 PC/PMMA PAR	2x36 (G13)	146x1272x111	3,9	84
Barat 158 I18 PC/PMMA PAR	1x58 (G13)	96x1572x111	3,3	67
Barat 258 I19 PC/PMMA PAR	2x58 (G13)	146x1572x111	5,1	134
Barat 136 I16 PC/PC PAR	1x36 (G13)	96x1272x111	2,6	42
Barat 236 I17 PC/PC PAR	2x36 (G13)	146x1272x111	3,9	84
Barat 158 I18 PC/PC PAR	1x58 (G13)	96x1572x111	3,3	67
Barat 258 I19 PC/PC PAR	2x58 (G13)	146x1572x111	5,1	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 128 I66 PC/PC PAR	1x28 (G5)	96x1272x111	2	30
Barat 228 I67 PC/PC PAR	2x28 (G5)	146x1272x111	2,9	60
Barat 154 I73 PC/PC PAR	1x54 (G5)	96x1272x111	2	58
Barat 254 I74 PC/PC PAR	2x54 (G5)	146x1272x111	2,9	116
Barat 135 I68 PC/PC PAR	1x35 (G5)	96x1572x111	2,5	38
Barat 235 I69 PC/PC PAR	2x35 (G5)	146x1572x111	3,9	75
Barat 149 I70 PC/PC PAR	1x49 (G5)	96x1572x111	2,5	53
Barat 249 I71 PC/PC PAR	2x49 (G5)	146x1572x111	3,9	104
Barat 180 I75 PC/PC PAR	1x80 (G5)	96x1572x111	2,6	85
Barat 280 I76 PC/PC PAR	2x80 (G5)	146x1572x111	4	170

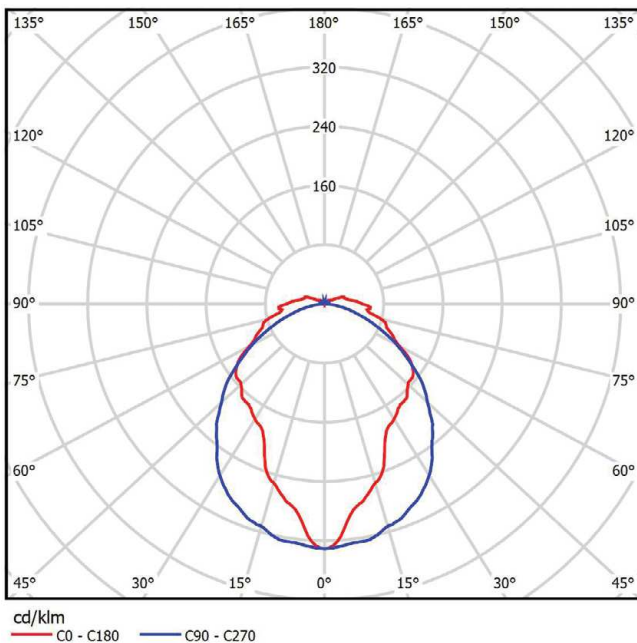


Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain and wire suspension.

Options available on request:

HF	- High Frequency control gear	MW	- MW sensor
DIM	- Dimmable ballast 1-10V	PC/PMMA	- Body made of polycarbonate plastic and diffuser from acrylic
SWITCHDIM	- Switch DIM ballast	PC/PC	- Body and diffuser made of polycarbonate plastic
DALI	- DALI ballast	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminals
EMG	- Emergency version 1 hour	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals
EM2	- Emergency version 2 hours	1LIN2,5	- Through wiring 3x2.5 mm ² with two push-in terminals
EM3	- Emergency version 3 hours	3LIN2,5	- Through wiring 5x2.5 mm ² with two push-in terminals
IC	- Stainless steel clips	AS	- Asymmetric aluminium
5TB	- 5 way terminal block for easy wiring	PAR	- Specular aluminum parabolic reflector
Electric shock protection class II			

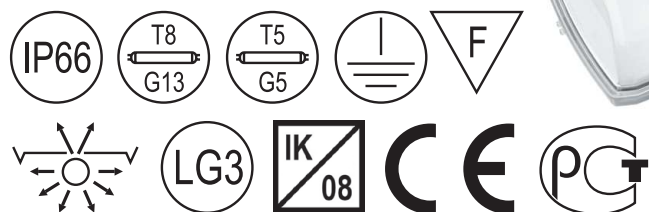
BARAT 249 I71 PC/PC PAR



BARAT

LG3

IP66 for direct/indirect light distribution



Type: Dust and moisture proof IP66 fixture for direct/indirect illumination.

Specification: Luminaires are available with injection molded UV stabilized IK08 polycarbonate (or IK03 PMMA) diffuser for high impact resistance. White perforated (or slim) gear tray. Injection molded polycarbonate canopy, transparent. Diffuser retaining clips and sealing washers from the end of the body for easy maintenance. Luminaire is plastic-wrapped and boxed individually.

Installation: Surface 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.

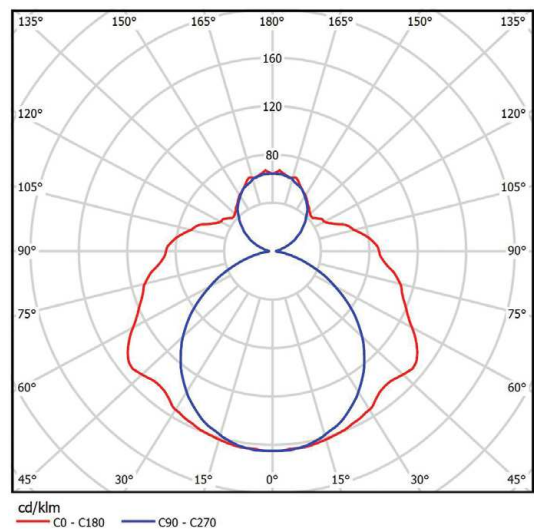
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 136 I16 PC/PMMA LG3	1x36 (G13)	96x1272x111	2,4	42
Barat 236 I17 PC/PMMA LG3	2x36 (G13)	146x1272x111	3,7	84
Barat 158 I18 PC/PMMA LG3	1x58 (G13)	96x1572x111	3,1	67
Barat 258 I19 PC/PMMA LG3	2x58 (G13)	146x1572x111	4,9	134
Barat 136 I16 PC/PC LG3	1x36 (G13)	96x1272x111	2,4	42
Barat 236 I17 PC/PC LG3	2x36 (G13)	146x1272x111	3,7	84
Barat 158 I18 PC/PC LG3	1x58 (G13)	96x1572x111	3,1	67
Barat 258 I19 PC/PC LG3	2x58 (G13)	146x1572x111	4,9	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 128 I66 PC/PMMA LG3	1x28 (G5)	96x1272x111	1,8	30
Barat 228 I67 PC/PMMA LG3	2x28 (G5)	146x1272x111	2,7	60
Barat 154 I73 PC/PMMA LG3	1x54 (G5)	96x1272x111	1,8	58
Barat 254 I74 PC/PMMA LG3	2x54 (G5)	146x1272x111	2,7	116
Barat 135 I68 PC/PMMA LG3	1x35 (G5)	96x1572x111	2,3	38
Barat 235 I69 PC/PMMA LG3	2x35 (G5)	146x1572x111	3,7	75
Barat 149 I70 PC/PMMA LG3	1x49 (G5)	96x1572x111	2,3	53
Barat 249 I71 PC/PMMA LG3	2x49 (G5)	146x1572x111	3,7	104
Barat 180 I75 PC/PMMA LG3	1x80 (G5)	96x1572x111	2,4	85
Barat 280 I76 PC/PMMA LG3	2x80 (G5)	146x1572x111	3,8	170
Barat 128 I66 PC/PC LG3	1x28 (G5)	96x1272x111	1,8	30
Barat 228 I67 PC/PC LG3	2x28 (G5)	146x1272x111	2,7	60
Barat 154 I73 PC/PC LG3	1x54 (G5)	96x1272x111	1,8	58
Barat 254 I74 PC/PC LG3	2x54 (G5)	146x1272x111	2,7	116
Barat 135 I68 PC/PC LG3	1x35 (G5)	96x1572x111	2,3	38
Barat 235 I69 PC/PC LG3	2x35 (G5)	146x1572x111	3,7	75
Barat 149 I70 PC/PC LG3	1x49 (G5)	96x1572x111	2,3	53
Barat 249 I71 PC/PC LG3	2x49 (G5)	146x1572x111	3,7	104
Barat 180 I75 PC/PC LG3	1x80 (G5)	96x1572x111	2,4	85
Barat 280 I76 PC/PC LG3	2x80 (G5)	146x1572x111	3,8	170

Options available on request:

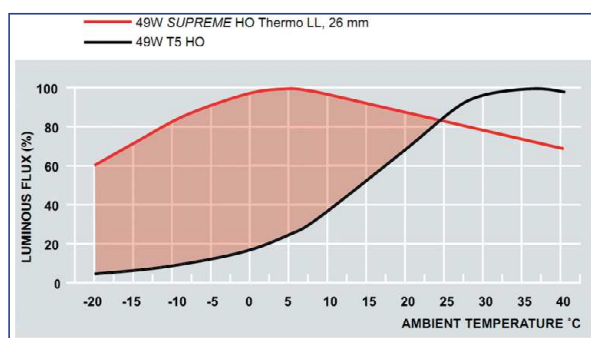
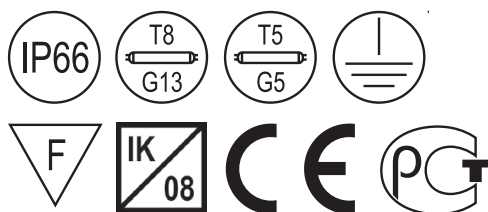
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- IC – Stainless steel clips
- 5TB – 5 way terminal block for easy wiring
- II – Electric shock protection class II
- MW – MW 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 tmin-40°C

IP66 for low temperature applications



The special thermally insulated lamps should be used to obtain reliable operation in ambient temperatures -30°C to +25°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 IK08 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 - 40°C.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Nord 118 J43 IC tmin-40	1x18 (G13)	96x667x111	1,5	26
Nord 218 J44 IC tmin-40	2x18 (G13)	146x667x111	2,2	42
Nord 136 I82 IC tmin-40	1x36 (G13)	96x1277x111	2,8	42
Nord 236 I83 IC tmin-40	2x36 (G13)	146x1277x111	3,6	84
Nord 158 I84 IC tmin-40	1x58 (G13)	96x1577x111	3,5	67
Nord 258 I85 IC tmin-40	2x58 (G13)	146x1577x111	4,6	134
<hr/>				
Nord 118 J43 HF IC tmin-25	1x18 (G13)	96x667x111	1	19
Nord 218 J44 HF IC tmin-25	2x18 (G13)	146x667x111	1,7	36
Nord 136 I82 HF IC tmin-25	1x36 (G13)	96x1277x111	1,8	36
Nord 236 I83 HF IC tmin-25	2x36 (G13)	146x1277x111	2,7	70
Nord 158 I84 HF IC tmin-25	1x58 (G13)	96x1577x111	2,3	56
Nord 258 I85 HF IC tmin-25	2x58 (G13)	146x1577x111	3,7	108

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Nord 136 I82 HF IC tmin-30	1x36 (G13)	96x1277x111	1,9	36
Nord 236 I83 HF IC tmin-30	2x36 (G13)	146x1277x111	2,8	70
Nord 158 I84 HF IC tmin-30	1x58 (G13)	96x1577x111	2,4	56
Nord 258 I85 HF IC tmin-30	2x58 (G13)	146x1577x111	3,8	108

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Nord 154 I88 IC tmin-30	1x54 (G5)	96x1277x111	2,2	58
Nord 254 I89 IC tmin-30	2x54 (G5)	146x1277x111	2,8	116
Nord 149 I86 IC tmin-30	1x49 (G5)	96x1577x111	3,1	53
Nord 249 I87 IC tmin-30	2x49 (G5)	146x1577x111	3,5	104
Nord 180 I90 IC tmin-30	1x80 (G5)	96x1577x111	3,1	85
Nord 280 I91 IC tmin-30	2x80 (G5)	146x1577x111	3,5	170

Options available on request:

HF	– High Frequency control gear	5TB	– 5 way terminal block for loop feed and ease of wiring
IC	– Stainless steel clips	1LIN	– Through wiring 3x1.5 mm ² with two push-in terminals
tmin-25	– For use in temperatures down to -25°C	3LIN	– Through wiring 5x1.5 mm ² with two push-in terminals
tmin-30	– For use in temperatures down to -30°C	1LIN2,5	– Through wiring 3x2.5 mm ² with two push-in terminals
tmin-40	– For use in temperatures down to -40°C	3LIN2,5	– Through wiring 5x2.5 mm ² with two push-in terminals
EMG tmin-25	– Emergency version 1 hour for use down to -25°C (except T5 49, 54, 80W)		
EM2 tmin-25	– Emergency version 2 hours for use down to -25°C (except T5 49, 54, 80W)		

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

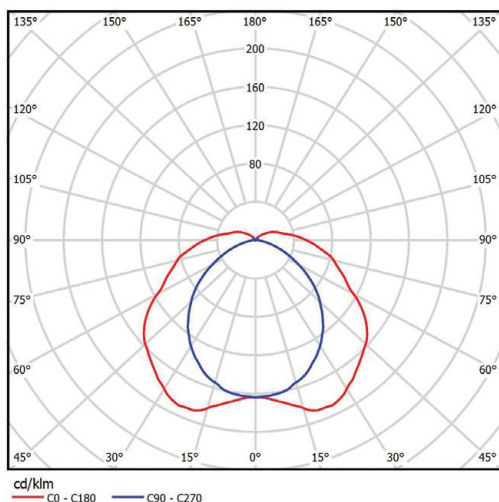
One-hour or two-hour standby operation with a recharge time of 24 hours.

Ambient temperature: -25°C to +40°C.

More information in page 200.



NORD 236 I83 HF IC TMIN-30



NORD tmax+60°C

IP66 for high temperature applications



Type: Water and dust resistant IP 66 luminaire for use in higher temperature environments.

Specification: Luminaires are available with injection molded UV stabilized IK08 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 higher ambient temperatures upto + 60°C.

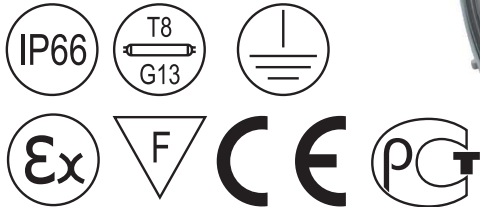
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Nord 118 J43 IC tmax60	1x18 (G13)	96x667x111	1,5	26
Nord 218 J44 IC tmax60	2x18 (G13)	146x667x111	2,2	42
Nord 136 I82 IC tmax60	1x36 (G13)	96x1277x111	2,8	42
Nord 236 I83 IC tmax60	2x36 (G13)	146x1277x111	3,6	84
Nord 158 I84 IC tmax60	1x58 (G13)	96x1577x111	3,5	67
Nord 258 I85 IC tmax60	2x58 (G13)	146x1577x111	4,6	134

Options available on request:

- 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.

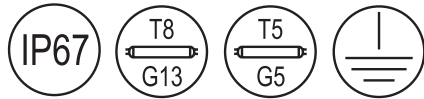
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Barat 136 I16 PC/PC HF IC Ex	1x36 (G13)	96x1277x111	2,4	42
Barat 236 I17 PC/PC HF IC Ex	2x36 (G13)	146x1277x111	3,7	84
Barat 158 I18 PC/PC HF IC Ex	1x58 (G13)	96x1577x111	3,1	67
Barat 258 I19 PC/PC HF IC Ex	2x58 (G13)	146x1577x111	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.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Proof 136 G61 AC IC	1x36 (G13)	96x1277x111	2,4	42
Proof 236 G62 AC IC	2x36 (G13)	146x1277x111	3,7	84
Proof 158 G63 AC IC	1x58 (G13)	96x1577x111	3,1	67
Proof 258 G64 AC IC	2x58 (G13)	146x1577x111	4,9	134

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Proof 128 I56 AC IC	1x28 (G5)	96x1277x111	1,8	30
Proof 228 I57 AC IC	2x28 (G5)	146x1277x111	2,7	60
Proof 154 I62 AC IC	1x54 (G5)	96x1277x111	1,8	58
Proof 254 I63 AC IC	2x54 (G5)	146x1277x111	2,7	116
Proof 135 I58 AC IC	1x35 (G5)	96x1577x111	2,3	38
Proof 235 I59 AC IC	2x35 (G5)	146x1577x111	3,7	75
Proof 149 I60 AC IC	1x49 (G5)	96x1577x111	2,3	53
Proof 249 I61 AC IC	2x49 (G5)	146x1577x111	3,7	104
Proof 180 I64 AC IC	1x80 (G5)	96x1577x111	2,4	85
Proof 280 I65 AC IC	2x80 (G5)	146x1577x111	3,8	170

Options available on request:

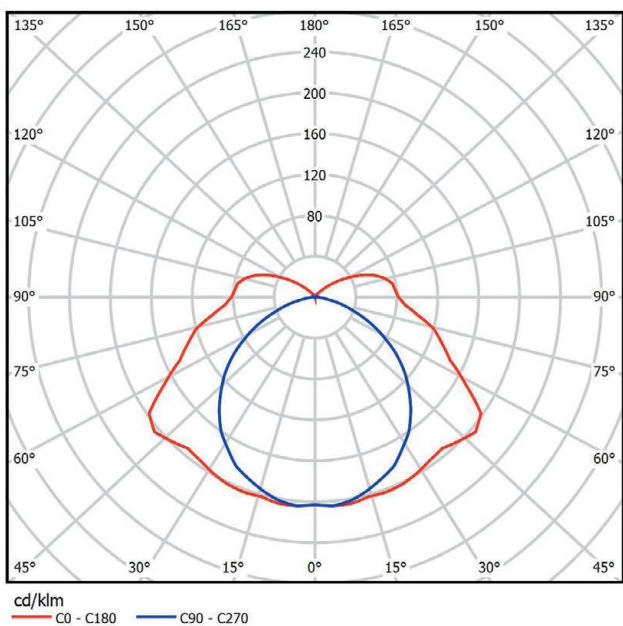
HF	– High Frequency control gear	II	– Electric shock protection class II
DIM	– Dimmable ballast 1-10V	MW	– MW sensor
SWITCHDIM	– Switch DIM ballast	1LIN	– Through wiring 3x1.5 mm ² with two push-in terminals
DALI	– DALI ballast	3LIN	– Through wiring 5x1.5 mm ² with two push-in terminals
EMG	– Emergency 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
EM3	– Emergency version 3 hours	AS	– Asymmetric aluminium reflector
IC	– Stainless steel clips	PAR	– Specular aluminum parabolic reflector
5TB	– 5 way terminal block for easy wiring		

Chemical resistances of Proof series to chemicals see in page 346.

Chemical resistance of PROOF series parts made of thermoplasts

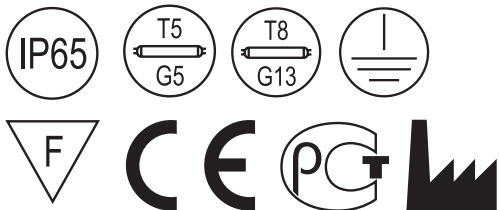
Enviroment	Max concentration	PROOF diffuser resistant			PROOF body resistant		
		yes	partially	no	yes	partially	no
Aceton (ketones)				•			•
Aniline				•			•
Ammonia	5%	•			•		
Benzene and Benzaldehyde				•			•
Diethylether(ethers)			•				•
Potassium nitrate		•					
Ethanol(alcohols)	50%		•			•	
Ethylacetate(esters)				•			•
Ethyl alcohol			•		•		
Phenol				•			•
Glycerine		•	•				
Heptane							•
Ammonium hydroxide	25%					•	
Sodium hydroxide-base	60%	•			•		
Sodium chloride-salt solution	15%	•			•		
Sulphur chloride and calcium chloride		•					
Carbon tetrachloride and Chloric ether				•			•
Iron dichloride		•					
Arsenic acid and Oleic acid		•			•		
Citric acid	20%	•			•		
Nitric acid	20%		•			•	
Nitric acid	50%			•			•
Hydrochloride acid	5%	•			•		
Hydrochloride acid	35%			•			•
Chromic acid	40%		•			•	
Formic acid	30%		•				
Acetic acid	10%	•				•	
Sulphuric acid	30%	•				•	
Methanol				•			•
Fuel oil			•		•		
Mineral oil		•			•		
Vegetable oil		•			•		
Rape oil		•				•	
Lamp oil			•			•	
Hydrogen peroxide	30%			•		•	
Ammonium sulphate	15%	•			•		
Toluene				•			•
Turpentine oil					•		•
Trichlorethylene				•			•
Sodium carbonate	20%	•					
Aliphatic hydrocarbons		•				•	
Aromatic hydrocarbons				•			•
Alkali		•			•		

PROOF 249 I61 AC IC



HERCULES

Aluminium IP65 luminaire
for aggressive environment



- 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.
- Application:** Dust and moisture proof luminaire, ideal for use in agricultural buildings, factories, warehouses, garages and also in corrosive environment.

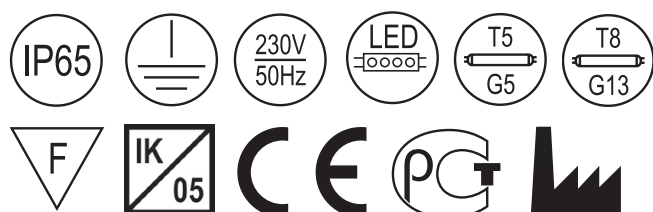
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Hercules 118 Q21	1x18 (G13)	140x670x90	3,1	26
Hercules 218 Q22	2x18 (G13)	140x670x90	3,4	42
Hercules 136 Q23	1x36 (G13)	140x1280x90	4,5	42
Hercules 236 Q24	2x36 (G13)	140x1280x90	4,9	84
Hercules 158 Q25	1x58 (G13)	140x1580x90	6,7	67
Hercules 258 Q26	2x58 (G13)	140x1580x90	7,3	134
Hercules 128 R27	1x28 (G5)	140x1280x90	3,3	30
Hercules 228 R28	2x28 (G5)	140x1280x90	3,4	60
Hercules 154 R33	1x54 (G5)	140x1280x90	3,3	58
Hercules 254 R34	2x54 (G5)	140x1280x90	3,4	116
Hercules 135 R29	1x35 (G5)	140x1580x90	4,6	38
Hercules 235 R30	2x35 (G5)	140x1580x90	4,7	75
Hercules 149 R31	1x49 (G5)	140x1580x90	4,6	53
Hercules 249 R32	2x49 (G5)	140x1580x90	4,7	104
Hercules 180 R35	1x80 (G5)	140x1580x90	4,6	85
Hercules 280 R36	2x80 (G5)	140x1580x90	4,8	170

Options available on request:

- | | | | |
|-----------|-------------------------------|---------|---|
| HF | – High Frequency control gear | EM3 | – Emergency version 3 hours |
| DIM | – Dimmable ballast 1-10V | 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 |

TUNEL

**Stainless steel IP65
luminaire for aggressive
environment**



Type: Dust and moisture proof IP65 fixture with Stainless steel body.

Specification: Hardened safety glass is fixed to the body with stainless steel clips. The body made from Stainless steel sheet. Stainless steel 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.

Application: Dust and moisture proof luminaire, ideal for use in agricultural buildings, factories, warehouses, garages and also in corrosive environment.

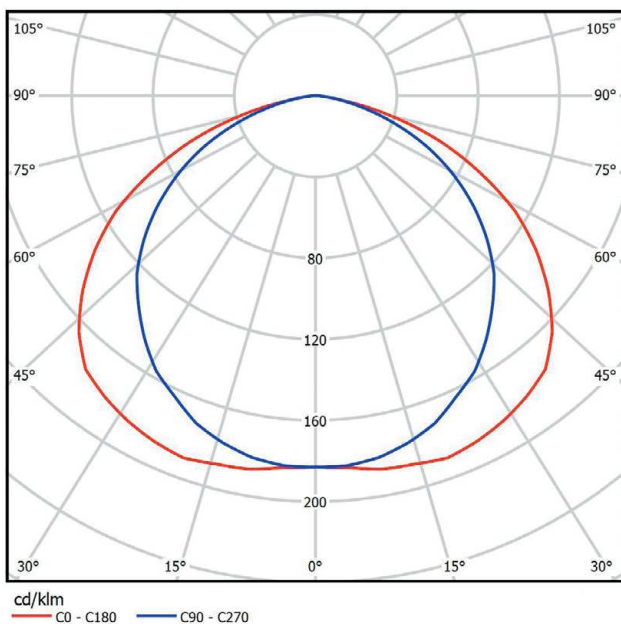
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Tunel 118 R15	1x18 (G13)	140x710x100	4,6	26
Tunel 218 R16	2x18 (G13)	210x710x100	5,8	42
Tunel 136 R17	1x36 (G13)	140x1310x100	5,9	42
Tunel 236 R18	2x36 (G13)	210x1310x100	7,7	84
Tunel 158 R19	1x58 (G13)	140x1610x100	7,6	67
Tunel 258 R20	2x58 (G13)	210x1610x100	10,5	134
Tunel 114 T23	1x14 (G5)	140x710x100	4,4	16
Tunel 214 T24	2x14 (G5)	210x710x100	5,4	31
Tunel 124 T25	1x24 (G5)	140x710x100	4,4	25
Tunel 224 T26	2x24 (G5)	210x710x100	5,4	49
Tunel 128 T27	1x28 (G5)	140x1310x100	5,4	30
Tunel 228 T28	2x28 (G5)	210x1310x100	6,9	60
Tunel 154 T33	1x54 (G5)	140x1310x100	5,4	58
Tunel 254 T34	2x54 (G5)	210x1310x100	6,9	116
Tunel 135 T29	1x35 (G5)	140x1610x100	7,1	38
Tunel 235 T30	2x35 (G5)	210x1610x100	9,5	75
Tunel 149 T31	1x49 (G5)	140x1610x100	7,1	53
Tunel 249 T32	2x49 (G5)	210x1610x100	9,5	104
Tunel 180 T35	1x80 (G5)	140x1610x100	7,1	85
Tunel 280 T36	2x80 (G5)	210x1610x100	9,6	170

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Tunel LED1x1250 B544 T840 OP	140x710x100	1250	4000	>80	13	4,7
Tunel LED1x1700 B545 T840 OP	140x710x100	1700	4000	>80	17	4,7
Tunel LED1x2250 B546 T840 OP	140x710x100	2250	4000	>80	22	4,7
Tunel LED2x1250 B547 T840 OP	210x710x100	2500	4000	>80	25	5,7
Tunel LED2x1700 B548 T840 OP	210x710x100	3400	4000	>80	34	5,7
Tunel LED2x2250 B549 T840 OP	210x710x100	4500	4000	>80	44	5,7
Tunel LED1x2500 B550 T840 OP	140x1310x100	2500	4000	>80	25	5,6
Tunel LED1x3400 B551 T840 OP	140x1310x100	3400	4000	>80	34	5,6
Tunel LED1x4500 B552 T840 OP	140x1310x100	4500	4000	>80	44	5,6
Tunel LED2x2500 B553 T840 OP	210x1310x100	5000	4000	>80	49	7,2
Tunel LED2x3400 B554 T840 OP	210x1310x100	6800	4000	>80	67	7,2
Tunel LED2x4500 B555 T840 OP	210x1310x100	9000	4000	>80	88	7,2
Tunel LED1x3150 B556 T840 OP	140x1610x100	3150	4000	>80	31	7,4
Tunel LED1x4200 B557 T840 OP	140x1610x100	4200	4000	>80	41	7,4
Tunel LED1x5700 B558 T840 OP	140x1610x100	5700	4000	>80	56	7,4
Tunel LED2x3150 B559 T840 OP	210x1610x100	6300	4000	>80	62	9,8
Tunel LED2x4200 B560 T840 OP	210x1610x100	8400	4000	>80	82	9,8
Tunel LED2x5700 B561 T840 OP	210x1610x100	11400	4000	>80	112	9,8

Options available on request:

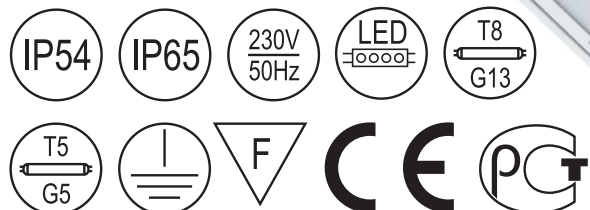
OP	- Frosted glass	5TB	- 5 way terminal block for easy wiring
HF	- High Frequency control gear	1LIN	- Through wiring 3x1.5 mm ² with two push-in terminals
DIM	- Dimmable ballast	3LIN	- Through wiring 5x1.5 mm ² with two push-in terminals
SWITCHDIM	- Switch DIM ballast	1LIN2,5	- Through wiring 3x2.5 mm ² with two push-in terminals
DALI	- DALI ballast	3LIN2,5	- Through wiring 5x2.5 mm ² with two push-in terminals
EMG	- Emergency version 1 hour	T830	- Color temperature 3000K
EM2	- Emergency version 2 hours	T840	- Color temperature 4000K
EM3	- Emergency version 3 hours	T857	- Color temperature 5700K

TUNEL 258 R20 HF



HERMETIC

**Recessed & Surface
Luminaire for use in sterile
areas**



Hermetic 418 K58 OP HF



Hermetic 418 K58 IP65 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.



The steel frame can be fitted into the body with a four screw locks for IP65 protection. See option list.

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Hermetic R 318 L96	IP54, recessed	3x18 (G13)	595x595x85	5,30	68
Hermetic R 418 K58	IP54, recessed	4x18 (G13)	595x595x85	5,40	84
Hermetic R 236 Q30	IP54, recessed	2x36 (G13)	295x1195x85	5,40	84
Hermetic R 336 O31	IP54, recessed	3x36 (G13)	595x1195x85	9,80	126
Hermetic R 436 Q31	IP54, recessed	4x36 (G13)	595x1195x85	10,40	168

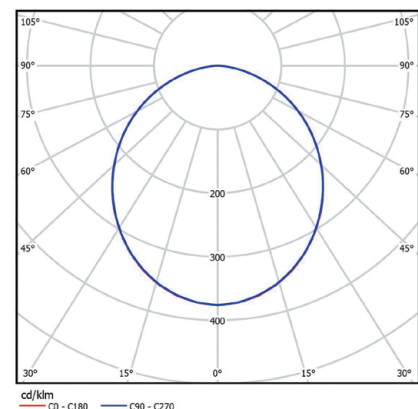
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Hermetic R 314 L97	IP54, recessed	3x14 (G5)	595x595x85	4,50	46
Hermetic R 324 L98	IP54, recessed	3x24 (G5)	595x595x85	4,50	73
Hermetic R 414 K04	IP54, recessed	4x14 (G5)	595x595x85	4,50	62
Hermetic R 424 K05	IP54, recessed	4x24 (G5)	595x595x85	4,50	97
Hermetic R 228 K06	IP54, recessed	2x28 (G5)	295x1195x85	4,5	60
Hermetic R 254 K07	IP54, recessed	2x54 (G5)	295x1195x85	4,5	116
Hermetic R 328 K18	IP54, recessed	3x28 (G5)	595x1195x85	8,9	90
Hermetic R 354 K19	IP54, recessed	3x54 (G5)	595x1195x85	8,9	174
Hermetic R 428 K08	IP54, recessed	4x28 (G5)	595x1195x85	9,0	120
Hermetic R 454 K09	IP54, recessed	4x54 (G5)	595x1195x85	9,0	232
Hermetic R 235 Q27	IP54, recessed	2x35 (G5)	295x1495x85	5,8	75
Hermetic R 249 Q28	IP54, recessed	2x49 (G5)	295x1495x85	5,8	104
Hermetic R 280 Q29	IP54, recessed	2x80 (G5)	295x1495x85	5,9	170

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Hermetic R LED3x1050 B219 OP T840	IP54, recessed	595x595x85	3150	4000	>80	31	4,8
Hermetic R LED3x1400 B504 OP T840	IP54, recessed	595x595x85	4200	4000	>80	41	4,8
Hermetic R LED3x2000 B505 OP T840	IP54, recessed	595x595x85	6000	4000	>80	59	4,8
Hermetic R LED4x1050 B220 OP T840	IP54, recessed	595x595x85	4200	4000	>80	41	4,8
Hermetic R LED4x1400 B506 OP T840	IP54, recessed	595x595x85	5600	4000	>80	55	4,8
Hermetic R LED4x2000 B507 OP T840	IP54, recessed	595x595x85	8000	4000	>80	79	4,8
Hermetic R LED2x2350 B221 OP T840	IP54, recessed	295x1195x85	4700	4000	>80	46	4,8
Hermetic R LED2x3150 B508 OP T840	IP54, recessed	295x1195x85	6300	4000	>80	62	4,8
Hermetic R LED2x4300 B509 OP T840	IP54, recessed	295x1195x85	8600	4000	>80	84	4,8
Hermetic R LED3x2350 B222 OP T840	IP54, recessed	595x1195x85	7050	4000	>80	69	9
Hermetic R LED3x3150 B510 OP T840	IP54, recessed	595x1195x85	9450	4000	>80	93	9
Hermetic R LED3x4300 B511 OP T840	IP54, recessed	595x1195x85	12900	4000	>80	126	9
Hermetic R LED4x2350 B223 OP T840	IP54, recessed	595x1195x85	9400	4000	>80	92	9
Hermetic R LED4x3150 B512 OP T840	IP54, recessed	595x1195x85	12600	4000	>80	123	9
Hermetic R LED4x4300 B513 OP T840	IP54, recessed	595x1195x85	17200	4000	>80	168	9
Hermetic R LED2x2950 B514 OP T840	IP54, recessed	295x1495x85	5900	4000	>80	58	6
Hermetic R LED2x4000 B515 OP T840	IP54, recessed	295x1495x85	8000	4000	>80	79	6
Hermetic R LED2x5400 B516 OP T840	IP54, recessed	295x1495x85	10800	4000	>80	106	6



Hermetic T8/T5 surface mounted series

HERMETIC 418 K58 OP HF



Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Hermetic S 318 L99	IP54, surface	3x18 (G13)	600x635x85	5,50	68
Hermetic S 418 K60	IP54, surface	4x18 (G13)	600x635x85	5,60	84
Hermetic S 236 Q32	IP54, surface	2x36 (G13)	300x1235x85	5,60	84
Hermetic S 336 Q33	IP54, surface	3x36 (G13)	600x1235x85	10,0	126
Hermetic S 436 Q34	IP54, surface	4x36 (G13)	600x1235x85	10,6	168

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Hermetic S 314 M01	IP54, surface	3x14 (G5)	600x635x85	4,70	46
Hermetic S 324 M02	IP54, surface	3x24 (G5)	600x635x85	4,70	73
Hermetic S 414 K12	IP54, surface	4x14 (G5)	600x635x85	4,70	62
Hermetic S 424 K13	IP54, surface	4x24 (G5)	600x635x85	4,70	97
Hermetic S 228 K14	IP54, surface	2x28 (G5)	300x1235x85	4,70	60
Hermetic S 254 K15	IP54, surface	2x54 (G5)	300x1235x85	4,70	116
Hermetic S 328 K20	IP54, surface	3x28 (G5)	600x1235x85	9,1	90
Hermetic S 354 K21	IP54, surface	3x54 (G5)	600x1235x85	9,1	174
Hermetic S 428 K16	IP54, surface	4x28 (G5)	600x1235x85	9,2	120
Hermetic S 454 K17	IP54, surface	4x54 (G5)	600x1235x85	9,2	232

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Hermetic S LED3x1250 B224 T840 OP	IP54, surface	635x600x85	3750	4000	>80	37	5
Hermetic S LED3x1700 B522 T840 OP	IP54, surface	635x600x85	5100	4000	>80	50	5
Hermetic S LED3x2250 B523 T840 OP	IP54, surface	635x600x85	6750	4000	>80	66	5
Hermetic S LED4x1250 B225 T840 OP	IP54, surface	635x600x85	5000	4000	>80	49	5
Hermetic S LED4x1700 B524 T840 OP	IP54, surface	635x600x85	6800	4000	>80	67	5
Hermetic S LED4x2250 B525 T840 OP	IP54, surface	635x600x85	9000	4000	>80	88	5
Hermetic S LED2x2500 B526 T840 OP	IP54, surface	1235x300x85	5000	4000	>80	49	5
Hermetic S LED2x3400 B527 T840 OP	IP54, surface	1235x300x85	6800	4000	>80	67	5
Hermetic S LED2x4500 B528 T840 OP	IP54, surface	1235x300x85	9000	4000	>80	88	5
Hermetic S LED3x2500 B541 T840 OP	IP54, surface	1235x300x85	7500	4000	>80	74	5
Hermetic S LED3x3400 B542 T840 OP	IP54, surface	1235x300x85	10200	4000	>80	100	5
Hermetic S LED3x4500 B543 T840 OP	IP54, surface	1235x300x85	13500	4000	>80	132	5

Options available on request:

HF	– High Frequency control gear	PAR	– Clear diffuser with PAR reflector
DIM	– Dimmable ballast 1-10V	5TB	– 5 way terminal block with two holes
SWITCHDIM	– Switch DIM ballast	MAT	– Matt reflector (subject to minimum order)
DALI	– DALI ballast	MRO	– Reflector Deluxe
EMG	– Emergency version 1 hour	GLASSPAR	– Tempered glass diffuser with PAR reflector
EM2	– Emergency version 2 hours	GLASSOP	– Frosted tempered glass diffuser
EM3	– Emergency version 3 hours	T830	– Color temperature 3000K
IP65	– IP65 version with screws fixing	T840	– Color temperature 4000K
OP	– Opal diffuser	T857	– Color temperature 5700K
PRZ	– Prismatic diffuser		

NORTHCLIFFE
MAKING LIFE BRIGHTER

EMERGENCY LIGHTING

www.northcliffe.org

EMERGENCY MONITORING SYSTEM



Description: In buildings where 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 $2 \times 0,5 \text{ mm}^2$. 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

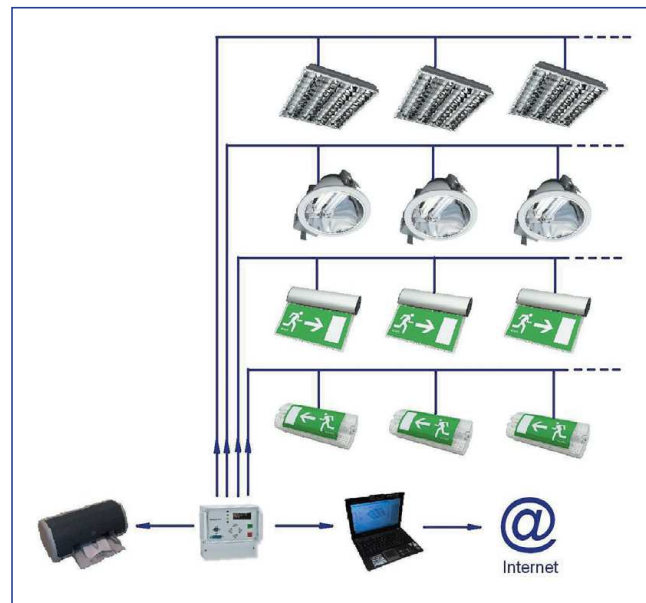
Red diode signals abnormal functioning of the fitting

Ambient temperature: 0°C to $+40^{\circ}\text{C}$

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 used within 24 hours after finishing the test. This time is needed for the recharging of the batteries discharged during the long test.

Test results are stored in the memory of the central unit and may be viewed on the central unit's display. Test reports may be printed with any printer.

CENTRAL BATTERY LOW VOLTAGE SYSTEM (CEBLV)



Description:

Today the LED light fittings are more popular in the emergency lighting systems due to their greater durability, lower energy consumption and lower temperature. In addition, the increasing requirements concerning the safety, reliability and independence of the systems and lowering costs of system installation created demand for a new system of CEBLV central battery which combines the above-mentioned functions.

Thanks to the applied output voltage of 24V DC compliant with protection class III, the CEBLV system ensures the power supply to consumers with Safety Extra-Low Voltage (SELV). The application of the SELV voltage ensures high level of safety of servicing of the system and its elements compliant with the currently valid regulations.

Furthermore, the system allows the safe performance of fire-extinguishing operation despite the existence of voltage at end circuits. The CEBLV system combines the advantages of decentralised autonomous systems with the comfort of using central battery systems.

The system is equipped with its own batteries which capacity depends on the load and the necessary time of power supply preservation in the supply mode. The system is particularly adapted to be used within a single fire zone.

The application of low voltage has another basic advantage, as it allows for the usage of a set of accumulators with smaller dimensions, and thus to reduce the dimensions of the cabinet and enable the installation of the system in places where one cannot fit a large-size central battery system.

The CEBLV unit can be powered with two kinds of voltage: 230V AC and 216V DC. This allows to connect the device to the central battery systems as substations without the necessity to install internal batteries. This functionality enables the usage of the system in buildings which require the central battery system and safety voltage in areas particularly exposed to electrical shocks.

Module controller

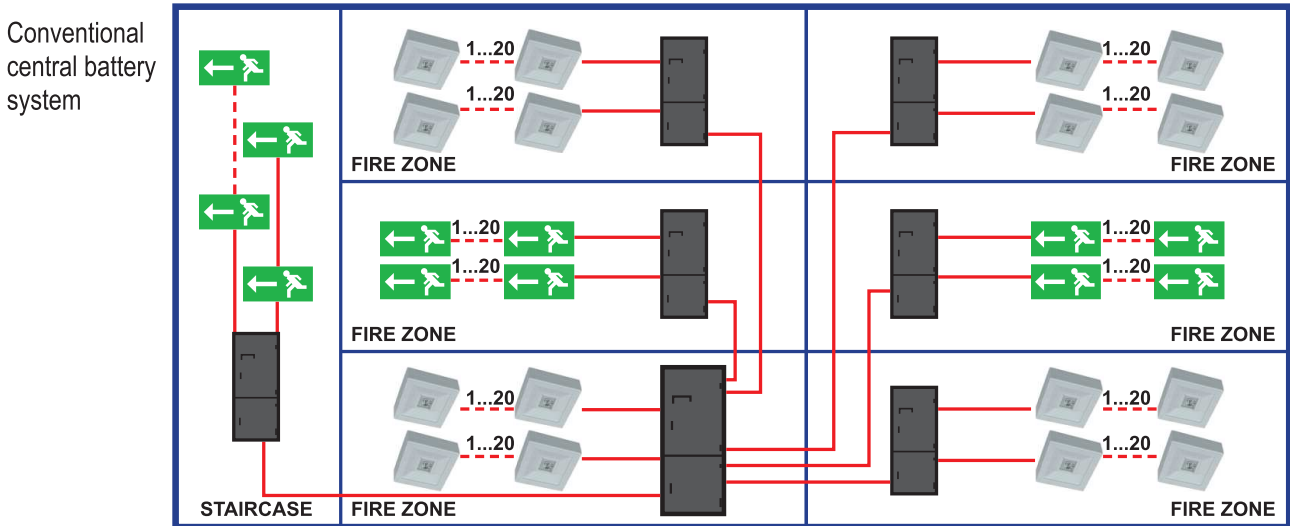
The system's module controller has a large touch panel enabling both the current reading of the status of the system, circuits and fittings, and the introduction of all settings and parameters of the system with the use of the user interface. The statuses are displayed in both graphic and text form. Using module controller one can assign a name to the fitting that will clearly help to identify the fittings installed in the system. It has a non-volatile memory storing all events and test results for the minimum period of 2 years, there is a menu with language selection options, system configuration and event log are saved on a SD card, normally inbuilt Ethernet interface enabling remote control of the system via the Internet, signalisation of the system status, automatic adding of fittings, configuration of the working modes and controls for every fitting. Touch Controller enables remote control of practically unlimited number of units from one central point. The controller ensures remote view, configuration and reading of events of every unit of the connected CEBLV system unit.



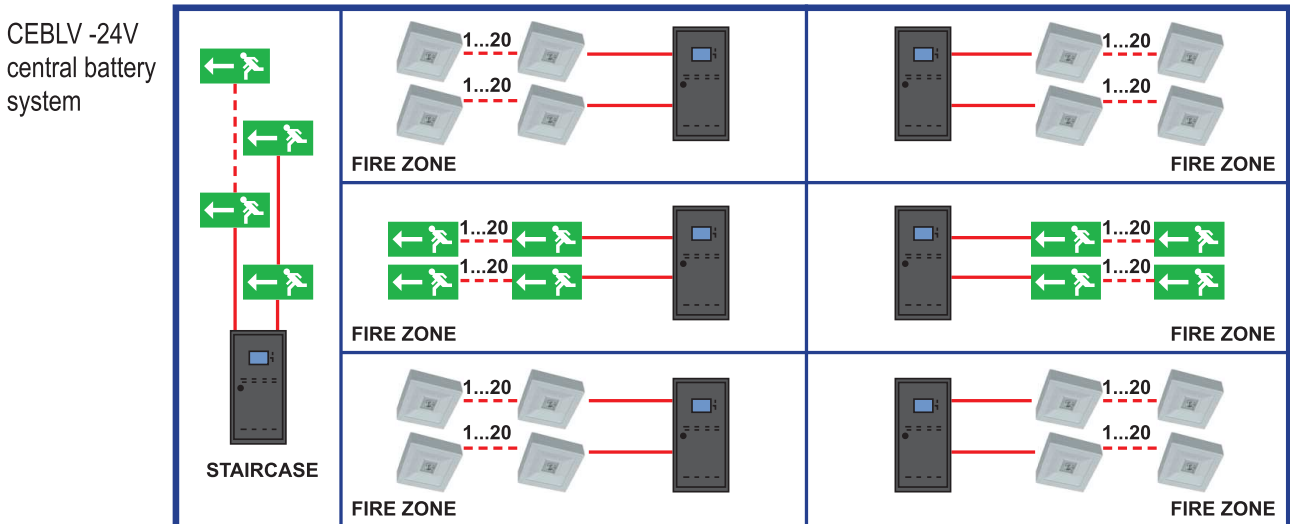
Available functions in the Touch Controller:

- Start of the function test/ battery test
- System blockade on/off
- Access to the controller is secured by password
- Reading of the status of individual systems
- Status of the circuits
- Status of the fittings
- Programming of test schedule
- View of events in the system
- Programming of the working mode of the circuit/fitting

Comparison of different power supply concepts: conventional and decentralised.



EVENT	RESULT
Failure of the main station	Failure of the entire emergency lighting system
Failure of cabling, main station – substation	Failure of the entire substation
Damage at the end circuit insulation	Shock threat to the service crew



EVENT	RESULT
Failure of the main station	No central system
Failure of cabling, main station – substation	Every system is independent, failure only in the fire zone
Damage at the end circuit insulation	Minimal shock threat, SELV

New Automatic Technology

The conventional installation of systems requires the specification of the work modes of individual circuits as early as the design phase. Any potential changes or mistakes can be very costly. In order to eliminate the above-mentioned inconveniences a new fully automatic technology controlling and steering every fitting in the circuit introduced.

This technology enables the installation of fittings working in three modes: constant, switching and switching-dimming within one circuit. The fittings are programmed and controlled via power supply cabling. The applied technology does not require a dedicated communication cabling. This technology is possible with the use of appropriate address modules in the fittings. These modules are normally installed in fittings dedicated to the **CEBLV** system. Each address module has a unique address with the help of which it is clearly identifiable in the system.

Advantages of New Automatic Technology

Installation of fittings working in different modes: light, dark, switching, switching-dimming within one circuit which provides such benefits as, shorter length of cables, reduction of the number of circuits, lower installation costs, possibility of changes in the work mode of every lamp in the future.

Conventional installation differs from New Automatic Technology in the following aspects, only one kind of fitting work at the end circuit, higher costs of installation, higher costs of later changes.

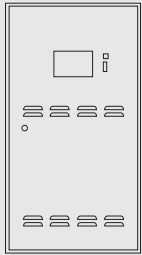
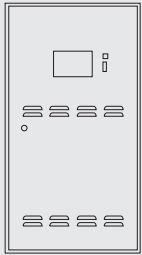
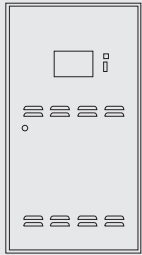
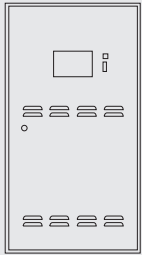
The **CEBLV** is normally equipped with the Ethernet plug which enables remote view of the status and configuration of the system via www site. With this solution almost everyone can remotely control the system without the necessity to purchase specialist software. It is sufficient to install an Internet browser. In order to connect the system to the Internet one should connect the system to the existing structural network in the building where it is installed. Every unit, circuit and fitting can be monitored via the website. The access to the website is secured by a password.

Vast installations with many systems can be supervised in one central point with the use of the optional software. The software integration involves the connection to the existing structural network (LAN).










Available remote functions are, start of function test/battery test, system blockade on/off, printout of errors, status of the system, status of the circuits, status of fittings.

LIST OF CABINETS

Technical data FZLV MAX– 26 Ah FZLV MAX – 52 Ah

Technical data	CEBLV -12Ah	CEBLV -24Ah	CEBLV -26Ah	CEBLV -52Ah
Protection class: I				
Ingress protection: IP 20				
DC voltage: 24V +/- 30%				
Operating temperature: - 50C to 300C				
Power supply voltage	AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20%	AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20%	AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20%	AC: 1-phase 230V +/- 10%, 50-60Hz or DC: 216V +/- 20%
Battery capacity	12 Ah	24 Ah	26 Ah	52 Ah
Maximum power load				
1h	123W	219W	263W	288W
2h	70W	142W	154W	288W
3h	49W	102W	110W	219W
8h	21W	47W	51W	106W
Number of circuits	4	4	4	4
Maximum circuit load	72 W	72 W	72 W	72 W
Terminal connectors [mm ²]				
Power supply circuit connector	2.5	2.5	2.5	2.5
CAN bus	2.5	2.5	2.5	2.5
24V out power connector	2.5	2.5	2.5	2.5
Potential inputs	2.5	2.5	2.5	2.5
Phase loss sensor connector	2.5	2.5	2.5	2.5
Blockade connector	2.5	2.5	2.5	2.5
Potential-free inputs	2.5	2.5	2.5	2.5
Potential-free outputs				
Cable culverts	9 x M20 6 x M16	9 x M20 6 x M16	1 x M25 9 x M20 6 x M16	1 x M25 9 x M20 6 x M16
Weight	15.5 kg	24.3 kg	31.1kg	48.3 kg
Dimensions [mm]	472x266x140	639x266x140	800x400x170	800x400x170

LIST OF FITTINGS SUITABLE FOR LOW VOLTAGE CENTRAL BATTERY SYSTEM

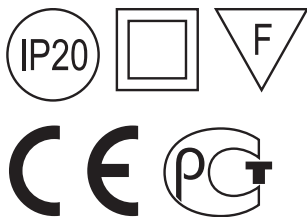
	Fitting	Light source	Max.power consumption	Operat- ing time	Number of fittings			
					LV-12Ah	LV-24Ah	LV-26Ah	LV-52Ah
	APOLLO LED	1.2W	1.3W	1 h	80	80	80	80
				2 h	54	80	80	80
				3 h	38	78	80	80
				8 h	16	36	39	80
	SCORPIUS LED	1.2W	1.3W	1 h	80	80	80	80
				2 h	54	80	80	80
				3 h	38	78	80	80
				8 h	16	36	39	80
	TAURUS	1.2W	1.3W	1 h	80	80	80	80
				2 h	54	80	80	80
				3 h	38	78	80	80
				8 h	16	36	39	80
	CAPELLA	1.2W	1.3W	1 h	80	80	80	80
				2 h	54	80	80	80
				3 h	38	78	80	80
				8 h	16	36	39	80
	APOLLO HIGH	3 x 1W	3.5W	1 h	35	63	75	80
				2 h	20	41	44	80
				3 h	14	29	31	63
				8 h	6	13	15	30
	ARA	3 x 1W	3.5W	1 h	35	63	75	80
				2 h	20	41	44	80
				3 h	14	29	31	63
				8 h	6	13	15	30
	CORRIDOR	3W	4W	1 h	31	55	66	72
				2 h	18	36	39	72
				3 h	12	26	28	55
				8 h	5	12	13	27
	LEPUS	3.6W	4.1W	1 h	30	53	64	70
				2 h	17	35	38	70
				3 h	12	25	27	53
				8 h	5	11	12	26
	LEPORIS	3.6W	4.1W	1 h	30	53	64	70
				2 h	17	35	38	70
				3 h	12	25	27	53
				8 h	5	11	12	26

*given powers do not include loss in wiring

Maximum power of the circuit	Cross-section [mm ²]	Length [m]
24 W	1.5	142
	2.5	236
48 W	1.5	71
	2.5	118
72 W	1.5	48
	2.5	79

NOVA

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 12 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 LP36/1	for magnetic ballasts 8-36 W 1h	3,6V 1,5Ah	42x157x36	0,35
NOVA LP36/2	for magnetic ballasts 8-36 W 2h	3,6V 2,5Ah	42x157x36	0,5
NOVA LP36/3	for magnetic ballasts 8-36 W 3h	3,6V 4Ah	42x157x36	0,75
NOVA LP58/1	for magnetic ballasts 36-58 W 1h	4,8V 1,5Ah	42x157x36	0,45
NOVA LP58/2	for magnetic ballasts 36-58 W 2h	4,8V 2,5Ah	42x157x36	0,6
NOVA LP58/3	for magnetic ballasts 36-58 W 3h	4,8V 4Ah	42x157x36	0,85
NOVA LP80/1	for magnetic ballasts 58-80 W 1h	6,0V 1,5Ah	42x157x36	0,5
NOVA LP80/2	for magnetic ballasts 58-80 W 2h	6,0V 2,5Ah	42x157x36	0,65
NOVA LP80/3	for magnetic ballasts 58-80 W 3h	6,0V 4Ah	42x157x36	0,95
NOVA LEP36/1	for electronic ballasts 8-36 W 1h	3,6V 1,5Ah	42x157x36	0,35
NOVA LEP36/2	for electronic ballasts 8-36 W 2h	3,6V 2,5Ah	42x157x36	0,5
NOVA LEP36/3	for electronic ballasts 8-36 W 3h	3,6V 4Ah	42x157x36	0,75
NOVA LEP58/1	for electronic ballasts 36-58 W 1h	4,8V 1,5Ah	42x157x36	0,45
NOVA LEP58/2	for electronic ballasts 36-58 W 2h	4,8V 2,5Ah	42x157x36	0,6
NOVA LEP58/3	for electronic ballasts 36-58 W 3h	4,8V 4Ah	42x157x36	0,85
NOVA LEP80/1	for electronic ballasts 58-80 W 1h	6,0V 1,5Ah	42x157x36	0,5
NOVA LEP80/2	for electronic ballasts 58-80 W 2h	6,0V 2,5Ah	42x157x36	0,65
NOVA LEP80/3	for electronic ballasts 58-80 W 3h	6,0V 4Ah	42x157x36	0,95

Options available on request:

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

NOVA

tmin-25°C

Emergency
Conversion Kit for low
temperature applications



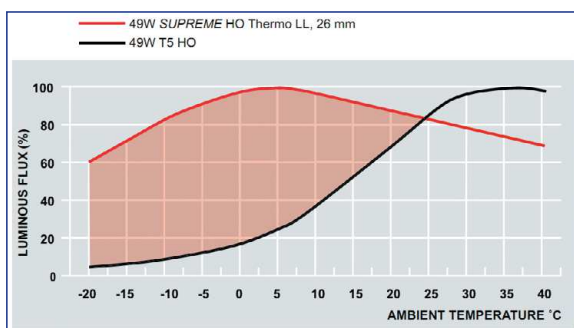
Type: A range of Conversion kits for use in cold stores and other low temperature environments. One-hour or two-hour standby operation with a recharge time of 24 hours.
Ambient temperature: -25°C to +55°C.

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	42x157x36	0,35
Nova L36/2 tmin-25	for magnetic ballasts 8-36 W 2h	4V 5,0 Ah	42x157x36	0,5
Nova L58/1 tmin-25	for magnetic ballasts 36-58 W 1h	6V 2,5 Ah	42x157x36	0,45
Nova L58/2 tmin-25	for magnetic ballasts 36-58 W 2h	6V 5,0 Ah	42x157x36	0,6
Nova LE36/1 tmin-25	for electronic ballasts 8-36 W 1h	4V 2,5 Ah	42x157x36	0,35
Nova LE36/2 tmin-25	for electronic ballasts 8-36 W 2h	4V 5,0 Ah	42x157x36	0,5
Nova LE58/1 tmin-25	for electronic ballasts 36-58 W 1h	6V 2,5 Ah	42x157x36	0,45
Nova LE58/2 tmin-25	for electronic ballasts 36-58 W 2h	6V 5,0 Ah	42x157x36	0,6

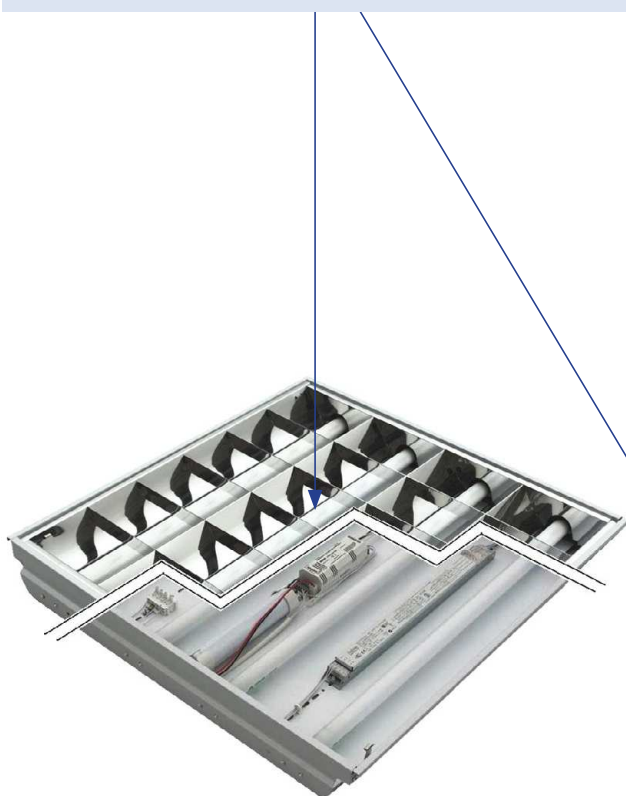


The special thermally insulated lamps should be used to obtain reliable operation in ambient temperatures -25°C and reach up to five times more light than standard lamps under the same ambient temperature conditions. The unique construction with the outer glass tube provides a thermal insulation which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

Type	T8				T5				CFL (G24d-2, G24d-3, G24q-2, G24q-3, 2G11)								
	18W	36W	38W	58W	14W	24W	21W	39W	28W	54W	35W	49W	80W	13W	18W	26W	55W
NOVA LP36/1*	+	+												+	+	+	
NOVA LP36/3*	+	+												+	+	+	
NOVA LP58/1*	+	+	+	+										+	+	+	
NOVA LP58/3*	+	+	+	+										+	+	+	
NOVA LP80/1*	+	+	+	+										+	+	+	
NOVA LP80/3*	+	+	+	+										+	+	+	
NOVA LEP36/1	+	+			+	+	+							+	+	+	
NOVA LEP36/3	+	+			+	+	+							+	+	+	
NOVA LEP58/1	+	+	+	+	+	+	+	+	+	+				+	+	+	
NOVA LEP58/3	+	+	+	+	+	+	+	+	+	+				+	+	+	
NOVA LEP80/1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
NOVA LEP80/3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* - should not 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

Išleidžiamas šviestuvus su blizgiu V formos atspindžiu T8 tipo lempoms



Tipas: Tradicinis išleidžiamas T8 šviestuvus su blizgiu V formos atspindžiu. Klasikinis dizainas bendram komercinių patalpų apšvietimui.

Specifikacija: Blizgus V formos atspindys su rifliuotais skersinukais. Siekiant didžiausio stabilumo, atspindys įmontuojamas į korpusą saugaus užrakto spaustu. Norint užtikrinti geresnę apsaugą nuo akimimo, galima pasirinkti skersinukų skaičių – nuo 5 iki 11. Visiškai uždaras dažytas plieninis korpusas. Paslėpta laidų instaliacija, nematoma žiūrint iš apačios. Šviestuvai apvynioti poliesteru ir supakuoti į dėžes po 2 vnt.

Montavimas: Tinka 15-24 mm moduliniams luboms 600x600 mm.

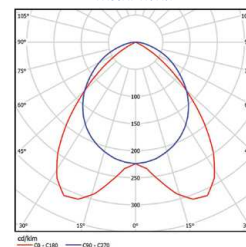
Pritaikymas: Biurai, parduotuvės ir kitos komercinės patalpos.

Pavadinimas	Lempos galia (W) ir cokolis	Matmenys, mm	Svoris, kg	Bendra galia, 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

Papildomi užsakomos opcijos:

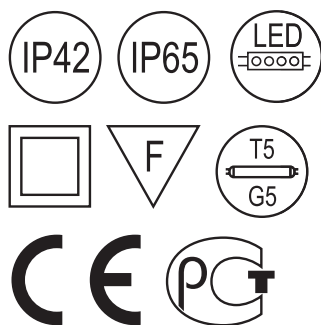
- HF – Elektroninis balastinis įtaisas
- DIM – Reguluojamas 1-10V balastinis įtaisas
- EMS – 1 val. veikimo avarinė versija
- EM2 – 2 val. veikimo avarinė versija
- EM3 – 3 val. veikimo avarinė versija
- 4TB – 4 kontaktų kaladėlė el. grandinės maitinimui ir lengvai laidų instaliacijai
- 5TB – 5 kontaktų kaladėlė el. grandinės maitinimui ir lengvai laidų instaliacijai
- MAT – Matinis atspindys
- 7CR – Atspindys su 7 skersinukais
- 9CR – Atspindys su 9 skersinukais
- 11CR – Atspindys su 11 skersinukais
- WIE – 3 polių jungtis
- NCP – Be reaktyviosios galios kompensavimo

PASSAT 418 A07



APOLLO T5/LED

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 holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
APOLLO 1H18 B85	1×8 (T5, G5)	1	IP42	Non-maintained	136x356x79	0,99
APOLLO 2H18 B86	1×8 (T5, G5)	2	IP42	Non-maintained	136x356x79	1,08
APOLLO 3H18 B87	1×8 (T5, G5)	3	IP42	Non-maintained	136x356x79	1,14
APOLLO 1P18 B88	1×8 (T5, G5)	1	IP42	Maintained	136x356x79	1,36
APOLLO 2P18 B89	1×8 (T5, G5)	2	IP42	Maintained	136x356x79	1,45
APOLLO 3P18 B90	1×8 (T5, G5)	3	IP42	Maintained	136x356x79	1,5
APOLLO 1H18 B91	1×8 (T5, G5)	1	IP65	Non-maintained	136x356x79	1
APOLLO 2H18 B92	1×8 (T5, G5)	2	IP65	Non-maintained	136x356x79	1,1
APOLLO 3H18 B93	1×8 (T5, G5)	3	IP65	Non-maintained	136x356x79	1,15
APOLLO 1P18 B94	1×8 (T5, G5)	1	IP65	Maintained	136x356x79	1,4
APOLLO 2P18 B95	1×8 (T5, G5)	2	IP65	Maintained	136x356x79	1,5
APOLLO 3P18 B96	1×8 (T5, G5)	3	IP65	Maintained	136x356x79	1,55

Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
APOLLO 1H G21 OP	1,2 LED	1	IP42	Non-maintained	136x356x79	0,99
APOLLO 2H G22 OP	1,2 LED	2	IP42	Non-maintained	136x356x79	1,08
APOLLO 3H G23 OP	1,2 LED	3	IP42	Non-maintained	136x356x79	1,14
APOLLO 1P G24 OP	1,2 LED	1	IP42	Maintained	136x356x79	1,36
APOLLO 2P G25 OP	1,2 LED	2	IP42	Maintained	136x356x79	1,45
APOLLO 3P G26 OP	1,2 LED	3	IP42	Maintained	136x356x79	1,5
APOLLO 1H G27 OP	1,2 LED	1	IP65	Non-maintained	136x356x79	1
APOLLO 2H G28 OP	1,2 LED	2	IP65	Non-maintained	136x356x79	1,1
APOLLO 3H G29 OP	1,2 LED	3	IP65	Non-maintained	136x356x79	1,15
APOLLO 1P G30 OP	1,2 LED	1	IP65	Maintained	136x356x79	1,4
APOLLO 2P G31 OP	1,2 LED	2	IP65	Maintained	136x356x79	1,5
APOLLO 3P G32 OP	1,2 LED	3	IP65	Maintained	136x356x79	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/LED

**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 holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
SCORPIUS 1H18 C04	1×8 (T5, G5)	1	IP42	Non-maintained	136x356x219	1,31
SCORPIUS 2H18 C05	1×8 (T5, G5)	2	IP42	Non-maintained	136x356x219	1,41
SCORPIUS 3H18 C06	1×8 (T5, G5)	3	IP42	Non-maintained	136x356x219	1,45
SCORPIUS 1P18 C07	1×8 (T5, G5)	1	IP42	Maintained	136x356x219	1,68
SCORPIUS 2P18 C08	1×8 (T5, G5)	2	IP42	Maintained	136x356x219	1,78
SCORPIUS 3P18 C09	1×8 (T5, G5)	3	IP42	Maintained	136x356x219	1,84
SCORPIUS 1H18 C10	1×8 (T5, G5)	1	IP65	Non-maintained	136x356x219	1,32
SCORPIUS 2H18 C11	1×8 (T5, G5)	2	IP65	Non-maintained	136x356x219	1,42
SCORPIUS 3H18 C12	1×8 (T5, G5)	3	IP65	Non-maintained	136x356x219	1,46
SCORPIUS 1P18 C13	1×8 (T5, G5)	1	IP65	Maintained	136x356x219	1,69
SCORPIUS 2P18 C14	1×8 (T5, G5)	2	IP65	Maintained	136x356x219	1,79
SCORPIUS 3P18 C15	1×8 (T5, G5)	3	IP65	Maintained	136x356x219	1,85

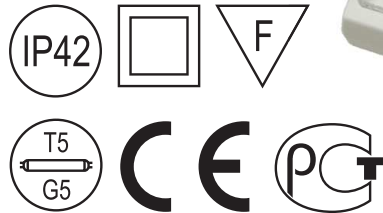
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
SCORPIUS 1H G33 OP	1,2 LED	1	IP42	Non-maintained	136x356x219	1,31
SCORPIUS 2H G34 OP	1,2 LED	2	IP42	Non-maintained	136x356x219	1,41
SCORPIUS 3H G35 OP	1,2 LED	3	IP42	Non-maintained	136x356x219	1,45
SCORPIUS 1P G36 OP	1,2 LED	1	IP42	Maintained	136x356x219	1,68
SCORPIUS 2P G37 OP	1,2 LED	2	IP42	Maintained	136x356x219	1,78
SCORPIUS 3P G38 OP	1,2 LED	3	IP42	Maintained	136x356x219	1,84
SCORPIUS 1H G39 OP	1,2 LED	1	IP65	Non-maintained	136x356x219	1,32
SCORPIUS 2H G40 OP	1,2 LED	2	IP65	Non-maintained	136x356x219	1,42
SCORPIUS 3H G41 OP	1,2 LED	3	IP65	Non-maintained	136x356x219	1,46
SCORPIUS 1P G42 OP	1,2 LED	1	IP65	Maintained	136x356x219	1,69
SCORPIUS 2P G43 OP	1,2 LED	2	IP65	Maintained	136x356x219	1,79
SCORPIUS 3P G44 OP	1,2 LED	3	IP65	Maintained	136x356x219	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 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")



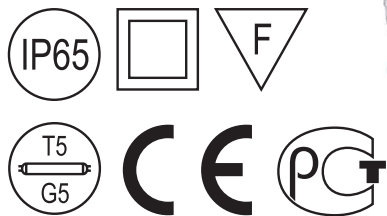
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
VEGA 1H18 B73	1×8 (T5, G5)	1	IP42	Non-maintained	144x350x50	0,72
VEGA 2H18 B74	1×8 (T5, G5)	2	IP42	Non-maintained	144x350x50	0,85
VEGA 3H18 B75	1×8 (T5, G5)	3	IP42	Non-maintained	144x350x50	0,9
VEGA 1P18 B76	1×8 (T5, G5)	1	IP42	Maintained	144x350x50	0,77
VEGA 2P18 B77	1×8 (T5, G5)	2	IP42	Maintained	144x350x50	0,9
VEGA 3P18 B78	1×8 (T5, G5)	3	IP42	Maintained	144x350x50	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 electronic AC/DC ballast compatible with any central battery system
- EMS – The emergency monitoring system

ARIAS T5

IP65 Emergency Luminaire



Type: A range of 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

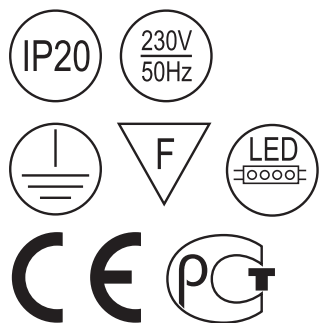
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
ARIAS 1H28 G53	2×8 (T5, G5)	1	IP65	Non-maintained	160x400x100	1,21
ARIAS 2H28 G54	2×8 (T5, G5)	2	IP65	Non-maintained	160x400x100	1,3
ARIAS 3H28 G55	2×8 (T5, G5)	3	IP65	Non-maintained	160x400x100	1,47
ARIAS 1P28 G56	2×8 (T5, G5)	1	IP65	Maintained	160x400x100	1,9
ARIAS 2P28 G57	2×8 (T5, G5)	2	IP65	Maintained	160x400x100	1,94
ARIAS 3P28 G58	2×8 (T5, G5)	3	IP65	Maintained	160x400x100	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 30 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/walls of any type, including flammable surfaces, or suspended.

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

Supplied with legend kits ("Exit", "Left" and "Right") and ceiling (+wall) mounting kit.



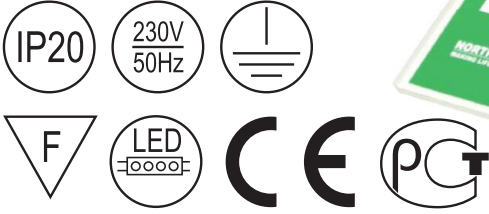
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
TAURUS 1H G05 Deluxe	1,2 LED	1	IP20	Non-maintained	43x315x243	0,95
TAURUS 2H G06 Deluxe	1,2 LED	2	IP20	Non-maintained	43x315x243	1,05
TAURUS 3H G07 Deluxe	1,2 LED	3	IP20	Non-maintained	43x315x243	1,15
TAURUS 1P G08 Deluxe	1,2 LED	1	IP20	Maintained	43x315x243	1,45
TAURUS 2P G09 Deluxe	1,2 LED	2	IP20	Maintained	43x315x243	1,5
TAURUS 3P G10 Deluxe	1,2 LED	3	IP20	Maintained	43x315x243	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
- IP54 – IP54 protection

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 24 hours.
Ambient temperature: 0°C to +40°C.
Recognition distance 30 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")



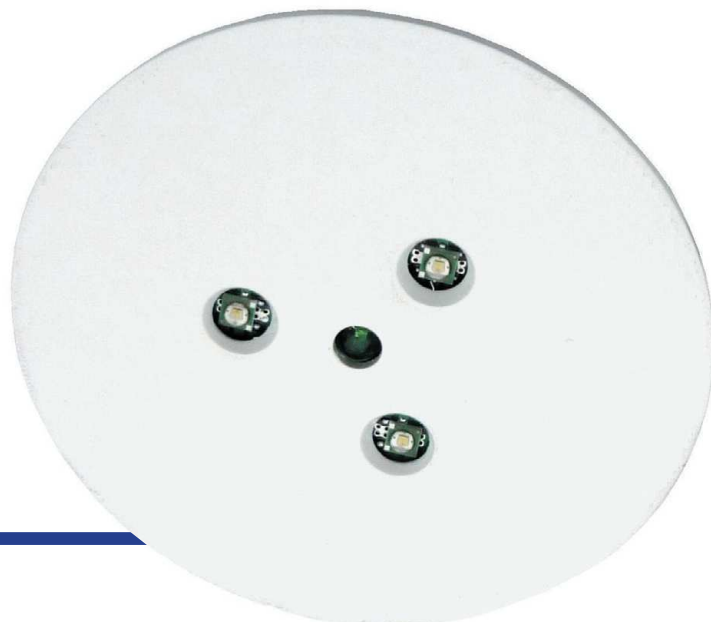
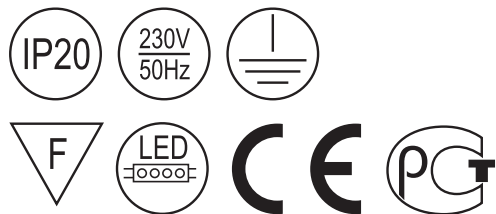
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
CAPELLA 1H G17	1,2 LED	1	IP20	Non-maintained	110x355x210	1,4
CAPELLA 2H G18	1,2 LED	2	IP20	Non-maintained	110x355x210	1,5
CAPELLA 3H C24	1,2 LED	3	IP20	Non-maintained	110x355x210	1,6
CAPELLA 1P G19	1,2 LED	1	IP20	Maintained	110x355x210	1,9
CAPELLA 2P G20	1,2 LED	2	IP20	Maintained	110x355x210	1,95
CAPELLA 3P C25	1,2 LED	3	IP20	Maintained	110x355x210	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 12 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	3x1 (LED)	1	IP20	Non-maintained	Ø70x45	0,95
Ara 2HLED J02	3x1 (LED)	2	IP20	Non-maintained	Ø70x45	1,05
Ara 3HLED J03	3x1 (LED)	3	IP20	Non-maintained	Ø70x45	1,15
Ara 1PLED J04	3x1 (LED)	1	IP20	Maintained	Ø70x45	1,45
Ara 2PLED J05	3x1 (LED)	2	IP20	Maintained	Ø70x45	1,5
Ara 3PLED J06	3x1 (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

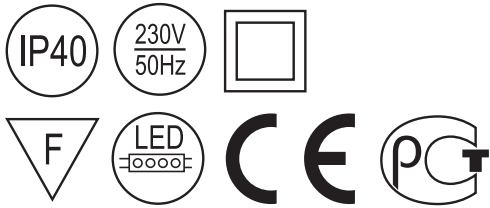
Height, m	Mounting distance from the wall, m (1lx)	Mounting distance between the fittings, m (1lx)
2,5	4	9
3	3,5	8
3,5	3,5	8
4	3,5	8
4,5	3	8
5	3	8
6	3	8
7	3	8
8	3	8

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 12 hours. Ambient temperature: 0°C to +40°C.
- Specification:** White thermoplastic body. Power LED 3W diode. 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.



SUR- Surface LED emergency lighting luminaire version. See option list.

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
- SUR – Surface version

Escape route illumination

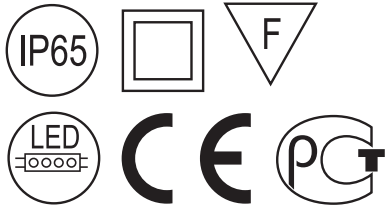
Height, m	Mounting distance from the wall, m (1lx)	Mounting distance between the fittings, m (1lx)
2,5	8	15
3	8	18
3,5	8	19
4	8	20
4,5	8	20
5	7	20
6	7	16
7	7	15
8	7	15

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

APOLLO HIGH

LED IP65 Emergency Luminaire



Type: A range of IP65 LED emergency lighting luminaire for high mounting applications.
Operations: mains and emergency.
Three-hour standby operation with a recharge time of 12 hours.
Ambient temperature: 0°C to +40°C.

Specification: Durable transparent polycarbonate IP65 diffuser.
White thermoplastic body. Power LED 3x1W diodes. High-temperature nickel-cadmium battery.
Luminaire is plastic-wrapped and boxed individually.

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

Application: For emergency escape routes and open areas.

Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
Apollo HIGH 1HLED R38	3x1 (LED)	1	IP65	Non-maintained	136x356x79	1
Apollo HIGH 2HLED R39	3x1 (LED)	2	IP65	Non-maintained	136x356x79	1,1
Apollo HIGH 3HLED R40	3x1 (LED)	3	IP65	Non-maintained	136x356x79	1,15
Apollo HIGH 1PLED R41	3x1 (LED)	1	IP65	Maintained	136x356x79	1,4
Apollo HIGH 2PLED R42	3x1 (LED)	2	IP65	Maintained	136x356x79	1,5
Apollo HIGH 3PLED R43	3x1 (LED)	3	IP65	Maintained	136x356x79	1,55

Options available on request:

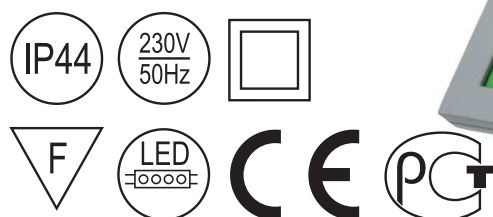
- AUT – The fitting is equipped with an autonomous testing system
- NET – The fitting is operating with regular power 230V 50Hz is not equipped with emergency function
- CEB – The fitting is equipped with electronic AC/DC ballast compatible with any central battery system
- EMS – The emergency monitoring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

Open area illumination

Height, m	Mounting distance from the wall, m (1lx)	Mounting distance between the fittings, m (1lx)
8	4,5	8,5
8,5	4,5	8,5
9	4,5	9
9,5	4,5	9
10	4,5	9,5
10,5	4,5	9,5
11	4,5	9,5
11,5	4,5	9,5
12	4,5	9,5

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 12 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 kits ("Exit", "Left" and "Right")



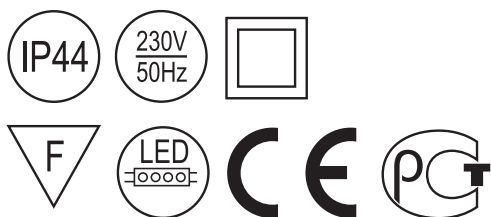
Type	Lamp type	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
Lepus 1HLED J13	3,6 LED	1	IP44	Non-maintained	45x330x180	0,95
Lepus 2HLED J14	3,6 LED	2	IP44	Non-maintained	45x330x180	1,05
Lepus 3HLED J15	3,6 LED	3	IP44	Non-maintained	45x330x180	1,15
Lepus 1PLED J16	3,6 LED	1	IP44	Maintained	45x330x180	1,45
Lepus 2PLED J17	3,6 LED	2	IP44	Maintained	45x330x180	1,5
Lepus 3PLED J18	3,6 LED	3	IP44	Maintained	45x330x180	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 12 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 kits ("Exit", "Left" and "Right")



Arrow Exit



Arrow Left



Arrow Right

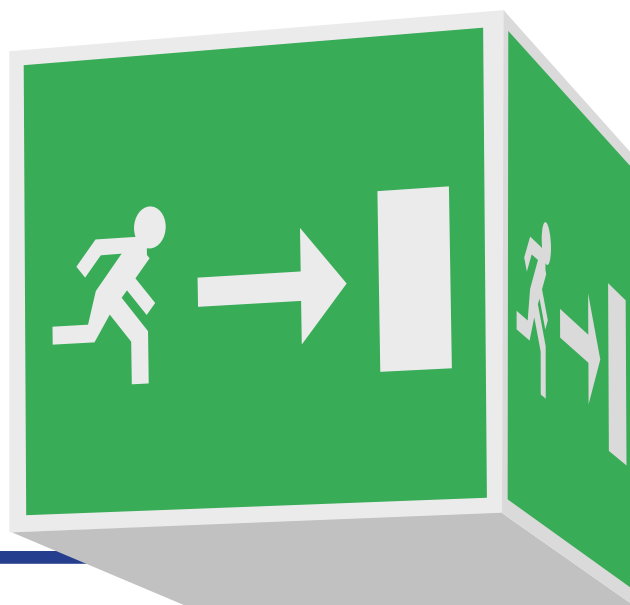
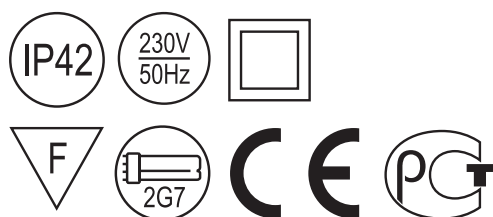
Type	Lamp type	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
Leporis 1HLED J19 ROPE	3,6 LED	1	IP44	Non-maintained	45x330x1250(250)	0,95
Leporis 2HLED J20 ROPE	3,6 LED	2	IP44	Non-maintained	45x330x1250(250)	1,05
Leporis 3HLED J21 ROPE	3,6 LED	3	IP44	Non-maintained	45x330x1250(250)	1,15
Leporis 1PLED J22 ROPE	3,6 LED	1	IP44	Maintained	45x330x1250(250)	1,45
Leporis 2PLED J23 ROPE	3,6 LED	2	IP44	Maintained	45x330x1250(250)	1,5
Leporis 3PLED J24 ROPE	3,6 LED	3	IP44	Maintained	45x330x1250(250)	1,55
Leporis 1HLED J19	3,6 LED	1	IP44	Non-maintained	45x330x250	0,95
Leporis 2HLED J20	3,6 LED	2	IP44	Non-maintained	45x330x250	1,05
Leporis 3HLED J21	3,6 LED	3	IP44	Non-maintained	45x330x250	1,15
Leporis 1PLED J22	3,6 LED	1	IP44	Maintained	45x330x250	1,45
Leporis 2PLED J23	3,6 LED	2	IP44	Maintained	45x330x250	1,5
Leporis 3PLED J24	3,6 LED	3	IP44	Maintained	45x330x250	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")



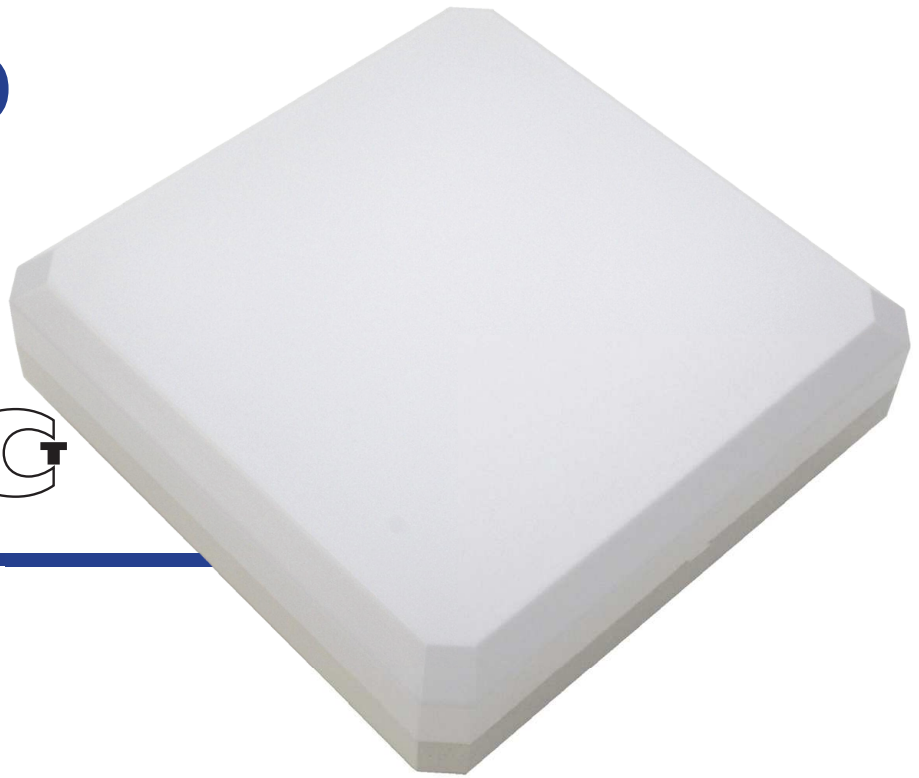
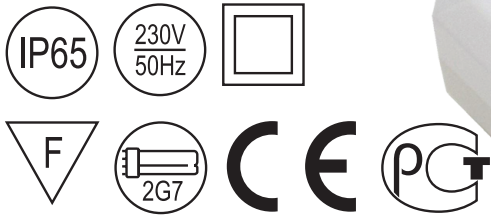
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
Season 1H111 J25	1x11 (TC-EL, 2G7)	1	IP42	Non-maintained	240x240x240	2,31
Season 2H111 J26	1x11 (TC-EL, 2G7)	2	IP42	Non-maintained	240x240x240	2,41
Season 3H111 J27	1x11 (TC-EL, 2G7)	3	IP42	Non-maintained	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 white polycarbonate 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.

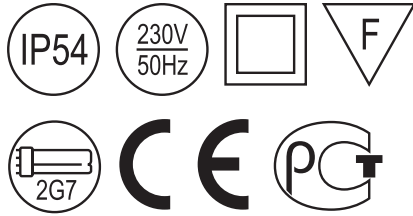
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm
DORADO 1H111 O74	1x11 (TC-EL, 2G7)	1	IP65	Non-maintained	300x300x83
DORADO 2H111 O75	1x11 (TC-EL, 2G7)	2	IP65	Non-maintained	300x300x83
DORADO 3H111 O76	1x11 (TC-EL, 2G7)	3	IP65	Non-maintained	300x300x83
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.

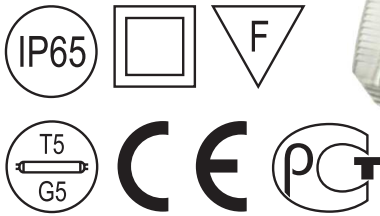
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm
POLLUX 1H19 C32	1×9 (TC-SEL, 2G7)	1	IP54	Non-maintained	ø260x58
POLLUX 2H19 C33	1×9 (TC-SEL, 2G7)	2	IP54	Non-maintained	ø260x58
POLLUX 3H19 C34	1×9 (TC-SEL, 2G7)	3	IP54	Non-maintained	ø260x58
POLLUX 1P19 C35	1×9 (TC-SEL, 2G7)	1	IP54	Maintained	ø260x58
POLLUX 2P19 C36	1×9 (TC-SEL, 2G7)	2	IP54	Maintained	ø260x58
POLLUX 3P19 C37	1×9 (TC-SEL, 2G7)	3	IP54	Maintained	ø260x58

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 thermoplastic 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")



Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
LIBRA 3H18 G11	1×8 (T5, G5)	3	IP65	Non-maintained	120x360x80	1,35
LIBRA 3P18 G12	1×8 (T5, G5)	3	IP65	Maintained	120x360x80	1,35

Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
LIBRA 3HLED B231 OP	2,0 LED	3	IP65	Non-maintained	120x360x80	1,35
LIBRA 3PLED B234 OP	2,0 LED	3	IP65	Maintained	120x360x80	1,35

Options available on request:

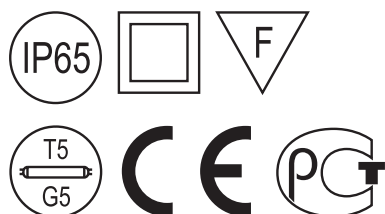
- SPORT – protective grid
- TEST – Test button



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.

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 termoplastic 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 holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
HYDRA 3H18 G13	1×8 (T5, G5)	3	IP65	Non-maintained	120x355x170	1,65
HYDRA 3P18 G14	1×8 (T5, G5)	3	IP65	Maintained	120x355x170	1,65

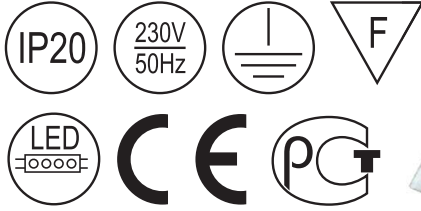
Type	Lamp (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
HYDRA 3HLED B237	2,0 LED	3	IP65	Non-maintained	120x355x170	1,65
HYDRA 3PLED B240	2,0 LED	3	IP65	Maintained	120x355x170	1,65

Options available on request:

TEST – test button

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 (W) and holder	Operating time, hours	IP level	Illumination modes	Overall dimensions, mm	Weight, kg
ZETA 3H18 G15	2,0 LED	3	IP65	Non-maintained	34×353×250	1,4
ZETA 3P18 G16	2,0 LED	3	IP65	Maintained	34×353×250	1,4



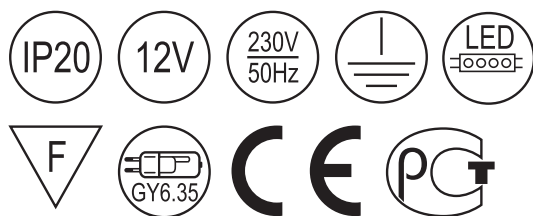
NORTHCLIFFE
MAKING LIFE BRIGHTER

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. Faceted 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
PEGASUS 150 B29	1×50W (GY6,35)	190×190×173	0,8	50
PEGASUS 250 B30	2×50W (GY6,35)	190×375×173	1,6	100
PEGASUS 350 B31	3×50W (GY6,35)	190×550×173	2,2	150
PEGASUS 450 B32	4×50W (GY6,35)	350×350×173	3,0	200

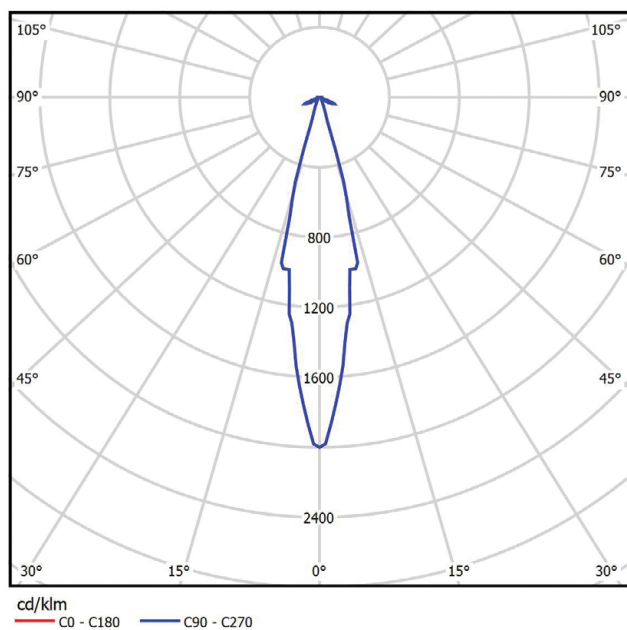
Options available on request:

- HV – version with lamps for 220-240V AC voltage
- RAL – RAL colors



Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Pegasus HID 135 O97 HF	1x35W (GX8,5)	190x190x173	1,2	39
Pegasus HID 170 O98 HF	1x70W (GX8,5)	190x190x173	1,2	78
Pegasus HID 235 O99 HF	2x35W (GX8,5)	190x375x173	2	87
Pegasus HID 270 P01 HF	2x70W (GX8,5)	190x375x173	2	156
Pegasus HID 335 Q38 HF	3x35W (GX8,5)	190x550x173	3	126
Pegasus HID 370 Q39 HF	3x70W (GX8,5)	190x550x173	3	234
Pegasus HID 435 P02 HF	4x35W (GX8,5)	350x350x173	3,6	174
Pegasus HID 470 P03 HF	4x70W (GX8,5)	350x350x173	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



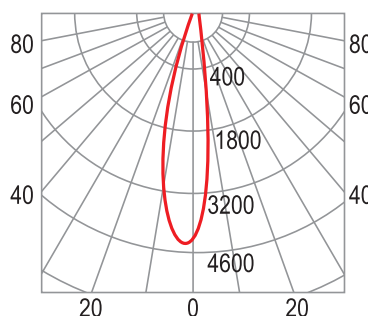
Fittings with a 50W halogen lamps can be directly replaced by PEGASUS fitting with 10W LED unit. Reflector of LED unit designed to prevent glare and the LED is hidden behind the metal bracket and the light beam is reflected, softened and focused to a beam angle of 8, 24 or 35 ° degrees.

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Pegasus LED1x550 B119 R24 T840	205x205x123	550	4000	>80	10	0,8
Pegasus LED2x550 B120 R24 T840	390x205x123	1100	4000	>80	20	1,6
Pegasus LED3x550 B121 R24 T840	520x205x123	1650	4000	>80	30	2,2
Pegasus LED4x550 B122 R24 T840	362x362x123	2200	4000	>80	40	3,0
LAMP AR111 LED1x550 R24 T840		550	4000	>80	10	

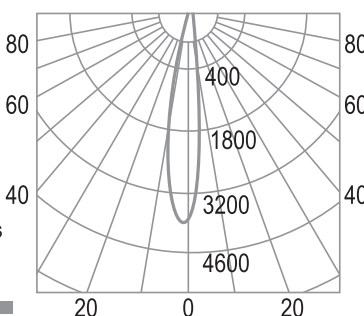
Options available on request:

RAL – RAL colours
 R24 – Reflector with 24° light beam angle
 T830 – Color temperature 3000K
 T840 – Color temperature 4000K

m	Lux	ø cm
0.5	10010	21
1	2400	43
1.5	1103	64
2	622	85



10W	50W
30 000Hrs	3 000Hrs
90°C	300°C
4200cd	4000cd

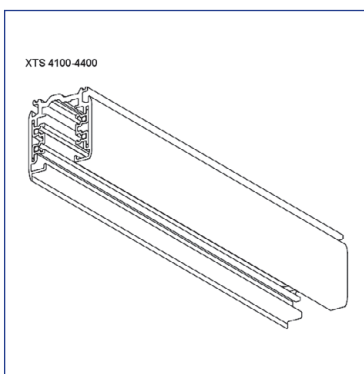
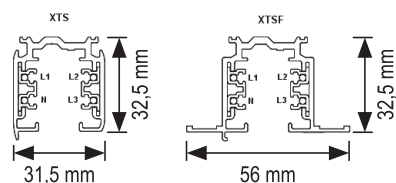
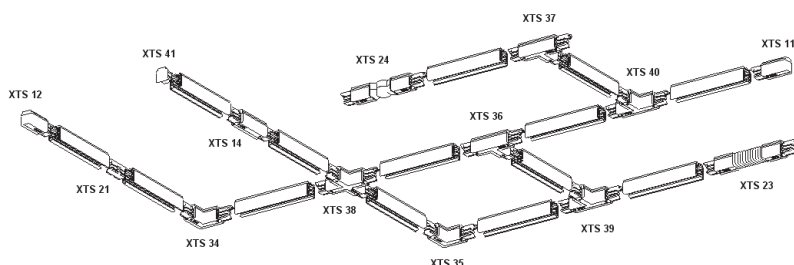




GLOBAL Track PRO

- 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 light 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 H32.5×W31.5×L1000 mm

XTS 4200 H32.5×W31.5×L2000 mm

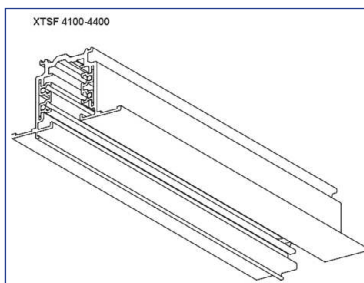
XTS 4300 H32.5×W31.5×L3000 mm

XTS 4400 H32.5×W31.5×L4000 mm

Possible connections:

1-phase, 3-circuit 230V AC, 16A, 3.7kVA IP 20

3-phase, 3-circuit 230/400V AC, 16A, 3×3.7kVA IP 20



Article: XTSE 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

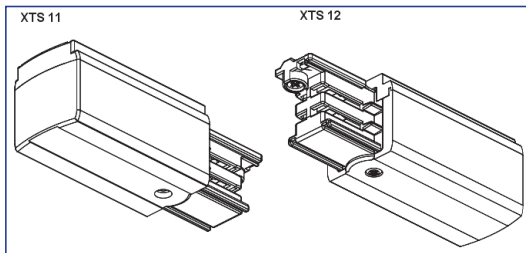
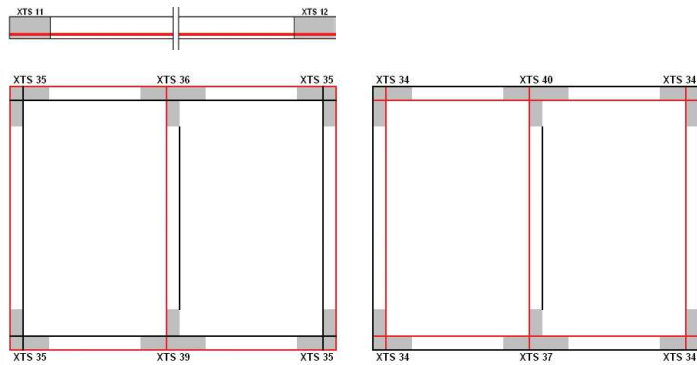
Possible connections:

1-phase, 3-circuit 230V AC, 16A, 3.7kVA IP 20

3-phase, 3-circuit 230/400V AC, 16A, 3×3.7kVA IP 20

Use of L- and T- accessories

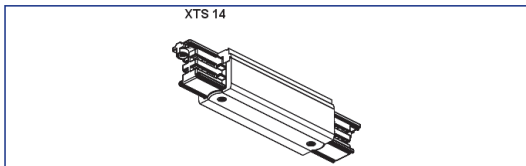
Red line indicates polarity ridge



Article: XTS 11, 12

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

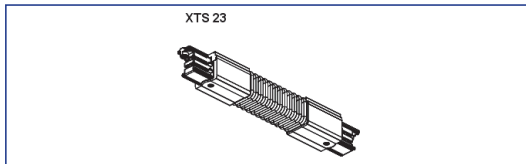
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 14

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

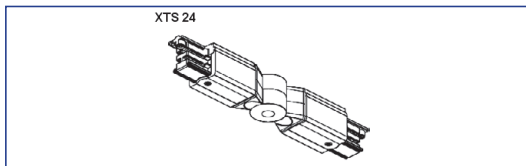
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 23

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

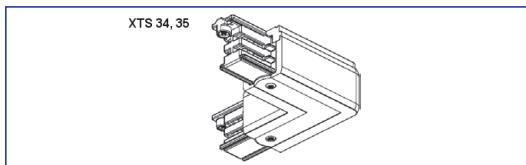
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 24

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

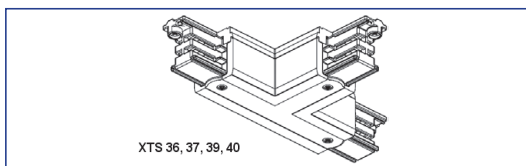
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 34, 35

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

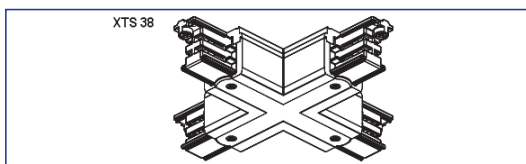
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 36, 37, 39, 40

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

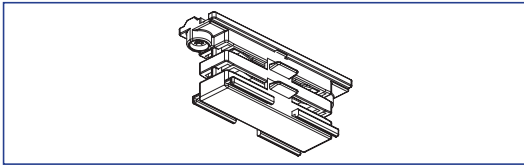
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 38

X-feed – allows distributing through 4 branches, these have 1 polarity ridge.

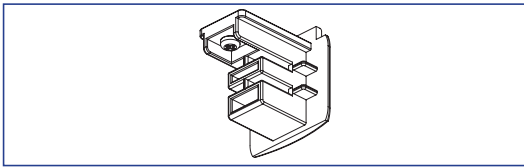
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 21

Straight connector – allows connecting tracks together.

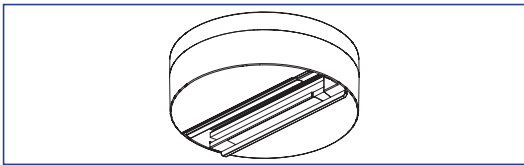
Color options: Grey (RAL 7040), white (RAL 9010), black (RAL 9005).



Article: XTS 41

End cap – used to secure live ends of track.

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



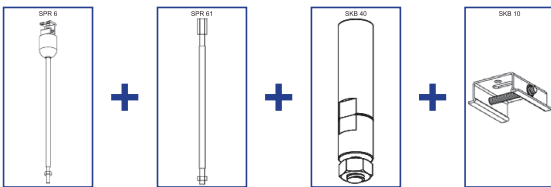
Article: GA 70

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

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

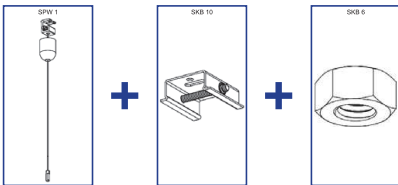
The suspension applications for track system

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



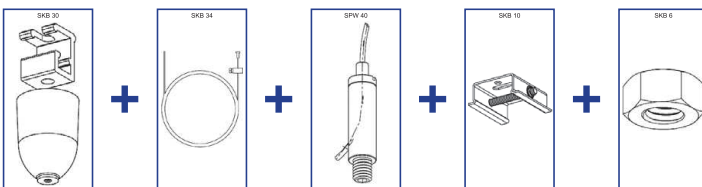
Rod suspension application with rod extension set or without:

SPR 6 **1000 mm**
SPR 61 **1000 mm**



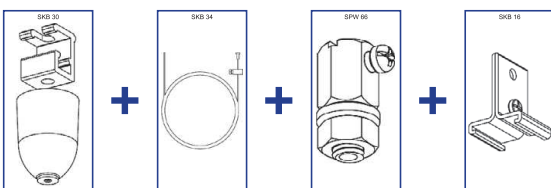
Wire suspension application with wire suspension set:

SPW 1 **1500 mm**

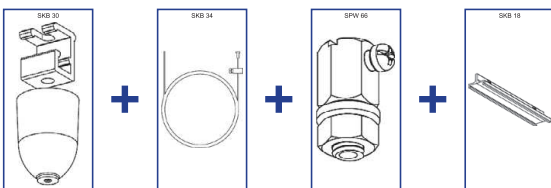


Wire suspension application with fast mounting “click” and optional wire length:

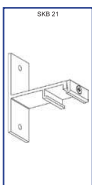
SKB 34-1 **1500 mm**
SKB 34-1/3 m **3000 mm**
SKB 34-1/5 m **3000 mm**



Wire suspension application with “T” clamp and optional wire length



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

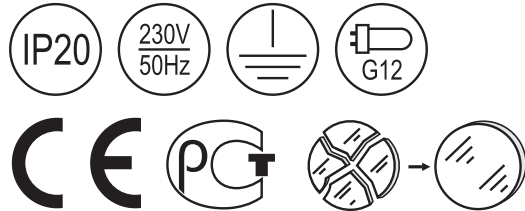


Wall fixing bracket application:

SKB 21

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 etc.



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

Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Attis 135 O86 R24 HF	1x35 W(G 12)	Ø110x90x140(130)	1,1	43
Attis 170 O87 R24 HF	1x70 W(G 12)	Ø110x90x140(130)	1,2	78

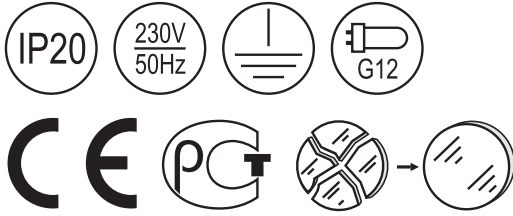
Reflector for different light beam angle is available on request.

Options available on request:

- HF – High Frequency control gear
- R24 – 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. 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 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 etc.

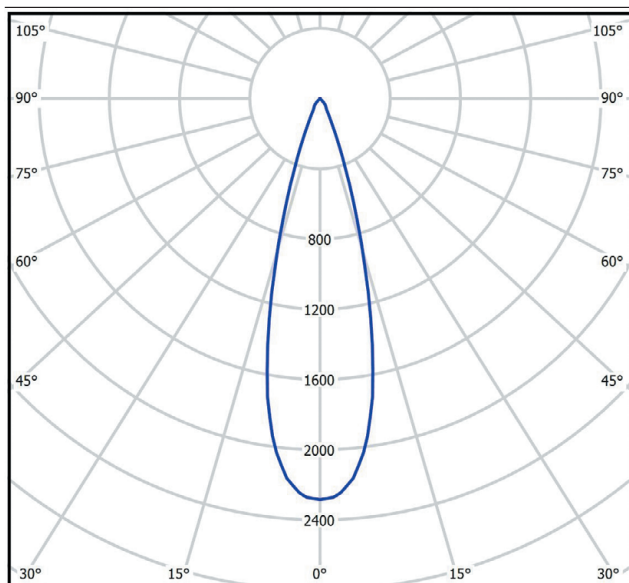
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Ares 135 I02 R24 HF	1×35 W (G12)	Ø110×140×100	1,1	43
Ares 170 I03 R24 HF	1×70 W (G12)	Ø110×140×100	1,2	78

Reflector for different light beam angle available on Request.

Options available on request:

- R24 – Reflector with 24° light beam angle
- FXP – fixed point installation box

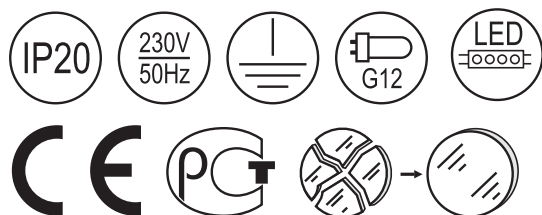
ARES 170 I03 R24 HF



cd/klm
— C0 - C180 — C90 - C270

SPHINX

Tracklight 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. 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 designed to be fixed into tracks or at fixed points by removing track adaptor.

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

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Sphinx 135 I04 R24 HF	1×35 W (G12)	Ø120×165×100	1,3	43
Sphinx 170 I05 R24 HF	1×70 W (G12)	Ø120×165×100	1,5	78

Reflector for different light beam angle available on Request.

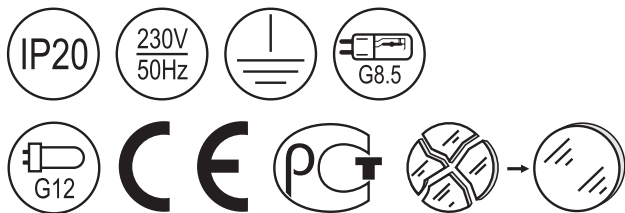
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Sphinx LED1x1000 B562 T840 R24	Ø120x165x100	1000	4000	>80	11	1,8
Sphinx LED1x2000 B563 T840 R24	Ø120x165x100	2000	4000	>80	22	1,8

Options available on request:

- R24 – Reflector with 24° light beam angle
- FXP – Fixed point installation box
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T850 – Color temperature 5000K

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 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 etc.

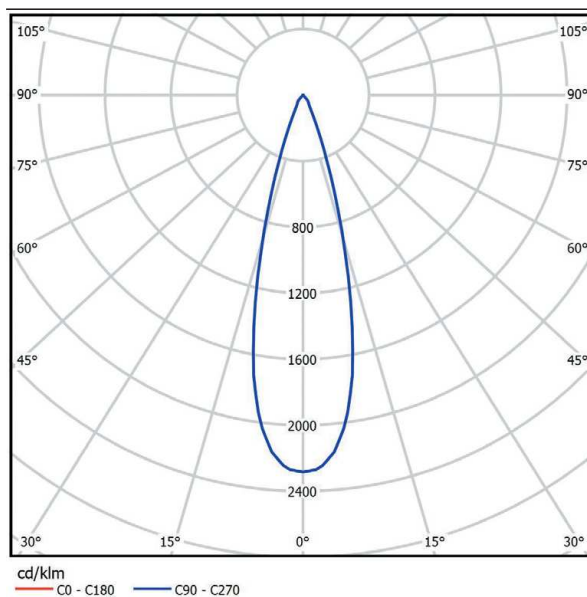
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Calipso 135 I06 R24 HF	1×35 W (G8,5)	Ø120×270×295	1,8	43
Calipso 170 I07 R24 HF	1×70 W (G8,5)	Ø120×270×295	1,9	78
Calipso B 135 I08 R24 HF	1×35 W (G12)	Ø132×245×210	2,4	43
Calipso B 170 I09 R24 HF	1×70 W (G12)	Ø132×245×210	2,5	78

Reflector for different light beam angle available on Request.

Options available on request:

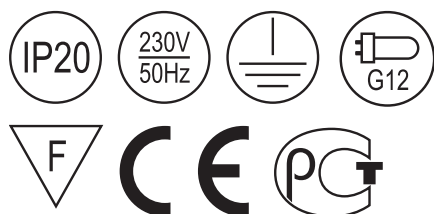
- R24 – Reflector with 24° light beam angle
- FXP – fixed point installation box

CALIPSO B 170 I09 R24 HF



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.

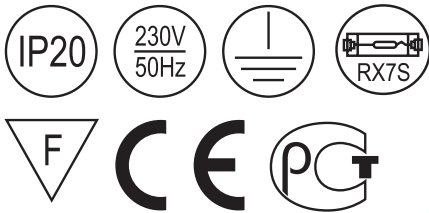
Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Canis 135 O16	1x35W (G12)	Ø191(181)x160	2,65	44
Canis 170 O17	1x70W (G12)	Ø191(181)x160	2,65	84

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- RAL – RAL 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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Delphinus 170 O18	1x70W (Rx7s)	144x230 (134x220)	2,6	84
Delphinus 1150 O19	1x150W (Rx7s)	144x230 (134x220)	3,2	168

Options available on request:

- HF – High Frequency control gear
- TIM – Timed ignitor
- RAL – RAL colors

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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Mizar 170 E01 OP	1x70W (Rx7s)	ø265(230)x195	2,7	80
Mizar 1150 E02 OP	1x150W (Rx7s)	ø265(230)x195	2,9	170
Mizar 170 D98 SOP	1x70W (Rx7s)	ø265(230)x195	2,7	80
Mizar 1150 D99 SOP	1x150W (Rx7s)	ø265(230)x195	2,9	170

Options available on request:

- HF – High Frequency control gear
- HS – For high pressure sodium lamp
- RAL – RAL colors

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DOWNLIGHTS

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ORION

Recessed Downlight for Compact Fluorescent Lamp



Orion 226 B28 FCT HF



Orion 226 B28 GLR HF



Orion 226 B28 OGL HF

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.

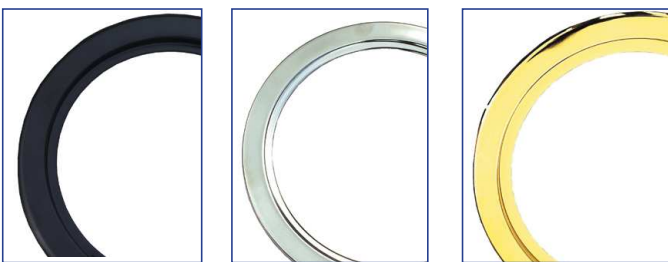


SGEARS – Versions with electronic ballasts (also DIM and DALI) and independent gear box available on request. See Option list.

Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 113 D45	1x13W (G24d-1)	ø193(165)x100	1,3	19
Orion 213 D46	2x13W (G24d-1)	ø193(165)x100	1,7	38
Orion 118 E60	1x18W (G24d-2)	ø193(165)x100	1,4	26
Orion 218 B27	2x18W (G24d-2)	ø193(165)x100	1,8	52
Orion 126 I95	1x26W (G24d-3)	ø193(165)x100	1,5	34
Orion 226 I96	2x26W (G24d-3)	ø193(165)x100	1,9	68
Orion 126 D47	1x26W (G24d-3)	ø235(205)x126	1,6	34
Orion 226 B28	2x26W (G24d-3)	ø235(205)x126	2,1	68
Orion 132 J40 HF	1x32W (Gx24q-3)	ø235(205)x126	1,2	32
Orion 142 J41 HF	1x42W (Gx24q-4)	ø235(205)x126	1,2	44
Orion 132 J38 HF	1x32W (Gx24q-3)	ø260(245)x178	1,7	32
Orion 232 K28 HF	2x32W (Gx24q-3)	ø260(245)x178	1,8	64
Orion 142 J39 HF	1x42W (Gx24q-4)	ø260(245)x178	1,7	44
Orion 242 K29 HF	2x42W (Gx24q-4)	ø260(245)x178	1,8	85
Energy saving series:				
Orion 114 O89 HF	1x14W (GR14q-1)	ø235(205)x126	1,2	18
Orion 117 O90 HF	1x17W (GR14q-1)	ø235(205)x126	1,2	21,5
Orion 114 O91 HF	1x14W (GR14q-1)	ø260(245)x178	1,7	18
Orion 214 O92 HF	2x14W (GR14q-1)	ø260(245)x178	1,8	34
Orion 117 O93 HF	1x17W (GR14q-1)	ø260(245)x178	1,7	21,5
Orion 217 O94 HF	2x17W (GR14q-1)	ø260(245)x178	1,8	41

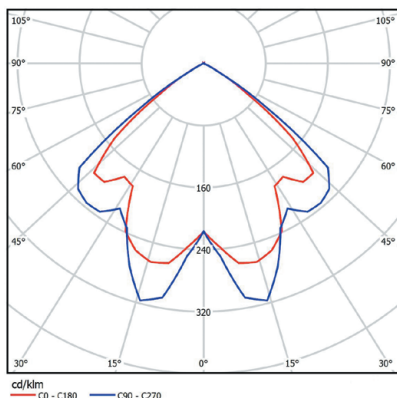
Options available on request:

- | | | | |
|-----------|---|------|--|
| HF | - High Frequency control gear | MAT | - Matt reflector |
| DIM | - Dimmable ballast 1-10V | FCT | - Facetted reflector |
| SWITCHDIM | - Switch DIM ballast | OGL | - Decorative glass outside (in middle frosted) |
| DALI | - DALI ballast | GLR | - Decorative frosted ring outside |
| EMG | - Emergency version 1 hour | RAL | - RAL colours |
| EM2 | - Emergency version 2 hours | CR | - Chrome plated ring |
| EM3 | - Emergency version 3 hours | GOLD | - Gold plated ring |
| 5TB | - 5 way terminal block for loop feed and ease of wiring | | |



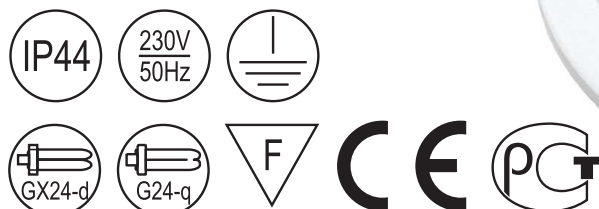
Steel ring can be optional: RAL powder coated, chrome or gold plated (see option list)

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: Matt 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.

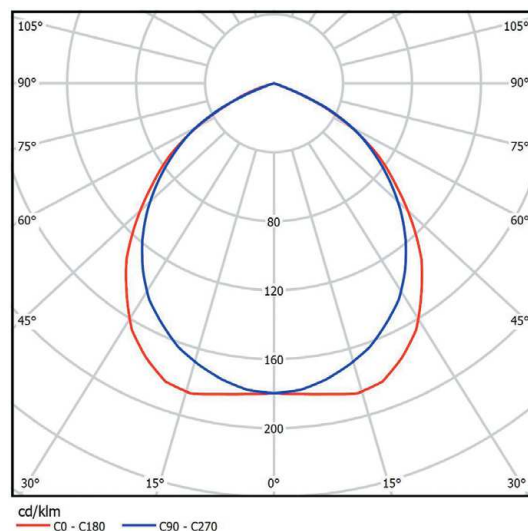
Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 113 D45 OP	1x13W (G24d-1)	ø193(165)x100	1,3	19
Orion 213 D46 OP	2x13W (G24d-1)	ø193(165)x100	1,7	38
Orion 118 E60 OP	1x18W (G24d-2)	ø193(165)x100	1,4	26
Orion 218 B27 OP	2x18W (G24d-2)	ø193(165)x100	1,8	52
Orion 126 I95 OP	1x26W (G24d-3)	ø193(165)x100	1,5	34
Orion 226 I96 OP	2x26W (G24d-3)	ø193(165)x100	1,9	68
Orion 126 D47 OP	1x26W (G24d-3)	ø235(205)x126	1,6	34
Orion 226 B28 OP	2x26W (G24d-3)	ø235(205)x126	2,1	68

1x32/42W versions available on request

Options available on request:

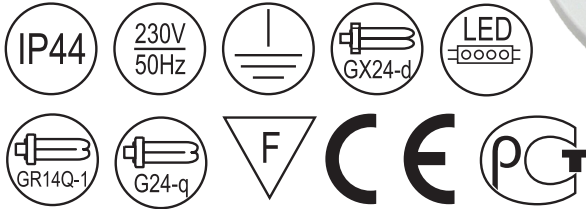
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 4TB – 4 way terminal block
- 5TB – 5 way terminal block
- PRZ – Prismatic glass
- 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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 113 D45 SOP	1x13W (G24d-1)	ø193(165)x100	1,3	19
Orion 213 D46 SOP	2x13W (G24d-1)	ø193(165)x100	1,7	38
Orion 118 E60 SOP	1x18W (G24d-2)	ø193(165)x100	1,4	26
Orion 218 B27 SOP	2x18W (G24d-2)	ø193(165)x100	1,8	52
Orion 126 I95 SOP	1x26W (G24d-3)	ø235(205)x126	1,5	34
Orion 226 I96 SOP	2x26W (G24d-3)	ø235(205)x126	1,9	68
Orion 126 D47 SOP	1x26W (G24d-3)	ø193(165)x100	1,6	34
Orion 226 B28 SOP	2x26W (G24d-3)	ø193(165)x100	2,1	68
Orion 132 J40 SOP HF	1x32W (Gx24q-3)	ø235(205)x126	1,2	32
Orion 142 J41 SOP HF	1x42W (Gx24q-4)	ø235(205)x126	1,2	44
Orion 132 J38 SOP HF	1x32W (Gx24q-3)	ø260(245)x178	1,7	32
Orion 232 K28 SOP HF	2x32W (Gx24q-3)	ø260(245)x178	1,8	64
Orion 142 J39 SOP HF	1x42W (Gx24q-4)	ø260(245)x178	1,7	44
Orion 242 K29 SOP HF	2x42W (Gx24q-4)	ø260(245)x178	1,8	85

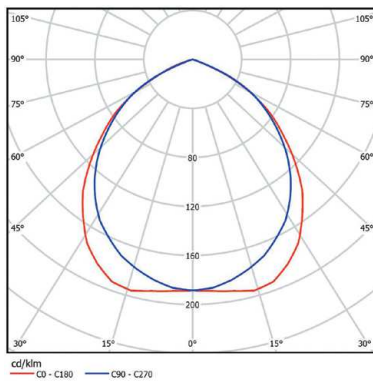
Energy saving series:

Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 114 O89 SOP HF	1x14W (GR14q-1)	ø235(205)x126	1,2	18
Orion 117 O90 SOP HF	1x17W (GR14q-1)	ø235(205)x126	1,2	21,5
Orion 114 O91 SOP HF	1x14W (GR14q-1)	ø260(245)x178	1,7	18
Orion 214 O92 SOP HF	2x14W (GR14q-1)	ø260(245)x178	1,8	34
Orion 117 O93 SOP HF	1x17W (GR14q-1)	ø260(245)x178	1,7	21,5
Orion 217 O94 SOP HF	2x17W (GR14q-1)	ø260(245)x178	1,8	41

Options available on request:

HF	– High Frequency control gear	T840	– Color temperature 4000K
DIM	– Dimmable ballast 1-10V	T857	– Color temperature 5700K
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	RAL	– RAL colors
EM2	– Emergency version 2 hours	CLR	– Clear glass
EM3	– Emergency version 3 hours	MPRZ	– Mikroprismatic diffuser
T830	– Color temperature 3000K	PRZ	– Prismatic diffuser

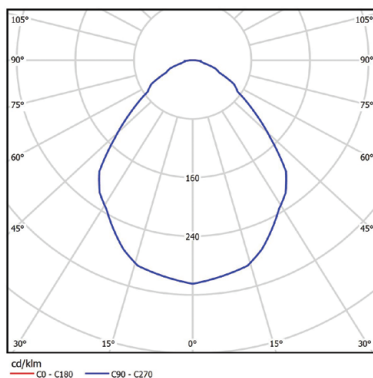
ORION 218 B27 SOP HF



LED series:

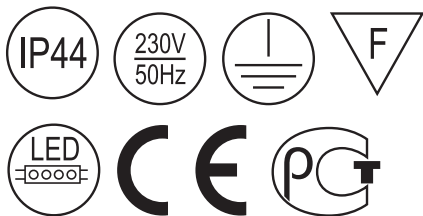
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Orion LED1x1050 B118 T840 SOP	ø235(205)x126	1050	4000	>80	11	1,5
Orion LED1x1300 B564 T840 SOP	ø235(205)x126	1300	4000	>80	13	1,5
Orion LED1x1800 B565 T840 SOP	ø235(205)x126	1800	4000	>80	18	1,5
Orion LED1x2400 B566 T840 SOP	ø235(205)x126	2400	4000	>80	24	1,5

ORION LED1X1050 B118 T840 SOP



ORION LED

Recessed Downlight with Clear Glass Cover



Type: Traditional LED downlight with clear diffuser for most applications.

Specification: Aluminum reflector with white powder coated aluminium ring. Clear glass cover with frosted circle in the middle.
Removable gearbox with termoplastic body.
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.

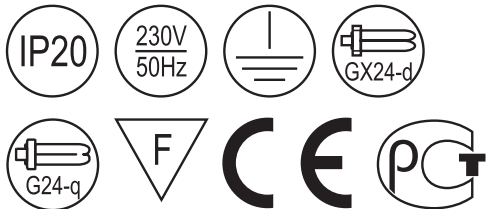
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Orion LED1x1000 B604 T840 CLR	ø195(165)x100	1000	4000	>80	11	1,5
Orion LED1x2000 B605 T840 CLR	ø195(165)x100	2000	4000	>80	22	1,5
Orion LED1x3000 B606 T840 CLR	ø195(165)x100	3000	4000	>80	33	1,5

Options available on request:

HF	- High Frequency control gear	RAL	- RAL colors
DIM	- Dimmable ballast	CLR	- Clear glass with frosted circle in the middle
SWITCHDIM	- Switch DIM ballast	MPRZ	- Mikroprismatic diffuser
DALI	- DALI ballast	PRZ	- Prismatic diffuser
EMG	- Emergency version 1 hour	T830	- Color temperature 3000K
EM2	- Emergency version 2 hours	T840	- Color temperature 4000K
EM3	- Emergency version 3 hours	T850	- Color temperature 5000K
5TB	- 5 way terminal block for loop feed and ease of wiring		

ORION MIR

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



Orion 226 B28 MR4 MAT

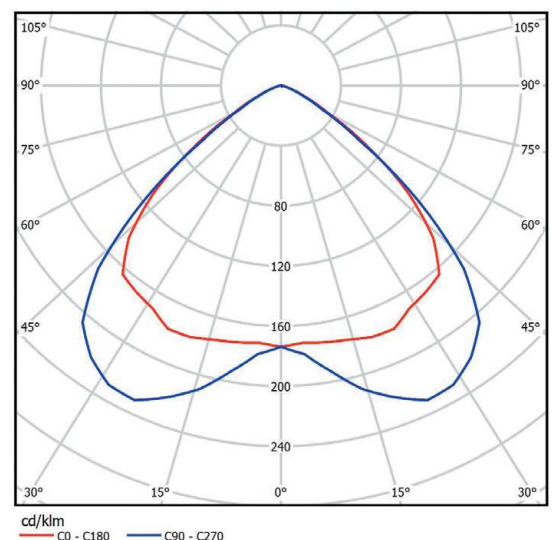
- Type:** Recessed downlight with radial louvre and horizontal lamp position for compact fluorescent lamps.
- Specification:** Gloss aluminum reflector with radial cross blades for better protection from direct glare. White powder coated steel ring outside. Body in steel with white finish, gearbox with 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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 213 D46 MIR	2x13W (G24d-1)	ø235(205)x155	1,95	38
Orion 218 B27 MIR	2x18W (G24d-2)	ø235(205)x155	1,95	42
Orion 226 B28 MIR	2x26W (G24d-3)	ø235(205)x155	2,5	60

Options available on request:

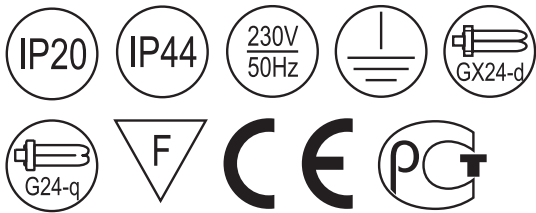
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- EMG – Emergency version 1 hour
- EM2 – Emergency version 2 hours
- EM3 – Emergency version 3 hours
- 5TB – 5 way terminal block for loop feed and ease of wiring
- MAT – Matt reflector
- 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.

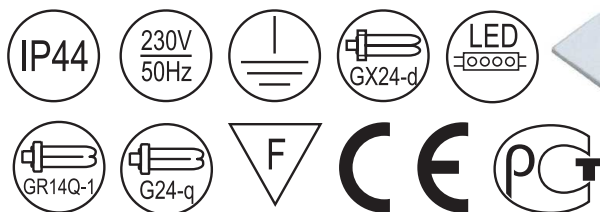
Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Ursa 1E27 I20	40W (E27)	ø180(155)x185	0,8	-
Ursa 113 I21	1x13W (G24d-1)	ø180(155)x185	1,0	19
Ursa 118 I22	1x18W (G24d-2)	ø180(155)x185	1,0	26
Ursa 1E27 I20 FCT	40W (E27)	ø180(155)x205	0,8	-
Ursa 113 I21 FCT	1x13W (G24d-1)	ø180(155)x205	1,1	19
Ursa 118 I22 FCT	1x18W (G24d-2)	ø180(155)x205	1,1	26
Ursa 1E27 I20 SOP	40W (E27)	ø180(155)x185	1,0	-
Ursa 113 I21 SOP	1x13W (G24d-1)	ø180(155)x185	1,2	19
Ursa 118 I22 SOP	1x18W (G24d-2)	ø180(155)x185	1,2	26

Options available on request:

- | | | | |
|-----------|-------------------------------|-----|--------------------------------------|
| HF | - High Frequency control gear | EM2 | - Emergency version 2 hours |
| DIM | - Dimmable ballast 1-10V | EM3 | - Emergency version 3 hours |
| SWITCHDIM | - Switch DIM ballast | FCT | - Facetted reflector |
| DALI | - DALI ballast | SOP | - Surface frosted glass cover (IP44) |
| EMG | - Emergency version 1 hour | RAL | - RAL colors |

TETRA SOP

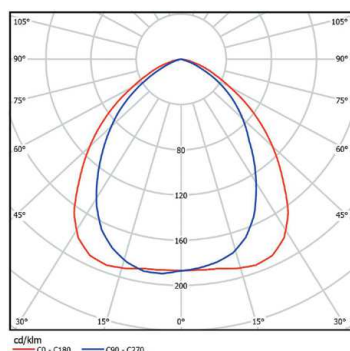
Square Recessed Downlight with Frosted Glass Cover



- 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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Tetra 113 K35 SOP	1x13W (G24d-1)	220x220(200x200)x90	1,4	19
Tetra 213 K36 SOP	2x13W (G24d-1)	220x220(200x200)x90	1,8	38
Tetra 118 K37 SOP	1x18W (G24d-2)	220x220(200x200)x90	1,4	26
Tetra 218 K38 SOP	2x18W (G24d-2)	220x220(200x200)x90	1,8	52
Tetra 126 K39 SOP	1x26W (G24d-3)	220x220(200x200)x90	1,6	34
Tetra 226 K40 SOP	2x26W (G24d-3)	220x220(200x200)x90	2,1	68
Tetra 132 K41 SOP HF	1x32W (G24q-4)	220x220(200x200)x90	1,7	32
Tetra 232 K42 SOP HF	2x32W (G24q-4)	220x220(200x200)x90	1,8	64
Tetra 142 K43 SOP HF	1x42W (G24q-4)	220x220(200x200)x90	1,7	44
Tetra 242 K44 SOP HF	2x42W (G24q-4)	220x220(200x200)x90	1,8	85
Tetra 1E27 K45 SOP	max. 60W (E27)	220x220(200x200)x90	1,2	-
Tetra 2E27 M64 SOP	max. 2x40W (E27)	220x220(200x200)x90	1,3	-

TETRA 226 K40 SOP HF



Energy saving series:

Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Tetra 114 Q40 HF	1x14W (GR14q-1)	220x220(200x200)x90	1,7	18
Tetra 214 Q41 HF	2x14W (GR14q-1)	220x220(200x200)x90	1,8	34
Tetra 117 Q42 HF	1x17W (GR14q-1)	220x220(200x200)x90	1,7	21,5
Tetra 217 Q43 HF	2x17W (GR14q-1)	220x220(200x200)x90	1,8	41

Options available on request:

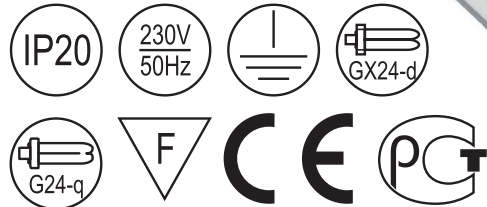
HF	– High Frequency control gear	RAL	– RAL colors
DIM	– Dimmable ballast 1-10V	CLR	– Clear glass
SWITCHDIM	– Switch DIM ballast	MPRZ	– Mikroprismatic diffuser
DALI	– DALI ballast	PRZ	– Prismatic diffuser
EMG	– Emergency version 1 hour	T830	– Color temperature 3000K
EM2	– Emergency version 2 hours	T840	– Color temperature 4000K
EM3	– Emergency version 3 hours	T857	– Color temperature 5700K
5TB	– 5 way terminal block for loop feed and ease of wiring		

LED series:

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Tetra LED1x1050 B188 T840 SOP	220x220(200x200)x90	1050	4000	>80	11	1,8
Tetra LED1x1300 B568 T840 SOP	220x220(200x200)x90	1300	4000	>80	13	1,8
Tetra LED1x1800 B569 T840 SOP	220x220(200x200)x90	1800	4000	>80	18	1,8
Tetra LED1x2400 B569 T840 SOP	220x220(200x200)x90	2400	4000	>80	24	1,8
Tetra LED1x3250 B570 T840 SOP	220x220(200x200)x90	3250	4000	>80	32	1,8

TETRA MIR

Square Recessed Downlight with Cross-shape Reflector



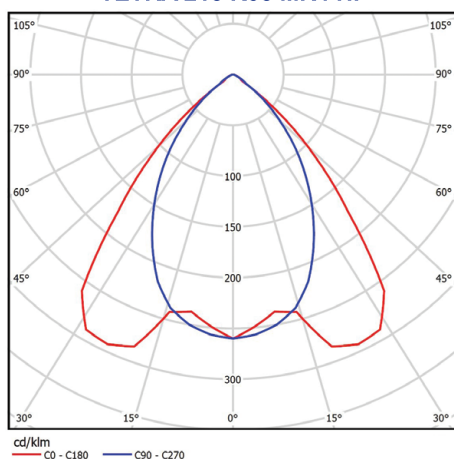
- Type:** Square recessed downlight with horizontal lamp position for compact fluorescent lamps for installations with minimal ceiling void.
- Specification:** Aluminum Cross-shape reflector with white powder coated aluminum frame. Body in zinc plated steel. Luminaire is plastic-wrapped and boxed individually.
- 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 holder	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:

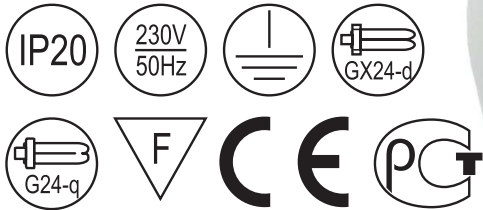
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| HF | - High Frequency control gear | EM3 | - Emergency version 3 hours |
| DIM | - Dimmable ballast 1-10V | 4TB | - 4 way terminal block for loop feed and ease of wiring |
| DALI | - DALI ballasts | 5TB | - 5 way terminal block for loop feed and ease of wiring |
| EMG | - Emergency version 1 hour | RAL | - RAL colors |
| EM2 | - Emergency version 2 hours | MR4 | - Cross-shape reflector |

TETRA 218 K38 MR4 HF



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.

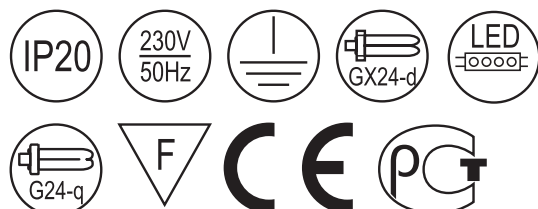
Type	Lamp (W) and holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Orion 113 K22	1x13W (G24d-1)	ø268x70	1,4	19
Orion 213 D97	2x13W (G24d-1)	ø268x70	1,7	38
Orion 118 K23	1x18W (G24d-2)	ø268x70	1,5	26
Orion 218 D04	2x18W (G24d-2)	ø268x70	1,8	52
Orion 126 K24	1x26W (G24d-3)	ø268x70	1,7	34
Orion 226 D05	2x26W (G24d-3)	ø268x70	2,1	68

Options available on request:

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

ORIONIS

An Architecturally Inspired Surface Downlight 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 holder	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

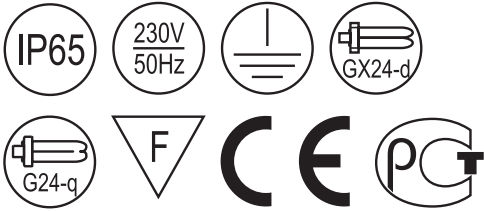
Options available on request:

HF	- High Frequency control gear	CLR	- Clear glass
DIM	- Dimmable ballast 1-10V	MPRZ	- Mikroprismatic diffuser
SWITCHDIM	- Switch DIM ballast	PRZ	- Prismatic diffuser
DALI	- DALI ballast	5TB	- 5 way terminal block for loop feed and ease of wiring
EMG	- Emergency version 1 hour	T830	- Color temperature 3000K
EM2	- Emergency version 2 hours	T840	- Color temperature 4000K
EM3	- Emergency version 3 hours	T857	- Color temperature 5700K

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Orionis LED1x1050 B187 T840 OP	Ø238x158	1050	4000	>80	11	2,4
Orionis LED1x1300 B571 T840 OP	Ø238x158	1300	4000	>80	13	2,4
Orionis LED1x1800 B572 T840 OP	Ø238x158	1800	4000	>80	18	2,4
Orionis LED1x2400 B573 T840 OP	Ø238x158	2400	4000	>80	24	2,4

PERSEUS OP

Recessed IP65 Downlight with Frosted Glass Cover



Type:	Recessed IP65 downlight for maximum protection and use in adverse conditions.
Specification:	Matt 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 holder	Overall dimensions (cut-out), mm	Weight, kg	Total wattage, W
Perseus 113 Q46 OP	1x13W (G24d-1)	ø230(210)x195	2,0	19
Perseus 213 Q47 OP	2x13W (G24d-1)	ø230(210)x195	2,3	38
Perseus 118 Q44 OP	1x18W (G24d-2)	ø230(210)x195	2,1	26
Perseus 218 Q45 OP	2x18W (G24d-2)	ø230(210)x195	2,4	52

Options available on request:

HF	- High Frequency control gear
DIM	- Dimmable ballast 1-10V
SWITCHDIM	- Switch DIM ballast
DALI	- DALI ballast
5TB	- 5 way terminal block for loop feed and ease of wiring
RAL	- RAL colors



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MONTBLANC

High-Bay Luminaire



- Type:** Luminaire for high mounting applications for metal halide lamps. High performance, ideal for high mounting applications.
- Specification:** 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)	ø330x350	3,6	44
Montblanc 242 M54	2x42 (G24q-4)	ø330x350	3,7	85
Montblanc 170 B42	1x70W (E27)	ø330x350	4.6	80
Montblanc 1150 B41	1x150W (E27)	ø330x350	5.5	170

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Montblanc LED1x3000 B627 T840	ø330x350	3000	4000	>80	33	4,6
Montblanc LED1x4000 B628 T840	ø330x350	4000	4000	>80	44	4,6

Options available on request:

HF	– High Frequency control gear	T830	–	Color temperature 3000K
DIM	– Dimmable ballast 1-10V	T840	–	Color temperature 4000K
SWITCHDIM	– Switch DIM ballast	T850	–	Color temperature 5000K
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

Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Prizma LED1x3000 B629 T840	Ø420x530	3000	4000	>80	33	4,6
Prizma LED1x4000 B630 T840	Ø420x530	4000	4000	>80	44	4,6

Options available on request:

HF	- High Frequency control gear	T830	-	Color temperature 3000K
DIM	- Dimmable ballast 1-10V	T840	-	Color temperature 4000K
SWITCHDIM	- Switch DIM ballast	T850	-	Color temperature 5000K
DALI	- DALI ballast			
COVER	- PC protection cover			

AUSTER

High-Bay Luminaire



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)	ø315x381	3,6	44
Auster 170 Q49	1x70W (E27)	ø315x381	4.6	80
Auster 1150 Q50	1x150W (E27)	ø315x381	5.5	170

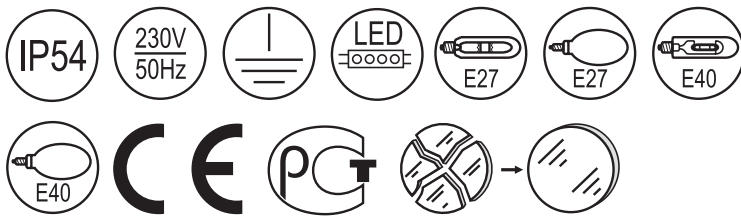
Type	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Auster LED1x3000 B631 T840	ø315x381	3000	4000	>80	33	4,6
Auster LED1x4000 B632 T840	ø315x381	4000	4000	>80	44	4,6

Options available on request:

HF	- High Frequency control gear
TP	- Built-in thermal protector
DIM	- Dimmable ballast 1-10V
SWITCHDIM	- Switch DIM ballast
DALI	- DALI ballast
T830	- Color temperature 3000K
T840	- Color temperature 4000K
T850	- Color temperature 5000K

NORTE

Low-Bay Luminaire



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 holder	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	AS	- Asymmetric reflector
HS	- For high pressure sodium lamp	FRAME	- Frame for recessed mounting
GRID	- Protection grid	IP65	- IP65 version



NORTE LED1X15100 B635 T750

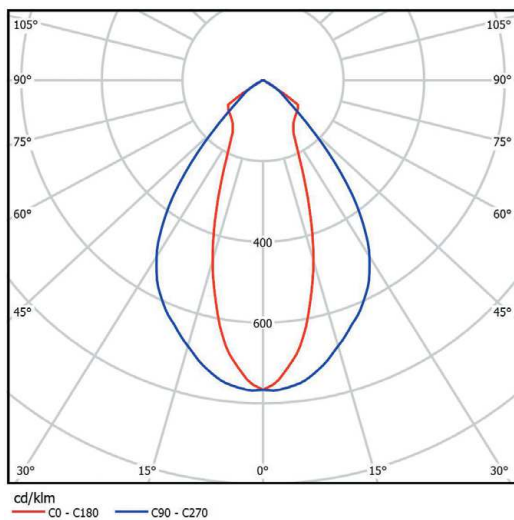
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Norte LED1x10100 B633 T750 L45	Lens 45°	365x490x175	10100	5000	70	88	8,5
Norte LED1x12600 B634 T750 L45	Lens 45°	365x490x175	12600	5000	70	110	8,5
Norte LED1x15100 B635 T750 L45	Lens 45°	365x490x175	15100	5000	70	132	8,5
Norte LED1x10100 B633 T750 L60	Lens 60°	365x490x175	10100	5000	70	88	8,5
Norte LED1x12600 B634 T750 L60	Lens 60°	365x490x175	12600	5000	70	110	8,5
Norte LED1x15100 B635 T750 L60	Lens 60°	365x490x175	15100	5000	70	132	8,5
Norte LED1x10100 B633 T750 L60x120	Lens 60x120°	365x490x175	10100	5000	70	88	8,5
Norte LED1x12600 B634 T750 L60x120	Lens 60x120°	365x490x175	12600	5000	70	110	8,5
Norte LED1x15100 B635 T750 L60x120	Lens 60x120°	365x490x175	15100	5000	70	132	8,5

Options available on request:

- TP – Built-in thermal protector
- DIM – Dimmable ballast
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- HS – For high pressure sodium lamp
- GRID – Protection grid
- FRAME – Frame for recessed mounting
- IP65 – IP65 version

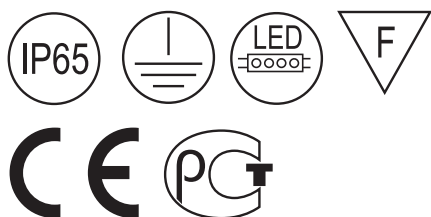
- AS – Asymmetric reflector
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T850 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

NORTE 1400 G97 HI



BRUBU LED

Recessed Luminaire for use in Petrol Stations



Type: LED Recessed Luminaire for use in petrol stations.

Specification: IP65 version is made with tempered glass diffuser.
 Optic: 45°, 60° or 120x60° beam.
 Body in steel with white finish.
 Luminaire is plastic-wrapped and packaged in single boxes.

Installation: Recessed luminaire is designed to be fixed to ceilings of any type.

Application: For use in petrol stations.

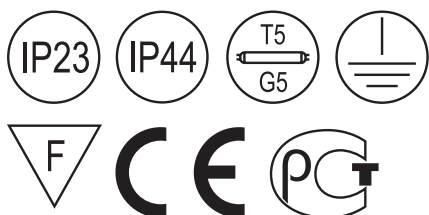
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Brubu LED1x10100 B636 T750 L45	Lens 45°	425x425x190	10100	5000	70	88	8,8
Brubu LED1x12600 B637 T750 L45	Lens 45°	425x425x190	12600	5000	70	110	8,8
Brubu LED1x15100 B638 T750 L45	Lens 45°	425x425x190	15100	5000	70	132	8,8
Brubu LED1x10100 B636 T750 L60	Lens 60°	425x425x190	10100	5000	70	88	8,8
Brubu LED1x12600 B637 T750 L60	Lens 60°	425x425x190	12600	5000	70	110	8,8
Brubu LED1x15100 B638 T750 L60	Lens 60°	425x425x190	15100	5000	70	132	8,8
Brubu LED1x10100 B636 T750 L60x120	Lens 60x120°	425x425x190	10100	5000	70	88	8,8
Brubu LED1x12600 B637 T750 L60x120	Lens 60x120°	425x425x190	12600	5000	70	110	8,8
Brubu LED1x15100 B638 T750 L60x120	Lens 60x120°	425x425x190	15100	5000	70	132	8,8

Options available on request:

- TDIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

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. IP44 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.



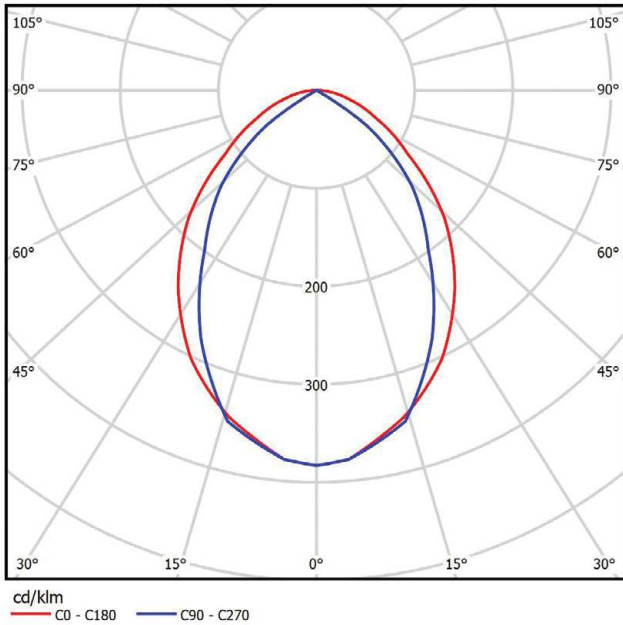
Protection grid hinges and stainless steel clips for easy access to maintain luminaire

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Sky 235 K46 SPORT	2x35 (G5)	315x1510x135	6,2	76
Sky 249 K48 SPORT	2x49 (G5)	315x1510x135	6,2	105
Sky 280 K50 SPORT	2x80 (G5)	315x1510x135	6,2	170
Sky 335 K47 SPORT	3x35 (G5)	315x1510x135	6,6	114
Sky 349 K49 SPORT	3x49 (G5)	315x1510x135	6,6	158
Sky 380 K51 SPORT	3x80 (G5)	315x1510x135	6,6	255
Sky 435 T37 SPORT	4x35 (G5)	395x1510x135	8,6	152
Sky 449 T38 SPORT	4x49 (G5)	395x1510x135	8,6	210
Sky 480 S17 SPORT	4x80 (G5)	395x1510x135	8,6	340

Options available on request:

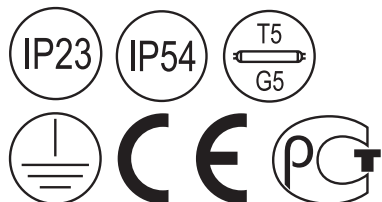
- | | | | |
|-----------|-----------------------------|------|--|
| DIM | - Dimmable ballast 1-10V | 4TB | - 4 way terminal block for loop feed and ease of wiring |
| SWITCHDIM | - Switch DIM ballast | 5TB | - 5 way terminal block with two holes (for in and out going cable) |
| DALI | - DALI ballast | MAT | - Matt reflector (subject to minimum order) |
| EMG | - Emergency version 1 hour | IP43 | - With PC diffuser and IP43 protection |
| EM2 | - Emergency version 2 hours | IP44 | - With PC diffuser and IP44 protection |
| EM3 | - Emergency version 3 hours | | |

SKY 380 K51 SPORT



BLADE

Luminaire for use
in Logistics centers



**Blade 380 R60 Deluxe
HBPIR&LIGHT**



Blade 380 R60 Deluxe



Blade 280 T08 Deluxe HBPIR

Type: Luminaire for high mounting applications between shelves or open areas.

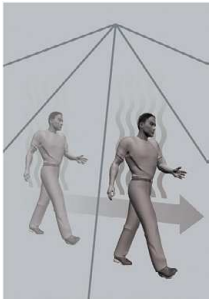
Specification: Narrow beam mirror aluminum reflector. Three versions available: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor.
IP54 version is made with clear polycarbonate diffuser (see option list) for protection from sprinklers water jet. White painted steel body.
Luminaire is plastic-wrapped and packaged in single boxes.

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

Application: For use in warehouse, production facilities, halls and logistics centers with ceiling heights of 10-12 meters and higher.



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



PASSIVE INFRARED (PIR)



MICROWAVE (MW)

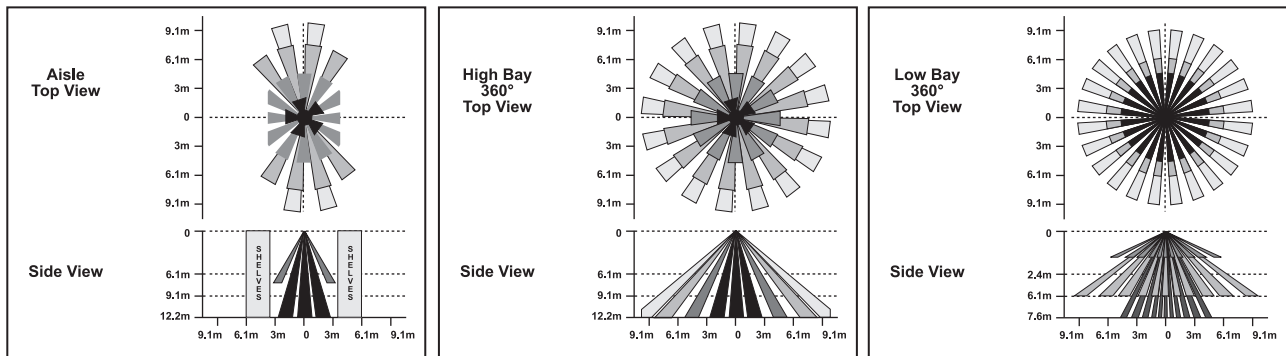
DEFINITIONS:

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



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

FIELD OF VIEW



Fast and Simple Setting: The HBPIR does not require power to set the time delay saving valuable time during installation.

- Load = 30s - 30m

Fast and Simple Testing: The HBPIR will “instant on” within 5 seconds. Upon initial power, relay is closed enabling labor savings testing in seconds.

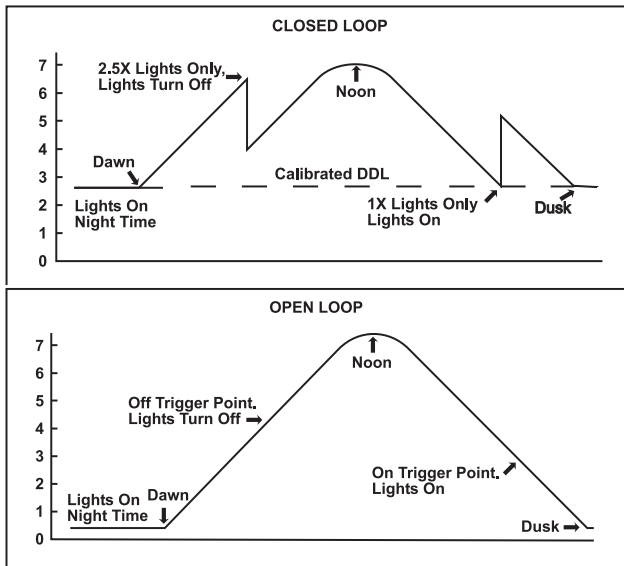
Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.

Range and Coverage:

- The 360° *high-bay PIR lens* provides a 2:1 spacing to mounting height coverage under 7,6 meters mounting and a 1.5:1 for heights up to 12,2 meters mounting.
- The 360° *low-bay lens* provides 2:1 spacing to mounting height coverage for 2,4 to 6,1 meters mounting.
- The *aisle lens* is designed to provide detection of 18,2 meters long by 6 meters wide for heights up to 12,2 meters mounting.

LED: Super bright green LED indicates occupancy detection and can be seen at 12,2 meters.

False Detection Protection: Energy saving technology is designed into the HBPIR to assure your lights are ON only when needed.



HBPIR&LIGHT SENSOR

Rotating Light Sensor: Optimal for best performance in locating light measurements (up, down and side lighting).

Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.

Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.

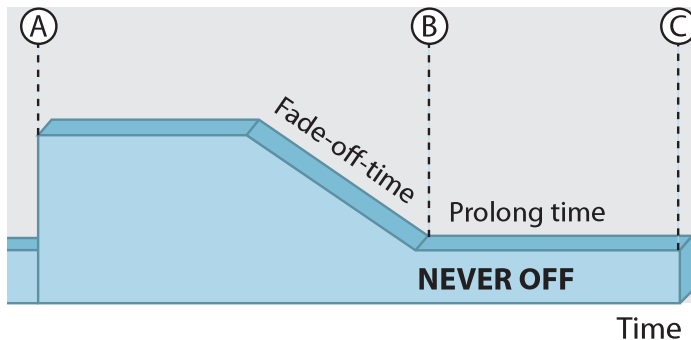
Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON +/- 1 minute).

COR OPTION

Automatic switching is based on presence/motion with the time delay set on site to suit the customers requirements, where no presence is detected the light level will fade from 100% down to 10% saving up to 60% of the energy usage.

The **COR** function does not abruptly switch off the lighting but dims it to a 10% level. Depending on the profile selected the device remains at this light level ("never off" profile) or switches off completely after the appropriate delay ("Switch off" profile).

This arrangement provides efficient energy savings in 24-hour applications where light is needed round the clock for safety reasons, for example in stairwells and corridors in public buildings, and in large apartment complexes, car parks, pedestrian underpasses, warehouses and underground railway stations.

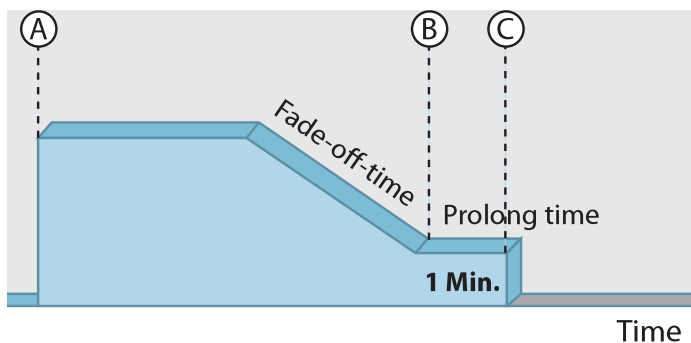


COR option

Standard profile "Never OFF" (A...100 %, B...10 %, Fade time 32 s, never OFF).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached.

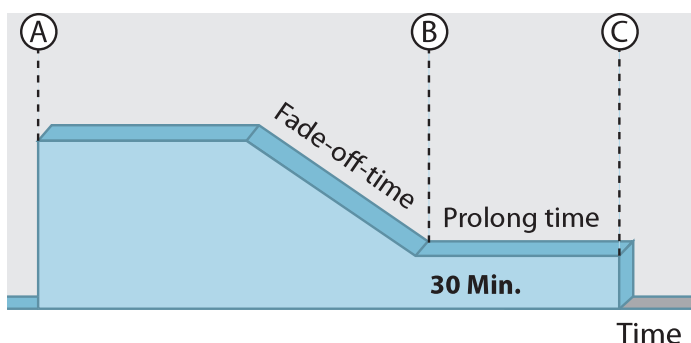
This corresponds to the default parameters.



COR1min option

Profile 2 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 1 minute).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next minute the ballast switches off completely.



COR30min option

Profile 3 "Switch off" (A...100 %, B...10 %, Fade time 32 s, switch off after 30 minutes).

If presence/motion is not detected, from this time onwards the ballast dims until the absence light value is reached and if presence is not detected in the next 30 minutes the ballast switches off completely.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Blade 135 T04 Deluxe	1x35 (G5)	225x1590x180	7,4	38
Blade 149 T05 Deluxe	1x49 (G5)	225x1590x180	7,4	53
Blade 180 R62 Deluxe	1x80 (G5)	225x1590x180	7,4	85
Blade 235 T06 Deluxe	2x35 (G5)	225x1590x180	7,4	75
Blade 249 T07 Deluxe	2x49 (G5)	225x1550x180	7,4	104
Blade 280 T08 Deluxe	2x80 (G5)	225x1590x180	7,5	170
Blade 335 R64 Deluxe	3x35 (G5)	580x1590x180	19,6	113
Blade 349 R65 Deluxe	3x49 (G5)	580x1590x180	19,6	158
Blade 380 R60 Deluxe	3x80 (G5)	580x1590x180	19,8	255
Blade 135235 R66 Deluxe	1x35+2x35 (G5)	580x1590x180	19,6	113
Blade 149249 R67 Deluxe	1x49+2x49 (G5)	580x1590x180	19,6	158
Blade 180280 R61 Deluxe	1x80+2x80 (G5)	580x1590x180	19,8	255

Options available on request:

DIM	- Dimmable ballast	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)
COR	- Corridor function (never OFF)	MAT	- Matt reflector (subject to minimum order)
COR1min	- Corridor function (switch OFF after 1 minute)	Deluxe	- MIRO4 reflector
COR30min	- Corridor function (switch OFF after 30 minutes)	HBPIR	- PIR sensor for high ceiling applications (<12 meters)
DALI	- DALI ballast	HBPIR&LIGHT	- PIR & LIGHT sensor for high ceiling applications (<12 meters)
EMG	- Emergency version 1 hour	HBPIRCOLD	- PIR sensor for cold storage (<12 meters)
EM2	- Emergency version 2 hours	HBPIRCOLD&LIGHT	- PIR & LIGHT sensor for cold storage (<12 meters)
EM3	- Emergency version 3 hours	IP54	- With PC diffuser and IP54 protection

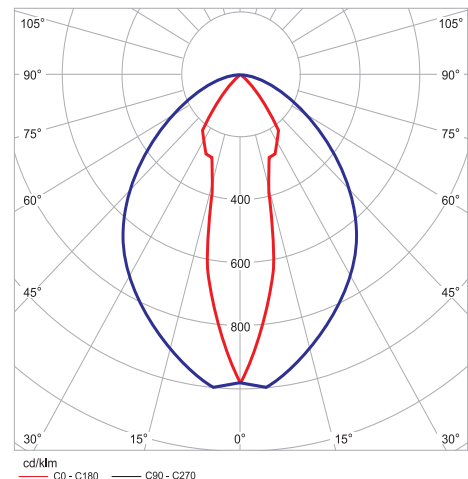


Highbay fittings with metal halide tube and energy consumption of 440W each before. Height 10-12 meters.



BLADE 380 R60 Deluxe COR HBPIR with energy consumption from 76 to 255 W each after. Height 10-12 meters.

Blade 380 R60 Deluxe



BENTU LED

Luminaire for use in
Logistics centers



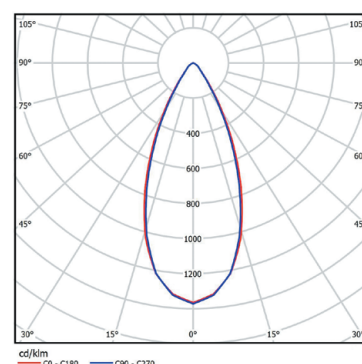
Type:	Luminaire for high mounting applications between shelves or open areas.
Specification:	IP65 version is made with clear polycarbonate diffuser for protection from splinklers water jet. Optic: 45°, 60° or 120x60° beam. Three versions: without sensor, with PIR sensor or with PIR&DAYLIGHT sensor. Light grey aluminium body. Luminaire is plastic-wrapped and packaged in single boxes.
Installation:	Surface luminaire is designed to be fixed to ceilings of any type or suspended.
Application:	For use in warehouse, production facilities, halls and logistics centers with ceiling heights of 10-12 meters and higher.

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Bentu LED1x10100 B517 T750 L45	Lens 45°	100x1200x76	10100	5000	70	88	7
Bentu LED1x12600 B518 T750 L45	Lens 45°	100x1200x76	12600	5000	70	110	7,2
Bentu LED1x15100 B519 T750 L45	Lens 45°	100x1200x76	15100	5000	70	132	7,2
Bentu LED1x17600 B520 T750 L45	Lens 45°	100x1500x76	17600	5000	70	154	8,9
Bentu LED1x20200 B521 T750 L45	Lens 45°	100x1500x76	20160	5000	70	176	8,9
Bentu LED1x10100 B517 T750 L60	Lens 60°	100x1200x76	10100	5000	70	88	7
Bentu LED1x12600 B518 T750 L60	Lens 60°	100x1200x76	12600	5000	70	110	7,2
Bentu LED1x15100 B519 T750 L60	Lens 60°	100x1200x76	15100	5000	70	132	7,2
Bentu LED1x17600 B520 T750 L60	Lens 60°	100x1500x76	17600	5000	70	154	8,9
Bentu LED1x20200 B521 T750 L60	Lens 60°	100x1500x76	20160	5000	70	176	8,9
Bentu LED1x10100 B517 T750 L60x120	Lens 60x120°	100x1200x76	10100	5000	70	88	7
Bentu LED1x12600 B518 T750 L60x120	Lens 60x120°	100x1200x76	12600	5000	70	110	7,2
Bentu LED1x15100 B519 T750 L60x120	Lens 60x120°	100x1200x76	15100	5000	70	132	7,2
Bentu LED1x17600 B520 T750 L60x120	Lens 60x120°	100x1500x76	17600	5000	70	154	8,9
Bentu LED1x20200 B521 T750 L60x120	Lens 60x120°	100x1500x76	20160	5000	70	176	8,9

Options available on request:

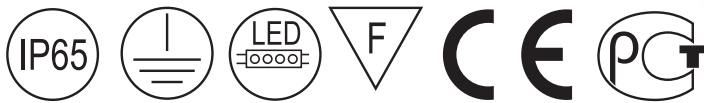
DIM	– Dimmable ballast 1-10V
SWITCHDIM	– Switch DIM ballast
DALI	– DALI ballasts
GLASS	– Tempered glass diffuser
T830	– Color temperature 3000K
T840	– Color temperature 4000K
T750	– Color temperature 5000K
L45	– Lens 45°
L60	– Lens 60°
L60x120	– Lens 60x120°

BENTU LED 1X15100 B519 T750 L45



BRISA LED

Low-Bay Luminaire



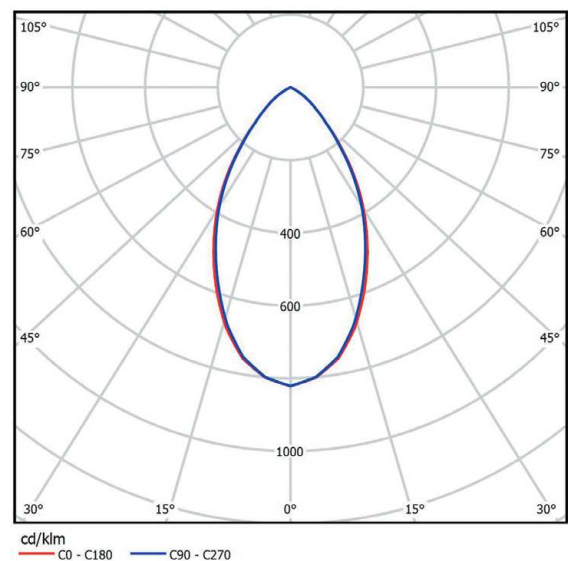
- Type:** LED Luminaire for high mounting applications.
- Specification:** IP65 version is made with tempered glass diffuser.
Optic: 45°, 60° or 120x60° beam.
Light grey aluminium body.
Luminaire is plastic-wrapped and packaged in single boxes.
- Installation:** Suitable for surface mounting on ceilings.
- Application:** For use in factories, warehouses, garages, tunnels, halls and many others commercial applications.

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Brisa LED1x10100 B639 T750 L45	Lens 45°	310x370x190	10100	5000	70	88	8,6
Brisa LED1x12600 B640 T750 L45	Lens 45°	310x370x190	12600	5000	70	110	8,6
Brisa LED1x15100 B641 T750 L45	Lens 45°	310x370x190	15100	5000	70	132	8,6
Brisa LED1x10100 B639 T750 L60	Lens 60°	310x370x190	10100	5000	70	88	8,6
Brisa LED1x12600 B640 T750 L60	Lens 60°	310x370x190	12600	5000	70	110	8,6
Brisa LED1x15100 B641 T750 L60	Lens 60°	310x370x190	15100	5000	70	132	8,6
Brisa LED1x10100 B639 T750 L60x120	Lens 60x120°	310x370x190	10100	5000	70	88	8,6
Brisa LED1x12600 B640 T750 L60x120	Lens 60x120°	310x370x190	12600	5000	70	110	8,6
Brisa LED1x15100 B641 T750 L60x120	Lens 60x120°	310x370x190	15100	5000	70	132	8,6

Options available on request:

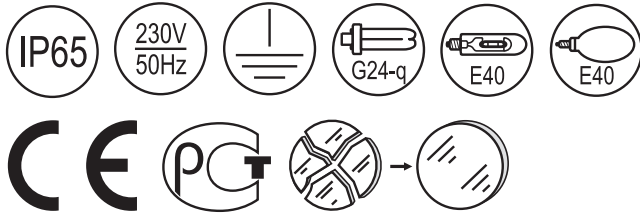
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- PC – PC diffuser
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

BRISA LED1X15100 B641 T750 L60



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 matt 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Everest 332 K77	IP65, CFL	3x32 (G24q-4)	ø485x615	7,2	96
Everest 342 K78	IP65, CFL	3x42 (G24q-4)	ø485x615	7,2	132
Everest 1150 I31 HI	IP65, HI	1x150 (E27)	ø485x615	8,6	170
Everest 1250 E65 HI	IP65, HI	1x250 (E40)	ø485x615	9	280
Everest 1400 E66 HI	IP65, HI	1x400 (E40)	ø485x615	9,5	440
Everest 1150 I32 HS	IP65, HS	1x150 (E40)	ø485x615	8,6	170
Everest 1250 E67 HS	IP65, HS	1x250 (E40)	ø485x615	9	280
Everest 1400 E68 HS	IP65, HS	1x400 (E40)	ø485x615	9,5	440

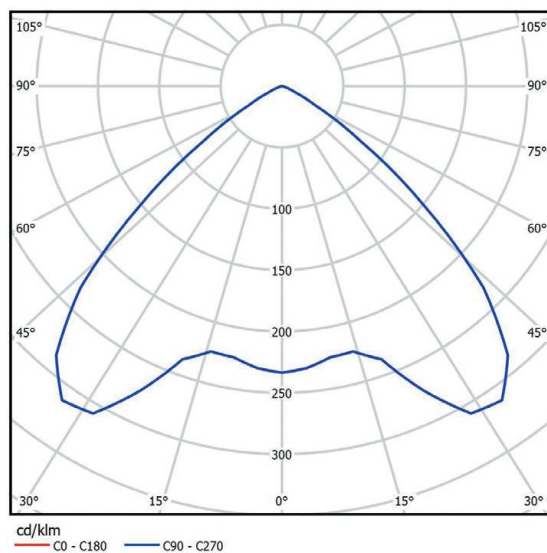
Options available on request:

- | | | | |
|------|---------------------------------|--------|---|
| TIM | - Timmed ignitor | 1LIN | - Through wiring version with two sealing washers |
| HS | - For high pressure sodium lamp | GLMAT | - Frosted tempered glass |
| STR | - Strip type reflector | SWITCH | - Switching device |
| IP23 | - Without protection glass | SINGLE | - Single packaging (assembled) |
| GRID | - Protection grid | RAL | - Reflector and body painted RAL color |



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

EVEREST 1250 E65 HI





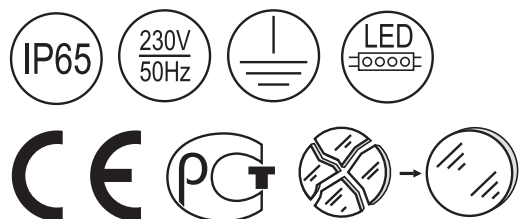
NORTHCLIFFE
MAKING LIFE BRIGHTER

FLOODLIGHTS

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BOREAS LED

LED Floodlight with Symmetrical Reflector

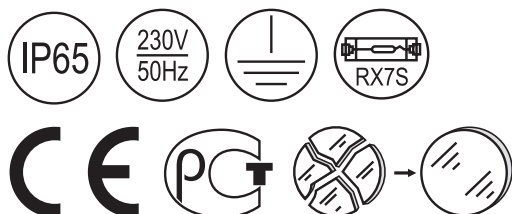


- Type:** A range of LED floodlights with symmetrical reflector. IP65 - water and dust protection for use in adverse conditions.
- Specification:** Body in aluminum with dark grey finish. Symmetrical reflector in anodized aluminum, clear glass diffuser.
Luminaire is plastic-wrapped and boxed individually.
- 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 B226 800lm T840	205x150x50	800	4000	>80	10	3,5
Boreas LED B227 2400lm T840	330x245x75	2400	4000	>80	30	5,4
Boreas LED B228 4800lm T840	400x300x95	4800	4000	>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. Faceted symmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

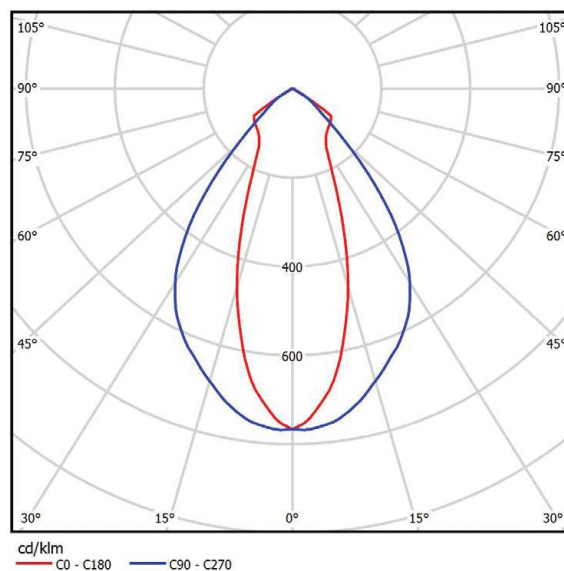
Application: Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Boreas 170 E73 HI	1x70 (RX7s)	232x280x170	3,5	83,5
Boreas 1150 E74 HI	1x150 (RX7s)	232x280x170	4,2	168
Boreas 170 E73 HS	1x70 (RX7s)	232x280x170	3,5	83,5
Boreas 1150 E74 HS	1x150 (RX7s)	232x280x170	4,2	168

Options available on request:

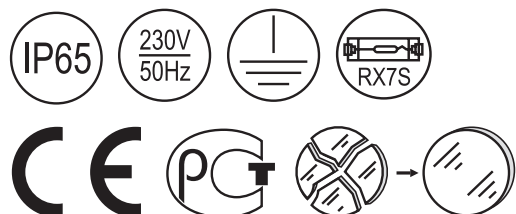
- HF – High Frequency control gear
- TIM – Timmed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 170 E73 HI



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.

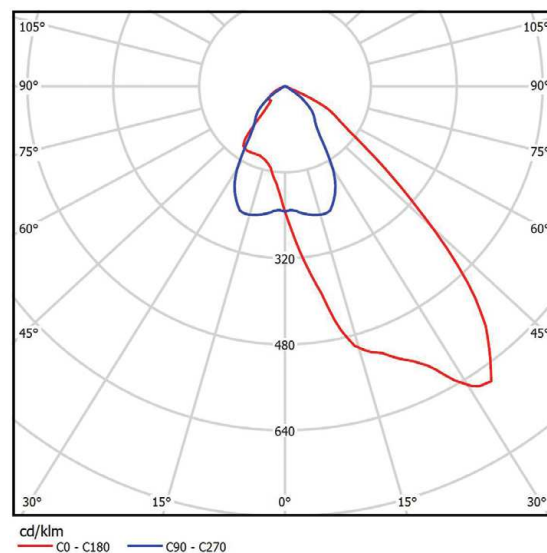
Application: Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

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

Options available on request:

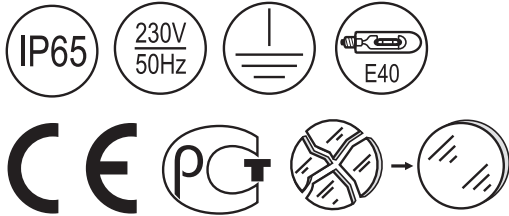
- HF – High Frequency control gear
- TIM – Timmed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 170 E71 HI



BOREAS

Discharge Floodlight for Metal Halide Lamps with Asymmetrical Reflector



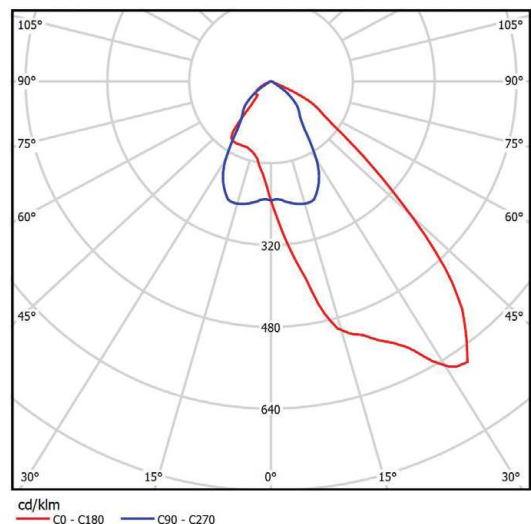
- Type:** A range of discharge floodlights with asymmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions.
- Specification:** Body in aluminum with dark grey finish. Faceted asymmetrical reflector in anodized aluminum, clear glass diffuser. Luminaire 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Boreas 1150 I77 HI	1x150 (E27)	514x420x146	7,2	168
Boreas 1250 E75 HI	1x250 (E40)	514x420x146	8,2	280
Boreas 1400 E76 HI	1x400 (E40)	514x420x146	9	440
Boreas 1150 I77 HS	1x150 (E27)	514x420x146	7,2	168
Boreas 1250 E75 HS	1x250 (E40)	514x420x146	8,2	280
Boreas 1400 E76 HS	1x400 (E40)	514x420x146	9	440

Options available on request:

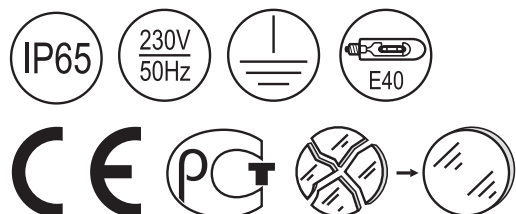
- HF – High Frequency control gear
- TIM – Timmed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 E75 HI



BOREAS

Discharge Floodlight for Metal Halide Lamps with Symmetrical Reflector



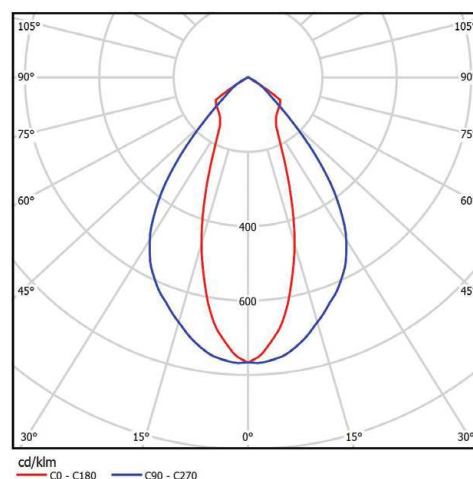
- Type:** A range of discharge floodlights with symmetrical reflector for metal halide lamps. IP65 - water and dust protection for use in adverse conditions.
- Specification:** Body in aluminum with dark grey finish. Facetted symmetrical reflector in anodized aluminum, clear glass diffuser.
Luminaire 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Boreas 1150 I79 HI	1x150 (E27)	514x420x146	7,2	168
Boreas 1250 E77 HI	1x250 (E40)	514x420x146	8,2	280
Boreas 1400 E78 HI	1x400 (E40)	514x420x146	9	440
Boreas 1150 I79 HS	1x150 (E27)	514x420x146	7,2	168
Boreas 1250 E77 HS	1x250 (E40)	514x420x146	8,2	280
Boreas 1400 E78 HS	1x400 (E40)	514x420x146	9	440

Options available on request:

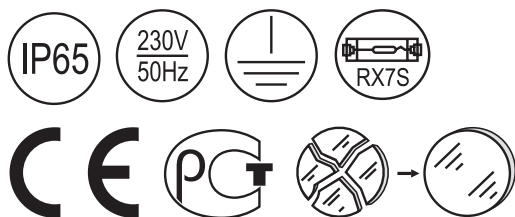
- HF – High Frequency control gear
- TIM – Timmed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 E77 HI



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. Faceted 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.

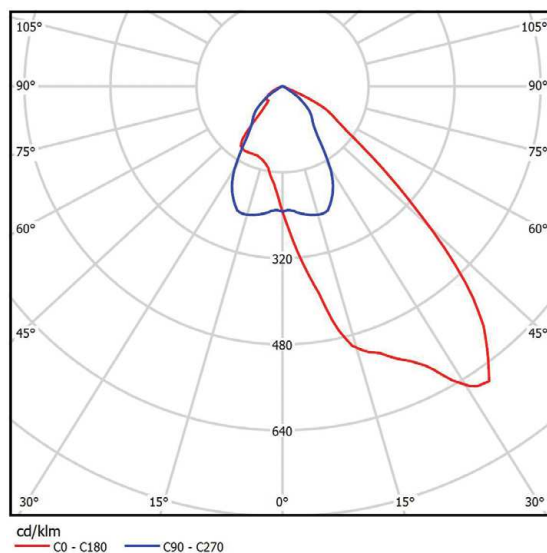
Application: Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

Type	Lamp (W) and holder	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 K52 CL HS	1x70 W(RX7s)	445x275x130	3,6	83,5
Boreas 1150 K53 CL HS	1x150 W(RX7s)	445x275x130	4,5	168

Options available on request:

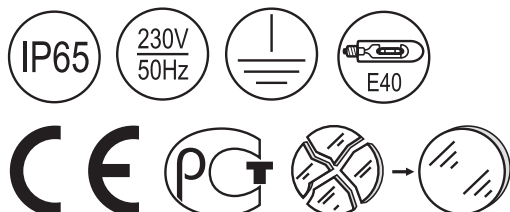
- HF – High Frequency control gear
- TIM – Timed ignitor
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1150 K53 CL HI



BOREAS CL

Discharge Floodlight with Clips and 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.

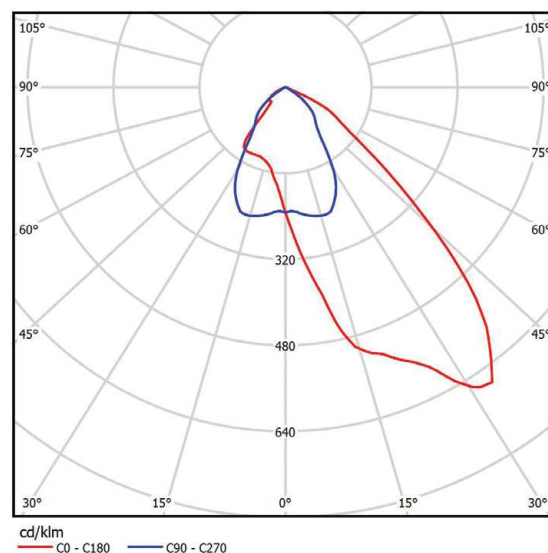
Application: Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

Type	Lamp (W) and holder	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 K54 CL HS	1x150 (E40)	500x420x145	7	168
Boreas 1250 K55 CL HS	1x250 (E40)	500x420x145	8,2	280
Boreas 1400 K56 CL HS	1x400 (E40)	500x420x145	9	440

Options available on request:

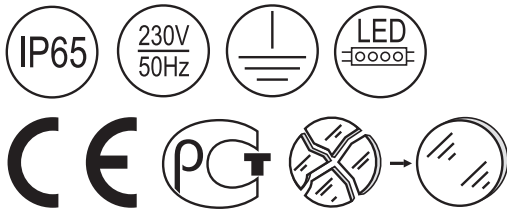
- TIM – Timed ignitor
- HF – High Frequency control gear
- HI – For metal halide lamp
- HS – For high pressure sodium lamp

BOREAS 1250 K55 CL HI



BOREAS LED

LED Floodlight with Clips



Type: A range of LED floodlights with IP65 water and dust protection for use in adverse conditions.

Specification: Tempered glass diffuser. Ability to choose lenses with 45°, 60° or 120x60° optic.
Body in aluminum with dark grey finish.
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.

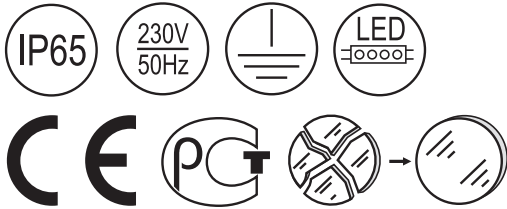
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Boreas LED1x5000 B642 T750 L45	Lens 45°	445x275x130	5040	5000	70	44	4,6
Boreas LED1x7500 B643 T750 L45	Lens 45°	445x275x130	7560	5000	70	66	4,8
Boreas LED1x5000 B642 T750 L60	Lens 60°	445x275x130	5040	5000	70	44	4,6
Boreas LED1x7500 B643 T750 L60	Lens 60°	445x275x130	7560	5000	70	66	4,8
Boreas LED1x5000 B642 T750 L60x120	Lens 60x120°	445x275x130	5040	5000	70	44	4,6
Boreas LED1x7500 B643 T750 L60x120	Lens 60x120°	445x275x130	7560	5000	70	66	4,8
Boreas B LED1x10000 B644 T750 L45	Lens 45°	500x420x145	10100	5000	70	88	8,6
Boreas B LED1x12500 B645 T750 L45	Lens 45°	500x420x145	12600	5000	70	110	8,6
Boreas B LED1x10000 B644 T750 L60	Lens 60°	500x420x145	10080	5000	70	88	8,6
Boreas B LED1x12500 B645 T750 L60	Lens 60°	500x420x145	12600	5000	70	110	8,6
Boreas B LED1x10000 B644 T750 L60x120	Lens 60x120°	500x420x145	10080	5000	70	88	8,6
Boreas B LED1x12500 B645 T750 L60x120	Lens 60x120°	500x420x145	12600	5000	70	110	8,6

Options available on request:

DIM	- Dimmable ballast 1-10V	T840	- Color temperature 4000K
SWITCHDIM	- Switch DIM ballast	T750	- Color temperature 5000K
DALI	- DALI ballasts	L45	- Lens 45°
PC	- PC diffuser	L60	- Lens 60°
T830	- Color temperature 3000K	L60x120	- Lens 60x120°

BORASCO LED

LED Floodlight with Lens optic



Type: A range of LED floodlights with IP65 water and dust protection for use in adverse conditions.

Specification: Tempered glass diffuser. Ability to choose lenses with 45°, 60° or 120x60° optic.
Body in aluminum with light grey finish.
Luminaire is plastic-wrapped and boxed individually.

Installation: Suitable for any horizontal and/or vertical surfaces.

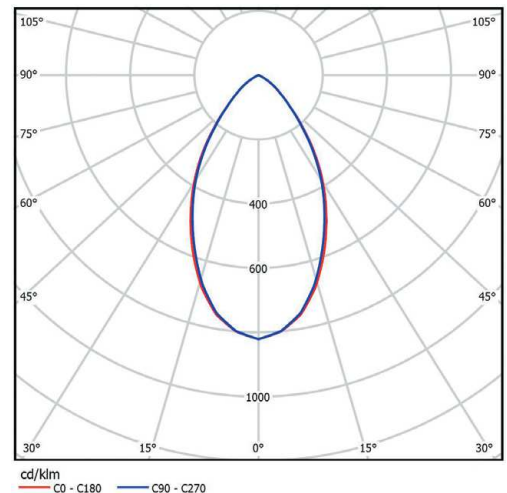
Application: Efficient floodlight for building facades and perimeters, billboards, displays, car parks, etc.

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Borasco LED1x10000 B647 T750 L45	Lens 45°	460x350x110	10080	5000	70	88	8,8
Borasco LED1x12500 B648 T750 L45	Lens 45°	460x350x110	12600	5000	70	110	8,8
Borasco LED1x15000 B649 T750 L45	Lens 45°	460x350x110	15120	5000	70	132	8,8
Borasco LED1x10000 B647 T750 L60	Lens 60°	460x350x110	10080	5000	70	88	8,8
Borasco LED1x12500 B648 T750 L60	Lens 60°	460x350x110	12600	5000	70	110	8,8
Borasco LED1x15000 B649 T750 L60	Lens 60°	460x350x110	15120	5000	70	132	8,8
Borasco LED1x10000 B647 T750 L60x120	Lens 60x120°	460x350x110	10080	5000	70	88	8,8
Borasco LED1x12500 B648 T750 L60x120	Lens 60x120°	460x350x110	12600	5000	70	110	8,8
Borasco LED1x15000 B649 T750 L60x120	Lens 60x120°	460x350x110	15120	5000	70	132	8,8

Options available on request:

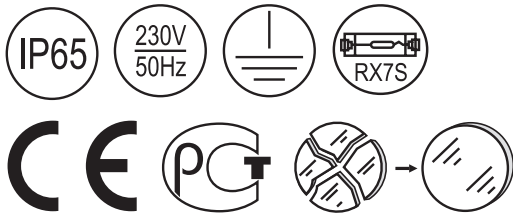
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- PC – PC diffuser
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- L60x120 – Lens 60x120°

BORASCO LED1X15000 B649 T750 L60



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.

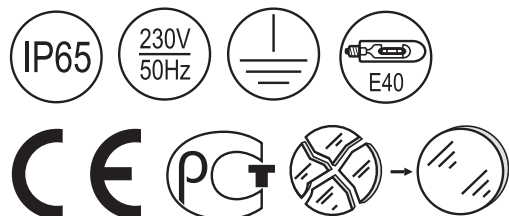
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Boreas 170 K02 CL SPOT HI	1x70 W(RX7s)	445x275x130	3,6	83,5
Boreas 1150 K03 CL SPOT HI	1x150 W(RX7s)	445x275x130	4,5	168
Boreas 170 K02 CL SPOT HS	1x70 W(RX7s)	445x275x130	3,6	83,5
Boreas 1150 K03 CL SPOT HS	1x150 W(RX7s)	445x275x130	4,5	168

Options available on request:

- TIM – Timed ignitor
- HF – High Frequency control gear
- HI – For metal halide lamps
- HS – For high pressure sodium lamp

BOREAS

Discharge Floodlight for Metal Halide Lamps with 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. Faceted 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.

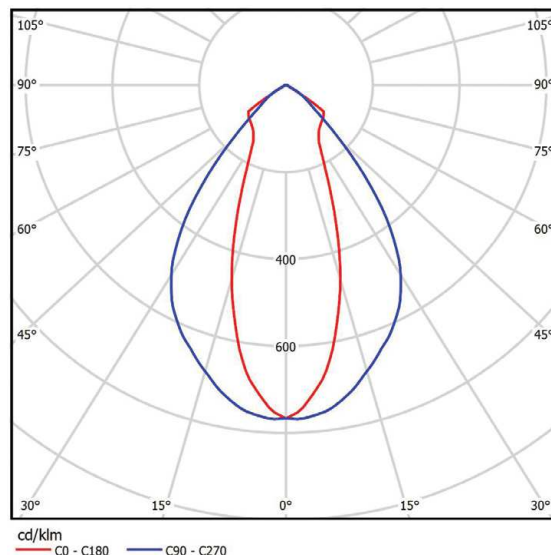
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Boreas 11000 M03 HI	1x1000 (E40)	600x525x165	19,8	1075
Boreas 11000 M03 HS	1x1000 (E40)	600x525x165	19,8	1075

With separate gear box

Options available on request:

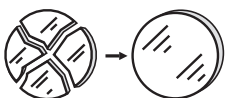
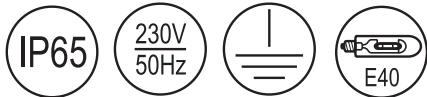
- TIM – Timed ignitor
- HI – For metal halide lamps
- HS – For high pressure sodium lamp

BOREAS 11000 M03 HI



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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Arena 11000 N86	symmetric	1x1000 (E40)	744x665x265	26	1075
Arena 11000 N86 BLD	asymmetric	1x1000 (E40)	744x665x265	26	1075
Arena 11000 N87 SPOT	symmetric	1x1000 (E40)	744x665x265	26	1075
Arena 11000 N87 SPOT BLD	asymmetric	1x1000 (E40)	744x665x265	26	1075
Arena 12000 N89	symmetric	1x2000 (E40)	744x665x265	28	2150
Arena 12000 N89 BLD	asymmetric	1x2000 (E40)	744x665x265	28	2150
Arena 12000 N90 SPOT	symmetric	1x2000 (E40)	744x665x265	28	2150
Arena 12000 N90 SPOT BLD	asymmetric	1x2000 (E40)	744x665x265	28	2150

All luminaires are with separate gear box

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



Grid A2



Frame A1



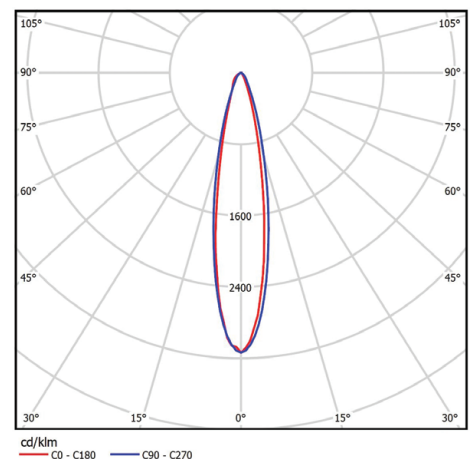
Frame A2

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



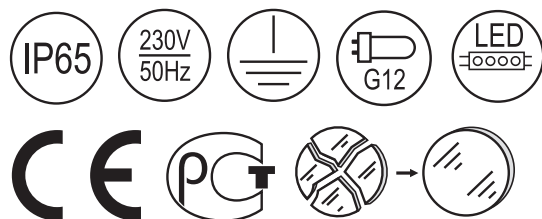
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RADIUS

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 holder	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

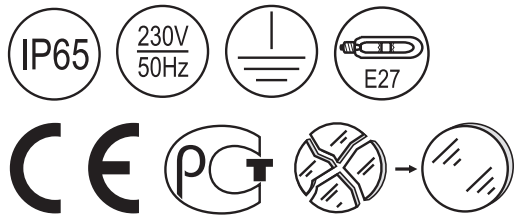
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Radius LED1x1250 B650 T750 L45	Lens 45°	Ø175x265	1260	5000	70	11	4
Radius LED1x2500 B651 T750 L45	Lens 45°	Ø175x265	2520	5000	70	22	4
Radius LED1x3750 B652 T750 L45	Lens 45°	Ø175x265	3780	5000	70	33	4
Radius LED1x5000 B653 T750 L45	Lens 45°	Ø175x265	5040	5000	70	44	4
Radius LED1x1250 B650 T750 L60	Lens 60°	Ø175x265	1260	5000	70	11	4
Radius LED1x2500 B651 T750 L60	Lens 60°	Ø175x265	2520	5000	70	22	4
Radius LED1x3750 B652 T750 L60	Lens 60°	Ø175x265	3760	5000	70	33	4
Radius LED1x5000 B653 T750 L60	Lens 60°	Ø175x265	5040	5000	70	44	4

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamps
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°

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.

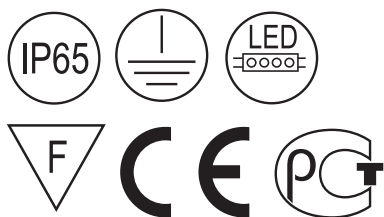
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Grus 150 N95	1x50 W(E27)	Ø275x400x255	3,5	62
Grus 170 N96	1x70 W(E27)	Ø275x400x255	3,5	84
Grus 1100 N97	1x100 W(E27)	Ø275x400x255	3,5	116
Grus 1150 N98	1x150 W(E27)	Ø275x400x255	4,1	168

Options available on request:

- HI – For metal halide lamps
- HS – For high pressure sodium lamp
- TIM – Timed ignitor
- HF – High Frequency control gear

CAVER LED

Slim IP65 luminaire for lighting building facades



Type:	Dust and moisture proof LED IP65 fixture for lighting building facades.
Specification:	Clear PC glass is fixed to the body. Ability to choose lenses with 45°, 60° or 120x60° optic. 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.



The fixture is supplied with adjustable angle bracket which can be slid along the length of the extrusion.

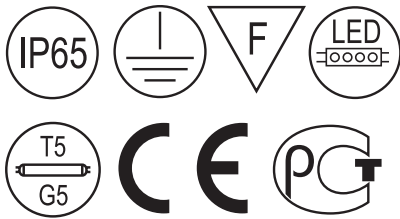
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Caver LED1x1250 B654 T750 L45	Lens 45°	80x380x170	1260	5000	70	11	4
Caver LED1x2500 B655 T750 L45	Lens 45°	80x380x170	2520	5000	70	22	4
Caver LED1x3750 B656 T750 L45	Lens 45°	80x380x170	3780	5000	70	33	4
Caver LED1x1250 B654 T750 L60	Lens 60°	80x380x170	1260	5000	70	11	4
Caver LED1x2500 B655 T750 L60	Lens 60°	80x380x170	2520	5000	70	22	4
Caver LED1x3750 B656 T750 L60	Lens 60°	80x380x170	3780	5000	70	33	4

Options available on request:

TIM	- Timed ignitor	T830	- Color temperature 3000K
HI	- For metal halide lamps	T840	- Color temperature 4000K
HF	- High Frequency control gear	T750	- Color temperature 5000K
DIM	- Dimmable ballast 1-10V	L45	- Lens 45°
SWITCHDIM	- Switch DIM ballast	L60	- Lens 60°
DALI	- DALI ballasts	L60x120	- Lens 60x120°

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 holder	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

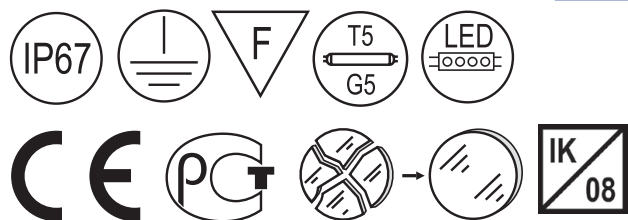
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Cygni LED1x1050 B657 T840 OP	IP65	62x630x63	1050	4000	>80	11	2,2
Cygni LED1x1400 B658 T840 OP	IP65	62x630x63	1400	4000	>80	14	2,2
Cygni LED1x2000 B659 T840 OP	IP65	62x630x63	2000	4000	>80	20	2,2
Cygni LED1x2350 B660 T840 OP	IP65	62x1200x63	2350	4000	>80	23	4,3
Cygni LED1x3150 B661 T840 OP	IP65	62x1200x63	3150	4000	>80	31	4,3
Cygni LED1x4300 B662 T840 OP	IP65	62x1200x63	4300	4000	>80	42	4,3

Options available on request:

- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

FLOOR

Stainless Steel Ground Recessed Floodlight



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 holder	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

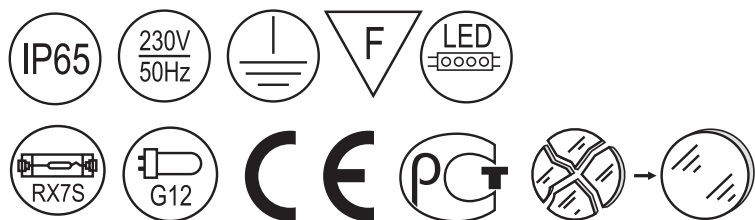
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Floor LED1x1050 B663 T840 OP	IP65	108x645x125	1050	4000	>80	11	2,3
Floor LED1x1400 B664 T840 OP	IP65	108x645x125	1400	4000	>80	14	2,3
Floor LED1x2000 B665 T840 OP	IP65	108x645x125	2000	4000	>80	20	2,3
Floor LED1x2350 B666 T840 OP	IP65	108x1245x125	2350	4000	>80	23	4,4
Floor LED1x3150 B667 T840 OP	IP65	108x1245x125	3150	4000	>80	31	4,4
Floor LED1x4300 B668 T840 OP	IP65	108x1245x125	4300	4000	>80	42	4,4

Options available on request:

DIM	- Dimmable ballast 1-10V
SWITCHDIM	- Switch DIM ballast
DALI	- DALI ballasts
EMG	- Emergency version 1 hour
EM2	- Emergency version 2 hours
T830	- Color temperature 3000K
T840	- Color temperature 4000K
T857	- Color temperature 5700K

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 holder	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

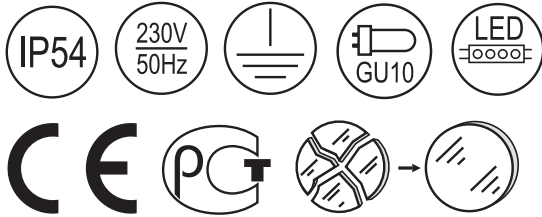
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Tube M LED2x2500 B669 T750 L45	Lens 45°	Ø155x460	5040	5000	70	44	3,2
Tube M LED2x3750 B670 T750 L45	Lens 45°	Ø155x460	7560	5000	70	66	3,2
Tube M UP LED1x2500 B671 T750 L45	Lens 45°	Ø155x250	2520	5000	70	22	2,2
Tube M UP LED1x3750 B672 T750 L45	Lens 45°	Ø155x250	3780	5000	70	33	2,2
Tube M LED2x2500 B669 T750 L60	Lens 60°	Ø155x460	5040	5000	70	44	3,2
Tube M LED2x3750 B670 T750 L60	Lens 60°	Ø155x460	7560	5000	70	66	3,2
Tube M UP LED1x2500 B671 T750 L60	Lens 60°	Ø155x250	2520	5000	70	22	2,2
Tube M UP LED1x3750 B672 T750 L60	Lens 60°	Ø155x250	3780	5000	70	33	2,2

Options available on request:

- TIM – Timed ignitor
- HI – For metal halide lamps
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballasts
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L45 – Lens 45°
- L60 – Lens 60°
- 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.

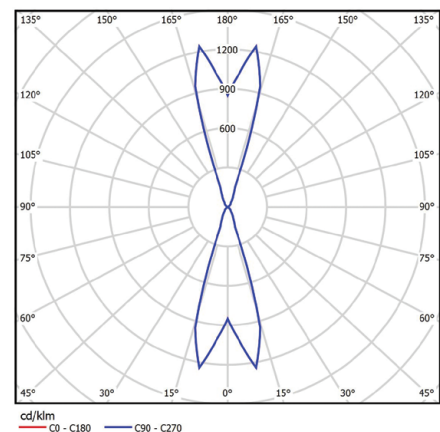
Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Tube S 2GU10 O13	max 2x50W (GU10)	Ø90x225	1,4	-
Tube S 1GU10 O14 UP	max 1x50W (GU10)	Ø90x225	1,4	-
Tube S 1GU10 O15 DOWN	max 1x50W (GU10)	Ø90x225	1,4	-

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Tube LED2x400 B194 T840	IP54	Ø90x225	800	4000	80	12	1,5
Tube LED1x400 B195 UP T840	IP54	Ø90x225	400	4000	80	6	1,5
Tube LED1x400 B196 DOWN T840	IP54	Ø90x225	400	4000	80	6	1,5

Options available on request:

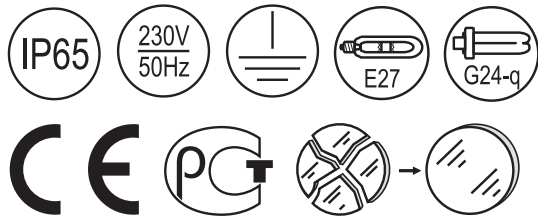
- UP – With upright source only
- DOWN – With downlight source only
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K

TUBE S 2GU10 O13



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.

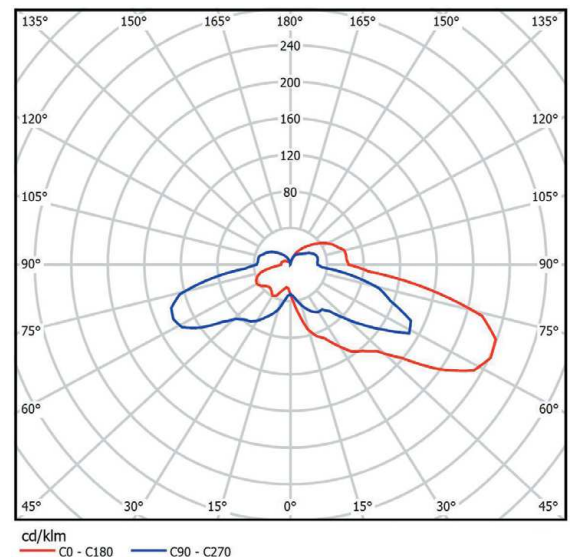
Application: Building exteriors and other areas.

Type	Lamp (W) and holder	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:

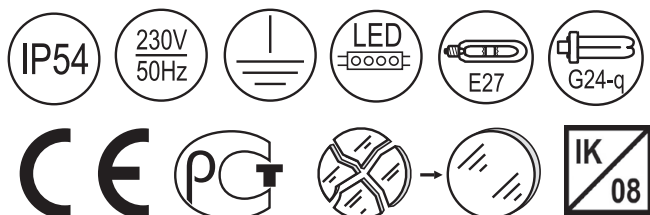
- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- TP – With built-in thermal protector
- HS – For high pressure sodium lamp
- HI – For metal halide lamp

ARCTURUS 170 F10



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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
ETA 1E27 Q78	1x60W (max) (E27)	Ø350x150	2	-
ETA 2E27 S53	2x60W (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 218 S50	2x18W (G24d-2)	Ø350x150	2,7	52
ETA 226 S51	2x26W (G24d-3)	Ø350x150	2,9	68
ETA 150 S52	1x50 (E27)	Ø350x150	2,9	62

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
ETA 1E27 Q78 LOUVER	1x60W (max) (E27)	Ø350x150	2,1	-
ETA 2E27 S53 LOUVER	2x60W (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
ETA 218 S50 LOUVER	2x18W (G24d-2)	Ø350x150	2,8	52
ETA 226 S51 LOUVER	2x26W (G24d-3)	Ø350x150	3	68
ETA 150 S52 LOUVER	1x50 (E27)	Ø350x150	3	62

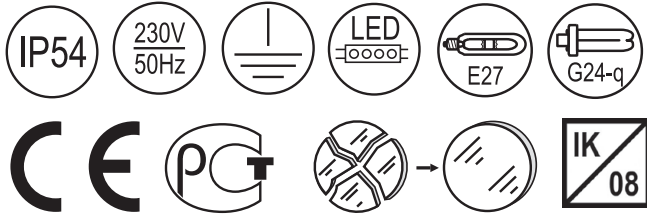
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
ETA LED1x1120 B688 T830 ECO	IP54	Ø350x150	1120	3000	>80	18	2,4
ETA LED1x1050 B680 T840	IP54	Ø350x150	1050	4000	>80	11	2,5
ETA LED1x1300 B681 T840	IP54	Ø350x150	1300	4000	>80	13	2,5
ETA LED1x1800 B682 T840	IP54	Ø350x150	1800	4000	>80	18	2,5
ETA LED1x2400 B683 T840	IP54	Ø350x150	2400	4000	>80	24	2,5

Options available on request:

- HF – High Frequency control gear
- DIM – Dimmable ballast 1-10V
- SWITCHDIM – Switch DIM ballast
- DALI – DALI ballast
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K
- IP65 – Water and dust protection IP65

OVAL

Vandal Resistant Bulkhead



OVAL 126 Q85 LOUVER



OVAL 126 Q85 GRID

- 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
OVAL 1E27 Q83	1x60W (max) (E27)	Ø350x150	1,2	-
OVAL 118 Q84	1x18W (G24d-2)	Ø350x150	1,5	26
OVAL 126 Q85	1x26W (G24d-3)	Ø350x150	1,6	34
OVAL 1E27 Q83 LOUVER	1x60W (max) (E27)	Ø350x150	1,3	-
OVAL 118 Q84 LOUVER	1x18W (G24d-2)	Ø350x150	1,6	26
OVAL 126 Q85 LOUVER	1x26W (G24d-3)	Ø350x150	1,7	34

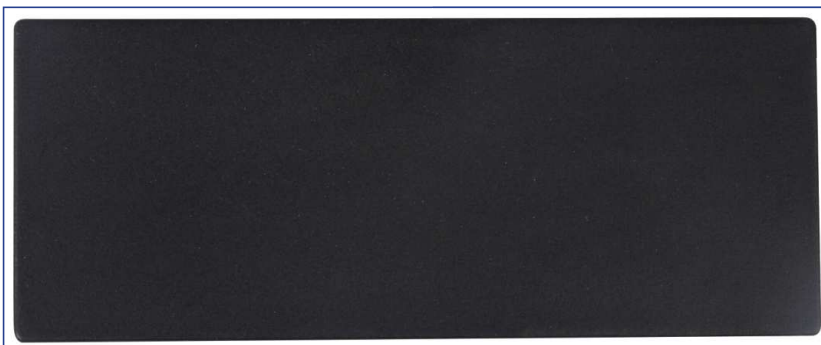
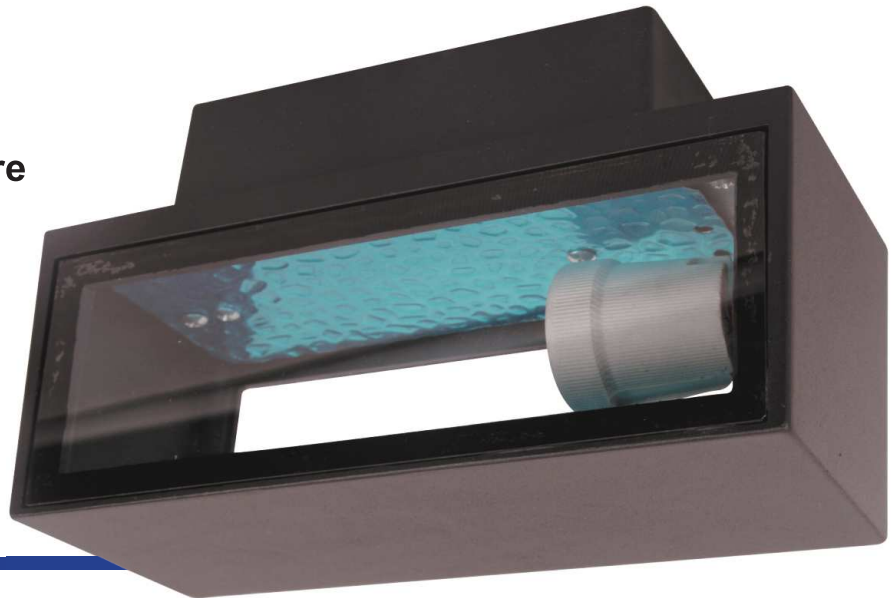
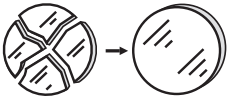
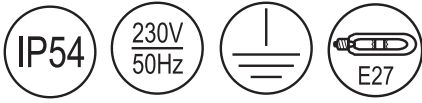
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Oval LED1x660 B684 T830 ECO	IP54	185x280x100	660	3000	>80	9	1,5
Oval LED1x1120 B685 T830 ECO	IP54	185x280x100	1120	3000	>80	18	1,5
Oval LED1x500 B686 T840	IP54	185x280x100	500	4000	>80	5	1,6
Oval LED1x850 B689 T840	IP54	185x280x100	850	4000	>80	8	1,6
Oval LED1x1100 B687 T840	IP54	185x280x100	1100	4000	>80	11	1,6

Options available on request:

- HF – High Frequency control gear
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K
- IP65 – Water and dust protection IP65

PYXIS

Wall Mounted Luminaire



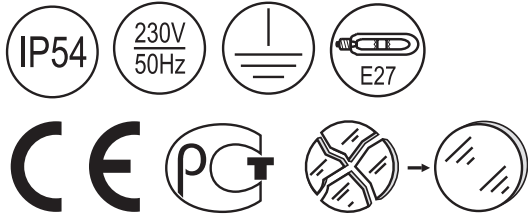
MENSA 1E27 Q89

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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Pyxis 1E27 Q90	1x60W (max) (E27)	90x220x125	1,5	-

MENSA

Wall Mounted Luminaire



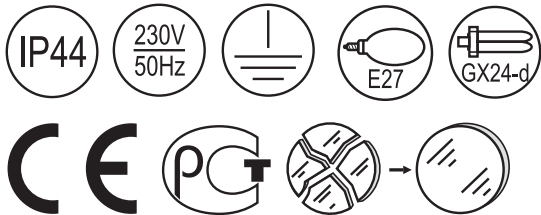
MENSA 1E27 Q89

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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Mensa 1E27 Q89	1x60W (max) (E27)	157x160x180	2	-

POCKET

A Wall Recessed Luminaire



Pocket 1E27 O04

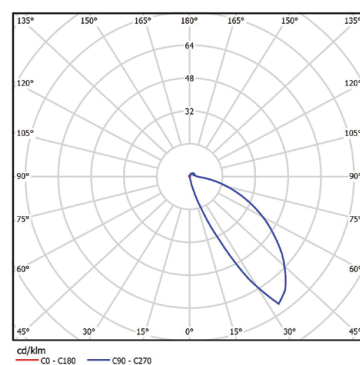
- Type:** A range of square wall recessed luminaires with indirect light distribution and good vandal resistant.
- Specification:** Tempered frosted glass diffuser.
Die-cast aluminum body in dark grey finish with a thermoplastic recessing housing.
Luminaire is plastic-wrapped and boxed individually.
- Installation:** Suitable for recessed mounting into walls. Supplied with recessing housing.
- Application:** Ideal for numerous indoor applications.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Pocket 1E27 O04	1x40W (max) (E27)	128x227x87	1	
Pocket 113 O05	1x13W (G24d-1)	128x227x87	1,3	19
Pocket 118 O06	1x18W (G24d-2)	128x227x87	1,3	26

Options available on request:

- NCP – Low Power Factor
- HF – High Frequency control gear

POCKET 118 O06



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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Theta 1E27 Q75	1x40W (max) (E27)	76x260x87	1	-
Theta 113 Q76	1x13W (G24d-1)	76x260x87	1,3	19
Theta 118 Q77	1x18W (G24d-2)	76x260x87	1,3	26
Theta 1E27 Q75 GRID	1x40W (max) (E27)	76x260x87	1	-
Theta 113 Q76 GRID	1x13W (G24d-1)	76x260x87	1,3	19
Theta 118 Q77 GRID	1x18W (G24d-2)	76x260x87	1,3	26

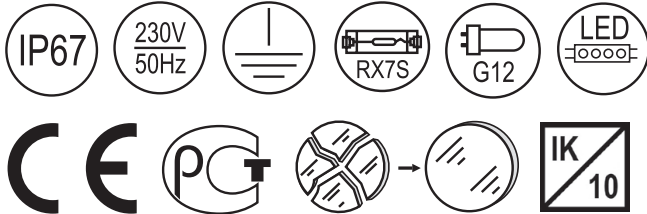
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Theta LED1x500 B690 T840	IP54	76x260x87	500	4000	>80	5	1,2
Theta LED1x850 B691 T840	IP54	76x260x87	850	4000	>80	8	1,2

Options available on request:

NCP	-	Low Power Factor	T830	-	Color temperature 3000K
GRID	-	Protection grid	T840	-	Color temperature 4000K
HF	-	High Frequency control gear	T857	-	Color temperature 5700K

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.



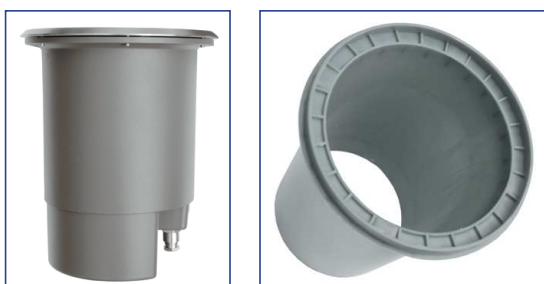
Square stainless steel frame with tempered glass. See option list (SQUARE)

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**)



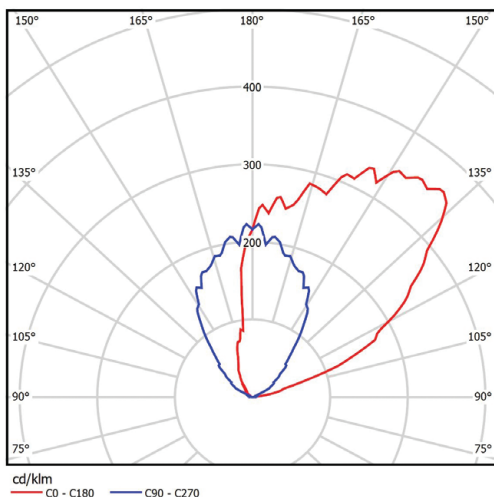
Type	Lamp (W) and holder		Overall dimensions, mm	Weight, kg	Total wattage, W
Atlas B 135 N78	1x35 W(G12)	symmetric	Ø258x370	5,7	44
Atlas B 170 N79	1x70 W(G12)	symmetric	Ø258x370	5,7	83,5
Atlas B 1150 N80	1x150 W(G12)	symmetric	Ø258x370	6,3	168
Atlas B 135 N78 AS	1x35 W(Rx7s)	asymmetric	Ø258x370	5,7	44
Atlas B 170 N79 AS	1x70 W(Rx7s)	asymmetric	Ø258x370	5,7	83,5
Atlas B 1150 N80 AS	1x150 W(Rx7s)	asymmetric	Ø258x370	6,3	168
Atlas B 135 N78 SQUARE	1x35 W(G12)	symmetric	Ø258x370	5,7	44
Atlas B 170 N79 SQUARE	1x70 W(G12)	symmetric	Ø258x370	5,7	83,5
Atlas B 1150 N80 SQUARE	1x150 W(G12)	symmetric	Ø258x370	6,3	168
Atlas B 135 N78 AS SQUARE	1x35 W(Rx7s)	asymmetric	Ø258x370	5,7	44
Atlas B 170 N79 AS SQUARE	1x70 W(Rx7s)	asymmetric	Ø258x370	5,7	83,5
Atlas B 1150 N80 AS SQUARE	1x150 W(Rx7s)	asymmetric	Ø258x370	6,3	168
Atlas B 135 N78 ANGLE	1x35 W(G12)	symmetric	Ø258x450	5,7	44
Atlas B 170 N79 ANGLE	1x70 W(G12)	symmetric	Ø258x450	5,7	83,5
Atlas B 1150 N80 ANGLE	1x150 W(G12)	symmetric	Ø258x450	6,3	168
Atlas B 135 N78 MOVE	1x35 W(G12)	symmetric	Ø258x370	5,7	44
Atlas B 170 N79 MOVE	1x70 W(G12)	symmetric	Ø258x370	5,7	83,5
Atlas B 1150 N80 MOVE	1x150 W(G12)	symmetric	Ø258x370	6,3	168
Atlas B 135 N78 LOUVER	1x35 W(G12)	symmetric	Ø258x480	5,7	44
Atlas B 170 N79 LOUVER	1x70 W(G12)	symmetric	Ø258x480	5,7	83,5
Atlas B 1150 N80 LOUVER	1x150 W(G12)	symmetric	Ø258x480	6,3	168
Atlas B 135 N78 COVER1	1x35 W(G12)	symmetric	Ø258x400	5,7	44
Atlas B 170 N79 COVER1	1x70 W(G12)	symmetric	Ø258x400	5,7	83,5
Atlas B 1150 N80 COVER1	1x150 W(G12)	symmetric	Ø258x400	6,3	168
Atlas B 135 N78 COVER2	1x35 W(G12)	symmetric	Ø258x400	5,7	44
Atlas B 170 N79 COVER2	1x70 W(G12)	symmetric	Ø258x400	5,7	83,5
Atlas B 1150 N80 COVER2	1x150 W(G12)	symmetric	Ø258x400	6,3	168
Atlas B 135 N78 COVER12	1x35 W(G12)	symmetric	Ø258x400	5,7	44
Atlas B 170 N79 COVER12	1x70 W(G12)	symmetric	Ø258x400	5,7	83,5
Atlas B 1150 N80 COVER12	1x150 W(G12)	symmetric	Ø258x400	6,3	168

Options available on request:

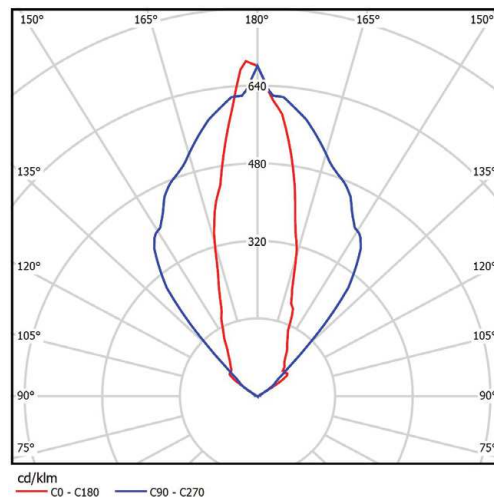
- SQUARE – Square stainless steel frame
- AS – Asymmetric reflector
- LOUVER – Louver to prevent from blinding effect
- MOVE – Symmetrical moveable reflector

- COVER1 – Dome with single window
- COVER2 – Dome with double window
- COVER12 – Dome with twelve window
- TIM – Timed ignitor

ATLAS B 170 N79 AS



ATLAS B 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 holder	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

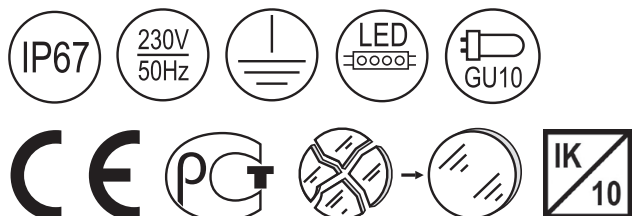
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Atlas M LED1x2500 B673 T750 L45	Lens 45°	Ø200x235	2520	5000	70	22	4,5
Atlas M LED1x3750 B674 T750 L45	Lens 45°	Ø200x235	3780	5000	70	33	4,5
Atlas M LED1x5000 B675 T750 L45	Lens 45°	Ø200x235	5040	5000	70	44	4,5
Atlas M LED1x2500 B673 T750 L60	Lens 60°	Ø200x235	2520	5000	70	22	4,5
Atlas M LED1x3750 B674 T750 L60	Lens 60°	Ø200x235	3780	5000	70	33	4,5
Atlas M LED1x5000 B675 T750 L60	Lens 60°	Ø200x235	5040	5000	70	44	4,5

Options available on request:

TIM	- Timed ignitor	COVER2	- Dome with double window
HI	- For metal halide lamps	COVER12	- Dome with twelve window
HF	- High Frequency control gear	GLASS	- Special glass to increase light efficiency
DIM	- Dimmable ballast 1-10V	T830	- Color temperature 3000K
SWITCHDIM	- Switch DIM ballast	T840	- Color temperature 4000K
DALI	- DALI ballasts	T750	- Color temperature 5000K
SQUARE	- Square stainless steel frame	L45	- Lens 45°
COVER1	- Dome with single window	L60	- Lens 60°

ATLAS OP

Recessed Floodlight with Frosted Glass Cover



Type: A recessed LED floodlight with a frosted glass cover. IP67 - water and dust protection for use in adverse conditions.

Specification: Body in aluminum with dark grey finish and recessed housing in polypropylene. Toughened frosted 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.

Type	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Atlas OP 1GU10 T39	max 1x50W (GU10)	Ø150x100	1	-

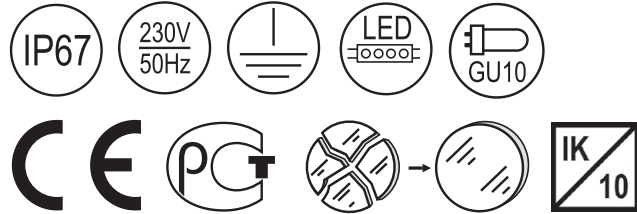
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Atlas OP LED1x400 B676 T840	IP67	Ø150x100	400	4000	80	6	1

Options available on request:

- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K

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 holder	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	-

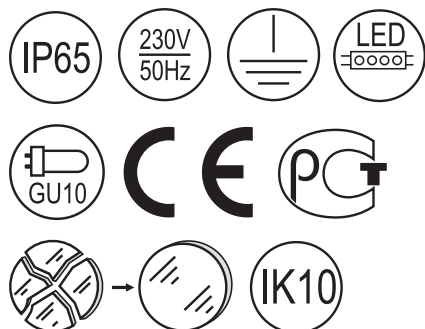
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Atlas S LED1x400 B677 T840	IP67	Ø105x165	400	4000	80	6	0,5

Options available on request:

- SQUARE – Square stainless steel frame GLASS – Special glass to increase light efficiency
- COVER1 – Dome with single window T830 – Color temperature 3000K
- COVER2 – Dome with double window T840 – Color temperature 4000K
- COVER12 – Dome with twelve window T750 – Color temperature 5000K

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 holder	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	-

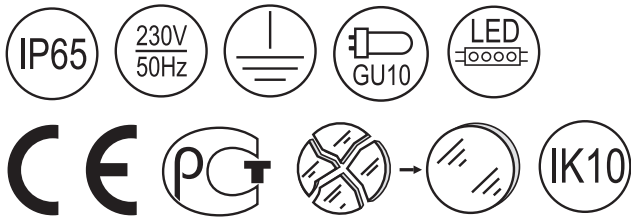
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
KAPPA LED1x400 B678 T840	IP65	Ø70x150x210	400	4000	80	6	0,7
KAPPA LED1x400 B679 LONG T840	IP65	Ø70x150x605	400	4000	80	6	1,2

Options available on request:

- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K

APUS

A Miniature Floodlight for Halogen Lamps



Apus 1GU10 O11 HOL



Apus 1GU10 O11 HOL LOUVER

Holder for wall mounted version should be ordered. See option list: HOL.



Apus 1GU10 O12 GRO



Apus 1GU10 O12 GRO LOUVER

Ground spike for tree and plant should be ordered. See option list: GRO.

Type: A range of miniature ground recessed&surface mounted luminaires with IP65 protection.

Specification: Tempered glass diffuser.
Die-cast 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 holder	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	-

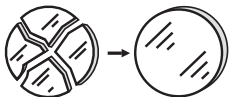
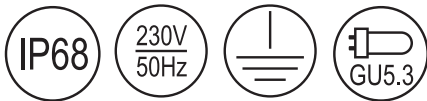
Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Apus LED1x400 B191 REC T840	IP65	Ø98x98	400	4000	80	6	0,5
Apus LED1x400 B192 HOL T840	IP65	Ø98x98	400	4000	80	6	0,5
Apus LED1x400 B193 GRO T840	IP65	Ø98x98	400	4000	80	6	0,5

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
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K

FISH

A underwater Projector for lighting pools



FISH 1G5.3 R02



INOX BOX4



FISH 1G5.3 R03



FISH 1G5.3 R04

Type: A range of underwater projectors for lighting pools. 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 pools.

Type	Lamp (W) and holder	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	-

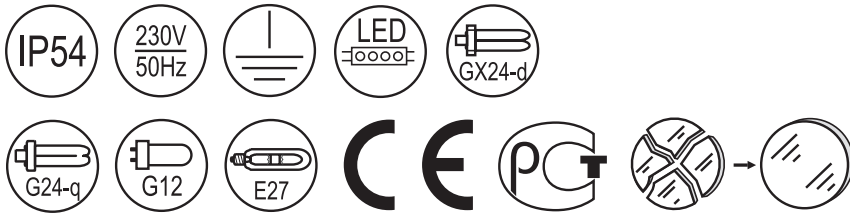
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DRACO

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 holder	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

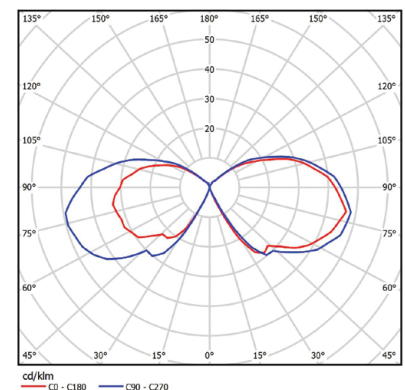
Bollard height can be adjusted on request

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Draco LED1x1500 B692 T840	IP54	Ø140(225)x800	1500	4000	>80	15	4,6
Draco LED1x2550 B693 T840	IP54	Ø140(225)x800	2550	4000	>80	25	4,6
Draco LED1x3300 B694 T840	IP54	Ø140(225)x800	3300	4000	>80	33	4,6

Options available on request:

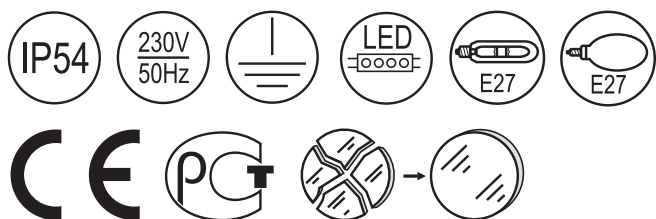
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- HF – High Frequency control gear
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

DRACO 132 N64 HF



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 holder	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)	Ø500x605	4,9	116
Sphere 1150 N85 OP	Opal, HS	1x150 (E40)	Ø500x605	5,5	168
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 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
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

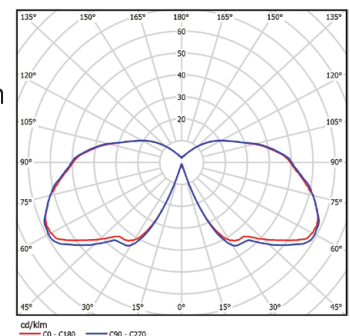
Version for 250W lamp can be produced on request

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Sphere LED1x2500 B695 OP T840	IP54	Ø500x605	2500	4000	>80	24	4,9
Sphere LED1x3400 B696 OP T840	IP54	Ø500x605	3400	4000	>80	33	4,9
Sphere LED1x4500 B697 OP T840	IP54	Ø500x605	4500	4000	>80	44	4,9
Sphere LED1x5000 B698 OP T840	IP54	Ø500x605	5000	4000	>80	49	4,9
Sphere LED1x6800 B699 OP T840	IP54	Ø500x605	6800	4000	>80	66	4,9
Sphere LED1x9000 B700 OP T840	IP54	Ø500x605	9000	4000	>80	88	4,9

Options available on request:

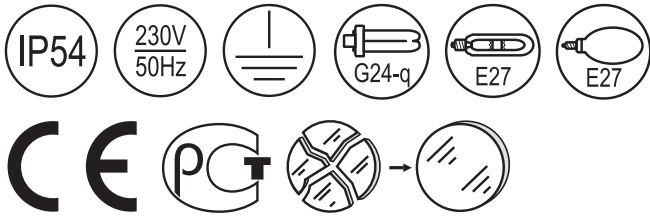
HF – High Frequency control gear	PRZ – Prismatic diffuser
HS – For high pressure sodium lamps	RFL – Stainless steel reflector
HM – For high pressure mercury lamps	SUS – Suspended mounted version
HI – For metal halide lamps	IP65 – IP65 protection
PC – PC bowl	T830 – Color temperature 3000K
OP – Opal diffuser	T840 – Color temperature 4000K
CLR – Clear diffuser	T857 – Color temperature 5700K

SPHERE 170 H98 CLR RFL



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.



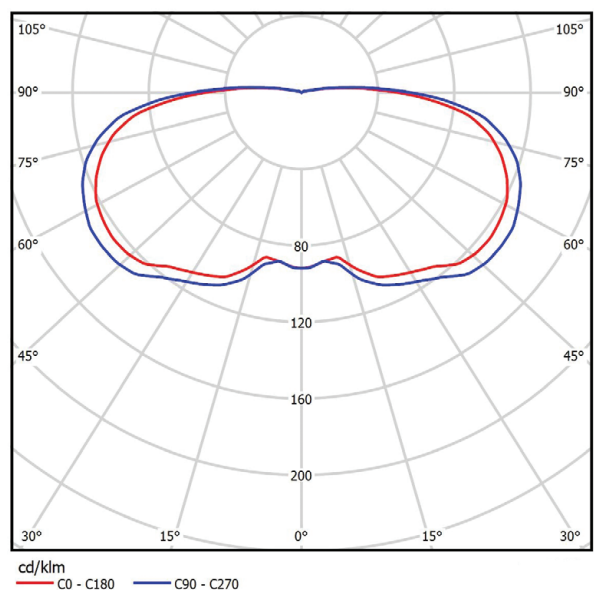
A stainless steel reflector for better glare control and light distribution can be ordered on request. See option list- RFL. Recommended in versions with a clear diffuser.

Type	Description	Lamp (W) and holder	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:

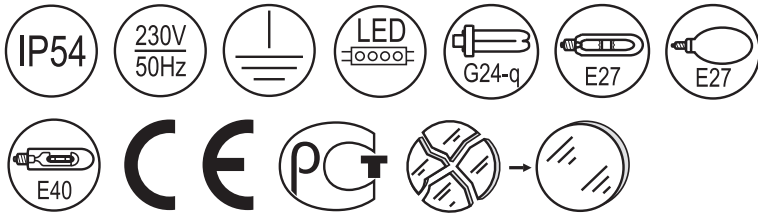
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- HF – High Frequency control gear
- PC – PC bowl
- OP – Opal diffuser
- CLR – Clear diffuser
- MAT – Matt coated
- RFL – Stainless steel reflector

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.

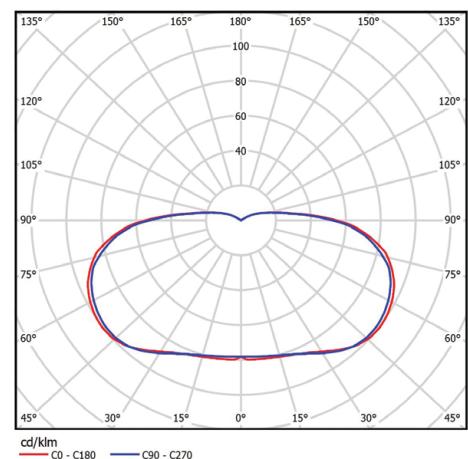
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Vela 1E27 N91 OP	Opal	E27 (max.100 W)	Ø400x510	3,1	-
Vela 142 N92 HF OP	Opal	1x42 (G24q-4)	Ø400x510	3,2	44
Vela 150 N93 OP	Opal	1x50 (E27)	Ø400x510	4,3	62
Vela 170 N94 OP	Opal	1x70 (E27)	Ø400x510	4,3	85
Vela 1100 O02 OP PC	Opal	1x100 (E40)	Ø400x510	4,4	116
Vela 1E27 N91 OP ROOF	Opal with canopy	E27 (max.100 W)	Ø500x540	4,0	-
Vela 142 N92 HF OP ROOF	Opal with canopy	1x42 (G24q-4)	Ø500x540	4,1	44
Vela 150 N93 OP ROOF	Opal with canopy	1x50 (E27)	Ø500x540	5,2	62
Vela 170 N94 OP ROOF	Opal with canopy	1x70 (E27)	Ø500x540	5,2	85
Vela 1100 O02 OP PC ROOF	Opal with canopy	1x100 (E40)	Ø500x540	5,3	116
Vela 1E27 N91 CLR RFL	Clear with reflector	E27 (max.100 W)	Ø400x510	3,4	-
Vela 142 N92 HF CLR RFL	Clear with reflector	1x42 (G24q-4)	Ø400x510	3,5	44
Vela 150 N93 CLR RFL	Clear with reflector	1x50 (E27)	Ø400x510	4,6	62
Vela 170 N94 CLR RFL	Clear with reflector	1x70 (E27)	Ø400x510	4,6	85
Vela 1100 O02 CLR PC RFL	Clear with reflector	1x100 (E40)	Ø400x510	4,7	116
Vela 1E27 N91 CLR RFL ROOF	Clear with reflector and canopy	E27 (max.100 W)	Ø500x540	4,3	-
Vela 142 N92 HF CLR RFL ROOF	Clear with reflector and canopy	1x42 (G24q-4)	Ø500x540	4,4	44
Vela 150 N93 CLR RFL ROOF	Clear with reflector and canopy	1x50 (E27)	Ø500x540	5,6	62
Vela 170 N94 CLR RFL ROOF	Clear with reflector and canopy	1x70 (E27)	Ø500x540	5,6	85
Vela 1100 O02 CLR PC RFL ROOF	Clear with reflector and canopy	1x100 (E40)	Ø500x540	5,7	116

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Vela LED1x2500 B701 OP T840	IP54	Ø400x510	2500	4000	>80	24	4,3
Vela LED1x3400 B702 OP T840	IP54	Ø400x510	3400	4000	>80	33	4,3
Vela LED1x4500 B703 OP T840	IP54	Ø400x510	4500	4000	>80	44	4,3
Vela LED1x5000 B704 OP T840	IP54	Ø400x510	5000	4000	>80	49	4,3
Vela LED1x6800 B705 OP T840	IP54	Ø400x510	6800	4000	>80	66	4,3
Vela LED1x9000 B706 OP T840	IP54	Ø400x510	9000	4000	>80	88	4,3

Options available on request:

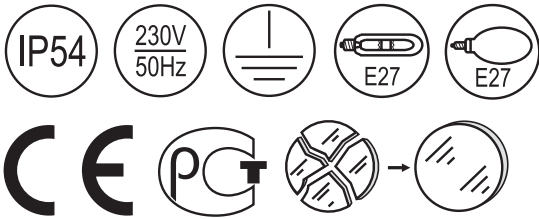
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- HF – High Frequency control gear
- PC – PC bowl
- OP – Opal diffuser
- CLR – Clear diffuser
- MAT – Matt coated
- RFL – Stainless steel reflector
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T857 – Color temperature 5700K

VELA 170 N94 OP ROOF



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 holder	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

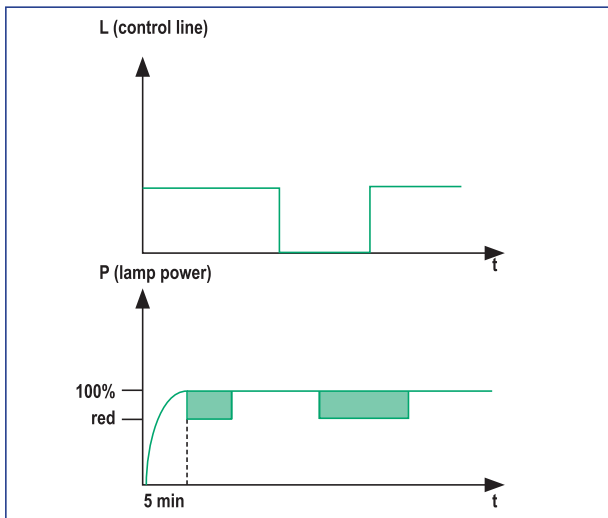
Options available on request:

- 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

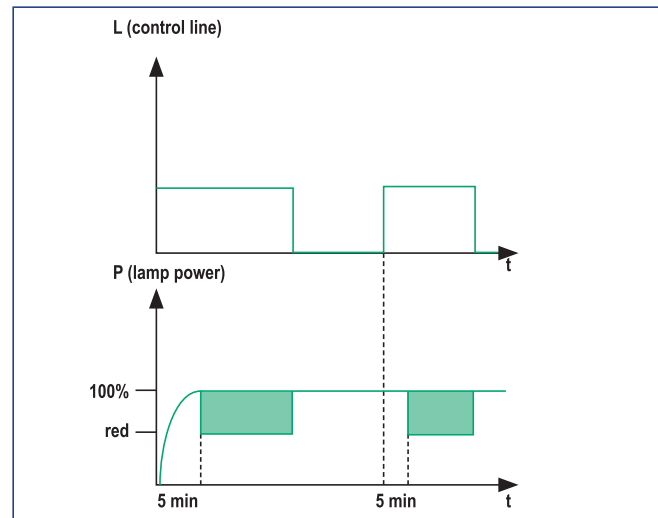


WCoFFPRD – power reduction device with control wire (reduce then phase is **OFF**)



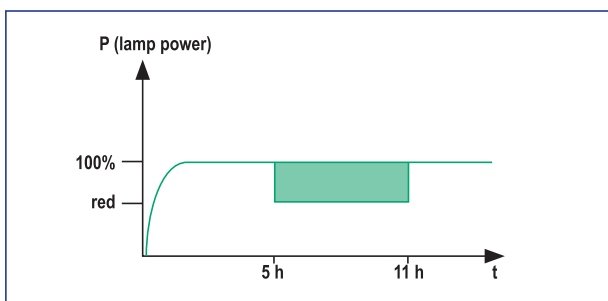
- Switch over to reduced power without applying control voltage
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

WConPRD – power reduction device with control wire (reduce then phase is **ON**)



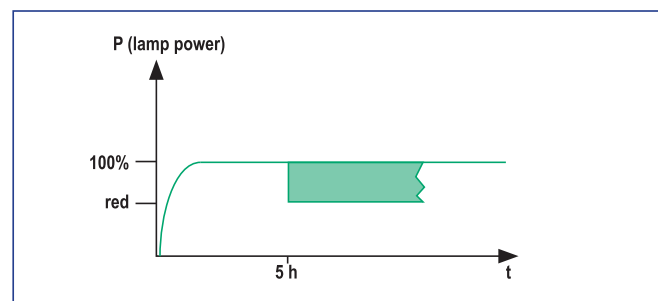
- Switch over to reduced power when control voltage applied, after delay of 5 minutes.
- 5 minutes of full load operation, independent if control voltage applied or not during switch on (lamp preservation)
- 3 minutes of full load operation after short mains interruptions independent if control voltage applied

AC5h/6hPRD – power reduction device with automatic reduction for 6 h after 5h working time. **No control cable needed.**



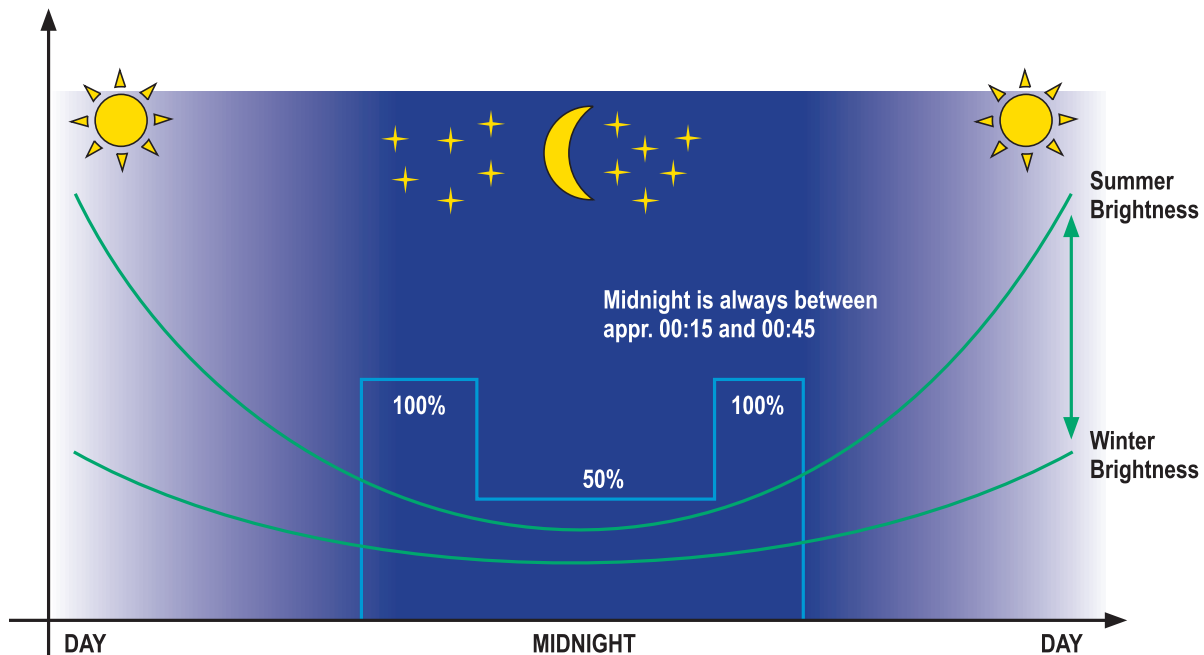
- Program sequence starts after supply voltage is applied
- Switch over to reduced power operation after permanently programmed time of 5h (no additional line needed)
- Reduced operation for 6h
- Full power operation till supply voltage is switched OFF
- 3 minutes of full load operation after short mains 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.



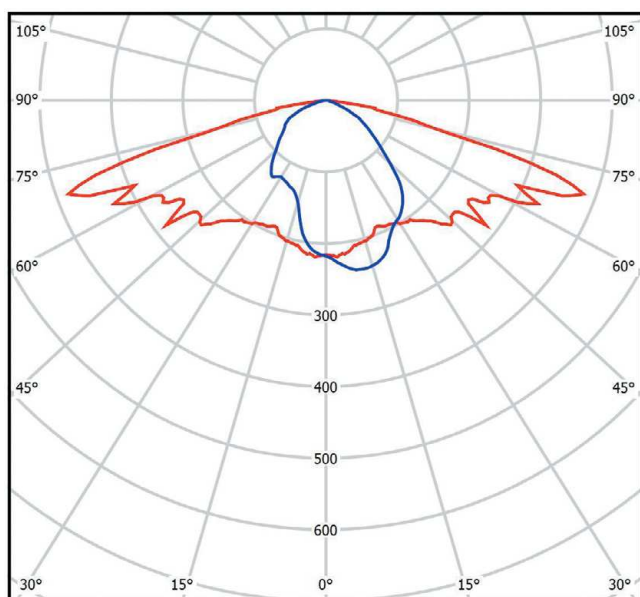
Supplied with special adjustable joint for horizontal or vertical mounting.

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 170 F12	HS	1x70 (E27)	350x530x175	3,8	85
Algol 1100 F13	HS	1x100 (E40)	350x530x175	3,8	116
Algol 1150 F14	HS	1x150 (E40)	350x530x175	4,4	168
Algol 1125 F15	HM	1x125 (E27)	350x530x175	4,24	138

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl
- WCoffPRD – Power reduction device with control wire (reduce then phase is OFF)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control cable needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed
- TIM – Timed ignitor

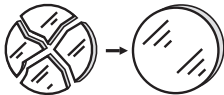
ALGOL 1100 F13



cd/klm
— C0 - C180 — C90 - C270

ALGOL

IP66/IP44 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 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.



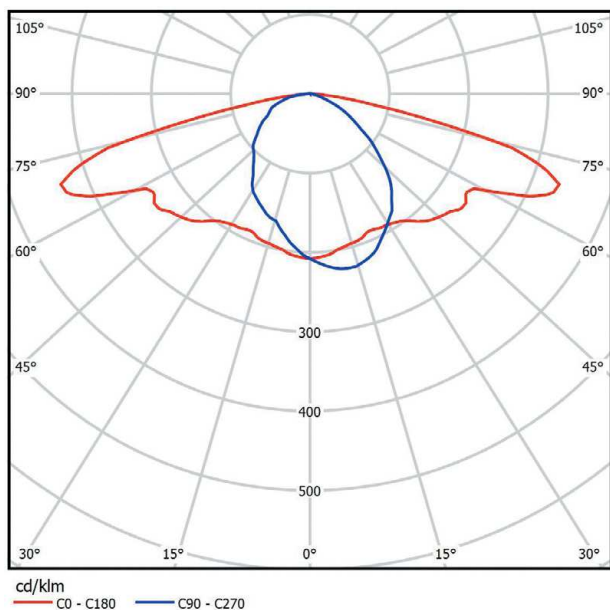
Supplied with special adjustable joint for horizontal or vertical mounting.

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 170 E91	HS	1x70 (E27)	320x630x230	4,32	85
Algol 1100 E92	HS	1x100 (E40)	320x630x230	4,32	116
Algol 1150 E93	HS	1x150 (E40)	320x630x230	4,92	168
Algol 1250 E94	HS	1x250 (E40)	370x730x310	7,11	279
Algol 1125 F16 HM	HM	1x125 (E27)	320x630x230	4,15	138
Algol 1250 E94 HM	HM	1x250 (E40)	370x730x310	6,94	269

Options available on request:

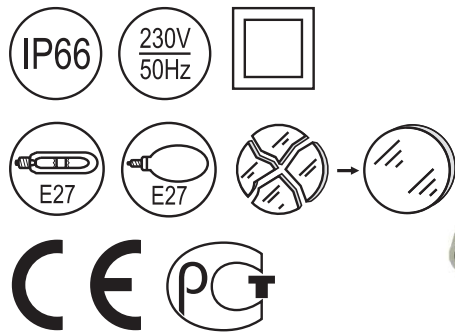
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl
- WCoffPRD – Power reduction device with control wire (reduce then phase is OFF)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control cable needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed
- TIM – Timed ignitor
- RS – Special design reflector

ALGOL 1150 E93 RS



ALGOL

IP66 Slim-line Road and Street Lights



Type: A range of IP66 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 holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 170 E95	HS	1x70 (E27)	308x438x162	2,95	85
Algol 1125 F17 HM	HM	1x125 (E27)	308x438x162	2,78	138

Options available on request:

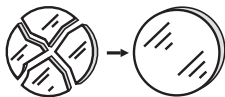
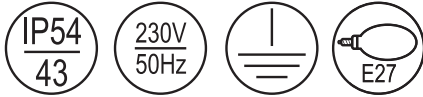
- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- PC – PC bowl

- WCoFFPRD – Power reduction device with control wire (reduce then phase is OFF)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)

- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control cable needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed
- TIM – Timed ignitor

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 cover 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.

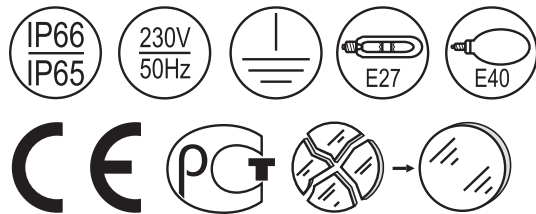
Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 170 E96	HS	1x70 (E27)	285x510x155	3,40	85
Algol 1125 F18 HM	HM	1x125 (E27)	285x510x155	3,25	138

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- TIM – Timed ignitor

ALGOL

IP66/65 Aluminum Road and Street Lights



- Type:** A range of aluminum street lights with security switch. IP66 optical and IP65 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.



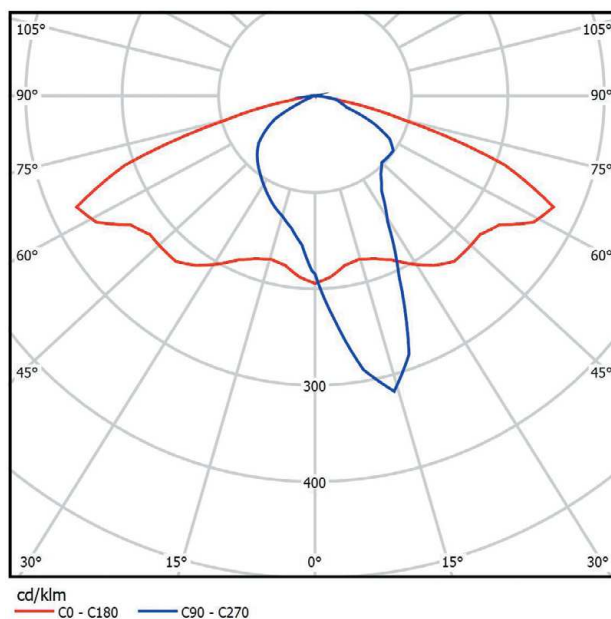
Security switch (SWT) cuts power supply to fitting, once it has been opened. This way ensures safe maintenance of the luminaire.

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 150 J33 SWT	HS	1x50 (E27)	265x570x110	5,50	62
Algol 170 K67 SWT	HS	1x70 (E27)	265x570x110	5,50	85
Algol 1100 K68 SWT	HS	1x100 (E40)	265x570x110	5,50	116
Algol 1150 K69 SWT	HS	1x150 (E40)	265x570x110	6,30	168
Algol 1250 K70 SWT	HS	1x250 (E40)	296x660x192	8,4	279

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- TIM – Timed ignitor
- ACmidPRD – power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- WCoffPRD – power reduction device with control wire (reduce then phase is OFF)
- WConPRD – power reduction device with control wire (reduce then phase is ON)
- AC5hPRD – power reduction device with automatic reduction after 5h. No control cable needed.

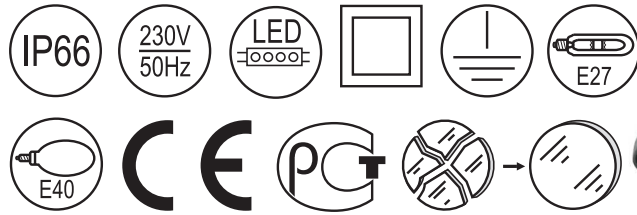
ALGOL 170 K67



cd/klm
 — C0 - C180 — C90 - C270

ALGOL

IP66 Road and Street Lights with Adjustable Lamp Position



Type:

A range of aluminium street lights with unique curved profile. High lighting output and optical performance, designed to match the highest required standards.

Specification:

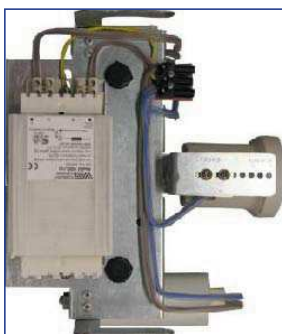
Bright anodized aluminum reflector with tempered glass cover. Adjustable lamp position. Upper and lower canopies made of high-pressure die-cast aluminium. Polyester powder painted RAL9006. Luminaire is plastic-wrapped and boxed individually.

Installation:

Side entry or post top installation with two screws on poles Ø60mm. Suggested mounting height from 6 to 18 meters.

Application:

Suitable for many applications including car parks, minor and major roads, residential areas and public places.



Ease of installation and maintenance with removable gear tray (plug and socket connection). See option list.

Type	Description	Lamp (W) and holder	Overall dimensions, mm	Weight, kg	Total wattage, W
Algol 150 R74	HS	1x50 (E27)	335x525x185	6,1	62
Algol 170 R75	HS	1x70 (E27)	335x525x185	6,4	85
Algol 1100 R76	HS	1x100 (E40)	335x525x185	6,9	116
Algol 1150 R77	HS	1x150 (E40)	335x525x185	7,1	168
Algol 1250 R78	HS	1x250 (E40)	390x715x215	11,7	279
Algol 1400 R79	HS	1x400 (E40)	390x715x215	13,7	432
Algol 1600 R80	HS	1x600 (E40)	390x715x215	17,4	660



Supplied with special adjustable joint for horizontal or vertical mounting.



A range of LED aluminium street lights with unique curved profile and 60x120° beam lenses.

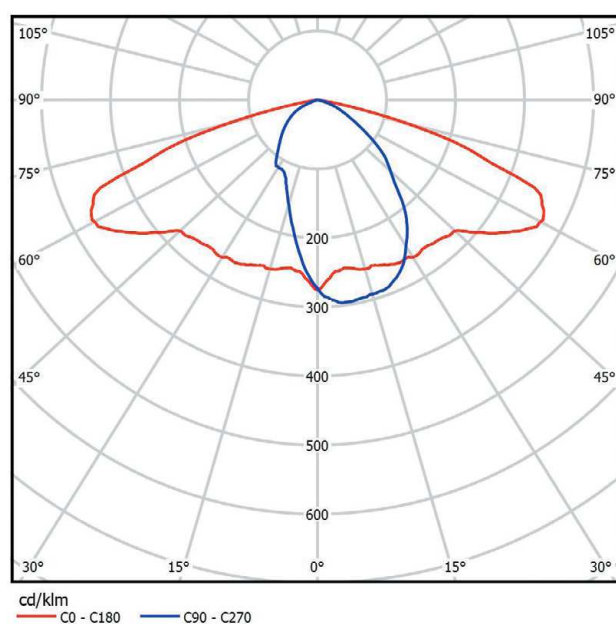
Tempered glass cover with canopies made of high-pressure die-cast aluminium. Polyester powder painted RAL9006

Type	Description	Overall dimensions, mm	Luminous flux, lm	Color temperature, K	Color rendering, Ra	Total wattage, W	Weight, kg
Algol LED1x5000 B707 T840 L60x120	Lens 60x120°	335x525x185	5000	5000	70	44	7,2
Algol LED1x7500 B708 T840 L60x120	Lens 60x120°	335x525x185	7500	5000	70	66	7,2
Algol LED1x10000 B709 T840 L60x120	Lens 60x120°	390x715x215	10000	5000	70	88	12,8
Algol LED1x12500 B710 T840 L60x120	Lens 60x120°	390x715x215	12500	5000	70	110	12,8
Algol LED1x15000 B711 T840 L60x120	Lens 60x120°	390x715x215	15000	5000	70	132	12,8

Options available on request:

- HS – For high pressure sodium lamps
- HM – For high pressure mercury lamps
- HI – For metal halide lamps
- WCoffPRD – Power reduction device with control wire (reduce then phase is OFF)
- WConPRD – Power reduction device with control wire (reduce then phase is ON)
- AC5hPRD – Power reduction device with automatic reduction after 5h. No control cable needed.
- ACmidPRD – Power reduction device with automatic reduction and middle night detection (for 7h). No control wire needed.
- TIM – Timed ignitor
- RGBOX – Removable gear tray
- II – Electric shock protection class II
- PC – PC diffuser
- T830 – Color temperature 3000K
- T840 – Color temperature 4000K
- T750 – Color temperature 5000K
- L60x120 – Lens 60x120°

ALGOL 1150 R77 HS



INFORMATION



Table of light stream values for fluorescent light sources supplied by emergency kits NOVA LP and NOVA LEP in %:








Light source	Kit type	NOVA LP/36, LEP36	NOVA LP/58, LEP/58	NOVA LP/80, LEP/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
	55W	-	7	10
TC-DEL	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	-	-	10
	54W	-	-	9
80W	-	-	7	
TC-2D	10W	25	30	36
	16W	24	31	34
	21W	-	20	25
	28W	-	19	21
	38W	-	15	18
TC-TEL	13W	9	14	16
	18W	-	12	17
	26W	-	12	15
	32W	-	7	9
		-	5	7

Degrees of protection IP (International Protection)






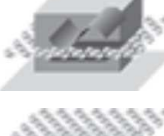
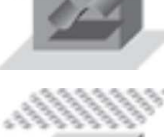

1-st number	2-nd number	added letter	additional letter
0...6	0...8	A...D	H...W

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

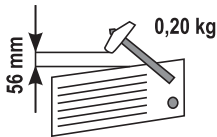
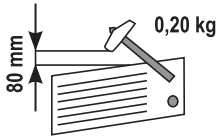
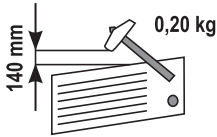
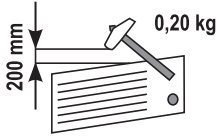
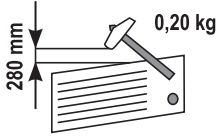
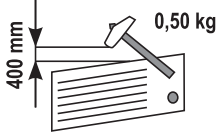
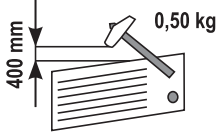
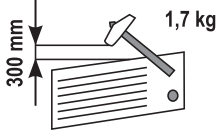
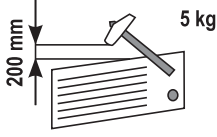

1-ST NUMBER protection against the contact of external solid bodies and against the access to dangerous parts

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.

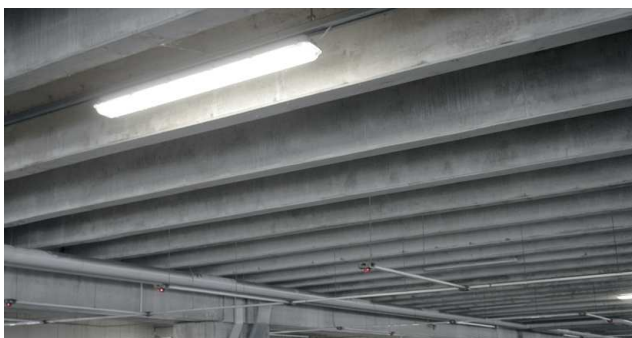
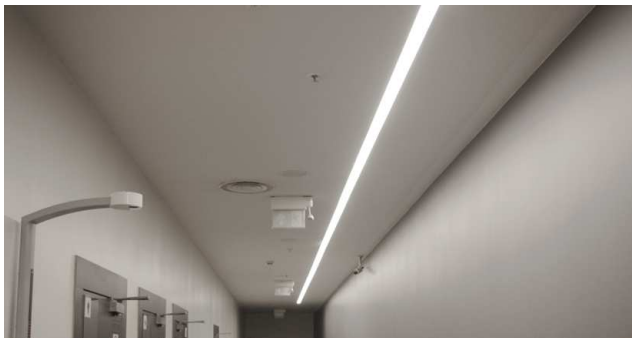
The degree of mechanical protection is identified by a code that consists of the letters IK followed by two digits:

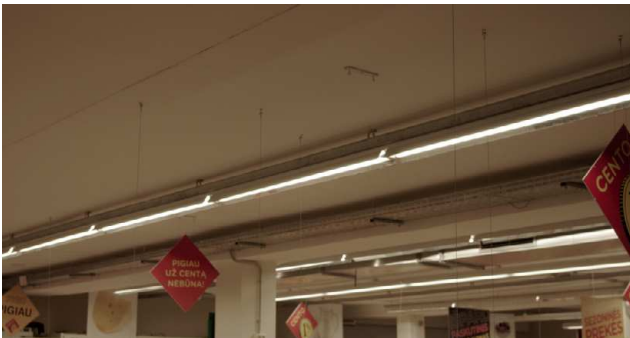
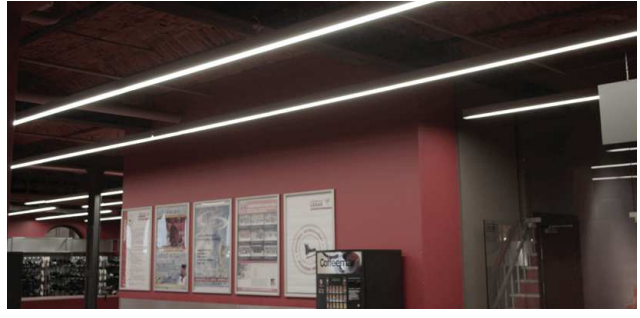
IK number	Energy		Equivalent impact
00	Non-protected		no test
01	Impact energy: 0,150 joules		Resistant against an impact from an object of 200 grams from a distance of 5,6 cm
02	Impact energy: 0,200 joules		Resistant against an impact from an object of 200 grams from a distance of 8,0 cm
03	Impact energy: 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

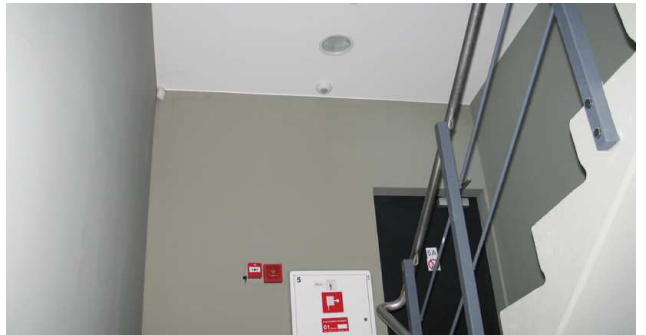
Chemical resistance of PROOF series parts made of thermoplasts

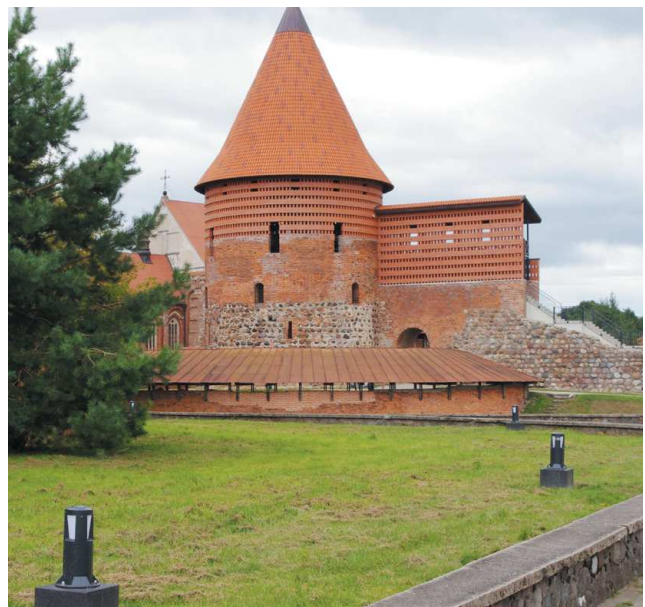
Enviroment	Max con-cent-ration	PROOF diffuser resistant			PROOF body resistant		
		yes	partially	no	yes	partially	no
Aceton (ketones)				•		•	
Aniline				•		•	
Ammonia	5%	•			•		
Benzene and Benzaldehyde				•		•	
Diethylether(ethers)			•			•	
Potassium nitrate		•					
Ethanol(alcohols)	50%		•			•	
Ethylacetate(esters)				•		•	
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		•			•		

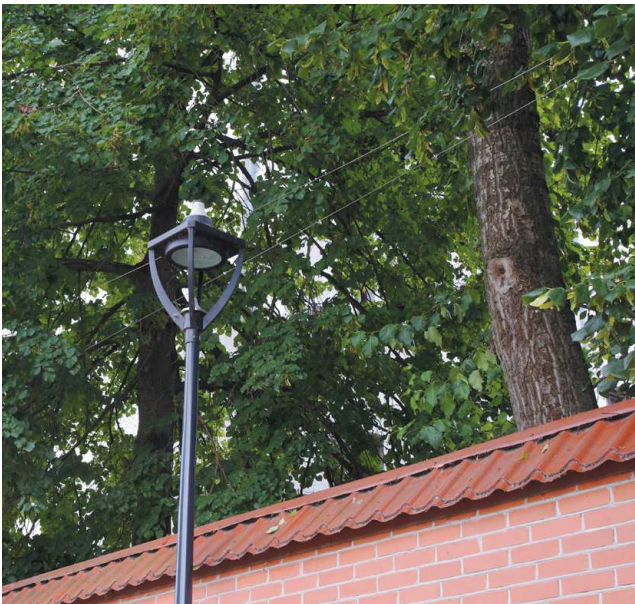


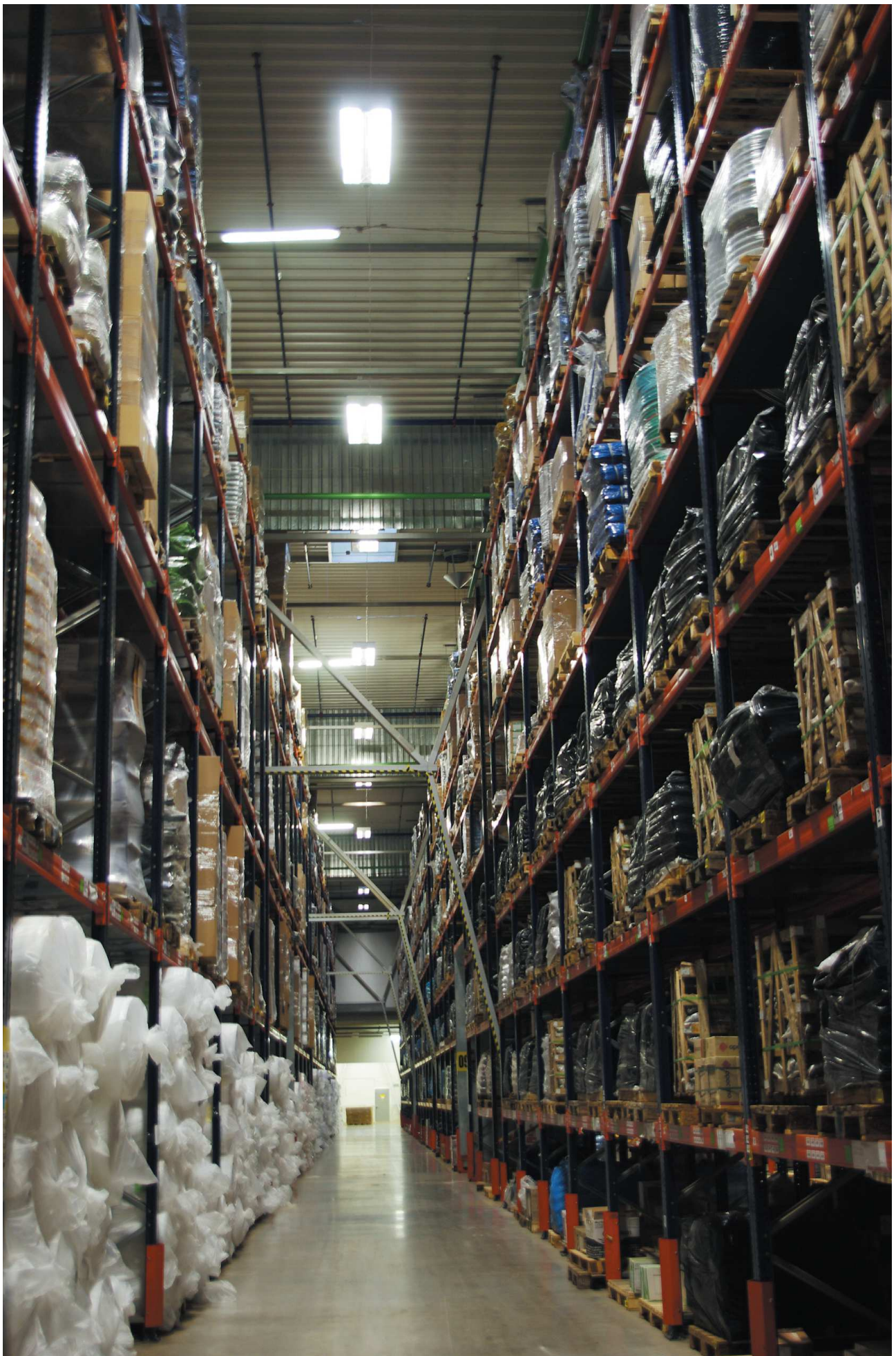












NOTES

A series of horizontal dotted lines for writing notes.

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All Northcliffe luminaires are supplied without lamps or tubes.