

When safety depends
on the decisions we make



EATON

Powering Business Worldwide

Emergency Lighting Design Handbook revision 4



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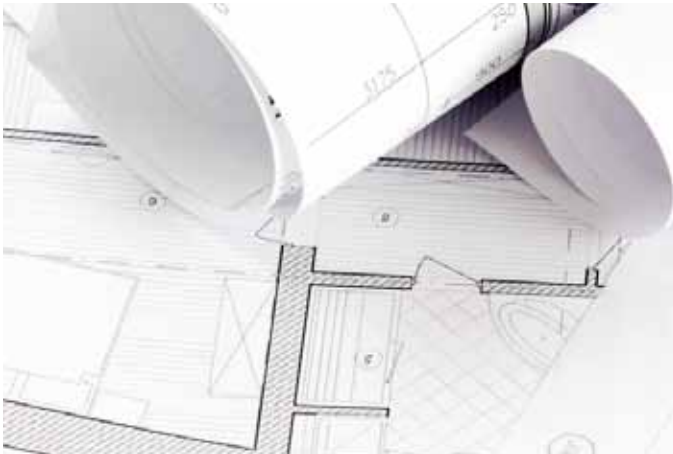
We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of \$22 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

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Indoor Emergency Lighting

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Indoor emergency lighting

| | | Indoor | Recessed | Outdoor | Ni-Cd | Ni-Mh | Li-Ion | Maintained | Non-Maintained | Autotest | Hospitals | Hotels | Cinemas/Theaters | Schools | Offices | Industrial | Warehouse |
|----------------------|---|--------------|----------|---------|-------|-------|-----------|------------|----------------|--------------|-----------|--------|------------------|---------|---------|------------|-----------|
| | | Installation | | Battery | | | Operation | | | Applications | | | | | | | |
| GuideLED |  | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| NexiTech LED |  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● |
| Planete 400 Disc |  | ● | ● | | | ● | | ● | | ● | | ● | ● | | ● | | |
| Micropoint 2 Surface |  | ● | ● | | | ● | | ● | ● | ● | ● | ● | ● | | ● | | |
| Micropoint 2 |  | ● | ● | | | ● | | ● | ● | ● | ● | ● | ● | | ● | | |
| Halo-pack 2 |  | ● | ● | | ● | | | | ● | | ● | ● | ● | | ● | | |
| Ledus |  | ● | ● | | ● | | | ● | ● | | ● | ● | ● | ● | ● | | |
| Sirios LED |  | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Sirios |  | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Star22 |  | ● | ● | | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cronus8W |  | ● | ● | | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cronus6W |  | ● | ● | | ● | | | | ● | | ● | | ● | ● | ● | | |

The information given in this brochure is accurate at the time of compilation (errors and omissions excepted), however due to Eaton philosophy of constant product development we reserve the right to change specifications without prior notice.

1.1

Indoor emergency lighting

GuideLED

1



- Innovative emergency lighting with the use of LED technology
- Conforms with regulation EN60598-2-22
- Lithium Ion batteries
- Selectable autonomy of 1h, 3h and 8h
- Available for ceiling mounting and recessed applications

Light Source:

High power LEDs 2x1,6 Watt with a life expectancy of 50.000 hours

Construction:

White polycarbonate
Aluminium reflector (heat sink)
Module housing with steel sheet

Operation:

Maintained & Non-Maintained
Selectable emergency duration of 1h, 3h, 8h

Installation options:

Flush mounting in false ceiling
Model 138x1 composed by an optical part and by a separate container for batteries and electronics
Wall ceiling model 138x2

Versions:

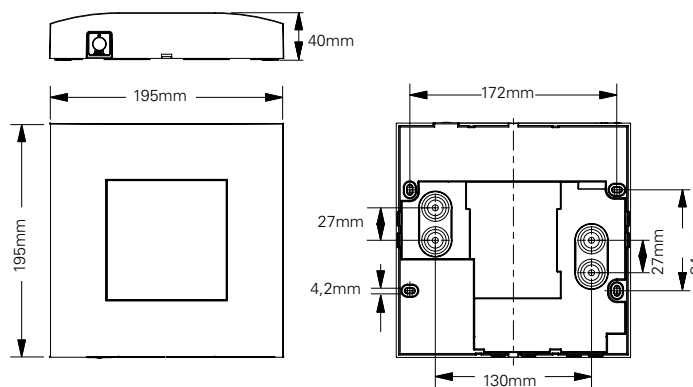
Autotest and CBS models available
With test button for manual testing

Applications:

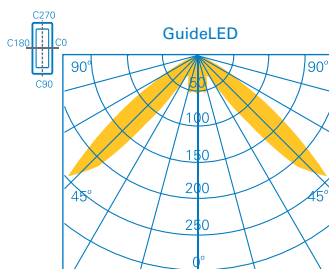
Hotels, offices, cinemas, theaters, museums

GuideLED self-contained lighting fixtures have a unique and innovative design using LED technology. Available for wall or ceiling installation with a flush mount option, these LED emergency lights have a 50.000 hour lifetime and the internal circuit technology diagnostics performs a self-test and checks the operating emergency autonomy.

Together with long life Lithium batteries, the sophisticated electronics allow a considerable energy saving and autonomy in emergency for up to 8 hours. The self-contained series are available with optical GuideLED symmetric uniform illumination for open anti-panic spaces, and asymmetric lighting for escape routes.

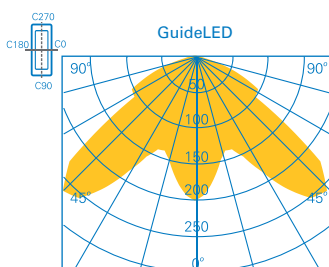


Light distribution for escape route illumination



| Model | Height (m) | Distance for 1 Lux | | | |
|-----------|------------|--------------------|-------|-------|-------|
| | | | | | |
| 13821 | 03,00 | 04,50 | 09,40 | 03,40 | 09,40 |
| 13822 | 04,00 | 03,50 | 11,00 | 03,40 | 11,00 |
| Symmetric | 05,00 | 01,40 | 12,20 | 01,40 | 12,20 |

Light distribution for open area illumination



| Model | Height (m) | Distance for 1 Lux | |
|------------|------------|--------------------|-------|
| | | | |
| 13811 | 03,00 | 06,60 | 15,00 |
| 13812 | 04,00 | 08,10 | 18,00 |
| Asymmetric | 05,00 | 09,40 | 20,90 |

Lithium ion battery technology

Lithium ion batteries require much less space than NiCd or NiMh cells of equal capacity, allowing more space in a compact design for cable routing. The Lithium ion batteries also don't suffer from the so-called memory effect associated with NiCd and NiMh cells.

Permanent safety

Capacity losses from ageing have been considered by corresponding dimensioning of the cells.

A multiple protective circuit, intergrated in the batteries ensures safe operation and high reliability. NiCd and NiMh batteries have a significantly higher self-discharge and are therefore permanently charged. This is no longer necessary with the new GuideLED luminaries, saving additional energy costs.

Equipped for all situations

With all GuideLED luminaries, selection can be made between Maintained and Non-Maintained mode of operation as well as 1h, 3h and 8h emergency light duration as standard. As such, all accommodation establishments and homes can be equipped with self contained luminaires.

If the the escape sign luminaires are operated in surroundings with low background brightness, these can be adapted to such conditions by dimming to 30% or 10% brightness via the testing button.

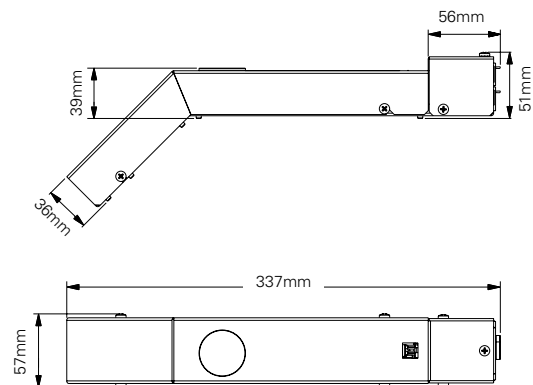
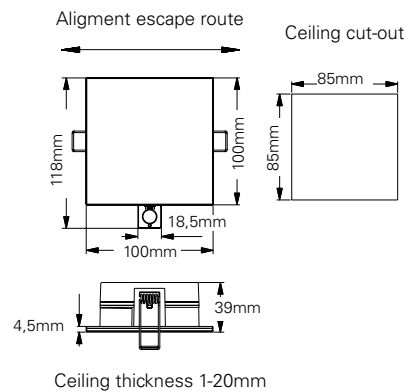
Powered by Lilon

- Low spacial requirement
- No memory effect
- Environmentally friendly

Rated duration of emergency operation and its application

- 1h** e.g. escape routes in places of work
- 3h** e.g. escape of assembly,
- 8h** sales areas, restaurants, schools, exhibition halls

GuideLED recessed



Required height in cavity ceiling for recessing through ceiling cut-out: 150 mm

| Order code | Description | | | | | |
|-------------|--|------------|--------|------------|----------------|-----------------------------|
| 40071353093 | GuideLED SL 13811, recessed asymmetric | LED 2x1,6W | 210 Lm | 1h, 3h, 8h | Lilon 3.7V 4Ah | Maintained / Non-Maintained |
| 40071353092 | GuideLED SL 13821, recessed symmetric | LED 2x1,6W | 204 Lm | 1h, 3h, 8h | Lilon 3.7V 4Ah | Maintained / Non-Maintained |
| 40071353091 | GuideLED SL 13812, wall mount asymmetric | LED 2x1,6W | 210 Lm | 1h, 3h, 8h | Lilon 3.7V 4Ah | Maintained / Non-Maintained |
| 40071353090 | GuideLED SL 13822, wall mount asymmetric | LED 2x1,6W | 204 Lm | 1h, 3h, 8h | Lilon 3.7V 4Ah | Maintained / Non-Maintained |

1.2

Indoor emergency lighting

NexiTech LED

1



- Emergency lighting luminaire
- Conform to EN60598-2-22
- ENEC Certification
- Autotest and Mains 230V version
- From 100 to 500lm output flux
- Comparable to 8, 11 and 24W fluorescent lamp
- Ni-Cd HT high quality batteries

Light Source:

High efficiency LEDs up to 50.000h life cycle

16, 29 and 48 LEDs depending on model

Construction:

Base and reflector white polycarbonate

Diffuser clear polycarbonate

Protection degree IP40 and IP65 with the accessory kit

Operation:

Maintained and Non-Maintained mode on all version

Fixed 60lm output in Maintained mode for all variants for high energy saving

1h, 1,5h and 3h duration

Rest Mode and Tests via remote command

12h recharge period (24h for 3h versions)

Installation options:

Wall and ceiling mounting

Surface or recessed installation in false ceiling and bricks wall

Single side glue-less ISO7010 pictograms with

20m viewing distance

Double side ISO7010 panels with 30m of viewing distance

Versions:

AT Autotest, according to EN50171 and EN62034, slave and CBS models available

Applications:

Schools, universities, commercial malls, stores, offices, public administration and all indoor generic environments

Safety antipanic lighting and escape route lighting

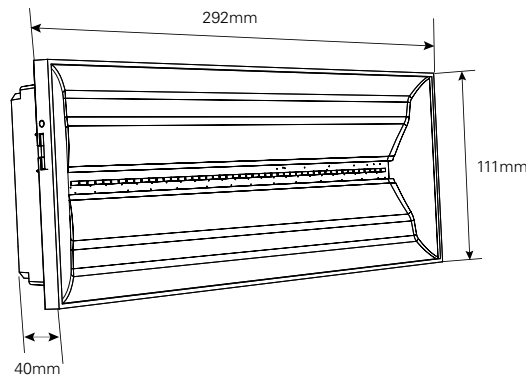
Exit sign with single and double side signalization

Hi-bay environments

Reliability and continuity of service was the main consideration in the development of the new NexiTech LED Emergency lighting range.

The modern style, the simplicity of the shapes and the high quality surfaces make NexiTech LED ideal for any architectural context, while the precision of the mechanics and the sophisticated electronics guarantee a full unmatched reliability.

The latest generation of LED light source and the careful study of the refractive parts allow a uniform light distribution without light waste.



Autotest is now for all

The reliability and the guarantee of operation are now within everyone's reach. We chose to design NexiTech LED starting directly from models with built-in diagnostic functions, all the self-contained versions (with battery on board) are equipped with a self-test system that performs automatic tests in accordance with standard EN62034 and EN50172.

Top level signalization

The pictograms, optional and available upon request, conform to the international standard ISO7010, have no glue and can be repositioned at will and with ease, without a complex installation. They are placed between the diffuser and reflector creating a translucency which finds its maximum aesthetic applications when recessed into the wall.



NexiTech LED with IP65 protection kit

The IP65 kit is compatible with all the variants. Only surface mounting. Dimension 308x125x53 mm



NexiTech LED in the combined version "Door" allows for 2 functions in one device: safety light, with distance view of 20m and emergency lighting with 5lx on the floor.



With double-side pictograms



Viewing distance: 30m

With single-side pictograms



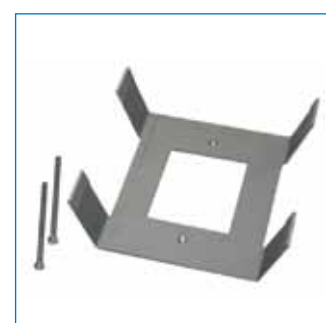
Viewing distance: 20m

Recessed base for bricks wall








Order code: NEXI-RB
Cut-out: 277x100 mm

False ceiling adapter



Order code: NEXI-FC
Cut-out: 272x95 mm

| Order code | Description |  |  |  |  |  |
|--------------------------|--------------------------------|---|---|--|---|---|
| Autotest versions | | | | | | |
| NEXI100-AT | NexiTech LED 8W 1,5h AT | 12 LED | 100 Lm | 90' | 3,6V - 0,8Ah NiCd | Non-Maintained |
| NEXI150-AT | NexiTech LED 11W 1h AT | 16 LED | 150 Lm | 60' | 3,6V - 0,8Ah NiCd | Maintained / Non-Maintained |
| NEXI250-AT | NexiTech LED 24W 1,5h AT | 48 LED | 250 Lm | 90' | 7,2V - 1,7Ah NiCd | Maintained / Non-Maintained |
| NEXI400-AT | NexiTech LED 24W Ultra 1,5h AT | 48 LED | 400 Lm | 90' | 7,2V - 1,7Ah NiCd | Maintained / Non-Maintained |
| NEXI100-3H-AT | NexiTech LED 8W 3h AT | 12 LED | 100 Lm | 180' | 3,6V - 2,0Ah NiCd | Non-Maintained |
| NEXI150-3H-AT | NexiTech LED 11W 3h AT | 16 LED | 150 Lm | 180' | 3,6V - 2,0Ah NiCd | Maintained / Non-Maintained |
| NEXI250-3H-AT | NexiTech LED 24W 3h AT | 48 LED | 250 Lm | 180' | 7,2V - 1,7Ah NiCd | Maintained / Non-Maintained |
| NEXI-D-AT | NexiTech LED Door 1,5h AT | 48+2 LED | 250 Lm | 90' | 7,2V - 1,7Ah NiCd | Maintained / Non-Maintained |
| NEXI250-230 | NexiTech LED 250lm Mains | 48 LED | 250 Lm | | | Mains |
| NEXI500-230 | NexiTech LED 500lm Mains | 48 LED | 500 Lm | | | Mains |
| NEXI-D-230 | NEXI-D-230 Red | 29+2 | 250+30 Lm | | | Mains |

Accessories

| | |
|----------|---|
| NEXI-IP | IP65 protection kit |
| NEXI-RB | Bricks wall recessed base (cut-out 277x100mm) |
| NEXI-FC | False ceiling adapter (cut-out 272x95mm) |
| LUM10312 | Rest-Mode and Test telecommand |

Single-side glue-less pictograms

| | |
|--------------|---|
| NEXI-PICTO-D | Pictogram Down ISO7010 single-side 20m |
| NEXI-PICTO-L | Pictogram Left ISO7010 single-side 20m |
| NEXI-PICTO-R | Pictogram Right ISO7010 single-side 20m |
| NEXI-PICTO-U | Pictogram Up ISO7010 single-side 20m |

Double-side panels

Lite version - standard uniformity

| | |
|---------------|---|
| NEXI-PLEXL-DD | Lite Double side panel Down/Down ISO7010 30m |
| NEXI-PLEXL-LR | Lite Double side panel Left/Right ISO7010 30m |
| NEXI-PLEXL-DB | Lite Double side panel Down/Blind ISO7010 30m |

Ultra version - high uniformity

| | |
|--------------|--|
| NEXI-PLEX-DD | Double side panel Down/Down ISO7010 30m |
| NEXI-PLEX-LR | Double side panel Left/Right ISO7010 30m |
| NEXI-PLEX-DB | Double side panel Down/Blind ISO7010 30m |

1.3

Indoor emergency lighting

Planete 400 Disc



- Seamlessly integrates with the pure architectural lines of the building.
- Fits into the all-round light-theme concept.
- Shares the same standard diameter as most popular downlights.
- The standby-mode LED lighting (when mains-connected) is soft with a minimal glare.
- Recessed-mounting integration (close-fit mounting < 2mm thick - colors on request).

Light Source:

100 white LED of 1,5W

Materials:

High-performance micro-lens light diffuser

Installation:

Screwless terminal strips: automatic connectors.

Built-in housing for quick and easy mounting of the safety baffle hanger (metal cable thread)

Recessed-mounting trim options for structural or dropped ceilings:

- diameter 200 mm down light hole saw
- Shallow 65 mm recess

Operation:

Maintained operation with 360 lumen output in emergency operation

Disk delivers uniform down lighting: Homogeneous illumination for optimal visual comfort ($L_{max}/L_{min} < 1,5$)

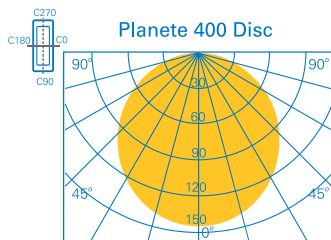
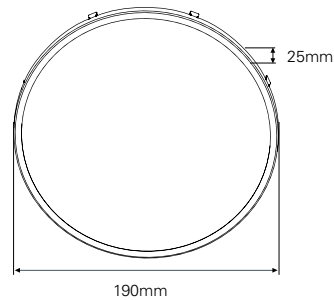
Applications:

Recessed applications on offices, hotels

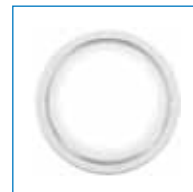
Planete 400 Disc for all projects with 360 lumens in a disc of diameter 190 and slim 25mm. Discrete, it respects the original design of the architecture of the building and fits perfectly into the overall lighting concept.

Its diameter is equal to that of the most common down lights normal lighting. The illumination LEDs in standby (in the presence sector) is discrete and non-aggressive.

The optional mounting frame allows a perfect integration ceiling.

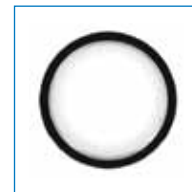


LUM10541



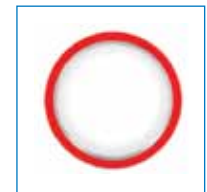
Recessed-mounting trim

LUM10541COL



Recessed-mounting trim in black

LUM10541COL



Recessed-mounting trim in red

| Model | Height (m) | Escape route ceiling mounting 2m wide, 1 Lux | | | | Open area ceiling mounting 2m wide, 1 Lux | | | |
|----------|------------|---|-----------|-----------|-----------|--|-----------|-----------|-----------|
| | | Diagram 1 | Diagram 2 | Diagram 3 | Diagram 4 | Diagram 5 | Diagram 6 | Diagram 7 | Diagram 8 |
| LUM17044 | 02,50 | 04,40 | 10,80 | 04,40 | 10,80 | 03,50 | 08,30 | 03,50 | 08,30 |
| | 02,80 | 04,60 | 11,30 | 04,60 | 11,30 | 03,60 | 08,80 | 03,60 | 08,80 |
| | 03,00 | 04,70 | 11,60 | 04,70 | 11,60 | 03,70 | 09,00 | 03,70 | 09,00 |
| | 03,50 | 04,90 | 12,40 | 04,90 | 12,40 | 03,80 | 09,70 | 03,80 | 09,70 |
| | 04,00 | 05,00 | 13,00 | 05,00 | 13,00 | 03,90 | 10,10 | 03,90 | 10,10 |
| | 05,00 | 04,60 | 12,40 | 04,60 | 12,40 | 04,10 | 11,00 | 04,10 | 11,00 |
| | 06,00 | 04,60 | 12,90 | 04,60 | 12,90 | 04,10 | 11,70 | 04,10 | 11,70 |
| | 07,00 | 04,30 | 13,10 | 04,30 | 13,10 | 04,00 | 12,10 | 04,00 | 12,10 |

| Order code | Description | Light Source | Output | Beam Angle | Power | Operation |
|------------|------------------------|--------------|--------|------------|---------------------|------------|
| LUM17044 | Planete 400 Disc | 100 LED 1,5W | 360 Lm | 60° | 10 x 1,2 V / 0,6 Ah | Maintained |
| LUM22133 | Planete 400 Disc mains | 100 LED 1,5W | 360 Lm | | | Mains |

Accessories

| | |
|-------------|----------------------------------|
| LUM10541 | Recessed-mounting trim |
| LUM10541COL | Recessed-mounting trim in colour |



- Versatile multi functional use (escape and open area anti-panic)
- IP44 ingress protection suitable for bathrooms and wet environment
- First fix base for ease of installation
- 60,000 hour life LED for reduced maintenance
- Environmentally friendly NiMh battery

Light Source:

1 x High power 1W white LED
 Consumption (Maintained)
 6.9VA/5W
 Consumption (Non-Maintained) 3.6VA/2.5W

Materials:

Luminaire Enclosure
 Polycarbonate
 Battery NiMh (self-contained version)

Installation:

Flush & Surface mount
 20mm Conduit entry on all four sides
 BESA box entry on base

Operation:

Self-contained Maintained luminaire can be operated in Non-Maintained mode
 Can be used as security light with 4 pre-set light levels
 Self contained, slave and CBS models available

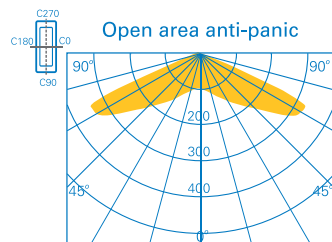
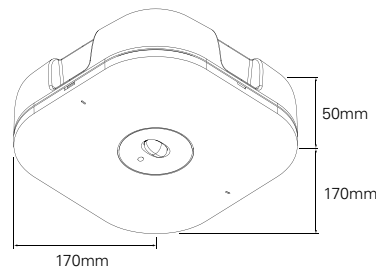
Applications:

Hotels, offices, cinemas, theaters, museums and hospitals

Micropoint 2 is a high specification competitively priced surface mounted emergency LED luminaire utilising the latest LED and optic technology to provide an unobtrusive, high quality, high performance luminaire for indoor use where aesthetics are prime importance.

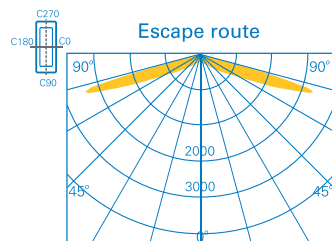
The Micropoint 2 has been designed for ease of installation, reduced power consumption, minimal maintenance, reducing the TCO (total cost of ownership) without compromising aesthetics. The innovative optic design used in the Micropoint 2 utilises light efficiently from the LED to provide a uniform distribution in either an escape route or open area anti-panic emergency lighting, improving the performance and reducing the electrical power consumption.

Micropoint 2 utilises a touch sensitive keypad to improve ingress protection against water and dust.



Open area (Symmetric)

| Mode | Mount height (m) | Lux level directly under | Open area 1 Lux min | | | |
|----------------|------------------|--------------------------|---------------------|-------|-------|-------|
| Self contained | 02,50 | 01,70 | 04,30 | 09,40 | 09,40 | 04,30 |
| | 02,80 | 01,40 | 03,30 | 09,30 | 09,30 | 03,30 |
| | 03,00 | 01,20 | 03,20 | 09,20 | 09,20 | 03,20 |



Escape optic (Asymmetric)

| Mode | Mount height (m) | Lux level directly under | Escape route 2m wide, 1 Lux min | | | |
|----------------|------------------|--------------------------|---------------------------------|---|-------|-------|
| Self contained | 02,50 | 02,70 | - | - | 16,60 | 07,50 |
| | 02,80 | 02,20 | - | - | 18,10 | 08,10 |
| | 03,00 | 01,90 | - | - | 19,10 | 08,30 |

| Order code | Description | | | | | |
|------------|-------------------------------------|--------|-------|------|-----------------|------------|
| MP2SO3H | Micropoint2 Surface Open Area | 1 x 1W | 30 Lm | 180' | 4,8V - 2Ah NiCd | Maintained |
| MP2SE3H | Micropoint2 Surface Escape Route | 1 x 1W | 30 Lm | 180' | 4,8V - 2Ah NiCd | Maintained |
| MP2SOS230 | Micropoint2 Surface Mains Open Area | 1 x 1W | 30 Lm | | | Mains |

1.5

Indoor emergency lighting

Micropoint 2

1



- Versatile multi functional use (escape and open area anti-panic)
- Low power consumption reducing cost of ownership
- Excellent spacing reducing the quantity of fittings required
- 60.000 hour life LED for reduced maintenance
- Self-contained
- Environmentally friendly NiMh Battery

Light Source:

1 x High power 1W white LED
Consumption (Maintained)
6.9VA/5W

Consumption (Non-Maintained) 3.6VA/2.5W

Materials:

Luminaire body:
Aluminium, luminaire Head:
Polycarbonate, remote gear
pod: flame retardant ABS

Battery, NiMh (self-contained version)

Installation:

Flush mounting

Spring retaining clips for surface installation (install from below ceiling)

Plug and play socket for mains supply

No disassembly required during installation

Operation:

Maintained luminaire can be operated in Non-Maintained mode

Can be used as security light with 3 preset light levels

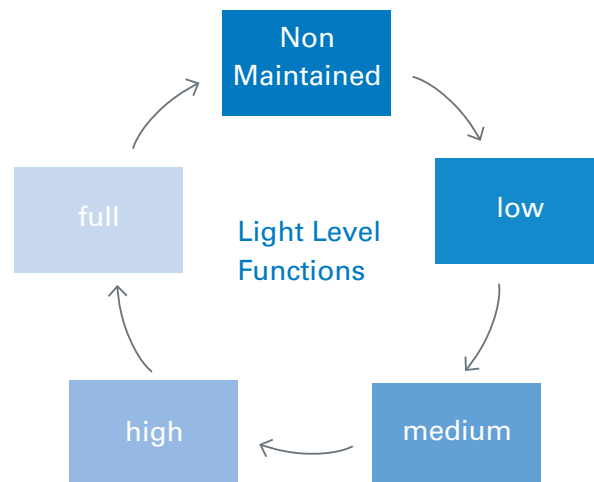
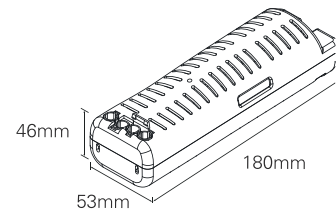
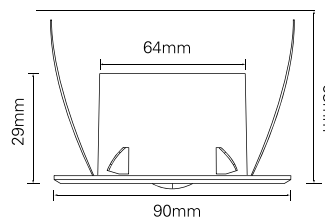
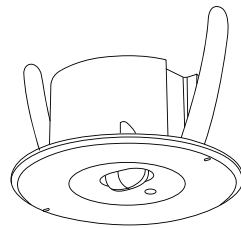
Self contained, slave and CBS models available

Applications:

All recessed indoor applications

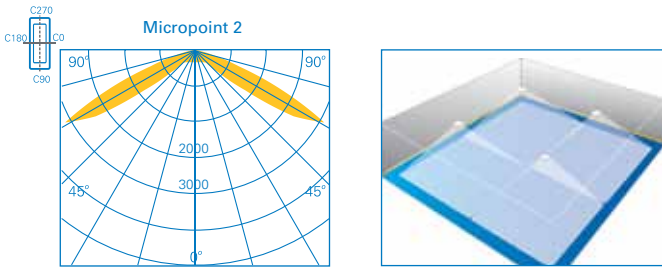
Micropoint 2 is a high specification competitively priced emergency LED luminaire. Micropoint 2 utilises the latest LED and optic technology to provide an unobtrusive, high quality, high performance luminaire for indoor use where aesthetics are of prime importance.

The Micropoint 2 has been designed for ease of installation, reduced power consumption, minimal maintenance, reducing the TCO (total cost of ownership) without compromising on aesthetics. The innovative optic design used in the Micropoint 2, developed and produced by Eaton's Safety business utilises light efficiently from the LED to provide a uniform distribution in either an escape route or open area anti-panic emergency lighting, improving the performance and reducing the electrical power consumption.



Preset light levels can be adjusted in Maintained mode to operate as security light, adjustable using touch sensitive button on luminaire fascia.

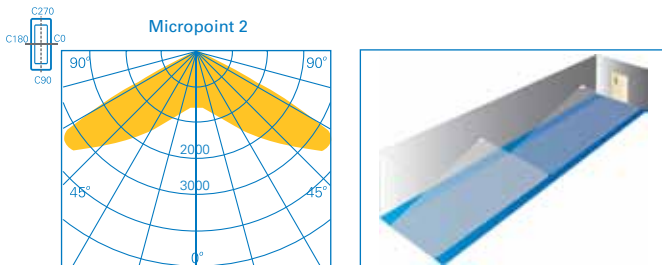
The high power, high efficiency LED light source provides uniform illumination with asymmetric and symmetric light patterns for escape or open area use.



Open Area (Symmetric 0.5 Lux)

| Model | Height (m) | Distance for 1 Lux | | | |
|---|------------|--------------------|-------|-------|-------|
| MP2O3H (Open Area Anti-Panic) | | | | | |
| | 02,50 | 04,30 | 09,40 | 01,70 | 09,40 |
| | 02,80 | 03,30 | 09,30 | 01,40 | 09,30 |
| | 03,00 | 03,20 | 09,20 | 01,20 | 09,20 |

Micropoint 2 advanced optics with rectangular distribution
Luminaire with 'no' optics require overlap to eliminate dark spots



Escape Route (Asymmetric 1 Lux)

| Model | Height (m) | Distance for 1 Lux (escape route 2m wide) | | | |
|---------------------------------|------------|--|---|-------|-------|
| MP2E3H (Escape Route) | | | | | |
| | 02,50 | - | - | 07,80 | 17,10 |
| | 02,80 | - | - | 08,40 | 18,60 |
| | 03,00 | - | - | 08,60 | 19,60 |



| Order code | Description | | | | | |
|------------|--------------------------------|--------|-------|------|-----------------|-----------------------------|
| MP2O3H | Micropoint2 Open Area | 1 x 1W | 30 Lm | 180' | 4,8V - 2Ah NiCd | Maintained / Non-Maintained |
| MP2E3H | Micropoint2 Escape Route | 1 x 1W | 30 Lm | 180' | 4,8V - 2Ah NiCd | Maintained / Non-Maintained |
| MP2ES230 | Micropoint2 Mains Escape Route | 1 x 1W | 30 Lm | | | Mains |
| MP2OS230 | Micropoint2 Mains Open Area | 1 x 1W | 30 Lm | | | Mains |

1.6

Indoor emergency lighting

Halo-Pack 2

1



- Suitable for both solid and exposed grid ceilings as the gear pod fits through the head unit installation aperture
- Adapter plate for retrofit and shallow ceiling applications
- 3 year warranty for peace of mind
- Up to 50.000 hour life LED for reduced maintenance
- Low power consumption reducing cost of ownership
- Environmentally friendly NiMH battery

Light Source:

1 x high power 3W white LED

Materials:

Luminaire head, remote gear and adaptor plate - polycarbonate and ABS blend

Battery - NiMH

Installation:

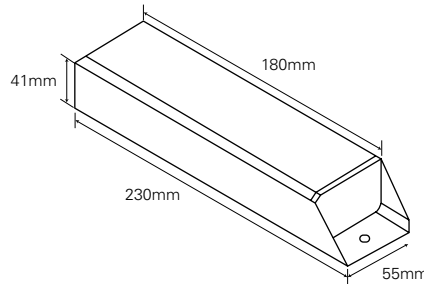
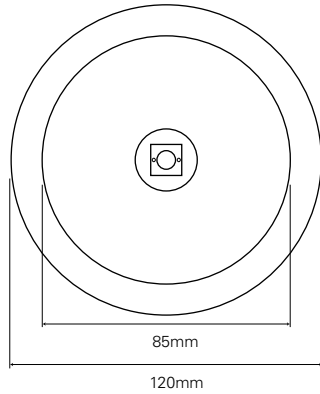
Flush mounting

Spring retaining clips for surface installation (install from below ceiling)

Plug and play socket for mains supply

No disassembly required during installation

Halo-Pack 2 combines the latest in LED technology with an ultra-low profile, providing emergency lighting where aesthetics and reliability are of prime importance. Installation into an existing ceiling is fast and simple to complete.



Operation:

Non-Maintained operation

Applications:

All recessed indoor applications



For retrofit and/or shallow ceiling applications an optional adapter plate is provided as standard

| Model | Height (m) | Lux level directly under | Escape route 2m wide, 1 Lux min | | | | Open (anti-panic) area 0,5 Lux min | | | |
|----------------|------------|--------------------------|---------------------------------|-------|-------|-------|------------------------------------|-------|-------|-------|
| HPLED3H | | | | | | | | | | |
| | 02,50 | 05,32 | 03,20 | 08,70 | 03,20 | 08,70 | 03,60 | 09,70 | 03,60 | 09,70 |
| | 02,80 | 05,00 | 03,30 | 09,00 | 03,30 | 09,00 | 03,70 | 10,00 | 03,70 | 10,00 |
| | 03,00 | 04,36 | 03,30 | 09,10 | 03,30 | 09,10 | 03,80 | 10,20 | 03,80 | 10,20 |
| | 04,00 | 02,40 | 03,10 | 09,30 | 03,10 | 09,30 | 03,90 | 11,30 | 03,90 | 11,30 |
| | 05,00 | 01,08 | 01,09 | 08,50 | 01,00 | 08,50 | 03,60 | 12,50 | 03,60 | 12,50 |

Order code

Description



HPLED3H

Halo Pack 2

1 x 3W LED

30 Lm

180°

4,8V - 2Ah NiCd

Non-Maintained



- Easy to install
- IP rating IP42
- High temperature batteries Ni-Cd
- Opal diffuser version
- Low power consumption

Light Source:

16 LEDs of 2 Watt total consumption (Ledus16)

8 LEDs of 1 Watt total consumption (Ledus8)

Construction:

Base, mounting plate and cover, fire retardant

ABS, lens optical grade acrylic

Operation:

Maintained & Non-Maintained (selectable operation)

2 hours emergency duration

Night light mode operation

Applications:

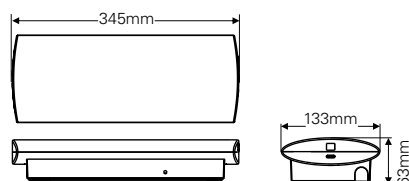
Residential applications, offices, hotels, restaurants, schools

Ledus family is a compact low profile range of luminaires with a stylish design which offers an attractive emergency lighting solution for a wide variety of areas.

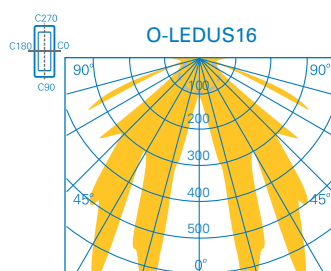
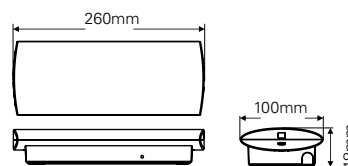
Two variants of LED strips of 16 and 8 LED of 2W & 1W relevant consumption are available along with 2 different housings per occasion. Suitable for small discrete applications up to normal antipanic emergency light installations.

A full range of accessories, including a recessed base for wall or flush mounting and a plexiglass sign for installing the luminaire as an exit sign are available, as well as the opal diffuser version.

Ledus16



Ledus8



| Model | Height (m) | Distance for 1 Lux | | | |
|-----------|------------|--------------------|-------|-------|-------|
| O-LEDUS16 | | | | | |
| | 02,60 | 02,79 | 05,78 | 01,30 | 04,36 |
| | 02,80 | 02,90 | 06,22 | 01,13 | 04,38 |
| | 03,00 | 02,90 | 06,66 | 00,94 | 04,36 |
| | 03,20 | 02,78 | 07,01 | 00,66 | 04,22 |
| | 03,50 | 00,00 | 07,51 | 00,00 | 03,88 |
| | 04,00 | 00,00 | 08,28 | 00,00 | 03,12 |

| Order code | Description | | | | | |
|-------------|---------------------------|-----------|-------|------|-------------------|-----------------------------|
| O-LEDUS16 | Ledus16 | 16 LED 2W | 95 Lm | 120' | 3,6V - 1,7Ah NiCd | Maintained / Non-Maintained |
| O-LEDUS8 | Ledus8 | 8 LED 1W | 55 Lm | 120' | 2,4V - 1,7Ah NiCd | Maintained / Non-Maintained |
| O-LEDUS8-3H | Ledus8 | 8 LED 1W | 55 Lm | 180' | 3,6V - 1,7Ah NiCd | Maintained / Non-Maintained |
| O-LEDUS8-ES | Ledus8 with Opal diffuser | 8 LED 1W | - | 120' | 2,4V - 1,7Ah NiCd | Maintained / Non-Maintained |

Accessories

| | |
|-----------|---|
| O-EL6PSLR | Double side exit sign (Left/Right) |
| O-EL6PSD | Double side exit sign (Down) |
| O-EL6RB | Recessed base (both for wall or flush mounting) |
| O-EL8PSLR | Double side exit sign (Left/Right) |
| O-EL8PSD | Double side exit sign (Down) |
| O-EL8RB | Recessed base (both for wall or flush mounting) |

1.8

Indoor emergency lighting

Sirios LED



- Anti-panic and exit sign in one
- Easy mounting
- Complete range of accessories
- Certified family of emergency lights in accordance to EN 60 598-2-22
- ENEC certificate
- IP rating IP42 with the ability to upgrade it to IP65

Light Source:

24 white LED 1.5W

Materials:

White polycarbonate base and reflector

Clear polycarbonate diffuser

Operation:

Maintained & Non-Maintained (user selectable)

Autonomy from 1h up to 3h

Functional test integrated into the diffuser

Inhibition and Rest Mode

Autotest & slave models available

Installation:

Wall and Ceiling Installation kit for recessed wall and ceiling

Base for quick mounting (accessory)

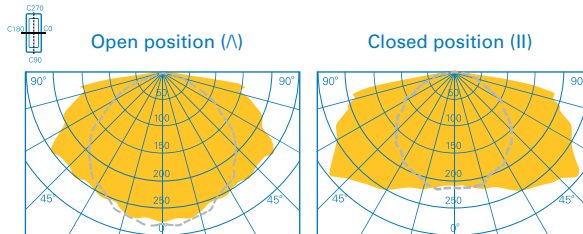
Protection Kit IP65 for outdoor use

Applications:

Schools, universities, public administration, commercial environments

Sirios LED is a low profile range of emergency lights, designed and equipped with technical solutions and accessories for a wide range of applications such as offices, restaurants, hotels, hospitals and general commercial applications.

The range of accessories includes a recessed base for installation to walls and false ceilings, a weatherproof kit an exit sign label as well as a variety of light distribution options.



Summary

| Application | Exit Sign | Antipanic | Escape Route |
|-------------|-----------|-----------|--------------|
| Open (Λ) | Best* | Best** | Good |
| Closed () | Good | Good | Best*** |

* Better uniformity on sign

** Bigger covering area

*** Longer distance in smaller heights, lower diversity (min to max illuminance ratio) along the route path.

| | Height (m) | | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | | |
|--|---------------|-------|--------------------|-------|-------|-------|----------------------|-------|-------|--|--|
| O-SLED open position (Λ) | open | | | | | | | | | | |
| | 02.50 | 03.44 | 08.66 | 02.88 | 07.14 | 04.83 | 11.24 | 04.07 | 08.66 | | |
| | 02.80 | 03.46 | 09.32 | 02.90 | 07.44 | 05.16 | 12.00 | 04.22 | 09.32 | | |
| | 03.00 | 03.33 | 09.24 | 02.90 | 07.68 | 05.12 | 11.78 | 04.34 | 09.60 | | |
| | 03.50 | 03.26 | 09.64 | 02.83 | 08.06 | 05.32 | 12.62 | 04.53 | 10.00 | | |
| | 04.00 | 03.01 | 09.54 | 02.80 | 08.00 | 05.27 | 12.80 | 04.50 | 10.62 | | |
| | 04.50 | 02.70 | 09.32 | 02.90 | 08.10 | 05.16 | 13.34 | 04.55 | 11.12 | | |
| O-SLED closed position () | closed | | | | | | | | | | |
| | 02.50 | 03.44 | 09.04 | 02.50 | 06.40 | 05.02 | 11.76 | 03.70 | 08.20 | | |
| | 02.80 | 03.58 | 09.32 | 02.44 | 06.68 | 05.16 | 12.00 | 03.84 | 08.64 | | |
| | 03.00 | 03.57 | 09.24 | 02.43 | 06.68 | 05.12 | 12.40 | 03.84 | 08.80 | | |
| | 03.50 | 03.38 | 09.64 | 02.27 | 07.00 | 05.32 | 12.60 | 04.00 | 08.96 | | |
| | 04.00 | 02.90 | 09.88 | 02.04 | 06.96 | 05.44 | 13.30 | 03.98 | 09.20 | | |
| | 04.50 | 02.39 | 10.00 | 01.55 | 06.78 | 05.50 | 13.34 | 03.89 | 09.64 | | |

In Sirios LED, both led positions are suitable to use for exit sign according to EN1838.



| Order code | Description | | | | | |
|--------------|------------------------------------|-------------|--------|------|-------------------|-----------------------------|
| O-SLED | Emerg. Light Sirios 24LEDs M 2H | 24 LED 1.5W | 120 Lm | 120' | NiCd 1,7Ah / 4,8V | Maintained / Non-Maintained |
| O-SLED-3H | Emerg. Light Sirios 24LEDs M 3H | 24 LED 1.5W | 120 Lm | 180' | NiCd 1,7Ah / 4,8V | Maintained / Non-Maintained |
| O-SLED-AT | Emerg. Light Sirios AT 24LEDs M 1H | 24 LED 1.5W | 120 Lm | 60' | NiMH 1,2Ah / 4,8V | Maintained / Non-Maintained |
| O-SLED-AT-3H | Emerg. Light Sirios AT 24LEDs M 3H | 24 LED 1.5W | 120 Lm | 180' | NiMH 2,2Ah / 4,8V | Maintained / Non-Maintained |
| O-SLED-MAINS | Emerg. Light Sirios 24LEDs MAINS | 24 LED 1.5W | 120 Lm | | | Mains |

Accessory

| | |
|---------------|---|
| O-SLED-STRIFE | LED stripe accessory for Sirios LED (service LED for replacement) |
|---------------|---|



- Easy mounting
- Complete range of accessories
- Certified family of emergency lights in accordance to EN 60 598-2-22
- ENEC certificate
- IP rating IP42 with the ability to upgrade it to IP65

Light Source:

Lamp. 8W fluorescent G5, 2G7 11W, 18W and 24W/2G11

Materials:

Base and reflector unit in white ABS
Clear polycarbonate diffuser

Operation:

Maintained, Non-Maintained and Sustain versions

Autonomy from 1h up to 3h

Functional test integrated into the diffuser

Inhibition and Rest Mode

Autotest, slave and CBS models available

Ultra Models with lumens flow up to 350lm

Low consumption in Maintained operation, with a power save of 33% of the nominal output of the lamp

Installation:

Wall and Ceiling Installation kit for recessed wall and ceiling

Base for quick mounting (accessory)

Panel, double-sided printed for reporting security (optional)

Distance view of 30 meters provides the ability to use fewer products and less power consumption per coverage area of an application

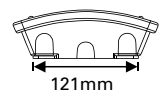
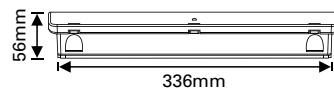
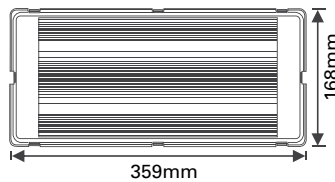
Protection Kit IP65 for outdoor use

Applications:

Schools, universities, public administration, commercial environments

Sirios range of emergency lights are low profile, designed and equipped with technical solutions and accessories for a wide range of applications such as offices, restaurants, hotels, hospitals and general commercial applications.

The range of accessories includes a recessed base for installation to walls and false ceilings, an IP65 weatherproof kit an exit sign label as well as a variety of lamp options (8, 2x8, 11, 18, 24W).



Test Point



Just by pressing the plastic diffuser on all Sirios models you can test the lamp operation, the battery and electronic circuit switching

Recessed Base



Recessed base for false ceiling and wall recessed applications

IP65 kit



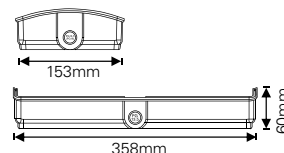
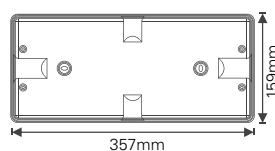
Retrofit IP65 weather proof kit provides an upgrade from IP42 to IP65 installations

Sirios Exit sign plexiglass

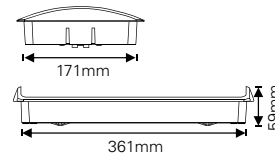
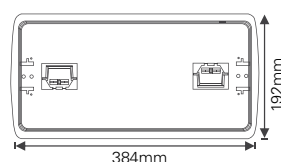


30m viewing distance reduces the quantity of fittings required and in turn reduces power consumption






Weatherproof base








Recessed base








Range: Multi

| Order code | Description |  |  |  |  |  |
|------------|--------------------------------|---|---|---|---|---|
| O-S8 | Sirios Non-Maintained 8W 1h30 | FL8WG5 | 85 Lm | 90' | 2,4V-1,7Ah NiCd | Non-Maintained |
| O-S8-3H | Sirios Non-Maintained 8W 3h | FL8WG5 | 85 Lm | 180' | 2,4V-1,7Ah NiCd | Non-Maintained |
| O-S11 | Sirios Non-Maintained 11W 1h30 | FL11W2G7 | 180 Lm | 90' | 4,8V-1,7Ah NiCd | Non-Maintained |
| O-S11-3H | Sirios Non-Maintained 11W 3h | FL11W2G7 | 180 Lm | 180' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S18 | Sirios Non-Maintained 18W 1h30 | FL18W2G11 | 268 Lm | 90' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S18-3H | Sirios Non-Maintained 18W 3h | FL18W2G11 | 268 Lm | 180' | 4,8V-4Ah NiCd | Non-Maintained |
| O-S24 | Sirios Non-Maintained 24W 1h30 | FL24W2G11 | 330 Lm | 90' | 4,8V-2,2Ah NiCd | Non-Maintained |
| O-S24-3H | Sirios Non-Maintained 24W 3h | FL24W2G11 | 330 Lm | 180' | 6V-4Ah NiCd | Non-Maintained |
| O-S8M | Sirios Maintained 8W 1h30 | FL8WG5 | 85 Lm | 90' | 2,4V-1,7Ah NiCd | Maintained |
| O-S8M-3H | Sirios Maintained 8W 3h | FL8WG5 | 85 Lm | 180' | 2,4V-4Ah NiCd | Maintained |
| O-S11M | Sirios Maintained 11W 1h30 | FL11W2G7 | 180 Lm | 90' | 4,8V-1,7Ah NiCd | Maintained |
| O-S11M-3H | Sirios Maintained 11W 3h | FL11W2G7 | 180 Lm | 180' | 3,6V-4Ah NiCd | Maintained |
| O-S18M | Sirios Maintained 18W 1h30 | FL18W2G11 | 268 Lm | 90' | 6V-1,7Ah NiCd | Maintained |
| O-S18M-3H | Sirios Maintained 18W 3h | FL18W2G11 | 268 Lm | 180' | 4,8V-4Ah NiCd | Maintained |
| O-S24M | Sirios Maintained 24W 1h30 | FL24W2G11 | 330 Lm | 90' | 4,8V-2,2Ah NiCd | Maintained |
| O-S24M-3H | Sirios Maintained 24W 3h | FL24W2G11 | 330 Lm | 180' | 6V-4Ah NiCd | Maintained |
| O-S8S | Sirios Sustain 8W 1h30 | 2 x FL8WG5 | 85 Lm | 90' | 2,4V-1,7Ah NiCd | Sustain |
| O-S8S-3H | Sirios Sustain 8W 3h | 2 x FL8WG5 | 85 Lm | 180' | 6V-1,7Ah NiCd | Sustain |
| O-S8MAINS | Sirios Mains 8W | FL8WG5 | | | | Mains |
| O-S11MAINS | Sirios Mains 11W | FL11W2G7 | | | | Mains |
| O-S18MAINS | Sirios Mains 18W | FL18W2G11 | | | | Mains |
| O-S24MAINS | Sirios Mains 24W | FL24W2G11 | | | | Mains |

Range: Ultra

| Order code | Description |  |  |  |  |  |
|-------------|------------------------------|---|---|---|---|---|
| O-S8U | Sirios Non-Maintained 8W 1h | FL8WG5 | 230 Lm | 60' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S8U-PLUS | Sirios Non-Maintained 8W 1h | FL8WG5 | 320 Lm | 60' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S8U-3H | Sirios Non-Maintained 8W 3h | FL8WG5 | 210 Lm | 180' | 6V-4Ah NiCd | Non-Maintained |
| O-S11U | Sirios Non-Maintained 11W 1h | FL11W2G7 | 350 Lm | 60' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S8MU | Sirios Maintained 8W 1h | FL8WG5 | 230 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S8MU-PLUS | Sirios Maintained 8W 1h | FL8WG5 | 320 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S8MU-3H | Sirios Maintained 8W 3h | FL8WG5 | 210 Lm | 180' | 3,6V-4Ah NiCd | Maintained |
| O-S11MU | Sirios Maintained 11W 1h | FL11W2G7 | 350 Lm | 60' | 6V-4Ah NiCd | Maintained |

Range: Autotest

| Order code | Description |  |  |  |  |  |
|--------------|---------------------------------------|---|---|---|---|---|
| O-S8-AT | Non-Maintained Sirios 8W Autotest 1h | FL8WG5 | 200 Lm | 60' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S8-AT-3H | Non-Maintained Sirios 8W Autotest 3h | FL8WG5 | 100 Lm | 180' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S11-AT | Non-Maintained Sirios 11W Autotest 1h | FL11W2G7 | 220 Lm | 60' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S11AT-3H | Non-Maintained Sirios 11W Autotest 3h | FL11W2G7 | 110 Lm | 180' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S18-AT | Non-Maintained Sirios 18W Autotest 1h | FL18W2G11 | 230 Lm | 60' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S18-AT-3H | Non-Maintained Sirios 18W Autotest 3h | FL18W2G11 | 120 Lm | 180' | 3,6V-4Ah NiCd | Non-Maintained |
| O-S24-AT | Non-Maintained Sirios 24W Autotest 1h | FL24W2G11 | 330 Lm | 60' | 6V-1,7Ah NiCd | Non-Maintained |
| O-S24-AT-3H | Non-Maintained Sirios 24W Autotest 3h | FL24W2G11 | 330 Lm | 180' | 6V-4Ah NiCd | Non-Maintained |
| O-S8M-AT | Maintained Sirios 8W Autotest 1h | FL8WG5 | 200 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S8M-AT-3H | Maintained Sirios 8W Autotest 3h | FL8WG5 | 100 Lm | 180' | 3,6V-4Ah NiCd | Maintained |
| O-S11M-AT | Maintained Sirios 11W Autotest 1h | FL11W2G7 | 220 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S11M-AT-3H | Maintained Sirios 11W Autotest 3h | FL11W2G7 | 110 Lm | 180' | 3,6V-4Ah NiCd | Maintained |
| O-S18M-AT | Maintained Sirios 18W Autotest 1h | FL18W2G11 | 230 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S18M-AT-3H | Maintained Sirios 18W Autotest 3h | FL18W2G11 | 120 Lm | 180' | 3,6V-4Ah NiCd | Maintained |
| O-S24M-AT | Maintained Sirios 24W Autotest 1h | FL24W2G11 | 330 Lm | 60' | 6V-1,7Ah NiCd | Maintained |
| O-S24M-AT-3H | Maintained Sirios 24W Autotest 3h | FL24W2G11 | 330 Lm | 180' | 6V-4Ah NiCd | Maintained |

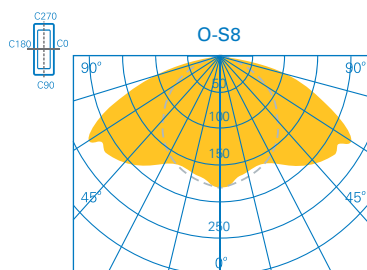
Accessories

| Order code | Description |
|-------------|--------------------------------------|
| O-S-WB | Wall mounting base |
| O-S-RB | Recessed base |
| O-S-IP | Weatherproof base |
| 171-000-032 | Vertical metal base (O-MP41) |
| 171-000-035 | Horizontal metal base (O-PU41) |
| O-S-LGD100 | Exit sign Left ISO format |
| O-S-LGD200 | Exit sign Right ISO format |
| O-S-LGD300 | Exit sign Down ISO format |
| O-S-LGD500 | Sirios Pictogram Hydrant Red |
| O-S-PS | Sirios acrylic legend (no print) |
| O-S-PSD | Sirios acrylic legend (down) |
| O-S-PSDP | Sirios single side plexiglass (down) |
| O-S-PSLR | Sirios acrylic legend (left / right) |

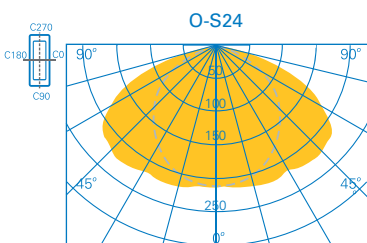
Sirios wall mount base for fast installation



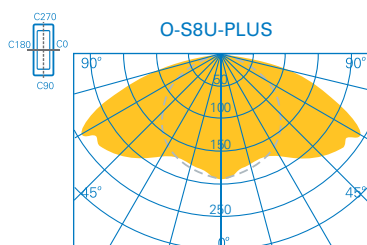
O-S-WB



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|-------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-S8 | | | | | | | | | |
| | 02,60 | 03,02 | 08,86 | 02,21 | 06,20 | 04,93 | 11,15 | 03,60 | 07,71 |
| | 02,80 | 02,94 | 08,76 | 02,19 | 06,26 | 04,88 | 11,48 | 03,63 | 08,00 |
| | 03,00 | 02,83 | 08,67 | 02,13 | 06,34 | 04,83 | 11,78 | 03,67 | 08,26 |
| | 03,20 | 02,67 | 08,68 | 02,06 | 06,40 | 04,84 | 12,04 | 03,70 | 08,43 |
| | 03,50 | 02,33 | 08,68 | 01,92 | 06,32 | 04,84 | 12,37 | 03,66 | 08,64 |
| 04,00 | 01,49 | 08,26 | 01,50 | 06,16 | 04,63 | 12,23 | 03,58 | 08,88 | |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|-------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-S24 | | | | | | | | | |
| | 02,60 | 04,65 | 11,68 | 03,59 | 08,83 | 06,34 | 13,41 | 04,91 | 10,66 |
| | 02,80 | 04,77 | 11,90 | 03,72 | 09,14 | 06,45 | 13,86 | 05,07 | 10,99 |
| | 03,00 | 04,88 | 12,25 | 03,80 | 09,42 | 06,62 | 14,49 | 05,21 | 11,28 |
| | 03,20 | 04,97 | 12,56 | 03,85 | 09,67 | 06,78 | 15,08 | 05,33 | 11,64 |
| | 03,50 | 05,09 | 12,89 | 03,94 | 10,00 | 06,95 | 15,72 | 05,50 | 12,12 |
| 04,00 | 05,23 | 13,53 | 04,01 | 10,58 | 07,26 | 16,85 | 05,79 | 12,90 | |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|------------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-S8U-PLUS | | | | | | | | | |
| | 02,60 | 05,58 | 13,55 | 03,91 | 09,46 | 07,27 | 15,82 | 05,23 | 11,31 |
| | 02,80 | 05,74 | 13,86 | 04,00 | 09,82 | 07,43 | 16,26 | 05,41 | 11,79 |
| | 03,00 | 05,89 | 14,49 | 04,13 | 10,15 | 07,74 | 16,94 | 05,57 | 12,30 |
| | 03,20 | 06,04 | 15,00 | 04,25 | 10,44 | 08,00 | 17,58 | 05,72 | 12,56 |
| | 03,50 | 06,26 | 15,50 | 04,32 | 10,78 | 08,25 | 18,33 | 05,89 | 13,17 |
| 04,00 | 06,30 | 16,40 | 04,49 | 11,43 | 08,70 | 19,80 | 06,21 | 13,86 | |



1.10 Indoor emergency lighting

Star22

1



- Low profile
- Unique elegant design
- Easy to install
- Certificated by ENEC Kema Keur
- IP rating IP42
- High temperature batteries Ni-Cd
- Autotest version
- Wide range of different models

Light Source:

Lamp. 8W fluorescent G5, 2G7 11W and 2G11 18W

Materials:

Base and reflector unit in white ABS

Operation:

Maintained, Non-Maintained and Sustained versions

Autonomy from 1h up to 3h

Self contained, Autotest, Inhibition and Rest Mode slave and CBS models available

Star22 family of emergency luminaires has been developed to include a wide range of versions depending on the emergency duration, the functionalism and the type of lamps. This impressive variety, offers useful flexibility to the installer, offering several different choices that fulfil any requirements for effective emergency lighting, from a range of simple residential applications to specific industrial ones.

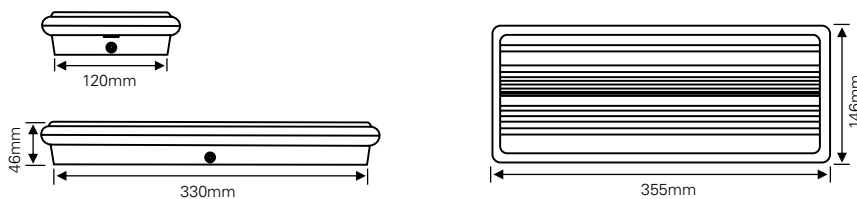
A full range of accessories are available. These include a recessed base for wall or flush mounting, and a plexiglass sign for deploying the luminaire as an exit sign.

Installation:

Wall, ceiling and recessed installations

Applications:

Schools, offices, hotels, restaurants, warehouses



O-EL20PSD



Slim plexi glass diffuser for exit signs

O-DS20

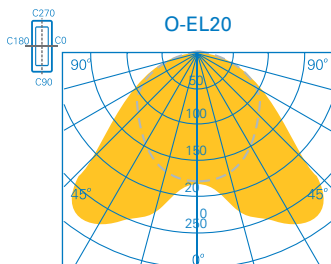


Plastic cone diffuser for exit signs

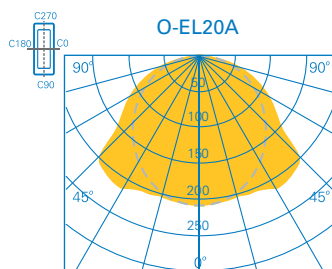
O-EL20RB



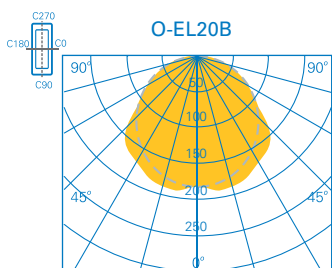
Recessed bases for ceiling and wall mount applications



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|--------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| | | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| O-EL20 | 02,60 | 02,69 | 06,68 | 02,05 | 05,98 | 03,84 | 08,45 | 03,49 | 07,92 |
| | 02,80 | 02,80 | 06,92 | 02,00 | 06,01 | 03,96 | 08,66 | 03,50 | 08,09 |
| | 03,00 | 02,90 | 07,05 | 01,95 | 06,00 | 04,02 | 08,90 | 03,50 | 08,26 |
| | 03,20 | 02,98 | 07,13 | 01,85 | 05,97 | 04,07 | 09,14 | 03,48 | 08,34 |
| | 03,50 | 03,04 | 07,51 | 01,69 | 05,87 | 04,25 | 09,29 | 03,44 | 08,43 |
| | 04,00 | 02,95 | 08,00 | 01,24 | 05,60 | 04,50 | 09,81 | 03,30 | 08,55 |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|---------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| | | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| O-EL20A | 02,60 | 03,29 | 08,29 | 02,96 | 07,71 | 04,69 | 10,38 | 04,35 | 09,54 |
| | 02,80 | 03,34 | 08,62 | 03,00 | 07,82 | 04,81 | 10,71 | 04,41 | 09,82 |
| | 03,00 | 03,40 | 08,83 | 03,02 | 07,96 | 04,91 | 11,05 | 04,48 | 10,11 |
| | 03,20 | 03,44 | 08,97 | 03,07 | 08,16 | 04,99 | 11,31 | 04,58 | 10,32 |
| | 03,50 | 03,50 | 09,19 | 03,05 | 08,28 | 05,09 | 11,65 | 04,64 | 10,74 |
| | 04,00 | 03,76 | 09,50 | 03,03 | 08,55 | 05,25 | 11,32 | 04,77 | 11,09 |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|---------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| | | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| O-EL20B | 02,60 | 03,75 | 09,42 | 03,73 | 09,30 | 05,21 | 11,68 | 05,15 | 11,15 |
| | 02,80 | 03,85 | 09,70 | 03,85 | 09,62 | 05,35 | 12,01 | 05,31 | 11,48 |
| | 03,00 | 03,92 | 09,99 | 03,94 | 09,87 | 05,49 | 12,30 | 05,43 | 11,93 |
| | 03,20 | 03,97 | 10,24 | 03,98 | 10,12 | 05,62 | 12,62 | 05,56 | 12,40 |
| | 03,50 | 04,04 | 10,46 | 04,05 | 10,38 | 05,73 | 13,17 | 05,69 | 12,79 |
| | 04,00 | 04,24 | 10,93 | 04,14 | 10,93 | 05,97 | 13,86 | 05,97 | 13,58 |

| Order code | Description | 💡 | ☀️ | 🕒 | 🔋 | ⚙️ |
|---------------|------------------------------|------------|--------|------|-----------------|----------------|
| O-EL20 | Star22 8W NM 90min | FL8WG5 | 70 Lm | 90' | 2,4V-1,5Ah NiCd | Non-Maintained |
| O-EL20-3H | Star22 8W NM 180min | FL8WG5 | 100 Lm | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL20A | Star22 11W NM 90min | PL11W2G7 | 130 Lm | 90' | 3,6V-1,5Ah NiCd | Non-Maintained |
| O-EL20A-3H | Star22 11W NM 180min | PL11W2G7 | 100 Lm | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL20B | Star22 18W NM 90min | PL18W2G11 | 210 Lm | 90' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL20C | Star22 18W NM 180min | FL 2X8WG5 | 240 Lm | 90' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL20M | Star22 8W M 90min | FL8WG5 | 70 Lm | 90' | 2,4V-1,5Ah NiCd | Maintained |
| O-EL20M-3H | Star22 8W M 180min | FL8WG5 | 100 Lm | 180' | 6V-1,5Ah NiCd | Maintained |
| O-EL20AM | Star22 11W M 90min | PL11W2G7 | 130 Lm | 60' | 3,6V-1,5Ah NiCd | Maintained |
| O-EL20AM-3H | Star22 11W M 180min | PL11W2G7 | 100 Lm | 180' | 6V-1,5Ah NiCd | Maintained |
| O-EL20BM | Star22 18W M 90min | PL18W2G11 | 210 Lm | 90' | 6V-1,5Ah NiCd | Maintained |
| O-EL20SU | Star22 8W S 90min | PL11W2G7 | 75 Lm | 90' | 2,4V-1,5Ah NiCd | Sustained |
| O-EL20SU-3H | Star22 8W S 180min | PL18W2G11 | 75 Lm | 180' | 6V-1,5Ah NiCd | Sustained |
| O-EL28-AUT | Star22 8W NM Autotest 60min | FL8WG5 | 230 Lm | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL28A-AUT | Star22 11W NM Autotest 60min | PL11W2G7 | 230 Lm | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL28B-AUT | Star22 18W NM Autotest 60min | PL18W2G11 | 230 Lm | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL28M-AUT | Star22 8W M Autotest 60min | FL8WG5 | 230 Lm | 60' | 6V-1,5Ah NiCd | Maintained |
| O-EL20 MAINS | Star22 8W Mains | FL8W G5 | | | | Mains |
| O-EL20A MAINS | Star22 11W Mains | PL11W 2G7 | | | | Mains |
| O-EL20B MAINS | Star22 18W Mains | PL18W 2G11 | | | | Mains |

Accessories

| | |
|------------|--------------------------------|
| O-EL20RW | Wall mounting base |
| O-EL20RB | Flush mounting base |
| O-DS20 | Double side diffuser |
| O-EL20PS | Diffuser & legend (blank) |
| O-EL20PSD | Diffuser & legend (down) |
| O-EL20PSLR | Diffuser & legend (left/right) |

1.11

Indoor emergency lighting

Cronus8W



- Compliant to EN 60 598-2-22
- Certificated by ENEC Kema Keur
- IP rating IP40
- High temperature batteries Ni-Cd
- Autotest & models

Light Source:

8W FL8W G5

Cronus 8W is a modern stylish emergency luminaire that utilises an 8 watt fluorescence lamp, able to provide suitable luminosity to several types of installations.

Construction:

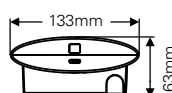
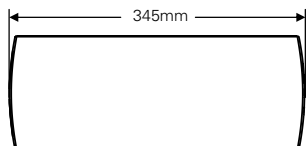
Base, mounting plate and cover, fire retardant ABS, lens optical grade acrylic

A discreet test button is built in to the luminaire giving the opportunity for a quick and easy functional test to be undertaken by anyone that needs to check the luminair's status.

A full range of accessories are available. These include a recessed base for wall or flush mounting and a plexiglass sign for installing the luminaire as an exit sign.

Operation:

Maintained, Non-Maintained, Autotest, slave and CBS models available



Applications:

Residential applications, offices, hotels, restaurants and schools

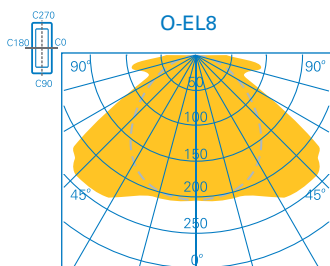
Button for manual test



O-EL8RB



O-EL8PSLR



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|-------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-EL8 | | | | | | | | | |
| | 02,60 | 03,33 | 07,98 | 02,42 | 06,33 | 04,49 | 09,01 | 03,67 | 07,86 |
| | 02,80 | 03,34 | 08,30 | 02,43 | 06,44 | 04,65 | 09,54 | 03,72 | 08,03 |
| | 03,00 | 03,34 | 08,57 | 02,43 | 06,64 | 04,78 | 09,99 | 03,82 | 08,26 |
| | 03,20 | 03,37 | 08,81 | 02,41 | 06,70 | 04,90 | 10,24 | 03,85 | 08,49 |
| | 03,50 | 03,29 | 09,29 | 02,36 | 06,81 | 05,14 | 10,78 | 03,90 | 08,77 |
| | 04,00 | 03,04 | 09,43 | 02,13 | 06,95 | 05,22 | 11,82 | 03,98 | 09,20 |

| Order code | Description | | | | | |
|------------|-----------------------------|----------|--------|------|-----------------|----------------|
| O-EL8 | Cronus 8W NM 90min | FL8WG5 | 100 Lm | 90' | 2,4V-1,5Ah NiCd | Non-Maintained |
| O-EL8-3H | Cronus 8W NM 180min | FL8WG5 | 115 Lm | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL8C | Cronus 2x8W NM 90min | FL2x8WG5 | 250 Lm | 90' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL8M | Cronus 8W M 90min | FL8WG5 | 100 Lm | 90' | 2,4V-1,5Ah NiCd | Maintained |
| O-EL8M-3H | Cronus 8W M 180min | FL8WG5 | 115 Lm | 180' | 6V-1,5Ah NiCd | Maintained |
| O-EL8SU | Cronus 8W S 90min | FL8WG5 | 85 Lm | 90' | 2,4V-1,5Ah NiCd | Sustained |
| O-EL8SU-3H | Cronus 8W S 180min | FL8WG5 | 100 Lm | 180' | 6V-1,5Ah NiCd | Sustained |
| O-EL8-AUT | Cronus 8W NM Autotest 60min | FL8WG5 | 240 Lm | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL8M-AUT | Cronus 8W M Autotest 60min | FL8WG5 | 240 Lm | 60' | 6V-1,5Ah NiCd | Maintained |
| O-EL8MAINS | Cronus 8W Mains | FL8W G5 | | | | Mains |

Accessories

| | |
|-----------|---|
| O-EL8PSLR | Double side exit sign (Left/Right) |
| O-EL8PSD | Double side exit sign (Down) |
| O-EL8RB | Recessed base (both for wall or flush mounting) |



- Low profile 4.8cm height
- Unique elegant design
- Easy to install
- Compliant to EN 60 598-2-22
- Certificated by ENEC Kema Keur
- IP rating IP42
- High temperature batteries Ni-Cd
- Opal diffuser version (EL5)
- Autotest version

Light Source:

6W FL6W T5

Construction:

Base, mounting plate and cover, fire retardant ABS, lens optical grade acrylic

Operation:

Maintained and Non-Maintained

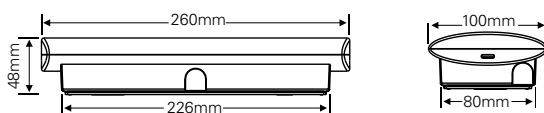
Applications:

Residential applications, offices, hotels, restaurants, schools

Cronus 6W is a compact low profile luminaire with a stylish design which offers an attractive emergency lighting solution for a wide variety of areas.

An additional small incandescence lamp is embodied in Cronus 6W indicating the normal charging mode while providing a smart night light solution.

A full range of accessories are available. These include a recessed base for wall or flush mounting, a plexiglass sign for installing the luminaire as an exit sign, as well as the opal diffuser version.



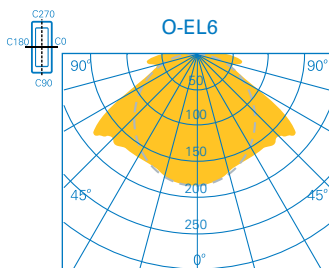
O-EL5



O-EL6RB



O-EL6PSLR



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|-------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-EL6 | | | | | | | | | |
| | 02,60 | 02,32 | 06,95 | 01,96 | 05,58 | 03,98 | 08,32 | 03,29 | 07,16 |
| | 02,80 | 02,22 | 07,17 | 01,92 | 05,62 | 04,08 | 08,62 | 03,31 | 07,35 |
| | 03,00 | 02,03 | 07,25 | 01,85 | 05,65 | 04,13 | 08,90 | 03,33 | 07,46 |
| | 03,20 | 01,89 | 06,98 | 01,75 | 05,68 | 03,99 | 09,24 | 03,34 | 07,63 |
| | 03,50 | 01,56 | 06,62 | 01,56 | 05,65 | 03,81 | 09,63 | 03,32 | 07,77 |
| | 04,00 | 00,89 | 06,18 | 00,92 | 05,40 | 03,59 | 10,20 | 03,20 | 08,00 |








| Order code | Description | | | | | |
|--------------------|---|---------|-------|------|-----------------|----------------|
| O-EL5 | Cronus 6W NM 90min with Opal diffuser | FL6W T5 | | 90' | 2,4V-1,5Ah NiCd | Non-Maintained |
| O-EL6 | Cronus 6W NM 90min | FL6W T5 | 60 Lm | 90' | 2,4V-1,5Ah NiCd | Non-Maintained |
| O-EL6-3H | Cronus 6W NM 180min | FL6W T5 | 70 Lm | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| Accessories | | | | | | |
| O-EL6PSLR | Double side exit sign (Left/Right) | | | | | |
| O-EL6PSD | Double side exit sign (Down) | | | | | |
| O-EL6RB | Recessed base (both for wall or flush mounting) | | | | | |





| | | |
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Emergency lighting exit signs

| | | Indoor | Recessed | Suspended | Ni-Cd | Ni-Mh | Li-Ion | Self contained Maintained | Autotest | Viewing Distance in meters | Hospitals | Hotels | Cinemas/Theaters | Schools | Offices | Industrial | Warehouse |
|-------------|---|--------------|----------|-----------|-------|-------|-----------|------------------------------|----------|-------------------------------|-----------|--------|------------------|---------|---------|------------|-----------|
| | | Installation | | Battery | | | Operation | | | Applications | | | | | | | |
| GuideLED |  | ● | ● | ● | | | ● | ● | ● | 20/30 | ● | ● | ● | ● | ● | | |
| Velos |  | ● | ● | ● | ● | ● | | ● | ● | 30/40 | ● | ● | ● | ● | ● | ● | ● |
| Euro X LED |  | ● | | | | | ● | ● | ● | 20 | ● | ● | ● | ● | ● | ● | ● |
| Planete 60D |  | ● | ● | | ● | | | ● | ● | 21 | ● | ● | ● | ● | ● | | |
| UltraLED 45 |  | ● | ● | | ● | | | ● | ● | 21 | ● | ● | ● | ● | ● | | |
| Britesign 2 |  | ● | | | ● | | | ● | ● | 33 | ● | ● | ● | | ● | ● | ● |
| EvoLED |  | ● | | | | ● | | ● | ● | 28 | ● | ● | ● | ● | ● | | |
| Via |  | ● | | ● | ● | | | ● | | 30 | ● | ● | ● | ● | ● | | |

The information given in this brochure is accurate at the time of compilation (errors and omissions excepted), however due to Eaton philosophy of constant product development we reserve the right to change specifications without prior notice.

2.1

Emergency lighting exit signs

GuideLED

2



- Unit with innovative LED technology
- Complies with EN60598-2-22 and EN1838
- Lithium Batteries
- Range selectable 1h, 3h and 8h
- Push button for test operation
- Wall, ceiling, suspension
- Version 20m and 30m visibility
- Selectable autonomy of 1h, 3h and 8h
- Available for ceiling mounting and recessed applications

Light Source:

LED Strip with 3-chip technology with a lifetime of 50.000 hours

Consumption of 4.1W for models from 20m and 4.7W for models from 30m

Construction:

Housing unit in light grey polycarbonate

Panel polymethylmethacrylate PMMA

Brackets for steel suspension

Operation:

Maintained (M) and Non-Maintained (NM) and CBS models available

Adjustable brightness function, standing at 100%, 30% and 10%

Range selectable 1h, 3h and 8h

Installation options: Wall, ceilings and recessed

Ceiling, recessed, stiff suspension and cable versions

External push button for manual execution of test

Applications:

Hotels, restaurants, meeting rooms, offices, shops, cinemas, theaters, museums

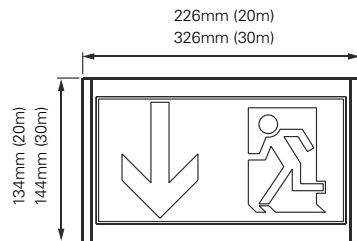
Particularly suitable for local public performance by adjusting the brightness

GuideLED, demonstrates that compliance with regulations, and multiple mounting options does not exclude an exemplary design. It has been developed in accordance with the provisions of ISO 3864-1, including the requirement of 500cd/m² within the white surface, ensuring optimal recognition and a high level of safety.

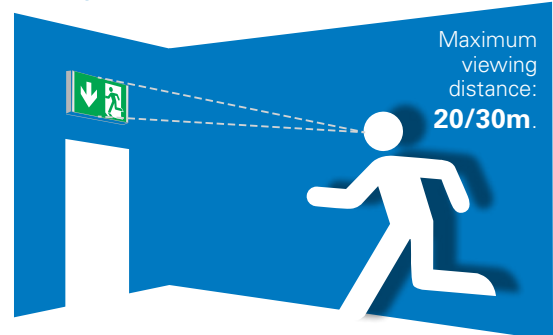
The highly developed Lightguide technology transforms the high point-sourced luminance of an LED into an illuminated surface with absolute uniform brightness. The 3-chip LEDs used in this process ensure a high level of operational safety and with a service life of 50.000 hours, significantly reduce maintenance efforts.

Its minimised power consumption of up to 60% below a comparable luminaire with fluorescent lamp also ensures a distinct reduction in operating cost.

The wide variety of versions available make the GuideLED escape sign luminaire a versatile solution. Featuring viewing distances of 20m or 30m, single-sided or double-sided options and multiple mounting types, they are ideal for a variety of room sizes and applications. Concealed connections and a slim-line construction also offer users an innovative application and design.



Viewing distance



3-Chip LEDs for increased safety

Longevity, instant start up, high efficiency and compact size are the features that make LEDs especially suitable for emergency and safety lighting. Precise matching along with low temperatures and low operating current guarantees high luminous efficiency with maximum service life.

Up to 48 LEDs optimally illuminate the GuideLED pictogram. Three LEDs are encapsulated in a common housing to form each light point. If one of the three LEDs fails, the intact LEDs illuminate more brightly. This ensures excellent illumination on a permanent level.



1 LED Lightguide technology

- Perfect, standard compliant illumination
- Low energy requirements
- 3-Chip LEDs for increased safety with 50.000 hours service life

2 CGLine LED electronics

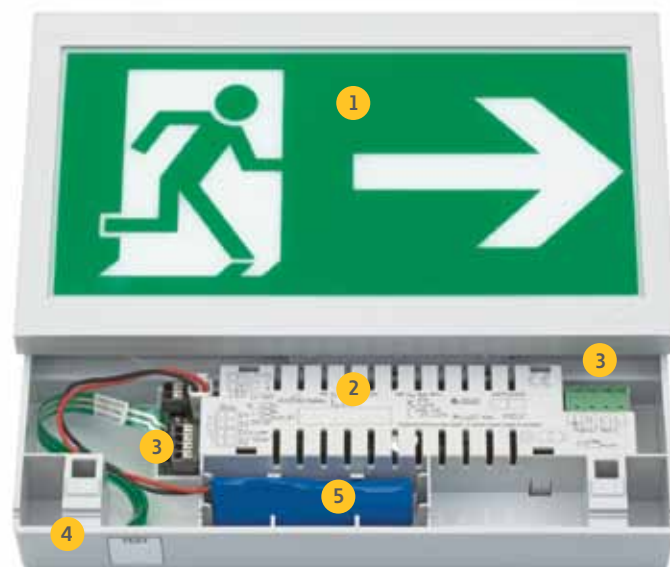
- Can be used for Maintained mode and Non-Maintained mode
- Fully automatic function test (weekly) or duration test (every 6 months)
- 1 minute switch-back delay to normal operation after mains return
- Blocking function prevents unintentional discharge during idle operating times (via CG controller CGLine 400 or CGLine WEB interface)
- Convenient and concise central monitoring in combination with CG Controller, CG Web interface or CG Vision visualisation Software

3 Optimised connection technology

- Spacious insertion areas
- Equipped for through-wiring of mains cable and CGLine bus live double terminals and 4 cable terminals

4 Display and test unit

- Testing button for manual triggering of function test and duration test
- Simple fault analysis with bicolor LED (light source charging or battery fault) and status display (operation, function test, duration test)
- Setting of dimming level in mains operation (100%, 30%, 10%)



5 Innovative Lilon technology

- Large capacity with compact design
- 1 version for 1h, 3h and 8h emergency lighting operation
- No memory effect
- Environmental friendly: no heavy metals and energy-optimized charging process due to low self-discharge
- Simple replacement via polarity reversal protected plug-in contacts and snap mounting

Lightguide technology for optimal illumination

The highly developed Lightguide technology converts the high point-sourced luminance of the LED into an illuminated surface with absolute uniform brightness, with luminance of over 50 cd/m² on white surface. Therefore the escape sign always remains easily recognisable even with poor visibility conditions or in bright surroundings.

Despite the very good photometric values, the new Lightguide technology with particularly efficient LEDs requires up to 60% less energy compared to previous escape sign luminaires with fluorescent lamps.

Photometric requirements for escape sign

DIN 4844-1 (2005-05) and ISO 3864-1 (2002):

$L_m \geq 500 \text{ cd/m}^2$ (white surface)

For applications in bright ambient conditions (mains operation)

ISO 30061 (2007):

$L_{min} = 10 \text{ cd/m}^2$ (green surface)

In smoky conditions. The luminaires should be suspended by at least 0.5m

EN 1838 (1999):

$L_{min} = 2 \text{ cd/m}^2$ (green surface)

Emergency lighting operation



Badly illuminated escape sign



GuideLED $\geq 100 \text{ cd/m}^2$ $\geq 500 \text{ cd/m}^2$

2.1

Emergency lighting exit signs

GuideLED

Wall Mount



GuideLED 10811 - 20m
GuideLED 11811 - 30m

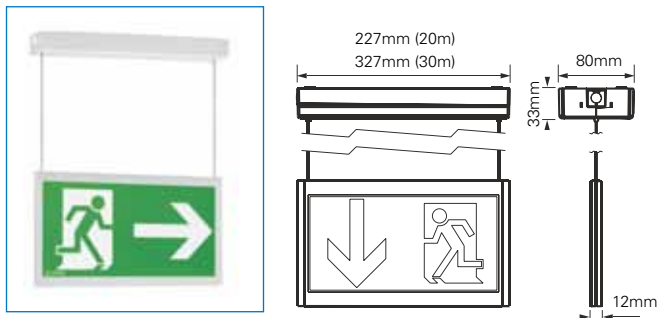
Wall Recessed



GuideLED 10812 - 20m
GuideLED 11812 - 30m

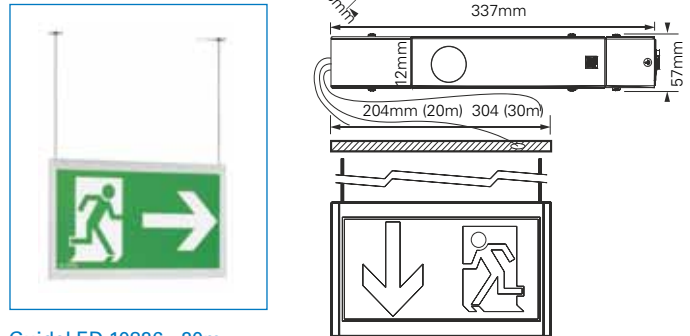
| Order code | Description | | | | |
|-------------|---|-----------|----------|-----------------|-----------------------------|
| 40071353080 | Wall mounting set for GuideLED, 20m and 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | |
| 40071353070 | Recessed mounting set for GuideLED, 20m and 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353050 | LED pictogram (left), 11x11/11x12, 20m | LED strip | | | |
| 40071353051 | LED pictogram (right), 11x11/11x12, 20m | LED strip | | | |
| 40071353052 | LED pictogram (down), 11x11/11x12, 20m | LED strip | | | |
| 40071353150 | LED pictogram (left), 11x11/11x12, 30m | LED strip | | | |
| 40071353151 | LED pictogram (right), 11x11/11x12, 30m | LED strip | | | |
| 40071353152 | LED pictogram (down), 11x11/11x12, 30m | LED strip | | | |

Ceiling mounted Suspended



GuideLED 10825 - 20m
GuideLED 11825 - 30m

Ceiling mounted Suspended by cable



GuideLED 10826 - 20m
GuideLED 11826 - 30m

| Order code | Description | | | | |
|-------------|--|-----------|----------|-----------------|-----------------------------|
| 40071353065 | Rope set 10825, intergated in canopy, 20m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353075 | Rope set 11825, intergated in canopy, 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353081 | Rope set 10826/11826, with ceiling holders, 20/30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353450 | LED pictogram (left/right), 10x25/10x26 (rope), 20m | LED strip | | | |
| 40071353550 | LED pictogram (left/right), 11x25/11x26 (rope), 30m | LED strip | | | |
| 40071353451 | LED pictogram (down/down), 10x25/10x26 (rope), 20m | LED strip | | | |
| 40071353452 | LED pictogram (left/blank), 10x25/10x26 (rope), 20m | LED strip | | | |
| 40071353453 | LED pictogram (right/blank), 10x25/10x26 (rope), 20m | LED strip | | | |
| 40071353454 | LED pictogram (down/blank), 10x25/10x26 (rope), 20m | LED strip | | | |
| 40071353551 | LED pictogram (down/down), 11x25/11x26 (rope), 30m | LED strip | | | |
| 40071353552 | LED pictogram (left/blank), 11x25/11x26 (rope), 30m | LED strip | | | |
| 40071353553 | LED pictogram (right/blank), 11x25/11x26 (rope), 30m | LED strip | | | |
| 40071353554 | LED pictogram (down/blank), 11x25/11x26 (rope), 30m | LED strip | | | |



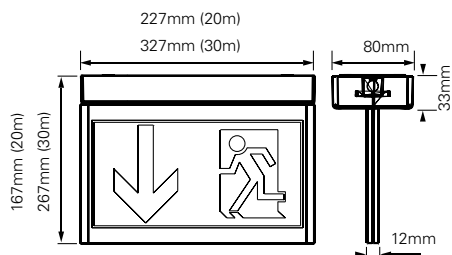
Rope installation with ceiling rope holders, LED supply for mounting in cavity ceiling

Ceiling Mount



GuideLED 10821 - 20m

GuideLED 11821 - 30m

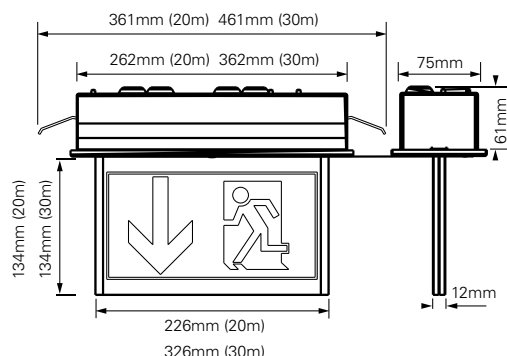


Ceiling Recessed



GuideLED 10824 - 20m

GuideLED 11824 - 30m



Ceiling Suspended

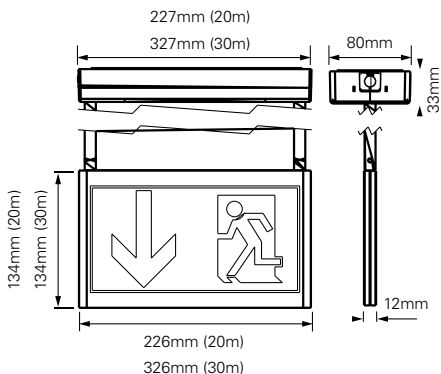


GuideLED 10822 - 20m - bracket 0,5m

GuideLED 11822 - 30m - bracket 0,5m

GuideLED 10823 - 20m - bracket 1,5m

GuideLED 11822 - 30m - bracket 1,5m



| Order code | Description | Light icon | Time icon | Battery icon | Settings icon |
|--------------|---|------------|-----------|-----------------|-----------------------------|
| 40071353061 | Ceiling mounting set 10821, with canopy 20m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353062 | Ceiling mounting set 10822, with canopy and 0,5m bracket, 20m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353063 | Ceiling mounting set 10823, with canopy and 1,5m bracket, 20m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353064 | Ceiling mounting set 10824, ceiling recessed housing, 20m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353071 | Ceiling mounting set 11821, with canopy 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353072 | Ceiling mounting set 11822, with canopy and 0,5m bracket, 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353073 | Ceiling mounting set 11823, with canopy and 1,5m bracket, 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353074 | Ceiling mounting set 11824, ceiling recessed housing, 30m | | 1h-3h-8h | Lilon 3,7 / 2Ah | Maintained / Non-Maintained |
| 40071353250 | LED pictogram (left/right), 10x21/10x22, 10x23, 10x24 20m | LED strip | | | |
| 40071353251 | LED pictogram (down/down), 10x21/10x22, 10x23, 10x24 20m | LED strip | | | |
| 40071353252 | LED pictogram (left/blank), 10x21/10x22, 10x23, 10x24 20m | LED strip | | | |
| 40071353253 | LED pictogram (right/blank), 10x21/10x22, 10x23, 10x24 20m | LED strip | | | |
| 40071353254 | LED pictogram (down/blank), 10x21/10x22, 10x23, 10x24 20m | LED strip | | | |
| 40071353255 | LED pictogram (left/right), 10x21/10x22, 10x23, 10x24 20m vertical | LED strip | | | |
| 40071353256 | LED pictogram (left/right), 10x21/10x22, 10x23, 10x24, 20m vertical | LED strip | | | |
| 40071353 350 | LED pictogram (left/right), 11x21/11x22, 11x23, 11x24 30m | LED strip | | | |
| 40071353 351 | LED pictogram (down/down), 11x21/11x22, 11x23, 11x24 30m | LED strip | | | |
| 40071353 352 | LED pictogram (left/blank), 11x21/11x22, 11x23, 11x24 30m | LED strip | | | |
| 40071353 353 | LED pictogram (right/blank), 11x21/11x22, 11x23, 11x24 30m | LED strip | | | |
| 40071353 354 | LED pictogram (down/blank), 11x21/11x22, 11x23, 11x24 30m | LED strip | | | |
| 40071353 355 | LED pictogram (left/right), 11x21/11x22, 11x23, 11x24 30m vertical | LED strip | | | |
| 40071353 356 | LED pictogram (left/right), 11x21/11x22, 11x23, 11x24 30m vertical | LED strip | | | |

2.2

Emergency lighting exit signs

Velos

2



- Unit with innovative LED technology Certified family of emergency exit signs in accordance to EN 60598-2-22
- 3rd party certification
- Nickel Metal Hydride Batteries
- Push button for test operation
- Ceiling, wall, suspension, recessed and lateral installation
- Models of 30m and 40m visibility
- Test functions
- Complete range of accessories

Light Source:

LED Strip with a lifetime of more than 60.000 hours
24 LEDs producing 140 lumens

Materials:

Base and reflector unit in white Polycarbonate

Operation:

Maintained, slave and CBS models available
Autonomy from 1h up to 3h
Adjustable brightness function to 50% in mains operation
Functional test button
Telecommand, Inhibition operation
Autotest and Slave models available

Installation:

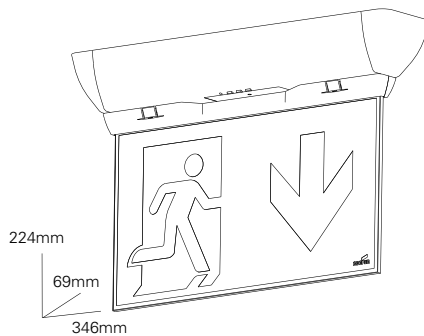
Ceiling, wall, recessed, suspended through rope or metal pipe and lateral installation
No special tools required

Applications:

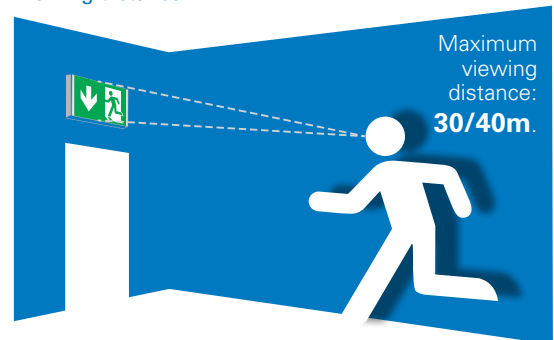
Schools, universities, public administration, commercial environments
Hotels, restaurants, meeting rooms, offices, shops, cinemas, theaters, museums
Areas with large heights and long distance view requirements

The new Velos family of emergency lighting is designed and equipped with technical solutions that make it suitable for a wide range of applications. A complete range of accessories such as the recessed base for false ceiling installations, lateral and back base as well as suspension options allow for a variety of mounting positions.

Together with the choice of ISO and EURO exit sign labels, the Velos LED range is appropriate for emergency lighting requirements in multiple of places such as offices, restaurants, hotels, hospitals and general commercial applications.



Viewing distance



Distance view of 30 / 40 meters provides the ability to use fewer products and less power consumption per coverage area of an application.



Power Supply Unit

- 1 • Easy to install with no use of special tools required.
 - Environmentally friendly: no heavy metals and energy-optimized charging process due to low self-discharge.
- 2 • Easy to connect power cables via screwless connectors for up to 2.5mm² cables.
- 3 • Multiple entrance points for power cables through base and main body of the power supply unit.
 - Construction Material: Polycarbonate.
 - Large capacity NiMH batteries with small construction size for compact luminaire design.

4 Velos electronics

- Fully automatic function test (weekly) or duration test (every 10 weeks).
- Testing button for manual triggering of function test.
- Autotest models available with simple fault analysis with two LED indication of battery / LED test and status display (operation, function test, duration test, failure).
- Easily set the level in mains operation to 50% or 100%.
- Increased product reliability with LED matrix orientation. By groups of 3, if one of the 24 LEDs fails, the intact LEDs will illuminate more brightly.

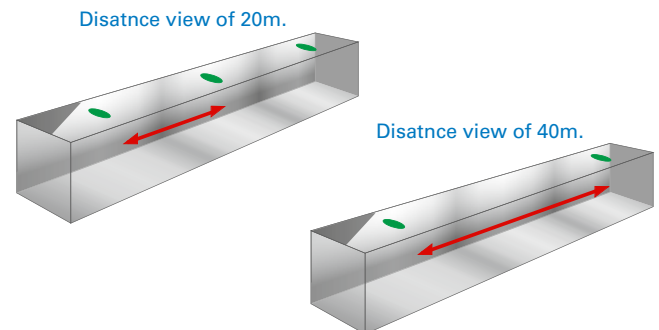


5 Velos Exit Sign

- Design life time: exceeding 60.000 hours lifetime expectancy using an EN1838 standard plate of 4mm thickness with 24 LED producing 140lm with minimum 240 cd/m² on white surface.
- 6 • Simple parts clicking with each other ensuring fast installation.

Velos distance view

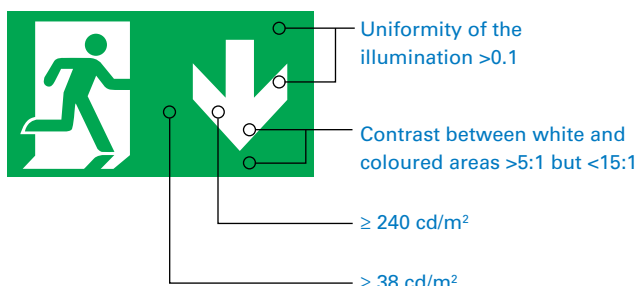
- Velos provides a solution regarding distance view and emergency exit signs
- Distance view from 30 up to 40 meters, minimizing the number of lights into an installation, reducing the energy consumption of the emergency lighting in a building and installation and maintenance cost.
- Various accessories for ease of installation aiming to accommodate all possible applications and areas, with recessed base, wall mounting accessories, lateral direction base, suspended from ceiling either with rope or metal pipes.



Velos optimal illumination

New exit sign plate used in Velos converts the high luminance of the LED into an illuminated surface with homogeneous brightness, with luminance of over 38 cd/m² on the white surface. As such the escape sign always remains easily recognisable even with poor visibility conditions or in bright surroundings.

Velos LEDs illuminate with a high efficiency of more than 112lm/W.



Photometric requirements for escape sign

EN 1838 (1999), Emergency lighting operation:

$L_{min} = 2 \text{ cd/m}^2$ (green surface) $L_{green} \geq 2 \text{ cd/m}^2$

$L_{white} \geq 10 \text{ cd/m}^2$

$5 \leq L_{white} / L_{green} \leq 15$

ISO 30061 (2007), When smoke is prime consideration:

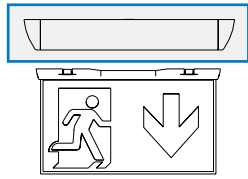
$L_{green} \geq 10 \text{ cd/m}^2$

$L_{white} \geq 50 \text{ cd/m}^2$

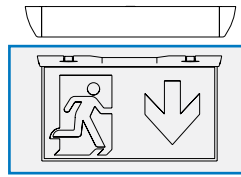
2.2

Emergency lighting exit signs

Velos



PSU unit of Velos (order separately)

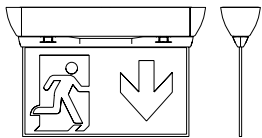


Exit sign of Velos (order separately)

| Order code | | | |
|------------|---------------------|------|-------------------|
| O-ESC | Velos PSU 1,5h NiCd | 1,5h | 4VTCs NiCd 1600mA |
| O-ESC-3H | Velos PSU 3h NiCd | 1,5h | 4VTCs NiCd 1600mA |
| O-ESMAINS | Velos PSU Mains | | |

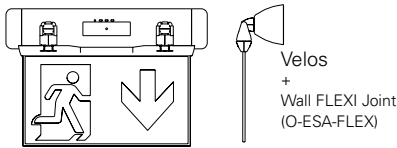
| Order code | | | |
|-------------|----------------------------|----|-------------------|
| O-ESM-AT | Velos PSU 1h NiMH Autotest | 1h | 4AA NiMH 1100mA |
| O-ESM-AT-3H | Velos PSU 3h NiMH Autotest | 3h | 4VTCs NiMH 2000mA |

Ceiling mount



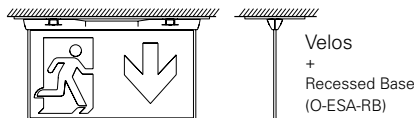
PSU + Exit Sign → Velos

Wall mount



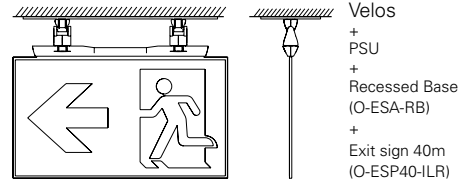
Velos + Wall FLEXI Joint (O-ESA-FLEX)

Recessed (30m)



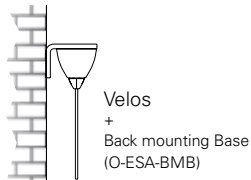
Velos + Recessed Base (O-ESA-RB)

Recessed (40m)



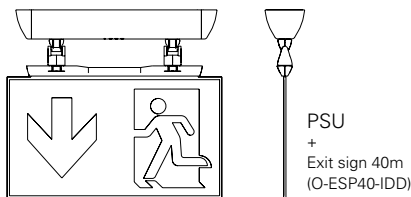
Velos + PSU + Recessed Base (O-ESA-RB) + Exit sign 40m (O-ESP40-ILR)

Back wall mount



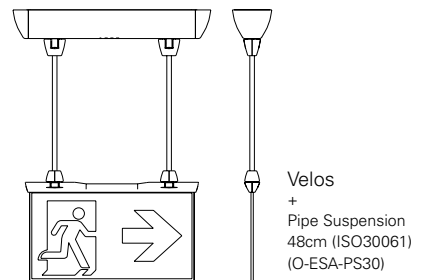
Velos + Back mounting Base (O-ESA-BMB)

Ceiling mount (40m)



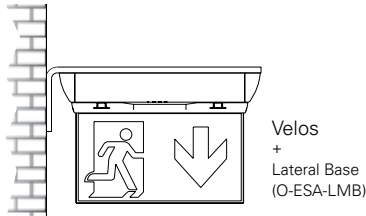
PSU + Exit sign 40m (O-ESP40-IDD)

Suspended with metal pipes



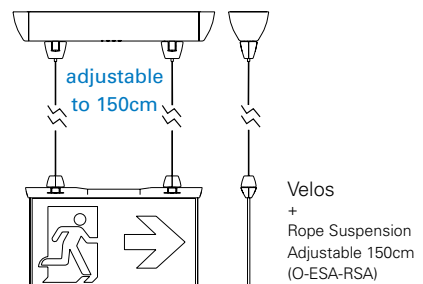
Velos + Pipe Suspension 48cm (ISO30061) (O-ESA-PS30)

Lateral mount



Velos + Lateral Base (O-ESA-LMB)


























Suspended with adjustable rope



Velos + Rope Suspension Adjustable 150cm (O-ESA-RSA)

Accessories

| Order code | Description |
|------------|--|
| O-ESA-RB | Velos Recessed base |
| O-ESA-FLEX | Velos Wall FLEXI Joint |
| O-ESA-RSA | Velos Rope Suspension adjustable 150cm |
| O-ESA-PS30 | Velos Pipe Suspension 48cm (ISO30061) |
| O-ESA-LMB | Velos Lateral Mounting Base |
| O-ESA-BMB | Velos Back Mounting Base |

| Order code | Description |  | Dimensions | |
|--------------|--|---|------------|---|
| O-ESP-ELR | Velos pictogram EURO LEFT/RIGHT 30m | 24 LEDs | 288x165 |  |
| O-ESP-ED | Velos pictogram EURO DOWN/BLANK 30m | 24 LEDs | 288x165 |  |
| O-ESP-EDD | Velos pictogram EURO DOWN/DOWN 30m | 24 LEDs | 288x165 |  |
| O-ESP-EU | Velos pictogram EURO UP/BLANK 30m | 24 LEDs | 288x165 |  |
| O-ESP-EUU | Velos pictogram EURO UP/UP 30m | 24 LEDs | 288x165 |  |
| O-ESP-E2R | Velos pictogram EURO Lateral to Room | 24 LEDs | 288x165 |  |
| O-ESP-E2W | Velos pictogram EURO Lateral to Wall | 24 LEDs | 288x165 |  |
| O-ESP-ILR | Velos pictogram ISO LEFT/RIGHT 30m | 24 LEDs | 288x165 |  |
| O-ESP-ID | Velos pictogram ISO DOWN/BLANK 30m | 24 LEDs | 288x165 |  |
| O-ESP-IDD | Velos pictogram ISO DOWN/DOWN 30m | 24 LEDs | 288x165 |  |
| O-ESP-IU | Velos pictogram ISO UP/BLANK 30m | 24 LEDs | 288x165 |  |
| O-ESP-IUU | Velos pictogram ISO UP/UP 30m | 24 LEDs | 288x165 |  |
| O-ESP-I2R | Velos pictogram ISO Lateral to Room | 24 LEDs | 288x165 |  |
| O-ESP-I2W | Velos pictogram ISO Lateral to Wall | 24 LEDs | 288x165 |  |
| O-ESP-RUS | Velos pictogram Russian Exit 30m | 24 LEDs | 288x165 |  |
| O-ESP40-ILR | Velos pictogram ISO LEFT/RIGHT 40m | 24 LEDs | 370x220 |  |
| O-ESP40-IDD | Velos pictogram ISO DOWN/DOWN 40m | 24 LEDs | 370x220 |  |
| O-ESP-H | Velos Hydrant pictogram 30m | 24 LEDs | 288x165 |  |
| O-ESP-FHD | Velos Fire hose down 30m | 24 LEDs | 288x165 |  |
| O-ESP-FH-EXT | Velos Fire hose & extinguisher 30m | 24 LEDs | 288x165 |  |
| O-ESP-WIRL | Velos pictogram Wheel ISO LEFT/RIGHT 30m | 24 LEDs | 288x165 |  |
| O-ESP-WIDD | Velos pictogram Wheel ISO DOWN/DOWN 30m | 24 LEDs | 288x165 |  |
| O-ESP40-WILR | Velos pictogram Wheel ISO LEFT/RIGHT 40m | 24 LEDs | 370x220 |  |
| O-ESP40-WIDD | Velos pictogram Wheel ISO DOWN/DOWN 40m | 24 LEDs | 370x220 |  |



2.3

Emergency lighting exit signs

Euro X LED

2



- For wall and ceiling mounting
- Protection class IP54
- Including pictogram set
- Low operating costs via low connected load
- Environmentally-friendly lithium ion battery
- Automatic test functions
- LEDs with high service life

Light Source:

5 LED of 4,5W

Low operating costs via low connected load (3.2 W)

Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)

Materials:

Polycarbonate body and diffuser

Installation:

Wall mounting, ceiling mounting

Universal use: The luminaire is universally suitable for wall and ceiling mounting and has IP54 protection rating, including pictogram set (arrow right, left and down) acc. to ISO 7010

3h emergency light duration with an environmentally-friendly lithium ion battery

Operation:

Maintained and Non-Maintained operation selectable via a sliding switch

LED self-contained luminaire with automatic test functions: Battery operation is tested once weekly and battery capacity twice yearly.

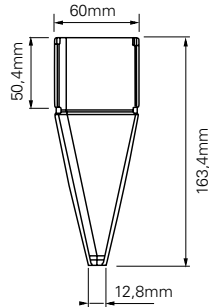
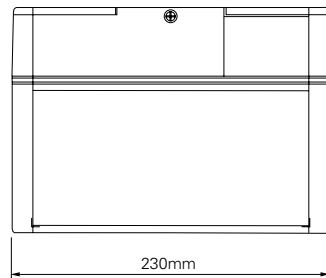
Test results are displayed via a dual colour LED.

Applications:

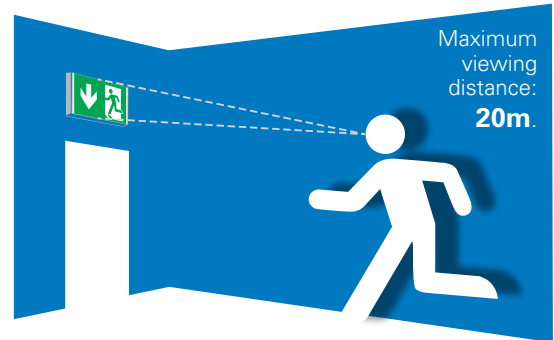
Hotels, restaurants, offices, shops, cinemas, theaters, museums

Euro X LED exit sign has been developed to meet a wide spectrum of requirements, with no compromises to quality or functionality despite the diversity of product features.

The self-contained luminaire features universal mounting, lithium ion technology and a high IP54 protection rating making it a flexible low maintenance solution with a long service life.






Viewing distance



Ceiling mounting



Wall mounting

| Order code | Description |  |  |  |  |
|-------------|-------------------------|---|---|---|---|
| 40071354900 | Euro X LED, 3h Autotest | 5LED 3.2W | 180' | 3.7 V / 2.000 mAh | Maintained / Non-Maintained |



- Unique elegant design
- Wall or ceiling
- Autotest
- Low energy consumption

Light Source:

2 white LED

No relamping: 100%-LED unit

Materials:

Interchangeable battery pack

Operation:

Maintained

Autotest in standard version

Automatic execution of all regulatory tests

Installation:

Wall and ceiling installations

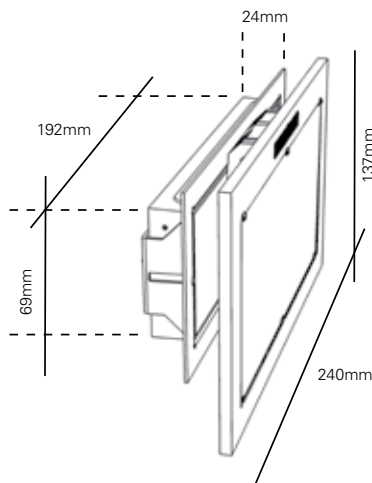
Applications:

Schools, offices, hotels, restaurants, warehouses

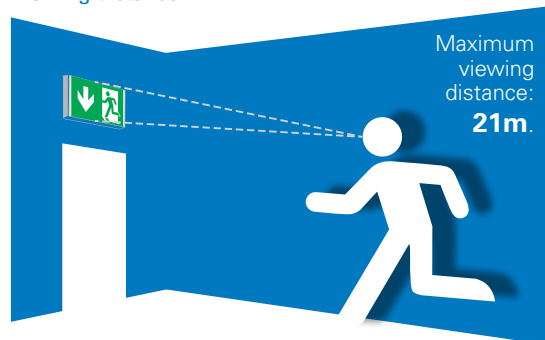
Planete 60 combines the long life and low maintenance benefits of LED technology along with a light design making the product applicable to almost all stylish applications where emergency light is used.

Energy efficient and autotest reliable operation assures the long life of the LED light source, which is monitored by an integral self test system.

Planete 60 can be mounted in wall and ceiling installations.



Viewing distance







Planete60, ceiling application



Planete60, wall application



Planete60, LED light distribution technology

| Order code | Description |  |  |  |  |
|--------------------|---------------------|---|--|---|---|
| LUM17002 | Planete 60 | 2 white LED | 60' | 4x1,2V - 0,8Ah | Maintained |
| Accessories | | | | | |
| LUM10514 | Recessed Base | | | | |
| LUM10518 | Legend Down | | | | |
| LUM10517 | Legend Left / Right | | | | |

2.5

Emergency lighting exit signs

UltraLED 45

2



- Unique elegant design
- Wall or ceiling
- Autotest
- Low energy consumption
- Weatherproof model available

Light Source:

2 x 1,6W Power LED

Reduced consumption (< 1.6W)

No relamping: 100%-LED unit

Materials:

Compact casing

Translucent honeycomb-shaped bracket for fast, universal fixing

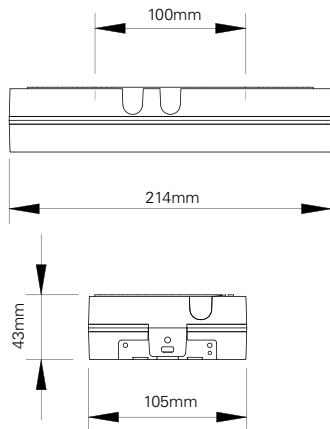
Non-polarised remote control entries

Interchangeable battery pack

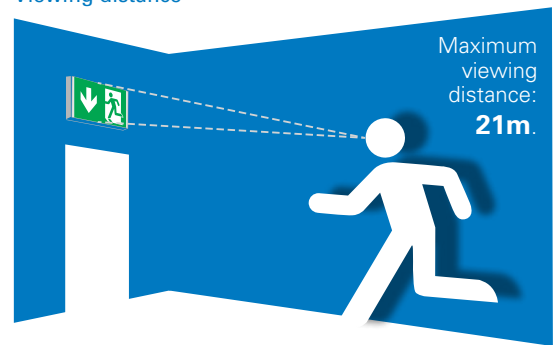
Connection to screwless terminals

Colour: white RAL 9010

UltraLED 45 is an exit sign which can be altered according to the user and application requirements. With the smart change of the exit sign pictograms, it can be used in horizontal or vertical orientation. It has a long life duration as well as low maintenance with its autotest reliable operation. UltraLED 45 can be mounted in wall installations.



Viewing distance



Installation:

Wall and ceiling mounting

Applications:

Domestic applications, houses, flats, offices



Easy installation and cabling

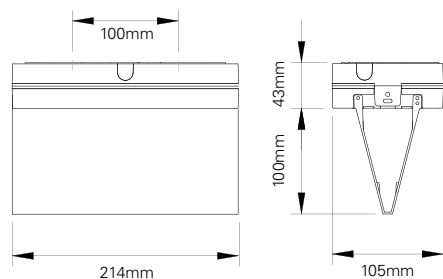
Exit sign orientation and easy mounting of the unit







LUM16005



Recessed installation and diffuser accessory



| Order code | Description |  |  |  |  |
|------------|------------------|---|---|---|---|
| LUM16025 | UltraLED 45 | 2 x 1,6W LED | 60' | 4X1,2V - 0,8Ah | Maintained |
| LUM16005 | UltraLED 45 IP66 | 2 x 1,6W LED | 60' | 4X1,2V - 0,8Ah | Maintained |

Accessories

| | |
|----------|----------------------|
| LUM10534 | Recessed Base |
| LUM10533 | Double side diffuser |



- Ultra low profile design
- 50.000 hour LED source for minimum maintenance
- EN1838 compliant legend panel
- Bezel colour options on request
- Autotest models available

Light Source:

High intensity 3W white LED strip

Materials:

Housing steel, powder coated in RAL9016 finish

Bezel die cast Aluminum, satin anodised or powder coated in RAL9016 finish

Legend panel clear acrylic with screen print legend

Installation:

Suitable for wall mounting

First fix body with rear BESA entry and 20mm conduit entry on top face

Direct fix via keyhole slots

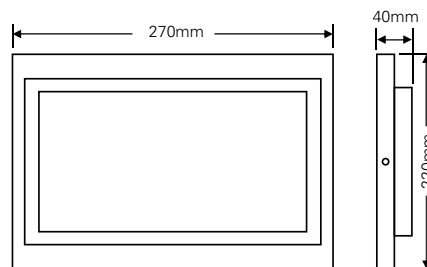
Bezel assembly screwed securely to base

Applications:

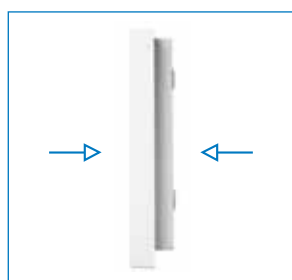
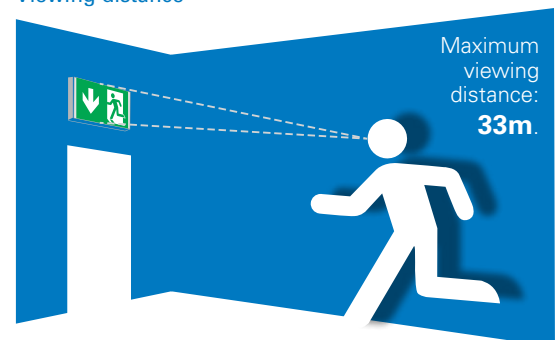
Hotels, restaurants, cinemas, theaters, schools and hospitals

Using the latest in LED technology Britesign 2 has been remodeled to suit most prestigious installations and commercial interiors. It has an ultra low profile of 40mm and the stepped bezel creates an even slimmer appearance which makes this LED exit sign blend unobtrusively into almost any environment.





The picture frame style die cast aluminum bezel is available in satin anodised finish as well as the ever popular white and houses a 33m viewing distance legend panel. The 50.000 hour long life LED source provides outstanding savings in lamp replacement and maintenance costs when compared to a traditional 8W lamp.



Viewing distance



40mm slim profile of Britesign 2 minimised further using stepped frame design

| Order code | Description |  |  |  |  |
|------------|---|---|--|---|---|
| BS2M | Britesign 2, Maintained | 3W LED strip | 180' | 4,8V - 1,6Ah | Maintained |
| BS2MIS | Britesign 2, Maintained, Autotest | 3W LED strip | 180' | 4,8V - 1,6Ah | Maintained |
| BS2MA | Britesign 2, Maintained, Aluminum finish | 3W LED strip | 180' | 4,8V - 1,6Ah | Maintained |
| BS2MAIS | Britesign 2, Maintained, Autotest, Aluminum | 3W LED strip | 180' | 4,8V - 1,6Ah | Maintained |
| BS2S230 | Britesign 2, Mains | 3W LED strip | | | Mains |
| BSAD | Legend Down | | | | |
| BSAL | Legend Left | | | | |
| BSAR | Legend Right | | | | |

2.7

Emergency lighting exit signs

EvoLED



- Sleek modern looks blends into most environments
- 50.000 hour LED source for minimum maintenance
- Self-test as standard
- EN1838 compliant legend for uniformity of appearance
- White or silver finish

Light Source:

1W high output high efficiency side emitting white LED

Materials:

Body and housing polycarbonate

Legend panel clear acrylic with pre-applied screen printed legend

Batteries NiMH

EvoLED combines the long life and low maintenance benefits of LED technology with energy efficient operation and prestigious styling to produce an exit sign suitable for almost any application.

Available in a choice of either white or silver color finishes, EvoLED is quick and simple to assemble with a snap together design incorporating a self locking clip in legend panel.

Reliable operation is assured by the long life LED light source, which is monitored by an integral self test system.

Thanks to the patented lighting technology EvoLED signage luminaires comply with only an LED light source all the required standards. EvoLED is available standard in white and aluminum.

Operation:

Maintained 1 or 3 hour duration
Choice of colour finishes

Installation:

Suitable for ceiling and wall mounting

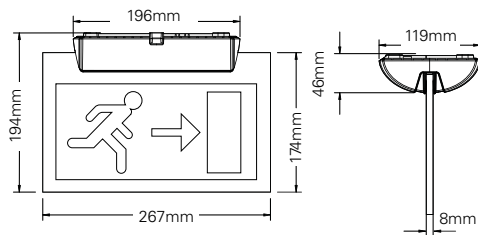
Screwless snap together assembly

Legend panel has a self locking mechanism to prevent malicious removal

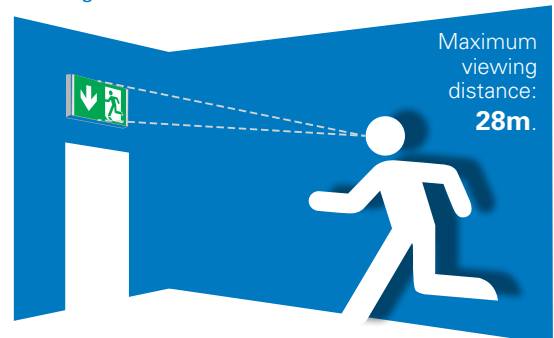
Push in connectors for mains supply cables

Applications:

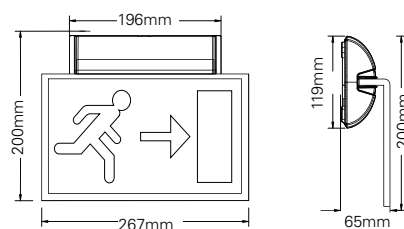
Hotels, cinemas, theaters, schools and hospitals







Viewing distance



Wall mount plexiglass



| Order code | Description |  |  |  |  |
|-------------|-----------------------------|---|---|---|---|
| 100-001-105 | EvoLED white, 1h, Autotest | 1W LED | 60' | 4,8V - 1,25Ah | Maintained |
| 100-001-115 | EvoLED silver, 1h, Autotest | 1W LED | 60' | 4,8V - 1,25Ah | Maintained |
| 100-601-105 | EvoLED white, 3h, Autotest | 1W LED | 180' | 4,8V - 1,25Ah | Maintained |
| 100-601-115 | EvoLED silver, 3h, Autotest | 1W LED | 180' | 4,8V - 1,25Ah | Maintained |
| 175-000-050 | Legend Right/Left | | | | |
| 175-000-062 | Legend Down | | | | |
| 176-000-051 | Legend Wall plex Right | | | | |
| 176-000-052 | Legend Wall plex Left | | | | |



- Modern contemporary styling
- 50.000 hour LED source for minimum maintenance
- Easy to install
- Luminaire and legend supplied as one unit
- Adjustable height (up to 7cm)

Light Source:

8 x 1W white LED strip

Materials:

Body and housing ABS white finish

Legend clear acrylic with pre applied legend

Batteries sealed nickel cadmium NiCd

Installation:

Suitable for ceiling mounting

Screwless snap together assembly

Legend panel has self locking mechanism to prevent malicious removal

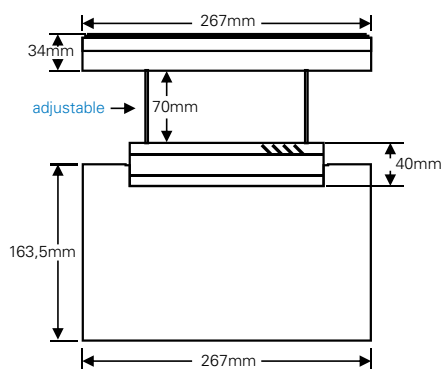
Luminaire and legend supplied together

Applications:

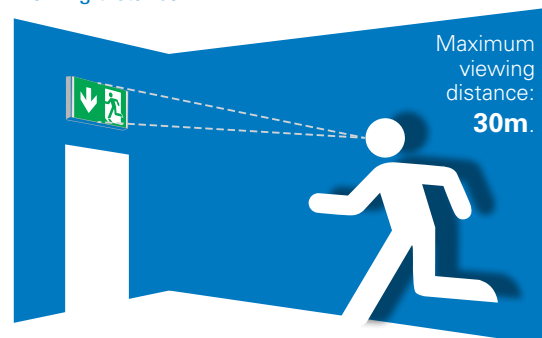
Commercial malls, cinemas and theaters, hotels, restaurants, conference areas, hospitals















Contemporary styling and high quality materials blend together perfectly to produce the attractive Via range of pendant exit signs.

Injection moulded parts help reduce weight and provide a distinctive sculptured appearance suitable for a wide variety of interiors and applications. Via also benefits from a frameless modern design of legend panel that offers a maximum viewing distance of 30m. The long life LED strip provides an excellent uniform illumination of the legend comfortably meeting the requirements of EN1838. Via has an LED source with a rated life of 50.000 hours ensuring reliable operation and minimising onsite maintenance costs



Viewing distance











| Order code | Description |  |  |  |  | |
|-------------|-------------------------------|---|---|---|---|---|
| O-VIA8-PSD | VIA8, 2h, legend Down | 8 x 1W LED strip | 120' | 2,4V - 1,5Ah | Maintained |   |
| O-VIA8-PSLR | VIA8, 2h, legend Left / Right | 8 x 1W LED strip | 120' | 2,4V - 1,5Ah | Maintained |   |
| O-VIA8-EXT | VIA8 LED 2h Exit | 8 x 1W LED strip | 120' | 2,4V - 1,5Ah | Maintained |   |
| O-VIA8-STD | VIA8 LED 2h Stairs Down | 8 x 1W LED strip | 120' | 2,4V - 1,5Ah | Maintained |   |
| O-VIA8-STU | VIA8 LED 2h Stairs Up | 8 x 1W LED strip | 120' | 2,4V - 1,5Ah | Maintained |   |





| | | |
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| 3.3 | i-P65 | 50 |
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| 3.6 | StarIP65 | 54 |
| 3.7 | Zetalite 3 | 56 |
| 3.8 | New Safe 8 | 57 |

Outdoor emergency lighting

| | Indoor | Recessed | Outdoor | Ni-Cd | Ni-Mh | Li-Ion | Maintained | Non-Maintained | Autotest | Hospitals | Hotels | Cinemas/Theaters | Schools | Offices | Industrial | Warehouse |
|--|--------------|----------|---------|-------|-------|-----------|------------|----------------|--------------|-----------|--------|------------------|---------|---------|------------|-----------|
| | Installation | | Battery | | | Operation | | | Applications | | | | | | | |
| Atlantic LED  | | | ● | ● | | ● | ● | ● | | | | | ● | | ● | ● |
| Outdoor wall  | | | ● | ● | | ● | ● | ● | | | | | ● | | ● | ● |
| i-P65  | | | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● |
| Alfalux Highbay LED  | | | ● | ● | | ● | ● | ● | ● | ● | | ● | ● | | ● | ● |
| Atlantic Plus LED  | | | ● | ● | | ● | ● | ● | ● | ● | | ● | ● | | ● | ● |
| StarIP65  | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Zetalite 3  | | | ● | ● | | ● | ● | | | | | | ● | | ● | ● |
| New Safe 8  | | | ● | ● | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● |

The information given in this brochure is accurate at the time of compilation (errors and omissions excepted), however due to Eaton philosophy of constant product development we reserve the right to change specifications without prior notice.

3.1

Outdoor emergency lighting

Atlantic LED



- Innovative LED technology
- Complies with EN60598-2-22
- Rugged cast aluminum IK10
- Ni-Mh HT
- Suitable for industrial environments

Light Source:

Two high-brightness LEDs of 1.6W with loop life of 50.000 hours

Materials:

Cast aluminum housing unit in grey
White polycarbonate reflector
Clear polycarbonate diffuser

Operation:

Maintained and Non-Maintained versions and CBS models available

Autonomy 1h

Manual test with magnet

Installation:

Wall and ceiling installations

Applications:

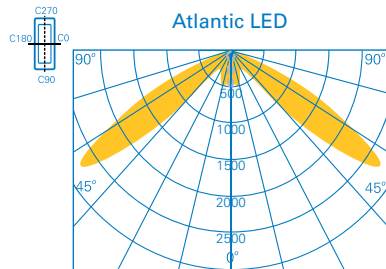
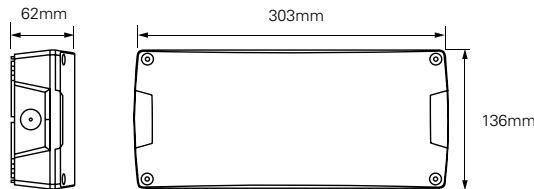
Factories, warehouses, underground car parks, workshops, tunnel

Escape routes, corridors

AtlanticLED is a device for lighting and signaling safety. The durable cast aluminum body along with the high IP65 protection rating, makes this unit particularly suited to industrial areas, underground car parks and tunnels.

The electronic circuit performs self-diagnosis functions and independent tests for functionality and autonomy duration.

AtlanticLED has internal jumpers that allows to switch between 200 lux or 75 lux light output. The optical asymmetric lens are optimally designed to spread light in corridors and escape routes.



Atlantic LED can be used as exit sign

| Model | Height (m) | Distance for 1 Lux (open area) | | | | Distance for 0,5 Lux (escape route) | | | |
|--------------|------------|--------------------------------|-------|-------|-------|-------------------------------------|-------|------|------|
| | | Wall | Open | Open | Open | Wall | Open | Open | Open |
| Atlantic LED | 03,00 | 03,00 | 07,90 | 07,50 | 16,70 | 15,00 | 06,60 | | |
| | 03,50 | 02,30 | 08,02 | 08,30 | 18,60 | 16,60 | 07,40 | | |
| | 04,00 | 04,00 | 08,40 | 09,10 | 20,40 | 18,00 | 08,10 | | |

| Order code | Description | Light Source | Beam Angle | Autonomy | Maintenance | |
|-------------|--|--------------|------------|----------|-------------|-----------------------------|
| 100-052-023 | ATLANTIC LED R-AD, (open area) | 2 x 1 6W LED | 200Lm | 60' | 4,8V-2,2Ah | Maintained / Non-Maintained |
| 100-052-022 | ATLANTIC LED R-AD, (escape route, double side) | 2 x 1 6W LED | 200Lm | 60' | 4,8V-2,2Ah | Maintained / Non-Maintained |
| 100-052-021 | ATLANTIC LED R-AD, (escape route, single side) | 2 x 1 6W LED | 200Lm | 60' | 4,8V-2,2Ah | Maintained / Non-Maintained |

Accessories

| | |
|-------------|-------------------------------|
| 155-000-001 | Single side pictogram (right) |
| 155-000-002 | Single side pictogram (left) |
| 155-000-003 | Single side pictogram (down) |
| 155-000-201 | Double side pictogram (right) |
| 155-000-202 | Double side pictogram (left) |
| 155-000-203 | Double side pictogram (down) |



- Innovative LED technology
- Complies with EN60598-2-22
- Rugged cast aluminum IK10
- Ni-Mh HT
- Suitable for emergency exits

Light Source:

Two high-brightness LEDs of 1.6W with loop life of 50.000 hours

Materials:

Cast aluminum housing unit in grey
White polycarbonate reflector
Clear polycarbonate diffuser

Operation:

Maintained and Non-Maintained versions and CBS models available

Autonomy 1h
Manual test with magnet

Installation:

Wall mounting over exits and escape routes versions

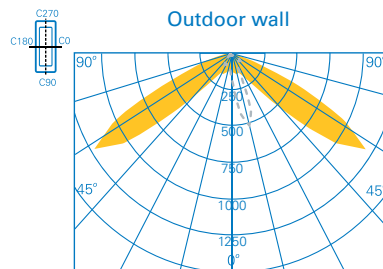
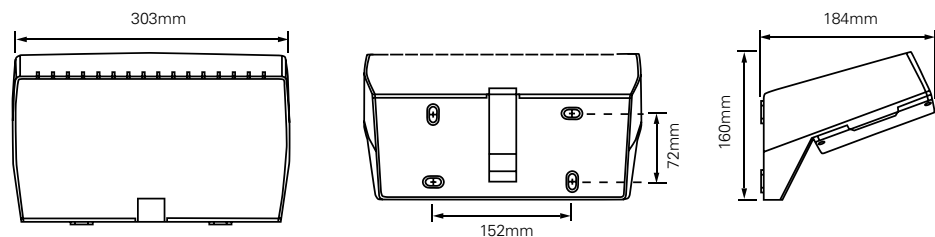
Applications:

Factories, warehouses, underground car parks, workshops, tunnel
Escape routes, corridors
Installation on emergency exits inside and outside buildings

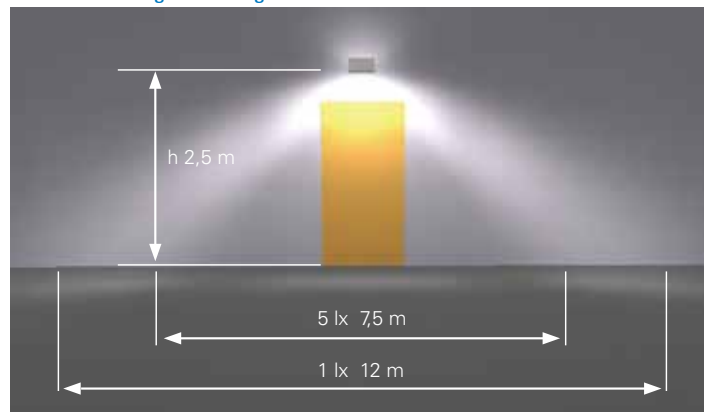
The durable cast aluminum along with the high degree of protection (IP65) makes this outdoor wall unit particularly suitable for industrial areas, underground car parks and tunnels.

Outdoor Wall has been developed to be mounted on the wall above the safety exits of a building both inside and outside, thanks to the special design which allows 90° installation and ensures the uniform illumination level required by law.

Outdoor Wall has an internal jumpers that allows to switch between 200 lux or 75 lux light output. The optical asymmetric lens are optimally designed to spread light in corridors and escape routes.



Outdoor LED light coverage



| Order code | Description | | | | | |
|-------------|-----------------|--------------|-------|-----|------------|-----------------------------|
| 100-052-521 | OUTDOOR WALL AD | 2 x 1 6W LED | 200Lm | 60' | 4,8V-2,2Ah | Maintained / Non-Maintained |

3.3

Outdoor emergency lighting

i-P65

3



- Versatile multi functional use (escape, open area and exit sign use)
- Low power consumption reducing cost of ownership
- Ease of installation, reducing installation time and cost
- 60.000 hour life LED for reduced maintenance
- Autotest emergency versions available, reducing maintenance costs and offering ease of compliance with testing requirements
- Environmentally friendly NiMh battery

Light Source:

2 x high power 1W white LED

Materials:

Luminaire Body: Polycarbonate

Gear Tray: Polycarbonate

Battery: NiMh 4 cell

Operation:

Maintained luminaire can be operated in Non-Maintained model

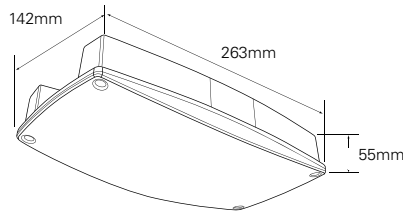
Slave and CBS models available

Optional ISO7010 or Euro pictogram exit legends

Temperature controlled battery heater kit for optimised performance in low ambient temperatures

i-P65 is a high specification competitively priced emergency LED bulkhead utilising the latest LED and optic technology to provide an attractive, good quality, functional luminaire for indoor and outdoor use. Boasting numerous features and benefits, the i-P65 can be used to provide escape route lighting, single sided exit sign or optional double sided exit sign with a common look and feel where aesthetics are a primary concern.

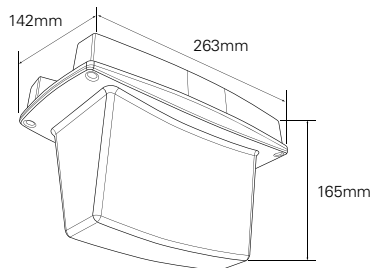
The i-P65 has been designed for ease of installation, reduced power consumption, minimal maintenance, reducing the TCO (total cost of ownership) with a compact attractive appearance. The innovative optic design used in the i-P65 utilises light from the LED source to provide uniform lighting distribution. For both escape route and open area antipanic emergency lighting applications, performance is improved and electrical power consumption is reduced.



Applications:

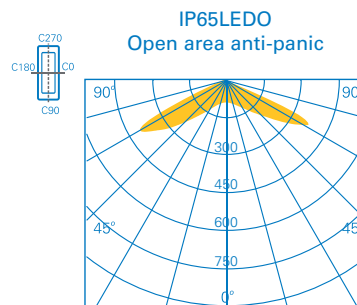
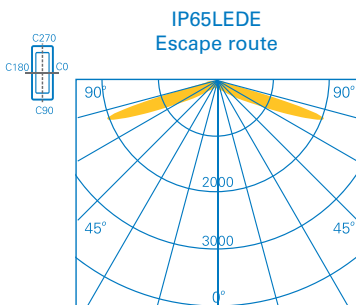
Hotels, cinemas, theaters, schools and hospitals

IP65LEDEX3H



IP65LEDO3H





| Model | Height (m) | Distance for 1 Lux | |
|--------------|------------|--------------------|-------|
| | | | |
| Escape optic | 02,50 | 07,80 | 17,10 |
| | 02,80 | 08,40 | 18,60 |
| | 03,00 | 08,60 | 19,60 |

| Model | Height (m) | Distance for 1 Lux | | |
|-----------------|------------|--------------------|-------|-------|
| | | | | |
| Open area optic | 02,50 | 05,30 | 10,50 | 05,30 |
| | 02,80 | 05,70 | 11,50 | 05,70 |
| | 03,00 | 05,90 | 12,20 | 05,90 |
| | 04,00 | 04,90 | 12,60 | 04,90 |

| Order code | Description | | | | |
|---------------|--|----------|------|---------------|-----------------------------|
| IP65LEDO3H | i-P65, 3h, open area | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |
| IP65LEDE3H | i-P65, 3h, escape route | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |
| IP65LEDO3HIS | i-P65, 3h, open area Autotest | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |
| IP65LEDE3HIS | i-P65, 3h, escape area Autotest | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |
| IP65LEDEX3H | i-P65, double side exit sign, 3h | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |
| IP65LEDEX3HIS | i-P65, double side exit sign, 3h, Autotest | 2x1W LED | 180' | 4,8V-2Ah NiMh | Maintained / Non-Maintained |

Accessories

| | |
|----------------|---|
| IP65LEG | Single side legend kit, European format |
| IP65LEG7010 | ISO7010 single side legend kit |
| IP65DBLLEG7010 | Double side legend panel kit, ISO7010 |
| IP65DBLLEG | European format double side legend kit |
| IP65CONDHEAT | Low temperature battery heater |

3.4

Outdoor emergency lighting

Alfalux Highbay LED



- 60,000 hour LED options
- Mid bay and high bay options for optimum luminaire efficiency reducing the number of fittings required
- Weatherproof IP65 ingress protection suitable outdoor and wet environment
- Vandal resistant die-cast housing with polycarbonate lens
- Hinged gear tray for ease of installation
- Self-contained, slave, self-test and addressable testing options

Light Source:

13W high power white LED

Materials:

Base - die-cast aluminium, finished in white powder coated paint

Diffuser - Clear polycarbonate

Battery - NiCd

Operation:

Suitable for ceiling mounting

Designed for mounting heights of 6 - 25m

Twin BESA entry drill-outs on rear

20mm conduit entry on each end, with blanking plugs for ease of installation

Direct screw fix option, with fixing holes outside IP65 area for improved ingress protection

Geartray hinged, retained in closed position by single thumb screw

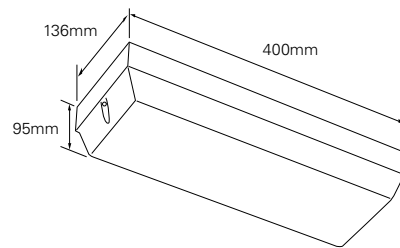
Terminal block, accommodating push-in wiring (solid or stranded cables)

Diffuser retained by allen key security screws

Applications:

Factories, warehouses, schools and hospitals

Designing emergency lighting for areas with high ceilings poses problems. Conventional bulkheads lack sufficient light output and often have inappropriate photometric distribution. Twin spot projectors are equally unlikely to provide the 0.5 lux minimum coverage over the entire core area for open areas as required for compliance with standards. Alfalux high bay provides a compact, simple to install solution suitable for mounting heights up to 25m. The Alfalux LED range is split into two variants with a mid-bay solution for low to medium height mounting and a hi bay solution up to 25m.



| Model | Height (m) | Distance for 1 Lux (open area) | | | | Distance for 0,5 Lux (escape route) | | | |
|--------------------------|------------|--------------------------------|-------|-------|-------|-------------------------------------|-------|-------|-------|
| Mtd/NMtd High Bay | | | | | | | | | |
| | 06,00 | 03,50 | 08,20 | 05,80 | 12,20 | 03,70 | 07,30 | 06,10 | 11,60 |
| | 08,00 | 03,90 | 09,40 | 07,00 | 15,70 | 04,50 | 09,50 | 07,10 | 14,50 |
| | 10,00 | 04,10 | 10,50 | 07,50 | 18,30 | 05,00 | 11,00 | 07,90 | 17,30 |
| | 15,00 | 01,60 | 10,60 | 06,80 | 21,20 | 05,80 | 14,10 | 10,00 | 30,00 |
| | 20,00 | | | | | 03,20 | 14,60 | 10,00 | 30,00 |
| Mtd/NMtd Mid Bay | | | | | | | | | |
| | 02,50 | 04,30 | 09,40 | 01,70 | 09,40 | 05,30 | 10,50 | 01,70 | 10,50 |
| | 02,80 | 03,30 | 09,30 | 01,40 | 09,30 | 05,70 | 11,50 | 01,40 | 11,50 |
| | 03,00 | 03,20 | 03,20 | 01,20 | 09,20 | 05,90 | 12,20 | 01,20 | 12,20 |
| | 04,00 | | | | | 04,90 | 12,50 | 00,67 | 12,50 |

| Order code | Description | | | | |
|-------------|-------------------------------------|-----------|------|---------------|-----------------------------|
| HLLLEDH3H | Alfalux HighBay LED 3H Hi | 1 LED 13W | 180' | 2,1V 4Ah NiCd | Maintained / Non-Maintained |
| HLLLEDH3HIS | Alfalux HighBay LED 3H Autotest Hi | 1 LED 13W | 180' | 2,1V 4Ah NiCd | Maintained / Non-Maintained |
| HLLLEDL3H | Alfalux HighBay LED 3H Low | 1 LED 13W | 180' | 2,1V 4Ah NiCd | Maintained / Non-Maintained |
| HLLLEDL3HIS | Alfalux HighBay LED 3H Autotest Low | 1 LED 13W | 180' | 2,1V 4Ah NiCd | Maintained / Non-Maintained |
| HLLLEDH230 | Alfalux HighBay LED Mains Hi | 1 LED 13W | | | Mains |
| HLLLEDL230 | Alfalux HighBay LED Mains Low | 1 LED 13W | | | Mains |



- Verified light performance
- Weatherproof IP65 and vandal resistant
- High performance, wide spacing distribution
- Choice of standard or high light output circuits
- Time saving first fix base and plug-in gear tray
- Optional large format legend kit

Light Source:

High intensity 3W white LED strip

Materials:

Base gear tray and lens - polycarbonate

Batteries (self-contained versions) - NiCd

Installation Notes

Suitable for ceiling or wall mounting

First fix base with heavy duty connector

Operation:

Maintained and Non-Maintained operation, 3 hour duration

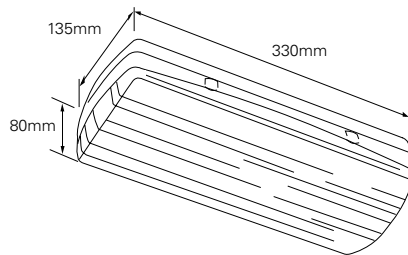
Atlantic Plus has an additional battery cell for enhanced light output

Self-test, Autotest and Mains models available

Applications:

Schools, offices, hotels, restaurants, warehouses

Weatherproof, stylish and robust, the Atlantic family is suitable for practically any application and location. The full range has excellent, high performance spacing characteristics, with a choice in self-contained for high output 3 cell Atlantic Plus, to maximize spacing and reduce the quantity of units required to achieve the latest European illumination requirements. All share the convenience of a first fix base, plug in gear tray and self-locking snap on vandal resistant lens which greatly speeds installation, saving time and cost. The robust, fully polycarbonate construction and IP65 rating provides enhanced protection for even the most vulnerable locations.



Self-adhesive legend ISO7010 format and European format available

| Model | Height (m) | Lux level directly under | Distance for 1 Lux (escape route 2m wide) | | | | Distance for 0,5 Lux (open anti-panic) | | | |
|--------------------------|------------|--------------------------|---|-------|-------|-------|--|-------|-------|-------|
| Atlantic plus LED | | | | | | | | | | |
| | 02,50 | 04,70 | 01,30 | 06,20 | 01,80 | 04,80 | 02,10 | 07,50 | 02,30 | 04,80 |
| | 02,80 | 03,70 | 01,40 | 06,40 | 01,90 | 04,80 | 02,20 | 07,70 | 02,40 | 04,90 |
| | 03,00 | 03,20 | 01,40 | 06,40 | 01,90 | 04,90 | 02,20 | 08,00 | 02,50 | 05,00 |
| | 03,50 | 02,40 | 01,00 | 03,70 | 02,00 | 04,90 | 02,30 | 04,80 | 02,60 | 04,00 |

| Order code | Description | | | | |
|------------|----------------------------|--------------|------|-----------------|-----------------------------|
| ATLM | Atlantic Plus LED | LED strip 3w | 180' | 4,8V-1,6Ah NiCd | Maintained / Non-Maintained |
| ATLMIS | Atlantic Plus LED Autotest | LED strip 3w | 180' | 4,8V-1,6Ah NiCd | Maintained / Non-Maintained |
| ATLS230 | Atlantic Plus LED Mains | LED strip 3w | | | Mains |

Accessories

| | |
|-------------|--|
| LEXSABL | European Format self-adhesive legend kit |
| LEXSABL-ISO | ISO7010 Format self-adhesive legend kit |

3.6

Outdoor emergency lighting

StarIP65



- Low profile
- Unique elegant design
- Easy to install
- Certificated by ENEC Kema Keur
- High temperature batteries Ni-Cd
- LED and Autotest models available

Light Source:

Lamp. 8W fluorescent G5, 2G7 11W, 2G11 18W and 16 2W LED

Materials:

Base and reflector unit in white ABS

Operation:

Maintained, Sustain and Non-Maintained versions

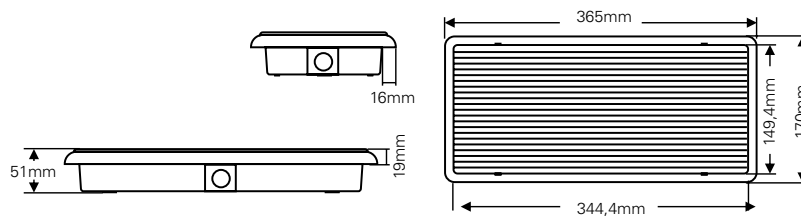
Autonomy from 1h up to 3h

Autotest, Inhibition, Rest Mode, Slave and CBS models available

The StarIP65 family of emergency luminaires has been developed to provide a reliable solution to those installations that are exposed to humidity and weather conditions.

A wide range of products depending on the emergency duration, the functionalism and the type of lamp offers a useful flexibility to the installer, who now has several different choices that fulfil any requirements for effective emergency lighting, from simple residential applications to specific industrial ones.

A full range of accessories are available. These include several legend stickers, a recessed base for wall or flush mounting, and plexiglass signs for deploying the luminaire as an exit sign.



Installation:

Wall and ceiling installations

Panel, double-sided printed

Applications:

Schools, offices, hotels, restaurants, warehouses

O-EL65-LED



StarIP65 is available in LED

O-DS65

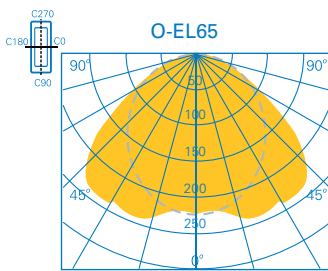


Plastic cone diffuser for using StarIP65 as exit sign

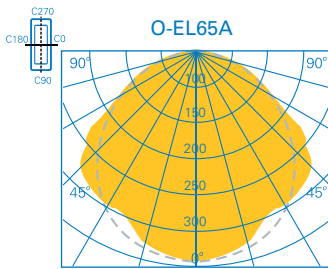
O-EL65RB



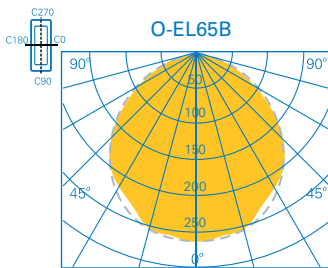
Recessed base for ceiling and wall applications



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|--------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-EL65 | | | | | | | | | |
| | 02,60 | 02,89 | 07,05 | 02,34 | 06,38 | 04,03 | 08,32 | 03,69 | 08,01 |
| | 02,80 | 02,91 | 07,32 | 02,35 | 06,44 | 04,16 | 08,62 | 03,72 | 08,24 |
| | 03,00 | 02,97 | 07,60 | 02,32 | 06,57 | 04,30 | 08,90 | 03,79 | 08,38 |
| | 03,20 | 02,98 | 07,85 | 02,27 | 06,63 | 04,42 | 09,14 | 03,81 | 08,59 |
| | 03,50 | 02,93 | 08,05 | 02,19 | 06,67 | 04,53 | 09,63 | 03,83 | 08,86 |
| 04,00 | 02,68 | 08,28 | 01,95 | 06,59 | 04,64 | 10,35 | 03,80 | 09,20 | |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|---------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-EL65A | | | | | | | | | |
| | 02,60 | 03,39 | 08,13 | 03,10 | 07,74 | 04,57 | 09,90 | 04,37 | 09,42 |
| | 02,80 | 03,46 | 08,37 | 03,21 | 08,00 | 04,68 | 10,23 | 04,50 | 09,70 |
| | 03,00 | 03,50 | 08,57 | 03,24 | 08,26 | 04,78 | 10,56 | 04,63 | 10,07 |
| | 03,20 | 03,55 | 08,91 | 03,31 | 08,46 | 04,95 | 10,87 | 04,73 | 10,36 |
| | 03,50 | 03,62 | 09,29 | 03,33 | 08,64 | 05,14 | 11,20 | 04,82 | 10,78 |
| 04,00 | 03,56 | 09,84 | 03,34 | 09,04 | 05,42 | 11,86 | 05,02 | 11,43 | |



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|---------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| O-EL65B | | | | | | | | | |
| | 02,60 | 03,77 | 09,23 | 03,81 | 09,38 | 05,11 | 11,15 | 05,19 | 11,31 |
| | 02,80 | 03,93 | 09,51 | 03,88 | 09,70 | 05,25 | 11,53 | 05,35 | 11,74 |
| | 03,00 | 04,04 | 09,79 | 03,98 | 09,99 | 05,40 | 11,93 | 05,49 | 12,19 |
| | 03,20 | 04,13 | 10,05 | 04,10 | 10,24 | 05,52 | 12,29 | 05,62 | 12,56 |
| | 03,50 | 04,22 | 10,38 | 04,17 | 10,54 | 05,59 | 12,73 | 05,77 | 13,05 |
| 04,00 | 04,29 | 11,09 | 04,30 | 11,01 | 06,05 | 13,47 | 06,01 | 13,86 | |

| Order code | Description | | | | | |
|----------------|--------------------------------|-------------|--------|------|-----------------|-----------------------------|
| O-EL65-LED | StarIP65 LED 60min | 16 2W LED | 90Lum | 60' | 3,6V-1,7Ah NiCd | Maintained / Non-Maintained |
| O-EL65-LED-3H | StarIP65 LED 180min | 16 2W LED | 90Lum | 180' | 4,8V-2,2Ah NiCd | Maintained / Non-Maintained |
| O-EL65 | StarIP65 8W NM 90min | FL8W G5 | 80Lum | 90' | 2,4V-1,5Ah NiCd | Non-Maintained |
| O-EL65-3H | StarIP65 8W NM 180min | FL8W G5 | 80Lum | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65A | StarIP65 11W NM 90min | PL 11W 2G7 | 130Lum | 90' | 3,6V-1,7Ah NiCd | Non-Maintained |
| O-EL65A-3H | StarIP65 11W NM 180min | PL 11W 2G7 | 200Lum | 180' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65B | StarIP65 18W NM 90min | PL 18W 2G11 | 220Lum | 90' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65M | StarIP65 8W M 90min | FL8W G5 | 80Lum | 90' | 2,4V-1,5Ah NiCd | Maintained |
| O-EL65M-3H | StarIP65 8W M 180min | FL8W G5 | 80Lum | 180' | 6V-1,5Ah NiCd | Maintained |
| O-EL65AM | StarIP65 11W M 90min | PL 11W 2G7 | 200Lum | 90' | 3,6V-1,7Ah NiCd | Maintained |
| O-EL65AM-3H | StarIP65 11W M 180min | PL 11W 2G7 | 200Lum | 180' | 6V-1,5Ah NiCd | Maintained |
| O-EL65BM | StarIP65 18W M 90min | PL 18W 2G11 | 200Lum | 90' | 6V-1,5Ah NiCd | Maintained |
| O-EL65-AT | StarIP65 8W NM Autotest 60min | FL8W G5 | 80Lum | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65A-AT | StarIP65 11W NM Autotest 60min | PL 11W 2G7 | 130Lum | 60' | 3,6V-1,7Ah NiCd | Non-Maintained |
| O-EL65B-AT | StarIP65 18W NM Autotest 60min | PL 11W 2G7 | 200Lum | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65M-AUT-IT | StarIP65 18W M Autotest 60min | PL 11W 2G7 | 200Lum | 60' | 6V-1,5Ah NiCd | Non-Maintained |
| O-EL65 MAINS | StarIP65 8W Mains | FL8W G5 | | | | Mains |
| O-EL65A MAINS | StarIP65 11W Mains | PL 11W 2G7 | | | | Mains |
| O-EL65B MAINS | StarIP65 18W Mains | PL 18W 2G11 | | | | Mains |

Accessories

| | |
|----------|----------------------|
| O-DS65 | Double side diffuser |
| O-EL65RB | Flush mounting base |

3.7

Outdoor emergency lighting

Zetalite 3



- Versatile multi-functional use (escape, open area anti-panic and exit signage)
- Exit sign viewing distance of up to 20 meters
- IP65 ingress protection suitable for indoor and outdoor applications
- Low power consumption reducing cost of ownership
- Configurable as Maintained or Non-Maintained operation

Light Source:

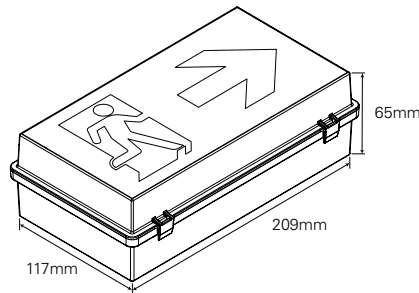
12 x 0.25W white LED
50,000 hour life LED (L80)
for reduced maintenance

Zetalite 3 is the first LED luminaire designed specifically for optimal performance from an LED light source. The result is exceptional performance, stunning uniformity and low energy usage at a traditional 8W bulkhead price point.

Zetalite 3 is suitable for use as an escape route, open area anti-panic emergency lighting and external over door lighting to provide safe way out of buildings. In addition to emergency lighting, Zetalite 3 is also suitable for use as an exit sign with the application of the optional stick on legend kit.

Materials:

Luminaire Body - flame retardant ABS
Luminaire Lens - clear polycarbonate
NiCd battery



Operation:

Maintained mode 5VA/4W
Non-Maintained mode 3.5VA/2.3W

Installation:

Luminaire can be operated in Maintained or Non-Maintained mode
Use either as emergency luminaire or exit sign



Self-adhesive legend ISO7010 format and European format available



Configurable as Maintained or Non-Maintained operation

Applications:

Industrial and all outdoor applications

| Model | Height (m) | Lux level directly under | Distance for 1 Lux (escape route 2m wide) | | | | Distance for 0,5 Lux (open anti-panic) | | | |
|----------|------------|--------------------------|---|-----------|-----------|-----------|--|-----------|-----------|-----------|
| | | | Diagram 1 | Diagram 2 | Diagram 3 | Diagram 4 | Diagram 5 | Diagram 6 | Diagram 7 | Diagram 8 |
| ZEL3ICEL | 02,50 | 04,50 | 02,90 | 07,50 | 02,80 | 07,10 | 03,40 | 08,10 | 02,80 | 07,90 |
| | 02,80 | 03,80 | 02,90 | 07,80 | 02,90 | 07,40 | 03,50 | 08,50 | 02,90 | 08,30 |
| | 03,00 | 03,40 | 03,10 | 08,00 | 03,00 | 07,60 | 03,50 | 08,70 | 03,00 | 08,60 |
| | 04,00 | 02,00 | 02,60 | 08,50 | 02,60 | 08,20 | 03,40 | 09,80 | 02,60 | 09,60 |
| | 05,00 | 01,30 | 02,00 | 08,10 | 02,00 | 08,00 | 03,40 | 10,50 | 02,00 | 10,40 |

| Order code | Description | Light Source | Life | Battery | Operation |
|--------------------|--------------------------|----------------|------|---------------|-----------------------------|
| ZEL3ICEL | Zeta III 3Hr | 12 x 0,25W LED | 180' | 2,4V-4Ah NiCd | Maintained / Non-Maintained |
| Accessories | | | | | |
| ZELLEG | Euro Picto legend kit | | | | |
| ZELLEG-ISO | ISO7010 Picto legend kit | | | | |



- Registered with verified light performance
- Easy to install, with snap-on lens
- Exit legend kit available

Light Source:

8WT5 fluorescent
3500°K G5 cap
3W LED strip

Materials:

Body and gear cover
polycarbonate, white finish
Lens clear polycarbonate
with linear prisms

Operation:

Maintained and Non-
Maintained operation,
3 hour duration
Autotest models available

Installation:

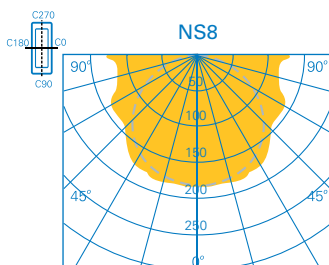
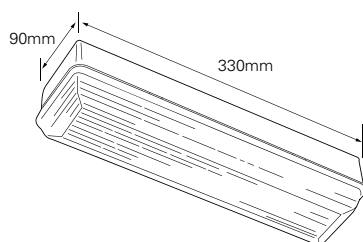
Suitable for ceiling or wall
mounting
BESA entry drilling
template on rear
Cable entries rear and end
Lens snap-fits into position

Applications:

Hotels, cinemas, theaters,
schools and hospitals

Suitable for both exterior and interior applications, New Safe 8 represents excellent value for money. Full third party approvals, via the BSI Kitemark and ICEL registration schemes, provide complete peace of mind that quality has not been compromised.

The luminaire is easy to install and is available with the latest stand alone or central addressable self-testing functionality as an option. New Safe 8 has an attractive, unobtrusive and compact profile that is suitable for a wide variety of applications, from offices and hotels to factory units. A semi-recessing bezel accessory is available to further enhance the appearance of this popular luminaire.



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|-------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| NS8 | | | | | | | | | |
| | 02,60 | 02,42 | 07,16 | 02,28 | 06,26 | 04,08 | 09,78 | 03,63 | 08,07 |
| | 03,00 | 02,42 | 07,18 | 02,20 | 06,43 | 04,09 | 10,03 | 03,72 | 08,47 |
| | 04,00 | 01,85 | 06,88 | 01,62 | 06,36 | 03,94 | 10,20 | 03,68 | 09,01 |






| Order code | Description | | | | | |
|--------------------|--|--------|------|------|---------------|----------------|
| NS8 | New Safe 8, Non-Maintained, 3h | FL8WG5 | 80Lm | 180' | 2,4V-4Ah NiCd | Non-Maintained |
| NS8M | New Safe 8, Maintained, 3h | FL8WG5 | 80Lm | 180' | 2,4V-4Ah NiCd | Maintained |
| Accessories | | | | | | |
| LEXSAS | European format self adhesive legend kit | | | | | |





| | | |
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| 4.4 | EL40 | 65 |
| 4.5 | Conversion Kit | 66 |

Beam lights & conversion kits

| | Indoor | Recessed | Outdoor | Ni-Cd | Lead Acid | Ni-Mh | Maintained | Non-Maintained | Autotest | Hospitals | Hotels | Cinemas/Theaters | Schools | Offices | Industrial | Warehouse |
|---|--------------|----------|---------|-------|-----------|-----------|------------|----------------|--------------|-----------|--------|------------------|---------|---------|------------|-----------|
| | Installation | | Battery | | | Operation | | | Applications | | | | | | | |
| Planete 2000  | ● | ● | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | ● |
| Beamlite  | ● | ● | | | ● | | ● | | | ● | ● | ● | ● | | ● | ● |
| Gemini Junior  | ● | ● | | | ● | | ● | | | ● | ● | ● | ● | | ● | ● |
| EL40  | ● | ● | | | ● | | ● | | | ● | ● | ● | ● | | ● | ● |
| Conversion Kit  | ● | | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● |

The information given in this brochure is accurate at the time of compilation (errors and omissions excepted), however due to Eaton philosophy of constant product development we reserve the right to change specifications without prior notice.

4.1

Beam lights & conversion kits

Planete 2000

4



- Optical polycarbonate food industry use
- Minimal Environmental impact
- Low consumption
- Automatic tests
- Large LED: visibility / speed reading
- Multiple cable entries
- Easy installation

Light Source:

LED

Intergrated light diffuser

No relamping

Low consumption

Materials:

Optics from polycarbonate

5 cables entries (IP42 model) and 3 cable entries (IP65 model)

Planete 2000 has been designed to provide the highest reliability for antipanic lighting. Equipped with 2 LED lamp heads, it can provide a light output of 2000 lumens, making Planete 2000 suitable for all applications of general emergency lighting.

It is suitable for warehoused and industrial use and is ideal for areas that require anti-panic light where a large amount of people may be such as in cinemas, shopping malls, stadiums and airports.

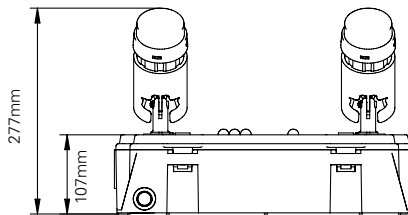
The high intensity light source provides efficient illumination of long, narrow escape routes, but can also provide general coverage of a specific area when positioned at any degree specified to each other, in locations where higher illumination is required.

Planete 2000 is equipped with a sophisticated technology with auto test and self diagnostics for the lamps and battery, keeping the cost of the unit low.

It is available in IP65 certified casing for all outdoor applications.

Applications:

Cinemas, theatres, factories, warehouses, shopping malls, industrial units and stadiums





Autotest diagnostics in all models



Weatherproof model available



LED technology of 2000 lumens light output

| Order code | Description |  |  |  |  |  |
|------------|-------------------|---|---|---|---|---|
| LUM17010 | PLANETE2000, IP42 | LED | 2.000 Lm | 60' | 32 x1,2V - 1,5Ah | Non-Maintained |
| LUM17011 | PLANETE2000, IP65 | LED | 2.000 Lm | 60' | 32 x1,2V - 1,5Ah | Non-Maintained |



- High light output
- Robust construction with a long durable life
- Hinged front access door eases maintenance
- Multi-directional lamp heads for on site flexibility
- Weatherproof IP55 option
- Easy to install, with snap-on lens

Light Source:

12V, 21W tungsten BA15d cap

Materials:

Body IP20 sheet steel, powder coated in white/black finish

Body IP55 sheet steel, powder coated in grey finish

Lamp heads polycarbonate, finished black with clear front lens

Installation:

Suitable for wall mounting

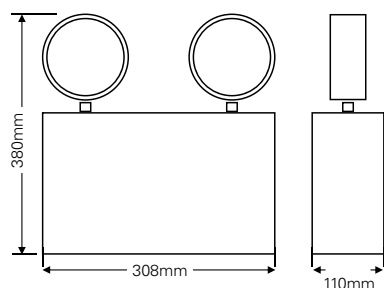
Cable entry on rear and top

Direct screw fixed with keyhole slots

Weatherproof version drilled on site for fixing and entry holes

Lamp heads swivel and tilt, locked in position by screws

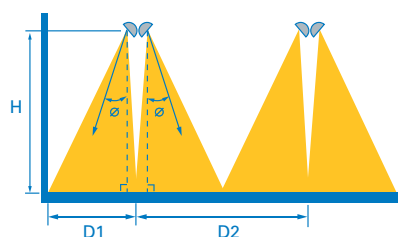
Beamlite can be used for a wide variety of interior emergency lighting applications, particularly for warehouses and high ceiling commercial areas. The high intensity light source provides efficient illumination of long, narrow escape routes, but can also provide general coverage of a specific area when positioned at 90° to each other, in locations where higher illumination is required. Beamlite keyhole slot screw fixing holes and a hinged front access door providing ease of installation, whilst the standard twin LED's give separate early warning of failure of each lamp, in addition to mains and charging status.



Applications:

Cinemas, theatres, factories, warehouses, shopping malls, industrial units and stadiums

BEN3



| Model | Height (m) | Angle | D1(m) | D2(m) |
|--------------|------------|-------|-------|-------|
| BEN3 (2X21W) | | | | |
| | 04,00 | 35° | 04,30 | 09,30 |
| | 06,00 | 15° | 03,10 | 08,00 |
| | 08,00 | 12° | 03,40 | 07,30 |
| | 10,00 | 11° | 03,70 | 08,10 |
| | 15,00 | 8° | 03,50 | 08,90 |

Notes:

1. Spacing achieves 1 lux min on centre line of escape route
2. Aiming angle at 4m height restricted by glare cut-off restriction

| Order code | Description | | | | | |
|------------|-----------------------|------------|--------|------|------------------|----------------|
| BEN3 | Beamlite, 2x21W, IP20 | 12V, 2x21W | 250 Lm | 180' | Lead 2x12V-7,2Ah | Non-Maintained |
| BEN3W | Beamlite, 2x21W, IP55 | 12V, 2x21W | 250 Lm | 180' | Lead 2x12V-7,2Ah | Non-Maintained |

4.3

Beam lights & conversion kits

Gemini Junior



4

- Competitive beam projector suits most budgets
- Easy to install keeps cost low
- Hinged front access door eases maintenance
- Top or side mounting of lamp heads
- Multi-directional lamp heads for on site flexibility
- Supplied with lamps

Light Source:

12V, 18W tungsten
- wedge base

Materials:

Body - Sheet steel, powder coated in white finish

Lamp heads - Polycarbonate, finished white with clear front lens

Batteries - Recombination lead acid, maintenance free

Installation:

Suitable for wall mounting

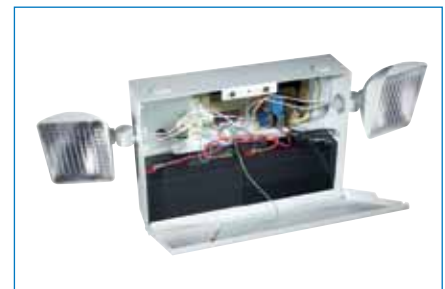
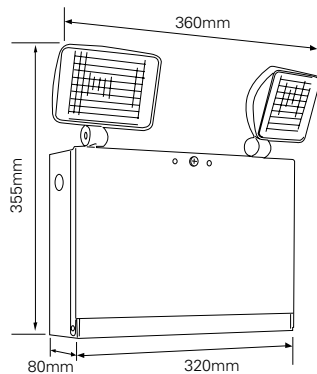
Cable entries on rear. Side and top cable entries, dependant on location of lamp heads

Direct screw fixed with keyhole slots

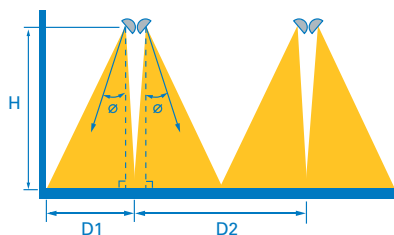
Lamp heads can be mounted on top or side of enclosure

Lamp heads swivel and tilt, locked in position by screws

Combining flexibility and ease of installation, Gemini Junior represents exceptional value for money. This competitive beam projector is suitable for a wide variety of installations, with a choice of top or side mounting of the lamp heads, with multi-directional swivel and tilt facility ensuring that exactly the right positioning is achieved. Internal components are accessed via the hinged front cover, permitting easy installation and maintenance. Twin indicator LEDs provide peace of mind, covering individual lamp failure in addition to mains and charging status. When cost is paramount, Gemini Junior is an excellent choice for factory and high ceiling applications.



Side mounted lamp heads and hinged access door



| Model | Height (m) | Angle | D1(m) | D2(m) |
|-------|------------|-------|-------|-------|
| | | | | |
| | 04,00 | 40° | 05,90 | 12,30 |
| | 06,00 | 18° | 04,20 | 08,90 |
| | 08,00 | 13° | 04,40 | 08,80 |
| | 10,00 | 09° | 04,20 | 09,20 |

Notes:

1. Spacing achieves 1 lux min on centre line of escape route
2. Aiming angle at 4m height restricted by glare cut-off restriction
3. K factor of 0.55 and S factor of 0.8 have been applied

| Order code | Description | | | | | |
|----------------|---------------|-------|--------|------|--------------------|----------------|
| GMRJ2183230240 | Gemini Junior | 2x18W | 500 Lm | 180° | Lead 2x12V - 7,2Ah | Non-Maintained |



- Easy to install
- Portable
- Multi-directional lamp heads
- Lead battery
- Test button

Light Source:

12V, 18W

Materials:

Base and reflector unit in white ABS

Clear polycarbonate diffuser

Installation:

Suitable for wall mounting

Cable entry on rear and top

Direct screw fixed with keyhole slots

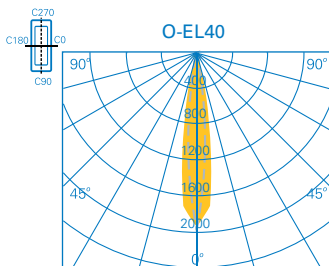
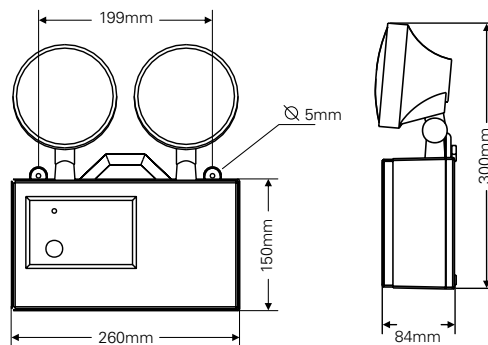
Lamp heads swivel and tilt, locked in position by screws

Applications:

Cinemas, theatres, warehouses and shopping malls

Smart design to provide a fully portable emergency beam light that suits a wide variety of applications. Using a pair of adjustable beam lights gives the ability to offer a high light output to even long narrow escape routes.

A built-in test button allows the user to directly check how the luminaire is functioning while at the same time offers the user the choice to disable one of the beams in order to double luminaire's emergency duration.



| Model | Height (m) | Distance for 1 Lux | | | | Distance for 0,5 Lux | | | |
|--------|------------|--------------------|-------|-------|-------|----------------------|-------|-------|-------|
| | | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| O-EL40 | 02,60 | 02,60 | 06,95 | 02,34 | 05,58 | 03,98 | 09,12 | 03,29 | 09,38 |
| | 02,80 | 02,61 | 06,92 | 02,43 | 05,60 | 03,96 | 09,36 | 03,30 | 09,36 |
| | 03,00 | 02,63 | 06,90 | 02,61 | 05,79 | 03,95 | 09,60 | 03,40 | 07,44 |
| | 03,20 | 02,69 | 06,91 | 02,69 | 06,14 | 03,96 | 09,63 | 03,57 | 07,36 |
| | 03,50 | 02,40 | 07,25 | 02,83 | 06,46 | 04,12 | 10,00 | 03,73 | 07,67 |
| | 04,00 | 02,40 | 07,46 | 01,54 | 06,95 | 04,23 | 09,77 | 03,98 | 08,00 |

| Order code | Description | | | | | |
|------------|-----------------|-------|--------|-----|--------------------|----------------|
| O-EL40 | Beamlite, 2x18W | 2x18W | 236 Lm | 90° | Lead 2x12V - 7,2Ah | Non-Maintained |

4.5

Beam lights & conversion kits

Conversion Kit



- Easy to install
- Certificated by ENEC Kema Keur EN61347 and EN60925-2-4
- Compatible with T5 fluorescent lamps
- Suitable for electronic and electromagnetic ballasts
- LED indicator
- Charging time of 24 hours
- High temperature batteries Ni-Cd
- Fully compatible with high frequency circuits
- Extensive range, covering a diverse choice of fluorescent lamps
- Low profile design for easy integration

Light Source:

Series compatible with most fluorescent lamps (linear and compact)

Materials:

Body white ABS

Comes with LED status to be fixed to the body appliance

Batteries sealed nickel cadmium

Operation:

Non-Maintained

Autonomy of 1h and 3h

Installation:

Suitable for fitting integral to host luminaire, where thermal and electro-magnetic test results permit

Remote mounting of complete kit, or of batteries only.

Supplied complete with low profile end caps for mounting batteries and LED with 1000mm lead

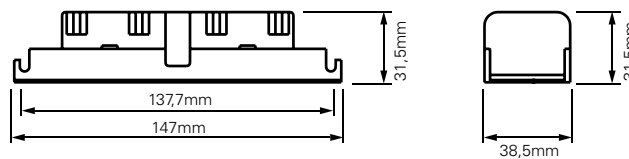
Applications:

Universities, supermarkets, warehouses, offices and where emergency lighting is required.

Lighting of escape routes and open areas.

This conversion kit is for the transformation of fluorescent lamp mains lighting apparatus to perform as emergency lighting in an emergency situation. Solutions like these are ideal for large venues such as universities, supermarkets, warehouses, offices and open spaces which are integrated with the existing ordinary lighting. The latest version of conversion kits delivers optimum performance for a diverse choice of fluorescence lamp types and wattages. Low profile modules and unique chamfered battery end caps easing integration into swallow luminaries, are standard throughout the whole range of the conversion kits particularly useful in the newest ranges of T5 lamp.

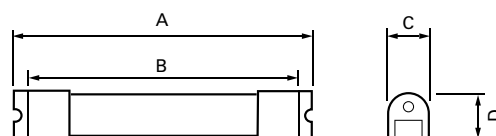
Conversion kit body



Technical specification

| | |
|----------------------------------|------------------------------|
| System Mode | Maintained or Non-Maintained |
| Normal light output (Maintained) | Full rated output of lamp |
| Recharge period | 24 hours |
| Charging monitor | Green LED with cable 1m |
| Mains input voltage | 230V ac / 50Hz |
| Power Consumption | Max 3VA@1H, 5VA@3H |
| Temperature ratings | Module 50oC - Battery 50oC |
| Dimensions L x W x H | 148x39x31mm |
| Fixing centers of module | 137-139mm |
| Certified to | EN 61347-2-7 & EN60925 |




Battery



| Type of battery | A | B | C | D |
|-----------------|-----|-----|----|----|
| 3,6 1,5Ah | 155 | 145 | 26 | 26 |
| 3,6 4,0Ah | 210 | 200 | 35 | 35 |
| 4,8 1,5Ah | 200 | 190 | 26 | 26 |
| 4,8 4,0Ah | 280 | 270 | 35 | 35 |
| 6,0 1,5Ah | 245 | 235 | 26 | 26 |
| 6,0 4,0Ah | 340 | 330 | 35 | 35 |

| Lamp | Battery | BK1 BK3 | | max 36W | | CK1 CK3 | | max 58W | | DK1 DK3 | | max 70W | | TK1 | | max 80W | |
|---------|-------------------|---------------------|------|----------------------|----------------------------------|---------------------|------|----------------------|----------------------------------|------------------|----|----------------------|----------------------------------|------------------|------|----------------------|----------------------------------|
| | | 3,6V/1,7Ah 3,6V/4Ah | | Discharge Current mA | Emergency Ballast Lumen Factor % | 4,8V/1,7Ah 4,8V/4Ah | | Discharge Current mA | Emergency Ballast Lumen Factor % | 6V/1,7Ah 6V/4Ah | | Discharge Current mA | Emergency Ballast Lumen Factor % | 4,8V/4Ah | | Discharge Current mA | Emergency Ballast Lumen Factor % |
| Watts | Diameter / Holder | Minimum Duration | | | | Minimum Duration | | | | Minimum Duration | | | | Minimum Duration | | | |
| TLD 18W | T8-60cm | 1h | 3h | 700 | 11 | 2h | 3h | 600 | 12 | 2h | 3h | 510 | 12 | - | - | - | |
| TLD 30W | T8-90cm | 1h | 3h | 990 | 9 | 1,5h | 3h | 790 | 10 | 2h | 3h | 700 | 10 | - | - | - | |
| TLD 36W | T8-120cm | 1h | 3h | 1010 | 8 | 1h | 3h | 810 | 9 | 1,5h | 3h | 760 | 13 | - | - | - | |
| TLD 58W | T8-150cm | - | - | - | - | 1h | 3h | 990 | 7,5 | 1h | 3h | 810 | 9 | - | - | - | |
| TLD 70W | T8-180cm | - | - | - | - | - | - | - | - | 1h | 3h | 1040 | 6 | - | - | - | |
| TL5 24W | T5-55cm | 1h | 3h | 1000 | 7 | 1,5h | 3h | 750 | 7 | 2h | 3h | 600 | 7 | 2h | 1200 | 22 | |
| TL5 39W | T5-85cm | - | 2h | 1350 | 7 | - | 2,5h | 1050 | 7 | 1,5h | 3h | 820 | 7 | 1,5h | 1720 | 18 | |
| TL5 54W | T5-115cm | - | - | - | - | - | 2,5h | 1150 | 5 | 1h | 3h | 950 | 6 | 1h | 2050 | 16 | |
| TL5 80W | T5-145cm | - | - | - | - | - | - | - | - | - | - | - | - | 1h | 2400 | 12 | |
| PLS 11W | 2G7 | 1,5h | 3h | 730 | 11 | 2h | 3h | 600 | 15 | 2,5h | 3h | 450 | 16 | - | - | - | |
| PLC 13W | G24q-1 | 1,5h | 3h | 780 | 15 | 2h | 3h | 624 | 19 | 2h | 3h | 500 | 20 | - | - | - | |
| PLC 18W | G24q-2 | 1,5h | 3h | 870 | 12 | 1,5h | 3h | 725 | 16 | 2h | 3h | 580 | 18 | - | - | - | |
| PLC 26W | G24q-3 | 1h | 3h | 920 | 10 | 1,5h | 3h | 830 | 13 | 2h | 3h | 690 | 15 | - | - | - | |
| PLL 18W | 2G11 | 2h | 3h | 670 | 12 | 2h | 3h | 540 | 14 | 2,5h | 3h | 430 | 15 | - | - | - | |
| PLL 24W | 2G11 | 1h | 3h | 885 | 11 | 2h | 3h | 680 | 12 | 2h | 3h | 550 | 13 | - | - | - | |
| PLL 36W | 2G11 | - | 2,5h | 1021 | 9 | 1,5h | 3h | 820 | 10 | 2h | 3h | 690 | 11 | - | - | - | |
| PLL 40W | 2G11 | - | - | - | - | 1h | 3h | 950 | 7 | 1,5h | 3h | 760 | 8 | - | - | - | |
| PLL 55W | 2G11 | - | - | - | - | - | - | - | - | 1h | 3h | 920 | 7 | - | - | - | |
| 2D 16W | GR10q | 1,5h | 3h | 860 | 12 | 2h | 3h | 670 | 15 | 2h | 3h | 540 | 16 | - | - | - | |
| 2D 28W | GR10q | 1h | 3h | 950 | 9 | 1,5h | 3h | 730 | 11 | 2h | 3h | 680 | 13 | - | - | - | |
| 2D 38W | GR10q | - | - | - | - | 1,5h | 3h | 833 | 8 | 1,5h | 3h | 750 | 9 | - | - | - | |

Note: Make sure that the terminals on the module cannot be touched when changing the lamp or starter by shrouding them with earthed metal or thermoplastic insulation kit

| Order code | Description |  |  |  |
|------------|---------------------|---|---|---|
| O-BK1 | Conversion kit, BK1 | up to 36W | 60' | 3,6V-1,5Ah |
| O-CK1 | Conversion kit, CK1 | up to 58W | 60' | 4,8V-1,5Ah |
| O-DK1 | Conversion kit, DK1 | up to 70W | 60' | 6,0V-1,5Ah |
| O-TK1 | Conversion kit, TK1 | up to 80W | 60' | 4,8V-1,5Ah |
| O-BK3 | Conversion kit, BK3 | up to 36W | 180' | 3,6V-1,5Ah |
| O-CK3 | Conversion kit, CK3 | up to 58W | 180' | 4,8V-1,5Ah |
| O-DK3 | Conversion kit, DK3 | up to 70W | 180' | 6,0V-1,5Ah |

Anti-Panic (Open) - Area Lighting
The part of emergency escape lighting provided to avoid panic and provide illumination allowing people to reach a place where an escape route can be identified.

Ballast - The component that controls the operation of a lamp from a specified low or high voltage AC or DC source (typically between 12 and 240 volts).

Ballast Lumen Factor - The ratio of the light output of the lamp in emergency operation compared with the light output of the same lamp operated by a reference ballast at its rated voltage and frequency.

Battery - Secondary cells providing the source of power during mains failure.

Battery Capacity - The discharge capability of a battery, being a product of average current and time, expressed as Ampere-hours (Ah) over a stated duration. Note: At fast rates of discharge the full ampere hour capacity of the battery is not available.

Candela (cd) - The unit of luminous intensity.

Central Battery System - A system in which the batteries for a number of emergency luminaires are housed in one location. Usually for all the emergency luminaires on one lighting sub-circuit, but sometimes for all emergency luminaires in a complete building.

Colour Temperature (°K) - All materials emit light when heated (e.g. metal glows red through to white as the temperature increase). The temperature to which a full radiator (or 'black body') would be heated to achieve the same chromaticity (colour quality) of the light source being considered, defines the correlated colour temperature of the lamp, quoted in degrees Kelvin.

Combined Emergency

Luminaire - A luminaire containing two or more lamps, at least one of which is energised from the emergency supply and the remainder from the normal supply (If the emergency lamp is only illuminated in a mains failure condition this luminaire is regarded for Fire Authority approval as Non-Maintained).

Design Voltage - The voltage declared by the manufacturer to which all the ballast characteristics are related.

Discomfort Glare - Glare which causes visual discomfort.

Emergency Lighting - The lighting provided for use when the supply to the normal mains lighting installation fails.

Escape Route Lighting - Lighting provided to ensure that the means of escape can be effectively identified and safely used when a location is occupied.

Emergency Exit - The way out of a building, which is intended to be used at any time whilst the premises are occupied.

'F' Mark - Mark indicating that a luminaire is suitable for mounting on to normally combustible surfaces.

Final Exit - The terminal point of an escape route, beyond which point persons are no longer in danger from fire or any other hazard requiring evacuation of the building.

Glare - The discomfort or disability that occurs when there is an excessive change of luminance in the field of vision.

High Risk Task Area - Lighting Emergency lighting provided to ensure the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises.

Housing 850°C - Test Mandatory test for emergency luminaires used on escape routes, to establish that materials do not burn at a given temperature. Self-extinguishing grades of plastic must be used, or alternatively glass and/or steel.

Illuminance (lux) - The luminous flux density at a surface, indicated in lm/m^2 .

Ingress Protection (IP) - Number classification of the degree of protection a luminaire provides against the entry of solid foreign bodies and moisture (See page 90 for classification).

Isolux Diagram - Diagram showing contours of equal illuminance

K Factor - The ratio of the light output from the lamp in its worst condition, normally at end of discharge and with any cable volt drop, to the output at nominal voltage.

Light Output Ratio (LOR) - The ratio of the total light output of a luminaire, compared with total lamp light output.

Lumen (lm) - The unit of luminous flux used to describe the quantity of light emitted by a source or received by a surface.

Luminaire - Apparatus which distribute the light given by a lamp or lamps, including all the items necessary for fixing and protecting the lamps and for connecting them to the electrical supply.

Luminance (cd/m^2) - The perceived brightness of a surface, measured by the intensity of light emitted or reflected from a surface area in a given direction.

Luminous Efficacy (lm/W) - The ratio of light emitted, to the power consumed by a lamp.

Luminous Flux (lm) - The total light emitted by a lamp, measured in lumens.

Luminous Intensity (cd) - The power of a light source or illuminated surface to emit light in a given direction, measured in candela.

Lux - The unit of illuminance, equal to one lumen per square metre (lm/m^2)

Maintained Emergency

Luminaire - A luminaire containing one or more lamps, all of which operate from the normal supply or from the emergency supply at all material times.

Mounting Height - The vertical distance between the luminaire and the working plane. Note: For emergency lighting the floor is always taken to be the working plane.

Non-Maintained Emergency - Luminaire A luminaire containing one or more lamps, which operate from the emergency supply only upon failure of the normal mains supply.

Rated Duration - The manufacturers declared duration for a battery operated emergency lighting unit, specifying the time for which it will operate after mains failure. This may be for any reasonable period, but is normally one or three hours (when fully charged).

Rated Load - The maximum load which may be connected to the system which will be supplied for the rated duration.

Re-charge Period - The time necessary for the batteries to regain sufficient capacity to achieve their rated duration.

Self Contained Emergency

Luminaire - A luminaire or sign providing Maintained or Non-Maintained emergency lighting, in which all the elements such as battery, the lamp and the control unit are contained within the housing or within 1 metre of the housing.

Single Point Luminaire - See self-contained emergency luminaire.

Slave Luminaire - An emergency luminaire without its own batteries, which is designed to work in conjunction with a central battery system.

Spacing to Height Ratio (SHR) - The ratio of the distance between luminaire centres in relation to their height above the working plane. Maximum spacing to height ratio (SHR_{max}) is the maximum spacing of an array of luminaires that will achieve a ratio of min/max direct illuminance of at least 0.7.

Standby Lighting - The part of emergency lighting which may be provided to enable normal activities to continue in the event of a mains supply failure.

Sustained Emergency Luminaire - See combined emergency luminaire.

Uniformity - The ratio between minimum illuminance (or luminance) to average illuminance (or luminance), usually measured at the working plane.

Lined writing area consisting of 40 horizontal dotted lines.

A series of 30 horizontal dotted lines spanning the width of the page, providing a template for text entry.

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