

Emergency Lighting – Central Power Systems



Powering Business Worldwide

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Emergency Lighting – Central Power Systems

Supply and test systems from Eaton ensure a safe and dependable energy supply, in addition to monitoring the connected exit sign luminaires and escape luminaires.

EATON offers a wide range of emergency exit and safety luminaires. With their CEWA GUARD and STAR technology available as standard they offer the basis for minimized inspection and maintenance costs. Innovative lighting technology combined with highly efficient LEDs ensure up to 70% less power consumption and significantly lower maintenance costs with a service life up to 50,000 hours.

The high performance VisionGuard and CGVision visualization software controls and monitors even large-scale safety lighting systems with maximum reliability. Up to 500 individual emergency lighting systems with over one million light points can be kept in view on a monitor in the control room. With larger buildings in particular such as airports, universities, museums, sports centres and industrial facilities, the software is the ideal partner for optimal and therefore also economical operation of the complete safety lighting.

A long history of expertise in the life safety industry with a commitment to deliver market-leading solutions that protect people and property.

Heritage of innovation.

CEAG
Cooper
Menvier
JSB
Luminox



| | |
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When it comes to protecting life and property, there's no room to compromise.

In a constantly changing world, owners and operators of commercial and industrial buildings must keep up-to-date with the changing nature of risk. Safe evacuation is becoming more challenging due to a number of external influences.

What are the risks businesses face today ?

The ongoing risk of fire

Over a third of businesses never resume operations after a major fire- losing orders, contracts, and key employees. This results in lost jobs and services to the community.

Non-traditional threats

Power outages, terrorism and domestic extremism are a rising cause for evacuation. These risks demand a different approach when planning for safe evacuation. High-profile terrorist attacks can shape regulation.

Each emergency lighting system is important, it protects life and health.

- Escape route marking during regular power supply: Evacuation of a building due to an accident, a bomb threat etc.
- During blackout: Light supply
 - Showing the directions out of the building
 - Illumination of the escape route to guarantee a safe evacuation

Our products meet your challenges

Innovation, tests and compliance for more reliability

- We constantly innovate for contemporary design and technologies
- Customers light engineering requirements are fully tested at an in-house lighting laboratory. We also expose newly developed products to extreme conditions and life cycle testing
- As a commitment to deliver high quality for all products and employees, Eaton's emergency lighting manufacturing facilities are certified ISO 9001
- Most of our products and complete systems are 3rd party certified

Eco-friendly luminaires all along their life cycle

Our manufacturing plants are ISO14001 & ISO 9001 certified. We are committed to favour the choice of recycled materials and reduce weight and volume of products and packaging. Our LED luminaires are low consumption, prevent from relamping operations as there life time goes up to 50.000 hours.

A large portfolio for a wide range of applications

- Exit sign, escape route, anti-panic luminaires
- Aesthetic solutions
- Indoor or outdoor
- High output
- Special Luminaire solutions: Explosion protected, high ingress protection, Low temperature, high light output, narrow-beam lenses for high bay installations, HACCP suitable
- Central Battery Systems: With AC/DC or AC/AC output
- Central Visualization



References

Main station, Berlin

The projects listed below are only a selection of the locations and applications where Eaton emergency lighting solutions are installed. A more detailed reference list is available on our website at www.ceag.de.

Hotels

- Radisson blu Hotel, Germany
- Ritz-Carlton Hotel, Germany
- Atlantic Sail City Hotel, Germany
- Ramada Resort Hotel, Hungary
- Atlantis the Palm Hotel, Dubai

Airports

- Frankfurt, Germany
- Cologne, Germany
- Schiphol, Netherlands
- Bangkok, Thailand
- Dubai, United Arab Emirates

High-rise buildings

- Tower 115, Slovakia
- Etisalat Tower, Abu Dhabi
- Capital Gate Tower, Abu Dhabi
- Burj Khalifa Tower, Dubai
- Burj Al Arab, Dubai

Industry

- Dr. Oetker, Germany
- EADS Airbus, Germany
- Bayer, Germany
- BP, Norway
- Dubai Cable Company, Abu Dhabi

Schools and universities

- Technical University Berlin, Germany
- RWTH Aachen, Germany
- University Hamburg, Germany
- University Zürich, Switzerland
- American University Sharjah, Sharjah

Sport venues

- Fritz-Walter-Stadium, Germany
- Stadium Borussia-Park, Germany
- Rhein-Neckar-Arena, Germany
- Karaiskakis Stadium, Greece
- National Aquatics Center, China

Commercial centres / retail

- CentrO, Germany
- Limbecker Platz, Germany
- Potsdamer Platz Arkaden, Germany
- Montedoro Freetime, Italy
- Dubai Mall, Dubai

Assembly halls / rooms

- German Bundestag, Germany
- Museums Island, Germany
- National Library Leipzig, Germany
- Town Hall Sydney, Australia
- National Convention Centre, Qatar

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Explanation of the Icons for product features

1


























In order to help you to find solutions you need, we created a set of icons presented on each product page of this catalogue. This way, you will be able to identify the main characteristics of the product in one quick look.

Please note that most of our emergency lighting luminaires are also available as self-contained luminaires.

Please, contact us for further information.

Expanation of the Icons for product features

| | | | | | | | |
|--|---|---|-------------------------------------|---|--|---|--|
|  | Viewing distance, here: 20 m |  | Protection class 2 |  | ENEC certified |  | With STAR technology |
|  | Light output, here: single-sided |  | Protection class 3 |  | Suitable for outdoor use |  | With STAR+ technology |
|  | LED light source |  | According to DIN 4844 |  | Degree of protection, here: IP20 |  | With CGLine technology |
|  | Compact fluorescent lamp, here: 10 W/TC-DEL |  | According to EN 1838 |  | Degree of mechanical impact resistance, here: IK10 |  | With CGLine+ technology |
|  | Fluorescent lamp, here: 8 W/T16 |  | For use in food processing industry |  | Luminaire with limited surface temperature |  | Suitable for use in low temperature down to -40 °C |
|  | Protection class 1 |  | Explosion protected |  | With Lithium-ion battery | | |

Emergency Lighting – Central Power Systems

Requirements to escape sign luminaires

1

In dangerous situations, EATON escape sign luminaires reliably show the right way

The background in terms of standards for the optical requirements of escape sign luminaires is specified in Europe with EN 1838. For emergency operation, this standard defines the minimal requirement for brightness of 2 cd/m² in the green area of the symbol and specific uniformity and contrast within and between the luminous surfaces.

For mains operation the DIN 4844-1 standard applies. Here a luminance of 500 cd/m² for the white surface is stipulated.

The many times higher level of luminance is intended to enable good visibility of the emergency exits even with bright surroundings (with daylight, general lighting) and with the existence of other luminous signs for advertising or information, for example for routing systems in buildings.

After all, not all emergencies are connected with a power failure, for example in cases of evacuation of a building resulting from accidents or bomb threats.

Photometric requirements on the exit signs

DIN 4844-1 (2012-06):

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

for use in light surroundings.

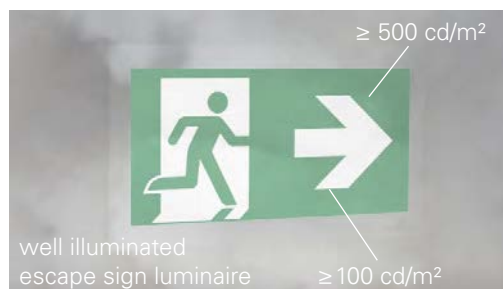
ISO 30061 (2007):

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

in case of smoke development. The luminaires should be suspended by at least 0.5 m.



badly illuminated escape sign luminaire



well illuminated escape sign luminaire



Emergency Lighting – Central Power Systems

8 steps to compliance

1 Eight ways to ensure compliance with emergency lighting regulations

Emergency lighting can be a lifeline for people trying to find their way out of a building if main lighting fails. This is particularly important in the event of a blackout, fire, earthquake, flood, etc.

To ensure that emergency lighting is fit for purpose, European standards and local regulations bring all aspects of safety to save people. To ensure the quality, reliability and conformity of your installation we recommend that the emergency lighting used is covered by a third part certification. So how can you be sure your emergency lighting is compliant?



1 Carry out a risk assessment

If you have employees, workers or any public visitors in your building you may be required by law, under the European and local regulations, to carry out a safety risk assessment and keep a written record of the assessment. This legislation exists to ensure that the correct emergency lighting for the safety of people is installed to cover any identifiable risks and that it will correctly operate in the event of a failure of the main lighting supply. These regulations provide specifiers with information regarding areas that need emergency lighting such as: the minimum levels of illumination, duration, maximum brightness to prevent glare, and any points of emphasis which require particular consideration. Failure to comply with these stipulations not only puts lives at risk and raises the possibility of prosecution, but could also invalidate insurance policies.

Know what you are buying

Given that emergency lighting will never be used on an everyday basis, it can be tempting to opt for cheaper luminaires. These are often supplied from distant sources and will pass through numerous intermediaries before installation. This can lead to confusion over the precise specifications and the claims made by manufacturers and sellers, which may not be independently verified. Buying cheaply may also turn out to be a false economy since lower-quality components can shorten the lifespan of batteries and lamps; they may also have inferior optics, resulting in an increased number of fittings being required to meet the minimum emergency lighting levels. As this is a life safety product you do need to consider whether a cheaper option might be more vulnerable to failure.

Look for third-party certification

3. The most reliable way to ensure your emergency lighting is fit for purpose is to buy products approved by third-party certification schemes such as ENEC approved testing laboratories.

ENEC is the high quality European mark for electrical products that demonstrates compliance with European standards (EN). The ENEC approved testing laboratory governs the implementation of strict European standards on the design and manufacture of emergency luminaires under regulations including EN60598-1 and EN60598-2-22. If ENEC approved luminaires are installed, maintained and used according to the manufacturer's instructions, installation standards and good engineering practice such as the correct location, spacing data, etc, the emergency lighting system will meet the minimum emergency lighting levels for the safety of people.

However, this may need enhancement if specific risks are identified during the risk assessment. Upon meeting these conditions, the installation would then be considered sufficiently safe to protect users of the building and reduce the likelihood of any legal action relating to non-compliance with regulations.

4. Consider the long-term costs

Buying high-quality and industry approved emergency lighting may initially seem more costly, but consider the bigger picture. For example, good quality products may have a higher output and better spacing performance meaning fewer units are needed to achieve the required level of illumination, which may not only reduce the outlay on products but also the installation cost. LED based emergency luminaires, low consumption, long life components, automatic testing and monitoring devices significantly reduce the operating and maintenance costs of the installation to optimise the total cost of ownership (TCO). For example, LED-based emergency luminaires have a working life often up to 50,000 hours, which is up to 10 times longer than a conventional fluorescent lamp and 2 to 4 times lower energy consuming.

Using 10 years life time central battery systems will also significantly reduce maintenance costs in the long term.

Low voltage directive

All emergency lighting shall be compliant with the low voltage directive (2014/35/EU) who is referring to product standard such as EN60598-1 and EN60598-2-22. For a better and global understanding of the signage, Pictogram is normalised by the ISO7010.

These regulations apply to all safety signs including those which provide directional signage for escape routes.

Other regulations

Please refer to your local regulation because some places like theatres, cinema, stadiums, nursing houses, schools, hospitals, car parks, etc may required specific equipment and installation rules.

5. Location, location, location

The positioning of emergency lighting is crucial. Some of the key locations where emergency luminaires should be installed are: along escape routes, at every change in direction, adjacent to any step or trip hazard, over every flight of stairs so that each tread receives direct light, close to firefighting equipment, call points and first aid points, outside every final exit to a place of safety or any other location identified by the risk assessment. Please refer to your local regulation to choose the recommended Eaton emergency lighting product at the right location.

6. Pay attention to the exit

Emergency lighting shall be chosen in accordance with the application and environmental conditions to ensure a safe exit way. Eaton designs emergency lighting with waterproof, high bay, industrial, and various other solutions.

7. Think about maintenance and servicing

Minimum routine testing schedules are one of the requirements of the regulations and standards. The time this takes can become a significant demand on facilities managers and maintenance teams. One way to avoid the ongoing costs associated with maintenance, servicing, repairs and replacements is to specify quality emergency luminaires in the first place.

Another tip is to consider self-testing systems, which reduce the expense, time demands and disruption associated with manual testing regimes upon individual luminaires. With automatic test systems, results from an entire network are collected and fed back to a central point where the exact location of the fault can be pinpointed. The system will also identify the cause of the fault, so that the necessary spare part can be selected and taken to the location to speed up the repair process.

Using long life time LEDs will significantly reduce maintenance costs.

8. Don't ignore the signs

In addition to the emergency lighting, it's important to consider signage at the earliest stage. The obligation is to ensure that escape routes are clearly defined and identified with the correct exit signage.

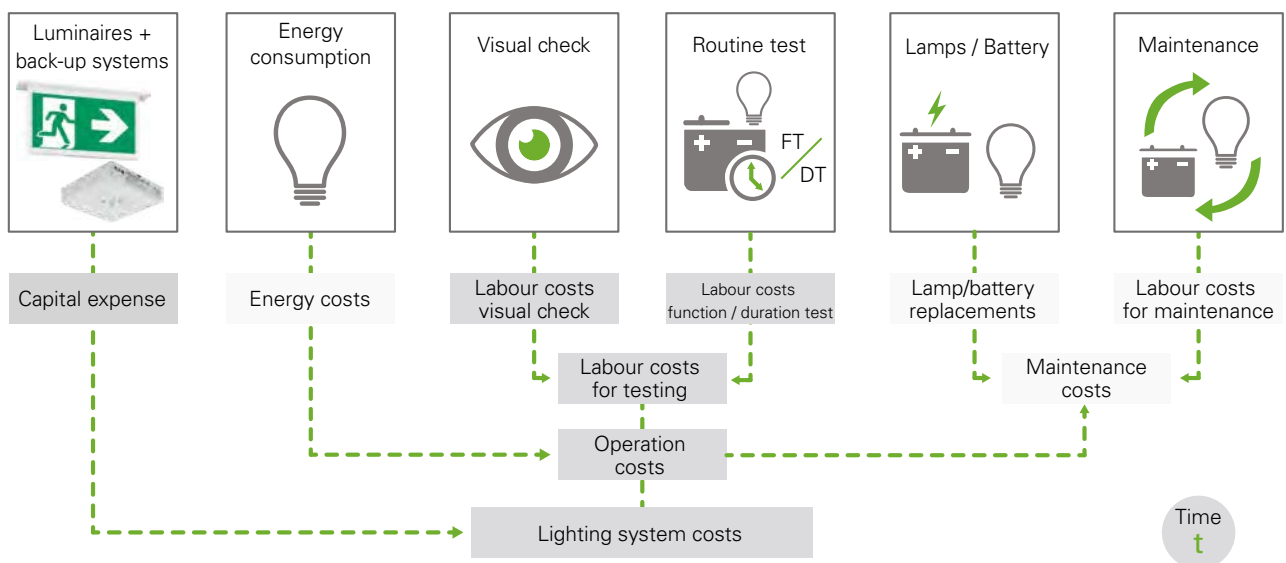
When selecting a product, be aware that the viewing distance for an internally illuminated exit sign is calculated by multiplying the height of the illuminated element by a factor of 200. This information will normally be available from reputable manufacturers. For externally illuminated signs, the multiplication factor is only 100.

Additionally, EN1838 states that under emergency lighting conditions the sign shall be sufficiently illuminated so that it is clearly visible. The safety colour must remain green and the contrast colour must remain white within the colour boundaries specified in ISO3864-4.

Also, pictogram are normalized by ISO7010 with the arrow and the running man.



Emergency lighting costs



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Emergency lighting design guide

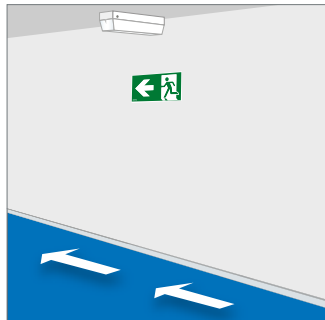
1 Locate luminaires at mandatory “Points of Emphasis”

Initial design is conducted by situating luminaires to reveal specific hazards and highlight safety equipment and signs, care should be taken to ensure the correct illumination level is achieved, in addition to providing illumination to assist safe travel along the escape route. This should be performed regardless of whether it is an emergency escape route or an open (anti-panic) area. Only when this is accomplished should the type of luminaire or its light output be considered. EN 1838: 2013 requires that the luminaires sited at points of emphasis must comply with EN 60598-2-22.

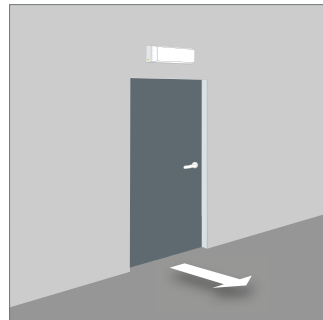
Specific locations where a luminaire must be provided are:



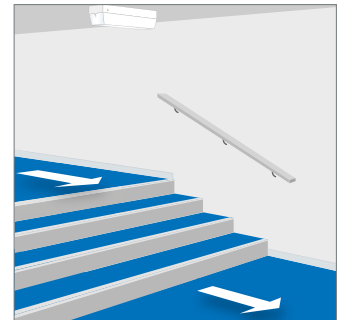
At each exit door



All safety exit signs



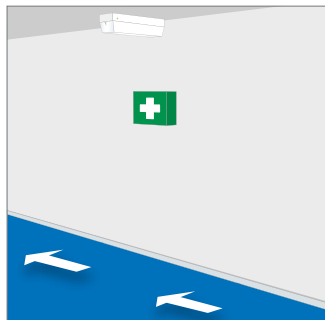
Outside the final exits and to a place of safety



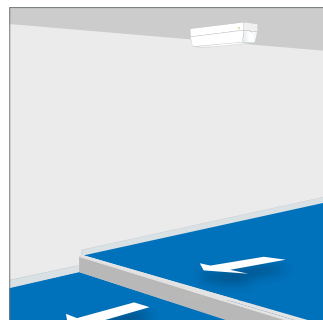
Near stairs so that each tread receives direct light



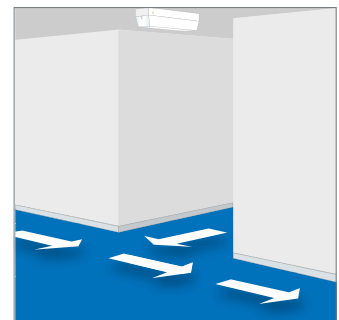
At each change of direction



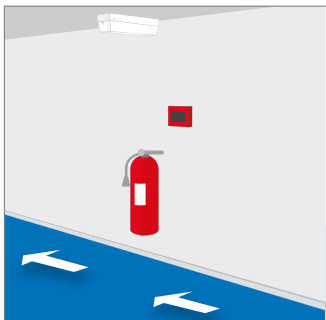
Near each first aid post
(5lx, vertical)



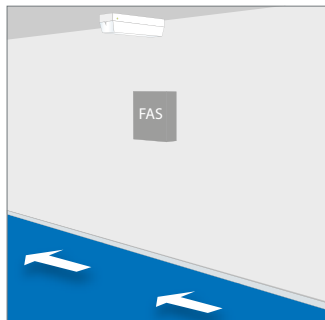
Near any other change of floor level



At each intersection of corridors



Near each piece of fire fighting equipment and call point
(5lx, vertical)



Near (5 lx, vertical) every panel for fire alarm system



Near escape equipment for handicapped people



Near safe areas, for handicapped people and P.A. systems, Alarm devices in toilets for handicapped people

Ensure the exit signs are of correct format and size

Section 4.1 of EN 1838: 2013 states that “Signs which are provided at all exits intended to be used in an emergency and along escape routes shall be illuminated to indicate unambiguously the route of escape to a point of safety”. Where direct sight of an emergency exit is not possible, an illuminated directional sign (or series of signs) shall be provided to assist progression towards the emergency exit.

Sign formats should not be mixed

Example of old-style signs now obsolete:



European signs directive format

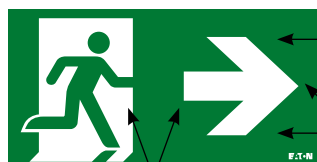


ISO 7010

Some years ago, it was decided by many of the National Standards bodies to consider adoption of a single pictogram format as detailed in ISO 7010.

Illumination Requirements

The sign must conform to the colours of ISO 3864, which defines that exit and first aid signs must be white with green as the contrast colour. The ratio of luminance of the white colour to the green colour must be between 5:1 and 15:1. The minimum luminance of any 10mm patch area on the sign must be greater than 2cd/m² and the ratio of maximum to minimum luminance shall be less than 10:1 for either colour.



Contrast of the colours must be between 5:1 and 15:1

Note:

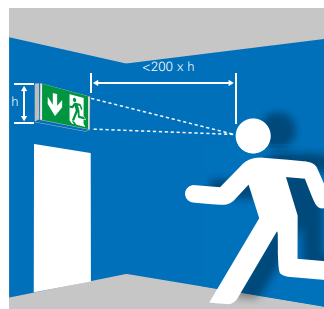
- According DIN 4844-1 the min. luminaire of the white colour must be > 500 cd/m² in normal conditions
- Internally illuminated exit signs are pre-tested to ensure they meet these requirements, provided that they comply with EN 60598-2-22. If the sign is designed to be externally illuminated, considerable care must be taken by the system designer to see that these conditions are met.

Maximum viewing distances

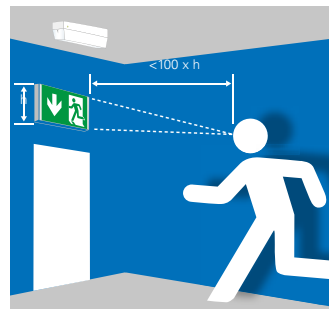
For all formats of safety signs, the maximum viewing distances and luminance conditions are given in EN 1838: 2013. Signs can be either internally illuminated, such as exit boxes or edge lit emergency luminaires with a screened sign that have a controlled illuminance, or painted signs.

Maximum viewing distances are:

Internally illuminated signs - 200 x the panel height



Externally illuminated signs - 100 x the panel height

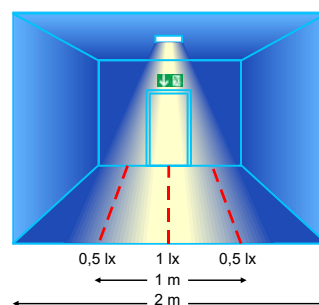


Escape Route Lighting

When the points of emphasis have been covered, it is essential to provide any additional luminaires to ensure that minimum illuminance levels are met to enable the routes to be used safely. In addition, every compartment on the escape route must have at least two luminaires, to provide some light in the event of luminaire failure.

• Lighting Level Requirements

EN 1838: 2013 4.2 calls for a minimum of 1 lux anywhere on the centre line of the escape route for normal risks. A uniformity ratio of 40:1 maximum to minimum must not be exceeded. This illuminance must be provided for the full duration and life of the system. 50% of the illuminance must be available within 5 seconds and the full value within 60 seconds of supply failure.



• Photometric Design

Emergency Escape Routes
The use of authenticated spacing tables or a suitable computer program provides the information to determine whether luminaires are needed in addition to those for the points of emphasis (see data section), to provide the minimum required level of illumination on the escape routes. To ensure that the design will meet the required levels at all times the data is de-rated, as required by the standard, to cover the following factors:

- Reduction in light as the battery voltage reduces during discharge
- Ageing of lamps in maintained circuits
- The effects of dirt

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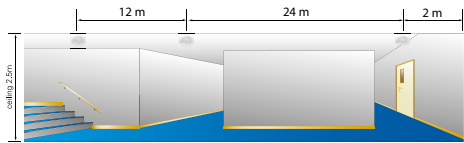
Emergency lighting design guide

1 Planning assistance for GuideLed SL CG-S with asymmetric optics for E = 1.0 lx (0.5 lx)

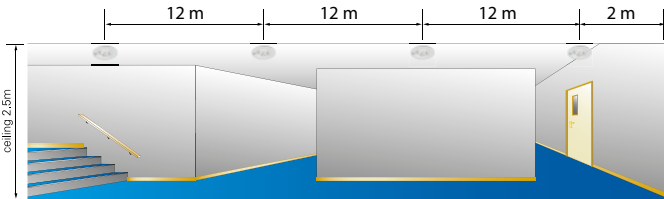
Measuring height 0.02 m, maintenance factor MF = 80 %, battery operation

| Mounting height [m] | Type of mounting | L1 | L2 | L3 | L4 |
|---------------------|------------------|-----------|-----------|------------|-------------|
| 2.5 | Ceiling mounting | 2.3 (3.4) | 6.8 (8.3) | 6.4 (7.1) | 14.1 (15.6) |
| 3.0 | Escape route | 2.3 (3.2) | 6.4 (9.2) | 7.3 (8.1) | 16.1 (17.8) |
| 3.5 | centre | 2.3 (3.2) | 6.5 (9.7) | 8.1 (9.0) | 17.9 (19.9) |

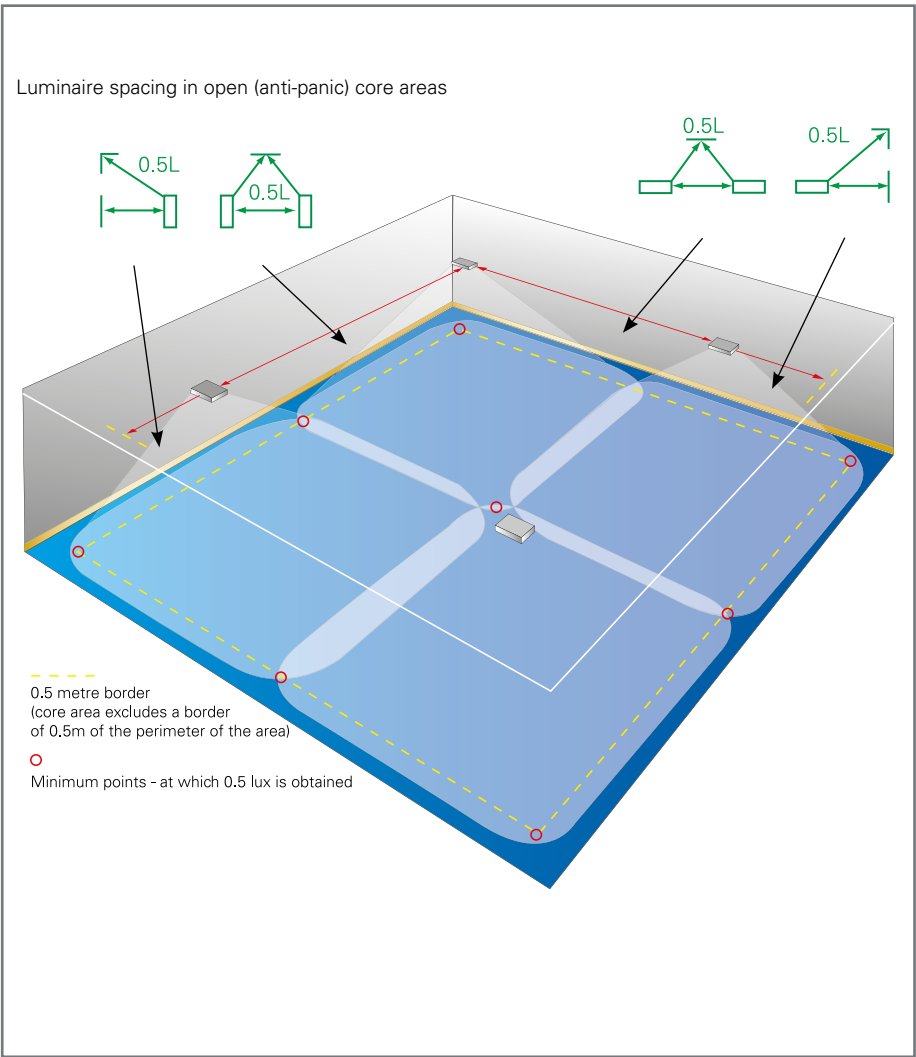
Example - luminaire spacing along escape route



Locate luminaires at mandatory “Points of emphasis”



Add additional luminaire to achieve 1 lux minimum



Open (anti-panic) core areas

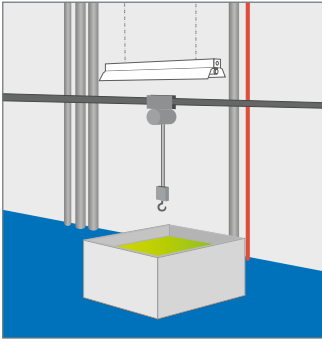
Open areas with an escape route passing through them, or **hazards identified by the building risk assessment** all require emergency lighting. The current standard is easy to design for and to verify, promoting systems that provide good uniformity rather than ones that use a few large output luminaires.

• Light level requirements

EN 1838:2013 - 4.3 calls for 0.5 lux minimum of the empty core area, which excludes a border of 0.5m of the perimeter of the area. Spacing tables or a suitable computer program provide simple and accurate data that can easily be used. The spacing tables for 0.5 lux are de-rated on the same basis as those for escape routes. They can also be used as a guide for initial selection of the location of luminaires when using a computer program.

• Spacing data

Specific data is available for dedicated emergency luminaires. This can be found on each of the individual product entries in this catalogue. If using standard mains luminaires fitted with an emergency conversion kit, you should use one of the available computer programs to calculate the layout of converted luminaires. Using the actual distribution of the luminaire ensures that the correct emergency lumen value is used with the relevant depreciation factors.



High risk task area Lighting

The risk assessment carried out will have identified a number of locations needing special consideration. These may be areas in which plant and production lines are deemed to have a high risk or control rooms managing dangerous processes.

EN 1838: 2013 defines that in areas of high risk the maintained illuminance on the reference plane shall not be less than 10% of the required maintained illuminance for that task, however it shall not be less than 15 lux.

Key product standards

- **EN 60598-2-22:** Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting
- **ISO 7010:** Registered safety signs
- **ISO 3864-1:** Design principles for safety signs and safety markings
- **DIN 4844-1:** Observation distances and colorimetric and photometric requirements
- **EN 50171:** Central power supply systems
- **DIN EN 50272-2:** Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries
- **EN 62034:** Automatic test systems for battery powered emergency lighting

Key installation standards

- **EN 1838:** Lighting applications – Emergency Lighting
- **IEC 60364-5-56 / HD 60364-5-56:** Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services
- **EN 50172:** Emergency escape lighting systems
- **DIN V VDE V 0108-100:** Emergency escape lighting systems



Requirements of EN 1838

≥ 15 lx Illuminance at safety lighting for workplaces with special hazards

In workplaces where failure of the general lighting could lead to accident risks, the illuminance of the safety lighting must be determined on the basis of the risk assessment.

The illuminance of the safety lighting must not be less than 15 lx. In individual cases higher illuminance levels may be necessary.

In order to meet the requirements of EN 1838 and the Technical Rules for Workplaces, we have highlighted the suitable CEAG safety lights including distance tables for you in the following.

We can provide you with 15 lx data on request. Contact your Eaton representative.

Work areas with special hazards

Workplaces where the safety and health of employees is endangered by the failure of general lighting and where safety lighting is required are, for example



Laboratories when it is necessary for employees to stop or interrupt an ongoing experiment in order to prevent acute danger to employees and third parties.



The immediate area of long-traveling work equipment with moving parts which are not to be protected and which can cause accident hazards, e.g. facing machines, as well as additional accident hazards caused by light failure.



Jobs near hot baths or casting pits that cannot be secured by railings or barriers for production reasons.



Workplaces without daylight. Workstations that must be kept dark for technical reasons



Control equipment for installations requiring continuous monitoring, e.g. control rooms and control stations for power plants, chemical and metallurgical plants as well as workplaces at shut-off and control equipment which have to be actuated during operation or in case of malfunctions to avoid the risk of accidents in order to interrupt or terminate production processes without risk:



Electrical operating rooms and rooms for building services installations which must be entered if the artificial lighting fails.

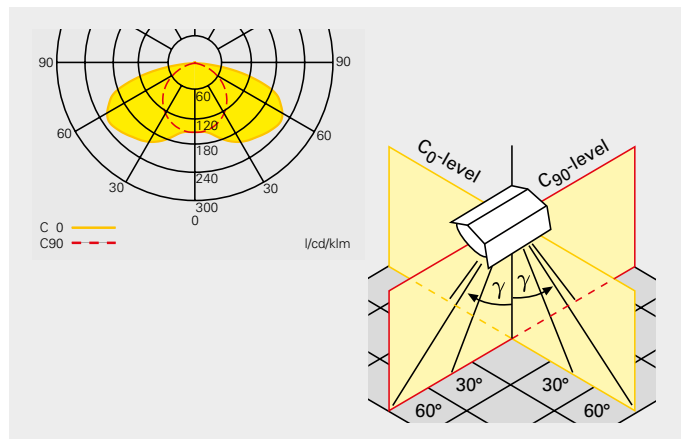


Areas around working pits that cannot be covered for reasons related to the work process.

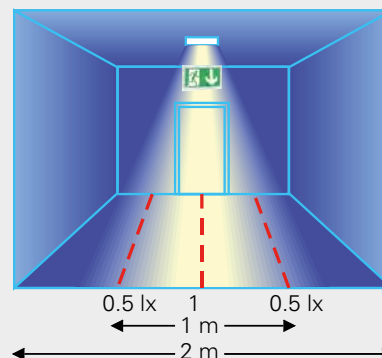
Planning example of escape routes and anti-panic lighting

1

DIN EN 1838 supplies detailed information about the planning and calculation of safety lighting systems:



Safety lighting for escape routes



Escape routes to 2 m width must be illuminated with 1 lx on the central axes and to 50% of the width to 0.5 lx.

Measurement height max. 2 m.

Wider escape routes can be considered as several 2 m strips or can be equipped with anti-panic lighting.

With the calculation of illuminance, no reflections are to be considered on the peripheral room surfaces. The illuminance can therefore be calculated with the point lighting formula.

$$E = \frac{I_{(\gamma)} \times \Phi_E}{h^2} \cos^3(\gamma)$$

The formula for the point to point method of calculation is as follows:

$I_{(\gamma)}$ = Light intensity at the given distribution angle taken from the light distribution curve in cd/klm

Φ_E = Luminous flux of the lamp in lm at the end of the rated duration

γ = Angle of distribution to the downward point of measurement

h = Mounting height of the luminaire above the measurement level in meters

H = Mounting height of the luminaire in meters above floor level

E = Illuminance in Lux

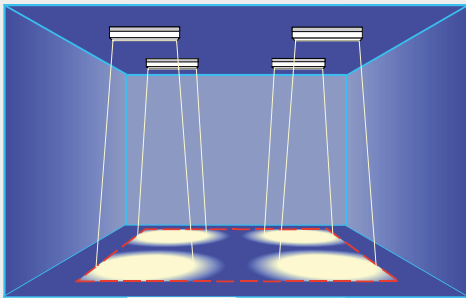
a = Distance in meters between the point of measurement and the foot of the luminaire

P = Point of measurement

The EN 1838 standard requires a minimum value for illuminance of 0.5 lx or 1 lx. Because a lighting installation grows old over the course of time and the light emitted becomes less as a result, the initial value must be greater, meaning that a maintenance factor must be applied for planning. A common value is MF = 0.8. This means that the lighting system is dimensioned so that the new value for illuminance is 1.25 times the nominal value.

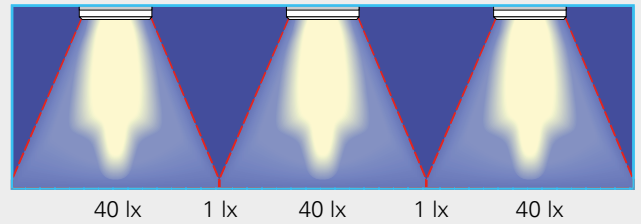
Other maintenance factors can also be considered according to light source, probability of soiling of room and luminaires and the planned maintenance intervals. The assumptions must be documented by the planner.

Anti-panic lighting



The horizontal illuminance must not fall below 0.5 lx on the free floor surfaces.

Safety lighting for escape routes



Due to the inertia of the eye, recognition of obstacles or the escape route path is impaired with excessive differences in brightness/darkness.

$$\text{Uniformity} < 40:1 (E_{\text{max.}} / E_{\text{min.}})$$

Example:

Calculation of the number of luminaires required using the point to point method.

Given data

- The minimum illuminance is 1.0 lx (Planning basis maintenance factor MF = 0.8)
- Escape route length = 38 m
- Mounting height of the luminaire above floor level = 3 m
- Luminous flux Φ_E at the end of the rated duration = 337 lm (450 lm x 75%)
- The measure level is 0.02 m above floor level
- Light distribution curve of the luminaires
- Position of luminaires is across the width of the escape route

Method:

- Calculation of illuminance at various points and calculation of the distances for $E = 0.625 \text{ lx}$ and $E = 1.25 \text{ lx}$.

E directly underneath the luminaire:

light intensity I from the light distribution curve at $0^\circ = 145 \text{ cd/klm}$.

$$E_{(0\text{m})} = \frac{I_{(0^\circ)} \times \Phi_E}{h^2} \cos^3(0^\circ)$$

$$E_{(0\text{m})} = \frac{145 \text{ cd/klm} \times 0.337 \text{ klm}}{(2.98 \text{ m})^2} \times 1$$

$$\underline{E_{(0\text{m})} = 5.4 \text{ lx}}$$

E for example at 5.2 m distance

$$\tan \gamma = \frac{5.2 \text{ m}}{2.98 \text{ m}} = 1.73; \arctan(1.73) = 60^\circ$$

$$E_{(5.2\text{m})} = \frac{270 \text{ cd/klm} \times 0.337 \text{ klm}}{(2.98 \text{ m})^2} \times \cos^3(60^\circ)$$

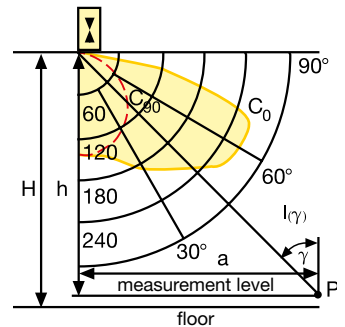
$$\underline{E_{(5.2\text{m})} = 1.26 \text{ lx}}$$

E for example at 6.9 m distance

$$\tan \gamma = \frac{6.9 \text{ m}}{3 \text{ m}} = 2.3; \arctan(2.3) = 66.5^\circ$$

$$E_{(6.9\text{m})} = \frac{270 \text{ cd/klm} \times 0.337 \text{ klm}}{(2.98 \text{ m})^2} \times \cos^3(66.5^\circ)$$

$$\underline{E_{(6.9\text{m})} = 0.64 \text{ lx}}$$



Results:

The max. permissible luminaire spacing results from doubling the illuminance values of 0.64 lux (approx. 6.9 m) of adjacent luminaires at least 1.25 lux. According to the point-by-point method, for transverse arrangement of emergency luminaires a distance of approx. 13.8 m between the luminaires is required.

It should also be noted that, after this calculation, the luminaire spacing from the start or end of the escape route must not exceed 5.2 m. In order not to fall below the required illuminance (1.25 lux planning value), the illuminance for the illumination of the escape route of 38 m length 3 emergency luminaires required. The uniformity is approx. 1: 5.

Planning examples

1

Because calculation with the point lighting formula for everyday planning is complex, planning aids were drawn up in collaboration with the German Institute for Applied Lighting Technology (DIAL) in accordance with the conditions of EN 1838 and LBO (national building directives) enabling simple, rapid planning.

A maintenance factor of $MF = 0.8$ (or planning factor $P = 1.25$) is already integrated so that the luminaire distances to be planned can be read directly for the desired initial value of 1.25 lx or 0.625 lx (in brackets).

The ratio of reflective light was not considered in accordance with DIN EN 1838.

The tables differentiate between three applications:

1 Illumination of an escape route acc. to EN 1838 | ceiling mounting, escape route centre

Calculation basis:

1 lx for escape route centre, 0.5 lx on both sides, at distance of 0.5 m

2 Calculation for anti-panic lighting | Room illumination

Calculation basis:

1 lx (0.5 lx) minimum value on the complete surface, with consideration of a peripheral area of 0.5 m

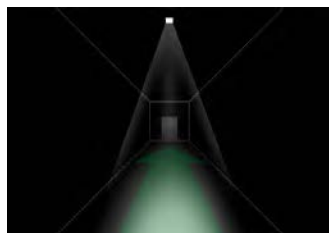
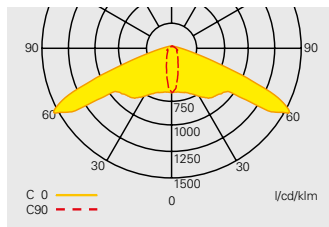
3 Illumination of an escape route acc. to EN 1838 | wall mounting

Calculation basis:

1 lx for escape route centre, 0.5 lx on both sides, at distance of 0.5 m, distance of wall to escape route centre 1 m



In addition the arrangement of the luminaires must be considered: Are these aligned longitudinally or laterally to the escape route or surface? Does it concern the first or last luminaire or a luminaire within a luminaire arrangement? And lastly, the distances of the first luminaire to the wall are always somewhat less, as this must achieve the illuminance level of 1 lx by itself, while luminaires within the luminaire arrangement are supported by the adjacent luminaire.

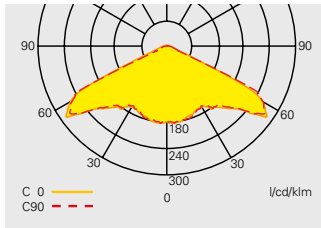


Escape route illumination with asymmetric optics

Planning assistance for GuideLed SL CG-S with asymmetric optics for $E = 1.0$ lx (0.5 lx)

Measuring height 0.02 m, maintenance factor $MF = 80\%$, battery operation

| Mounting height [m] | Type of mounting | L1 | L2 | L3 | L4 |
|---------------------|------------------|-----------|-----------|-------------|-------------|
| 2.5 | Ceiling mounting | 2.3 (3.4) | 6.8 (8.3) | 6.4 (7.1) | 14.1 (15.6) |
| 3.0 | Escape route | 2.3 (3.2) | 6.4 (9.2) | 7.3 (8.1) | 16.1 (17.8) |
| 3.5 | centre | 2.3 (3.2) | 6.5 (9.7) | 8.1 (9.0) | 17.9 (19.9) |
| 4.0 | | 2.3 (3.3) | 6.5 (9.4) | 8.8 (9.9) | 19.7 (21.9) |
| 4.5 | | 2.3 (3.3) | 6.6 (9.1) | 9.5 (10.7) | 21.4 (23.7) |
| 5.0 | | 2.2 (3.3) | 6.6 (9.2) | 10.0 (11.5) | 23.0 (25.6) |
| 5.5 | | 2.1 (3.3) | 6.6 (9.2) | 10.4 (12.2) | 24.4 (27.4) |
| 6.0 | | 2.0 (3.3) | 6.5 (9.3) | 10.7 (12.9) | 25.8 (29.1) |
| 6.5 | | 1.9 (3.2) | 6.4 (9.4) | 7.9 (13.5) | 27.0 (30.8) |
| 7.0 | | 1.8 (3.1) | 6.2 (9.4) | 7.6 (14.0) | 26.0 (32.3) |
| 7.5 | | 1.7 (3.1) | 6.1 (9.3) | 7.3 (14.5) | 25.9 (33.7) |
| 8.0 | | 1.6 (2.9) | 5.8 (9.3) | 7.0 (14.8) | 26.2 (35.2) |
| 8.5 | | 1.4 (2.8) | 5.7 (9.3) | 6.7 (15.1) | 26.4 (36.6) |
| 9.0 | | 1.2 (2.8) | 5.5 (9.1) | 6.1 (14.9) | 26.1 (37.8) |
| 9.5 | | 1.0 (2.7) | 5.3 (9.0) | 4.7 (10.9) | 21.9 (37.6) |
| 10.0 | | 0.6 (2.5) | 5.0 (8.8) | 2.5 (10.7) | 21.4 (36.7) |



Escape route illumination
with symmetric optics



Room illumination
with symmetric optics

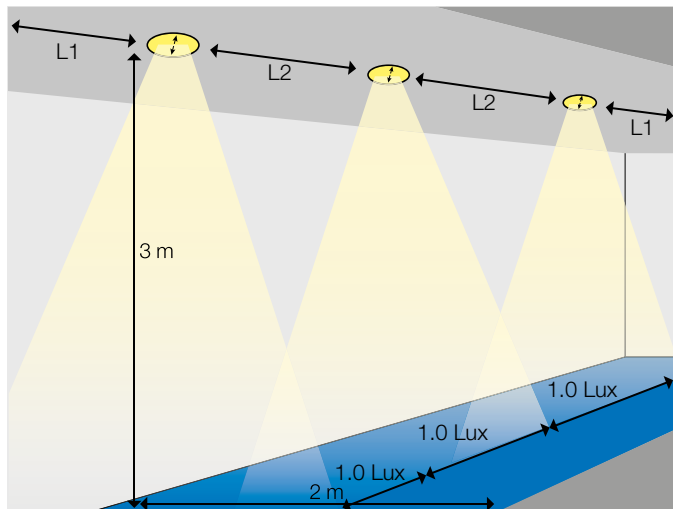
Planning assistance for GuidedLed SL CG-S with symmetric optics for E = 1.0 lx (0.5 lx)

Measuring height 0.02 m, maintenance factor MF = 80 %, battery operation

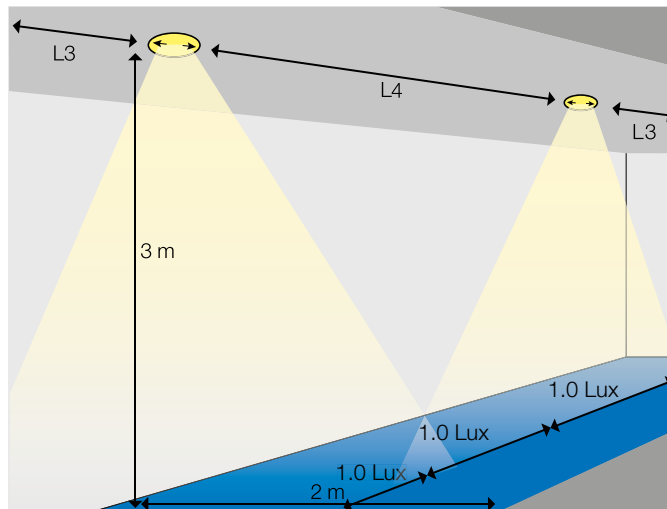
| Mounting height [m] | Type of mounting | L1 | L2 | L3 | L4 |
|------------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.4 (5.0) | 9.9 (10.4) | 4.4 (4.9) | 9.8 (10.4) |
| 3.0 | Escape route | 4.6 (5.9) | 11.2 (12.3) | 4.6 (5.7) | 11.2 (12.1) |
| 3.5 | centre | 4.5 (6.2) | 12.3 (14.0) | 4.6 (6.2) | 12.3 (13.8) |
| 4.0 | | 3.5 (6.4) | 12.5 (15.2) | 3.8 (6.4) | 12.5 (15.2) |
| 4.5 | | 2.9 (6.6) | 13.0 (16.4) | 3.2 (6.6) | 12.7 (16.4) |
| 5.0 | | 2.4 (6.2) | 12.3 (17.4) | 2.4 (6.4) | 12.4 (17.4) |
| 5.5 | | 1.9 (5.3) | 10.6 (17.5) | 1.8 (5.5) | 11.0 (17.6) |
| 6.0 | | 0.7 (4.7) | 9.4 (17.8) | 0.9 (4.8) | 9.6 (17.9) |
| 2.5 | Ceiling mounting | 4.3 (4.4) | 9.8 (10.3) | 4.1 (4.3) | 9.5 (10.3) |
| 3.0 | Room illumination | 4.4 (5.2) | 11.1 (12.0) | 4.6 (5.2) | 11.0 (11.9) |
| 3.5 | | 4.7 (5.6) | 12.2 (13.6) | 5.0 (5.8) | 12.2 (13.5) |
| 4.0 | | 2.9 (5.9) | 12.1 (15.0) | 2.9 (6.3) | 12.4 (15.0) |
| 4.5 | | 2.7 (6.2) | 12.6 (16.3) | 2.5 (6.5) | 12.5 (16.3) |
| 5.0 | | 1.0 (6.4) | 12.2 (17.2) | 0.5 (6.8) | 12.5 (17.4) |
| 5.5 | | 0.5 (4.3) | 11.8 (17.2) | 0.7 (4.5) | 11.5 (17.6) |
| 6.0 | | 1.0 (3.5) | 11.7 (17.4) | 0.7 (3.7) | 11.4 (17.5) |
| 6.5 | | 0.5 (2.8) | 12.2 (17.8) | 0.5 (1.1) | 11.6 (18.0) |
| 7.0 | | 0.5 (1.1) | 12.1 (17.3) | 0.5 (0.7) | 11.2 (17.8) |
| 7.5 | | 0.5 (0.5) | 11.8 (14.5) | 0.5 (2.9) | 11.2 (20.5) |
| 8.0 | | 0.5 (2.4) | 11.0 (20.3) | 0.5 (0.5) | 10.9 (14.8) |
| 8.5 | | 0.7 (0.8) | 9.4 (21.7) | 0.7 (0.7) | 9.3 (13.7) |
| 9.0 | | 0.6 (0.5) | 8.4 (17.8) | 0.6 (0.5) | 8.3 (16.5) |

Planning examples

1 Example 1: Type of mounting: ceiling mounting / escape route



Luminaire optics installed cross to the escape route



Luminaire optics installed lengthways to the escape route

Example calculation No. 1 – escape route illumination with LED safety luminaire:

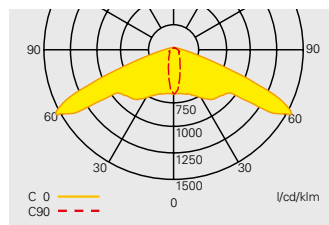
Specification data:

Length of escape route 30 m, luminaires mounted directly above escape route, illumination according to EN 1838 with 1 lx on central axis, luminaires lateral to longitudinal axis, maintenance factor = 0.8, luminaire mounting height = 3.0 m

Selected luminaire type: GuideLed SL 13012.1 CG-S with asymmetric LED optic, 1 x 2 W LED

Planning assistance for GuideLed SL CG-S with asymmetric optics for E = 1.0 lx (0.5 lx)

Measuring height: 0.02 m, maintenance factor MF = 80 %, battery operation



| Mounting height (m) | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-----------|------------|-------------|
| 2.5 | Ceiling mounting | 2.3 (3.4) | 6.8 (8.3) | 6.4 (7.1) | 14.1 (15.6) |
| 3.0 | Escape route centre | 2.3 (3.2) | 6.4 (9.2) | 7.3 (8.1) | 16.1 (17.8) |
| 3.5 | | 2.3 (3.2) | 6.5 (9.7) | 8.1 (9.0) | 17.9 (19.9) |
| 4.0 | | 2.3 (3.3) | 6.5 (9.4) | 8.8 (9.9) | 19.7 (21.9) |
| 4.5 | | 2.3 (3.3) | 6.6 (9.1) | 9.5 (10.7) | 21.4 (23.7) |

Result:

The planning aid shows that the first luminaire must be mounted at a distance of 7.4 m (L3) from the corridor end and the distance between the luminaires must be a maximum of (L4) 16.1 m in order to maintain the required illuminance of 1 lx.

$$2 \times L3 + 1 \times L4 = 2 \times 7.3 \text{ m} + 1 \times 16.1 \text{ m} = 30.7 \text{ m} \checkmark$$

Therefore for this area only 2 GuideLed SL 13012.1 CG-S are required.

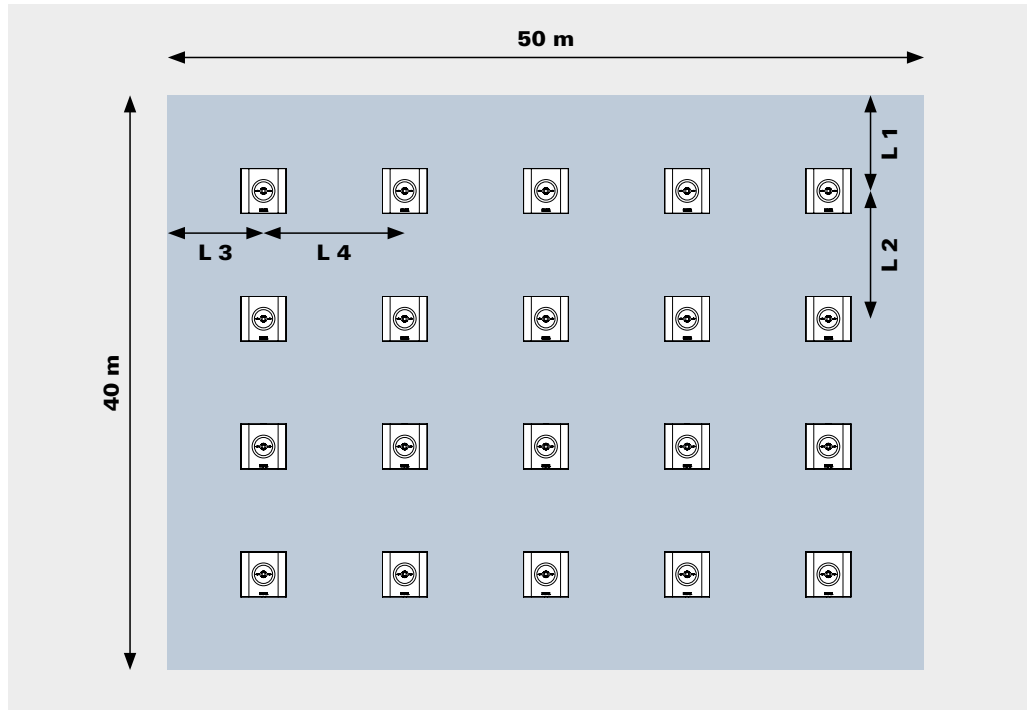
Example 2: Type of mounting: ceiling mounting / room illumination

Example calculation No. 2 – room illumination

Specification data:

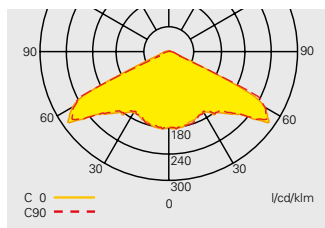
A sales area with 2000 m² surface area (50 m x 40 m), luminaires mounted to the ceiling, luminaires lateral to longitudinal axis, illumination according to EN 1838 with 1 lx on complete surface, maintenance factor = 0.8, luminaire mounting height = 4.0 m





Selected luminaire type: GuideLed SL 13022.1 CG-S, symmetric LED optic, 1 x 2 W LED



Planning help for GuideLed SL CG-S with symmetric optics for E = 1.0 lx (0.5 lx)

Measuring height: 0.02 m, maintenance factor MF = 80 %, battery operation



| Mounting height (m) | Types of mounting | L1  | L2  | L3  | L4  |
|---------------------|-------------------|--|--|--|--|
| 2.5 | Ceiling mounting | 4.3 (4.4) | 9.8 (10.3) | 4.1 (10.3) | 9.5 (10.3) |
| 3.0 | Room illumination | 4.4 (5.2) | 11.1 (12.0) | 4.6 (5.2) | 11.0 (11.9) |
| 3.5 | | 4.7 (5.6) | 12.2 (13.6) | 5.0 (5.8) | 12.2 (13.5) |
| 4.0 | | 2.9 (5.9) | 12.1 (15.0) | 2.9 (6.3) | 12.4 (15.0) |
| 4.5 | | 2.7 (6.2) | 12.6 (16.3) | 2.5 (6.5) | 12.5 (16.3) |
| 5.0 | | 1.0 (6.4) | 12.2 (17.2) | 0.5 (6.8) | 12.5 (17.4) |

Result:

The planning aid shows that the first luminaire in the x-direction must be mounted at a distance of 2.9 m (L3) from the wall.

The distance between the luminaires must be a maximum of 12.4 m (L4) in order to achieve the required 1 lx.

$$2 \times L3 + 4 \times L4 = 2 \times 2.9 \text{ m} + 4 \times 12.4 \text{ m} = 55.4 \text{ m} \checkmark$$

Therefore 5 luminaires in the x-direction are required.

In the y-direction the first luminaire can be mounted up to 2.9 (L1) m from the wall.

The distance between the luminaires must be a maximum of 12.1 m (L2).

$$2 \times L1 + 3 \times L2 = 2 \times 2.9 \text{ m} + 3 \times 12.1 \text{ m} = 42.1 \text{ m} \checkmark$$

Therefore 4 luminaires in the y-direction are required.

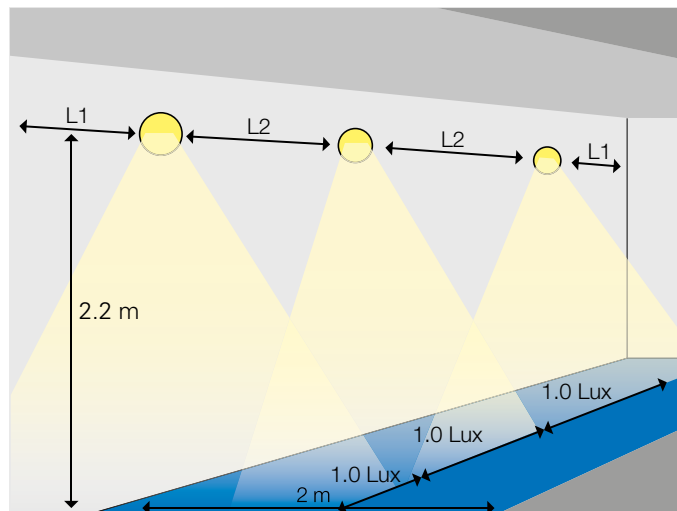
Planning examples

1 Example calculation No. 3 – escape route illumination with wall luminaires

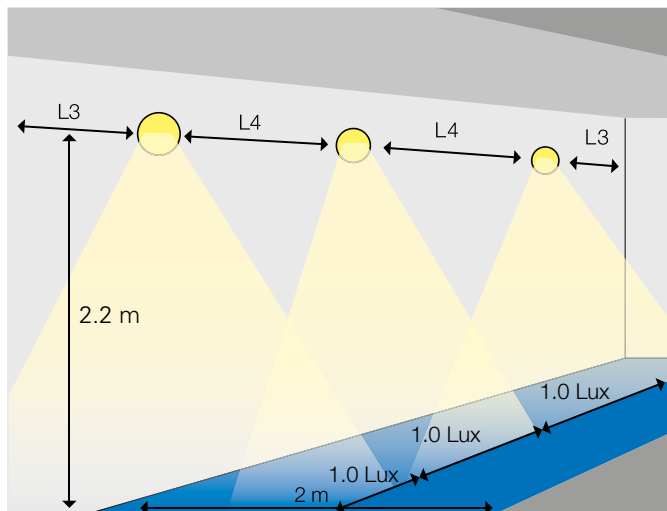
Specification data:

Length of escape route 30 m, luminaires mounted to the wall, illumination according to EN 1838 with 1 lx on central axis, maintenance factor = 0.8, luminaire mounting height = 2.5 m

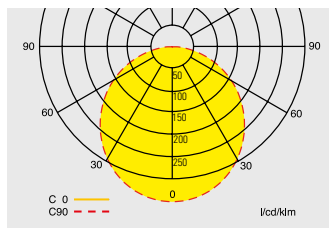
Selected luminaire type: 84022 LED CG-S



Luminaire arranged horizontally



Luminaires arranged vertically



Light distribution curve 84022 LED CG-S

Engineering help for 84022 LED CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.9 (6.0) | 11.9 (14.5) | 4.9 (6.0) | 11.9 (14.5) |
| 3.0 | Escape route centre | 5.2 (6.5) | 12.9 (15.7) | 5.2 (6.5) | 12.9 (15.7) |
| 3.5 | | 5.5 (6.9) | 13.8 (16.8) | 5.5 (6.9) | 13.8 (16.8) |
| 4.0 | | 5.7 (7.2) | 14.5 (17.8) | 5.7 (7.2) | 14.5 (17.8) |
| 4.5 | | 5.9 (7.6) | 15.1 (18.7) | 5.9 (7.6) | 15.1 (18.7) |
| 5.0 | | 6.1 (7.8) | 15.6 (19.5) | 6.1 (7.8) | 15.6 (19.5) |
| 5.5 | | 6.2 (8.1) | 16.1 (20.3) | 6.2 (8.1) | 16.1 (20.3) |
| 6.0 | | 6.2 (8.3) | 16.5 (20.9) | 6.2 (8.3) | 16.5 (20.9) |
| 6.5 | | 6.2 (8.4) | 16.8 (21.5) | 6.2 (8.4) | 16.8 (21.5) |
| 7.0 | | 6.2 (8.6) | 17.1 (22.1) | 6.2 (8.6) | 17.1 (22.1) |
| 2.2 | Wall mounting | 3.3 (6.0) | 8.5 (14.5) | 3.3 (6.0) | 8.5 (14.5) |
| 2.5 | | 3.3 (6.9) | 8.5 (16.8) | 3.3 (6.9) | 8.5 (16.8) |
| 3.0 | | 3.1 (7.6) | 8.4 (18.7) | 3.1 (7.6) | 8.4 (18.7) |

Result:

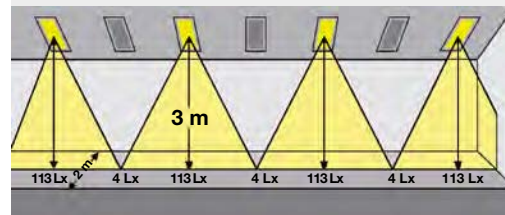
The planning aid shows that the first luminaire must be mounted at a distance of 3.3 m (L1 or L3) from the corridor end and the distance between the luminaires must be a maximum of (L2 or L4) 8.5 m in order to achieve the required 1 lx. The luminaire has a very symmetric light distribution.

This is why the values L1 and L3 or L2 and L4 are identical or differ only slightly.

$$2 \times L1 + 3 \times L2 = 2 \times 3.3 \text{ m} + 3 \times 8.5 \text{ m} = 32.1 \text{ m} \checkmark$$

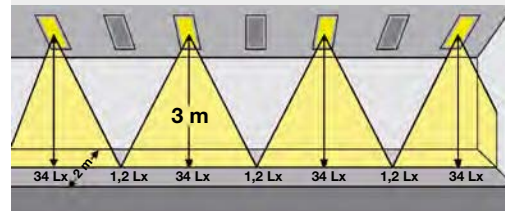
Therefore this area requires a total of four SL 84022 LED CG-S luminaires.

Standard EVG 58 W/100 % Luminous flux



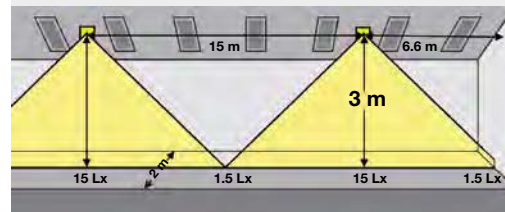
100 %

N-EVG 58 W/30 % Luminous flux



50 %

N-EVG 58 W/30 % Luminous flux



5 %

Planning an emergency lighting system should set out with the lighting engineering and not with the battery in order to ensure the efficient and most economical layout of the luminaires. A cost benefit combined with a high safety standard can only be achieved by safety luminaires featuring excellent lighting properties and the respective planning of the lighting.

Luminaires for general lighting are designed for illuminance values of e.g. 100 to 1000 lx. In addition, other requirements are valid here for uniformity and glare limitation. The light distributions and levels of luminous flux required for this are therefore not highly suitable for the demands of emergency lighting. The illuminance below the luminaires is many times greater than 1 lx. In order to fulfill the uniformity requirement of 1:40, the distance to the next luminaire cannot be too large despite the high light level. This would mean the minimum demand would in total be exceeded many times, leading in high energy demands for emergency lighting. This though can be reduced by up to 50% with the use of CEAG N ECGs, as these enable the reduction of luminous flux with battery operation.

CEAG safety luminaires have optics matched to lighting planning according to EN 1838. Light distribution and luminous flux are dimensioned so that the spacing is optimised while the values of current standards are adhered to. This means that energy consumption in emergency operation compared to use of general lighting is reduced by up to 94%, as shown by the case study below:

Exemplary calculation: Corridor with length 30 m, ceiling height 3 m

General lighting:

Illuminance according to EN 12464: 100 lx. Uniformity $g_1 = 0.7$, standard reflection factors for ceiling/walls/floor: 70 %/50 %/20 %
Lighting with recessed linear louvre luminaire with white louvre, 1 x 58 W. Required number of luminaires: 5

Emergency lighting:

Illuminance according to EN 1838: at least 1 lx, uniformity $g_2 > 1:40$
Reflection factors for ceiling/walls/floor: 0 %/0 %/0 %

| Version | Luminaire | Ballast | Emergency operation | | | E_{min} [lx] | E_{max} [lx] | $g_2 = \frac{E_{min}}{E_{max}}$ | Battery current input per luminaire in A | Total battery current input in A | Energy requirement |
|---------|---|-------------------|--------------------------------------|--|---------------|----------------|----------------|---------------------------------|--|----------------------------------|--------------------|
| | | | Number of luminaires mains operation | Number of luminaires emergency operation | Dimming level | | | | | | |
| No. 1 | Louvre luminaire, white, 1 x 58 W | EVG + CEAG V-CG-S | 5 | 3 | 100 % | 4 | 113 | 1:28 | 0.250 | 0.750 | 100 % |
| No. 2 | Louvre luminaire, white, 1 x 58 W | CEAG N-EVG | 5 | 3 | 30 % | 1.2 | 34 | 1:28 | 0.110 | 0.330 | 44.0 % |
| No. 3 | CEAG GuideLed SL with asymmetric optics | CEAG V-CG-SLS701 | 0 | 2 | 100 % | 1.5 | 15 | 1:10 | 0.020 | 0.040 | 5.3 % |

Pictogram summary

Summary of the standard pictograms according to ISO 7010 which can be ordered on request for our luminaires.

More special pictograms on request.

PR



PL 90°



PR 90°



PU 90°



PL



PU



Wheelchair PL



Rescue exit PL



Fire-extinguisher



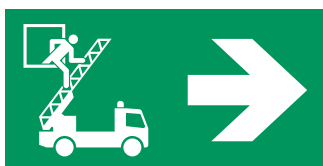
PO



Wheelchair PR



Rescue exit PR



Fire hose



PLU



Wheelchair PU



Rescue exit PU



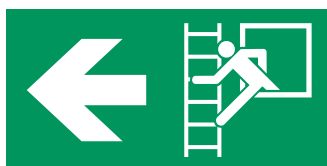
Hydrant



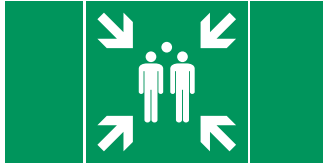
PRU



Emergency exit with escape ladder PL



Gathering place



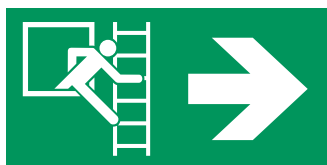
Information



PLO



Emergency exit with escape ladder PR



First aid



WC



PRO



Emergency exit with escape ladder PU















Exit Sign Panel luminaires

| | |
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Exit Sign Panel Luminaires

Overview

2

| | | | Aesthetic | One box solution | Low consumption / Eco-friendly | Protection Degree | Viewing distance | 24 V | 48 V | 110 V | 220 V DC | 230 V AC | Monitored CG-S | Monitored EC 1.5 |
|----------------------------|---|-------------|-----------------|------------------|--------------------------------|-------------------|------------------|------|------|-------|----------|------------|----------------|------------------|
| | | Performance | Global Features | | | | Voltage | | | | | Technology | | |
| 2.1 Spirit LED |  | ★ ★ ★ | ● | | ● | 41 (20) | 16 28 | | | | ● | ● | ● | |
| 2.2 Brilliant LED |  | ★ ★ ★ | ● | | ● | 20 | 20 28 | | | | ● | ● | ● | |
| 2.3 1903 |  | ★ ★ ★ | ● | | ● | 20 | 22 | | | | ● | ● | ● | |
| 2.4 CrystalWay |  | ★ ★ ★ | ● | ● | ● | 42 | 20 30 | ● | ● | | ● | ● | ● | |
| 2.5 GuideLed Cinema |  | ★ ★ ★ | ● | | ● | 40 | 20 30 | | | | ● | ● | ● | |
| 2.6 GuideLed |  | ★ ★ ★ | ● | | ● | 40 | 20 30 | | | | ● | ● | ● | |
| 2.7 Velos |  | ★ ★ | | | ● | 20 | 30 40 | | | | ● | ● | ● | |
| 2.8 Briteblade LED |  | ★ | | | ● | 20 | 24 | | | | ● | ● | ● | ● |

| | Wall | Ceiling | Recessed | Suspended | Healthcare | Hotels | Cinemas / Theaters | Commercial centers | Stadia / Arenas | Offices | Industrial | Warehouse |
|--|--------------|---------|----------|-----------|--------------|--------|--------------------|--------------------|-----------------|---------|------------|-----------|
| | Installation | | | | Applications | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | | | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | |
| | | | ● | | ● | ● | ● | ● | | ● | | |

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.

SpiritLED 16 CG-S

Exit Sign Panel Luminaires



SpiritLED 16 wire suspension with panel PL/PR



SpiritLED 16 ceiling surface mounting with panel PL/PR



SpiritLED 16 CG-S

- Exclusive Exit sign panel luminaire with LED technology
- Frameless design with pictogram integrated in acrylic glass
- Very good perceptibility via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1, and high uniformity $L_{min}/L_{max} > 0.5$
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|---|
| Viewing distance | 16 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Plastic |
| Weight | 1.0 kg |
| Housing colour | Silver |
| Type of mounting | Recessed and surface ceiling mounting (max. 0.7 m) |
| Connection terminals | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 7 mA |
| Power consumption mains operation (apparent power / effective power) | 3.8 VA / 1.7 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | LED batten |

Ordering details – fastening set

| Type | Scope of supply | Order No. |
|-------------------------------|--|-------------|
| Recessed ceiling mounting kit | with wire suspension, incl. LED supply | 40071352152 |
| Surface mounting kit | incl. LED supply, colour aluminium | 40071352072 |
| Surface mounting kit | with wire suspension, incl. LED supply, colour aluminium | 40071352073 |

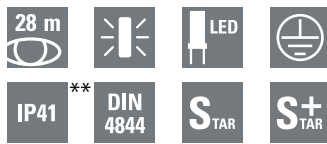
Ordering details - LED pictograms

| Type | Scope of supply | Order No. |
|---------------------------|--|-------------|
| SpiritLED 16 PL/PR | LED panel with pictogram PL/PR and LED-module (fastening set required) acc. to ISO 7010 | 40071354600 |
| SpiritLED 16 PU/PU | LED panel with pictogram PU/PU and LED-module (fastening set required) acc. to ISO 7010 | 40071354601 |
| SpiritLED 16 PU/Blind | LED panel with pictogram PU/Blind and LED-module (fastening set required) acc. to ISO 7010 | 40071354602 |
| SpiritLED 16 PL/PR-R* 90° | LED panel with pictogram PL/PR and LED-module (fastening set required) acc. to ISO 7010 | 40071354603 |
| SpiritLED 16 PL/PR-W* 90° | LED panel with pictogram PL/PR and LED-module (mounting kit is required) is required) acc. to ISO 7010 | 40071354604 |

Please note: Phase-out in Q4-2021!

* R = Arrow from mounting wall
W = Arrow to mounting wall

** Degree of protection recessed ceiling mounting kit IP20



SpiritLED 28 wire suspension with panel PL/PR



SpiritLED 28 Wall mounting with panel PL/PR-R



SpiritLED 28 CG-S

- Exclusive Exit sign panel luminaire with LED technology
- Frameless design with pictogram integrated in acrylic glass
- Very good perceptibility via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1, and high uniformity $L_{min}/L_{max} > 0.5$
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|---|
| Viewing distance | 28 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Plastic |
| Weight | 2.0 kg |
| Housing colour | Silver |
| Type of mounting | Recessed and surface ceiling mounting (max. 0.7 m) |
| Connection terminals | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 16 mA |
| Power consumption mains operation (apparent power / effective power) | 6.6 VA / 3.7 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | LED batten |

Ordering details – fastening set

| Type | Scope of supply | Order No. |
|-------------------------------|--|-------------|
| Recessed ceiling mounting kit | with wire suspension, incl. LED supply | 40071352007 |
| Surface mounting kit | incl. LED supply, colour aluminium | 40071352005 |
| Surface mounting kit | with wire suspension, incl. LED supply, colour aluminium | 40071352006 |

Ordering details - LED pictograms

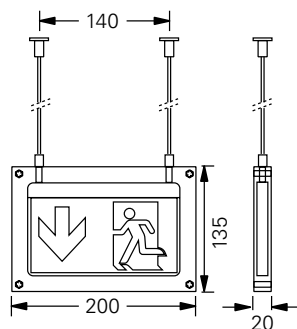
| Type | Scope of supply | Order No. |
|---------------------------|--|-------------|
| SpiritLED 28 PL/PR | LED panel with pictogram PL/PR and LED-module (mounting kit is required) acc. to ISO 7010 | 40071354610 |
| SpiritLED 28 PU/PU | ED panel with pictogram PU/PU and LED-module (mounting kit is required) acc. to ISO 7010 | 40071354611 |
| SpiritLED 28 PU/Blind | LED panel with pictogram PU/Blind and LED-module (mounting kit is required) acc. to ISO 7010 | 40071354612 |
| SpiritLED 28 PL/PR-R* 90° | LED panel with pictogram PL/PR and LED-module (mounting kit is required) acc. to ISO 7010 | 40071354613 |
| SpiritLED 28 PL/PR-W* 90° | LED panel with pictogram PL/PR and LED-module (mounting kit is required) acc. to ISO 7010 | 40071354614 |

Please note: Phase-out in Q4-2021!

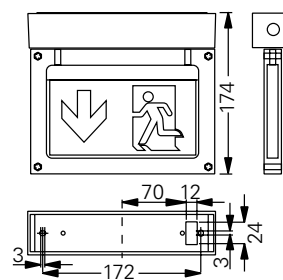
* R = Arrow from mounting wall
W = Arrow to mounting wall

** Degree of protection recessed ceiling mounting kit IP20

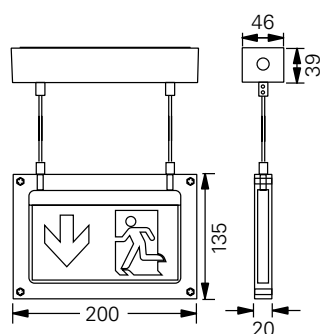
SpiritLED 16



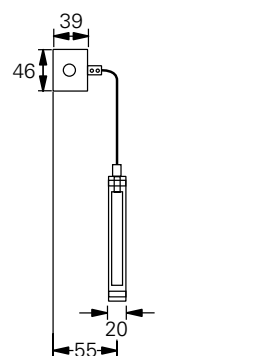
Recessed ceiling mounting
with wire suspension



Surface mounting

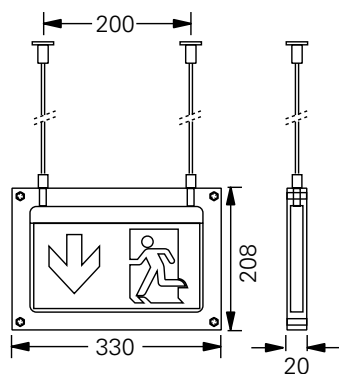


Surface mounting
with wire suspension

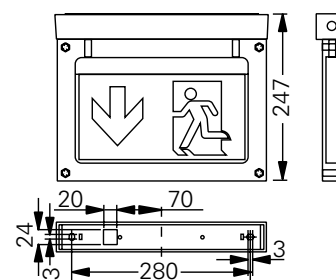


Wall parallel with wire suspension

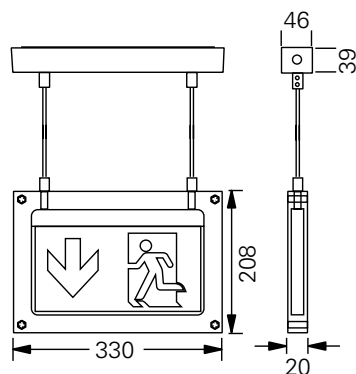
SpiritLED 28



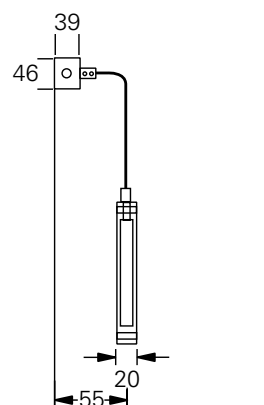
Recessed ceiling mounting
with wire suspension



Surface mounting



Surface mounting
with wire suspension



Wall parallel with wire suspension

Brillant 1503 ... 1803 LED CG-S

Exit Sign Panel Luminaires



Brillant 1503 ... 1803 LED CG-S

- Exit sign panel luminaire in LED technology
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

1503 LED CG-S



| | |
|--|---|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium, sheet steel |
| Weight incl. panel | 2.3 kg (1503 LED CG-S) 2.2 kg (1603 LED CG-S) 1.8 kg (1703 LED CG-S) 2.9 kg (1803 LED CG-S) |
| Housing colour | White |
| Type of mounting | Wall mounting (1503 LED CG-S, 1603 LED CG-S) Ceiling surface, suspended, chain mounting (1703 LED CG-S) Ceiling recessed mounting (1803 LED CG-S) |
| Connection terminals | Plug in terminals 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 12 mA |
| Power consumption mains operation (apparent power / effective power) | 5.5 VA / 2.9 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | LED batten |

1603 LED CG-S



1703 LED CG-S



1803 LED CG-S

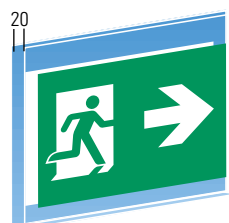


Ordering details

| Type | Scope of supply | Order No. |
|---------------|---|-------------|
| 1503 LED CG-S | Panel luminaire with CEWA GUARD monitoring and 20 digit address switches; for parallel wall mounting, without panel; design: white, RAL 9010 | 40071350900 |
| 1603 LED CG-S | Panel luminaire with CEWA GUARD monitoring and 20 digit address switches; with wall bracket, without panel; design: white, RAL 9010 | 40071350901 |
| 1703 LED CG-S | Panel luminaires with CEWA GUARD monitoring and 20 digit address switches; for surface ceiling mounting, suitable for chain and pendant mounting (not included), without panel; design: white, RAL 9010 | 40071350902 |
| 1803 LED CG-S | Panel luminaires with CEWA GUARD monitoring and 20 digit address switches; for recessed ceiling mounting, with plastic shield RAL 9010, without panel | 40071352292 |

Please note: Phase-out in Q4-2021!

Panel PL/PR



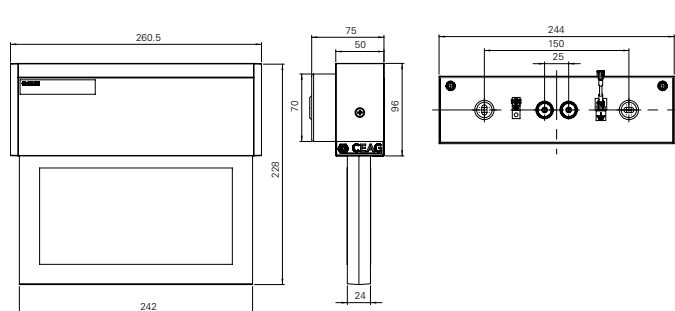
Ordering details

| Type | Scope of supply | Order No. |
|------------------------------|---------------------------|-------------|
| Panel PL/PR acc. to ISO 7010 | Two-sided pictogram panel | 40071354620 |
| Panel PU/PU acc. to ISO 7010 | Two-sided pictogram panel | 40071354621 |
| Panel PU/BL acc. to ISO 7010 | Two-sided pictogram panel | 40071354622 |

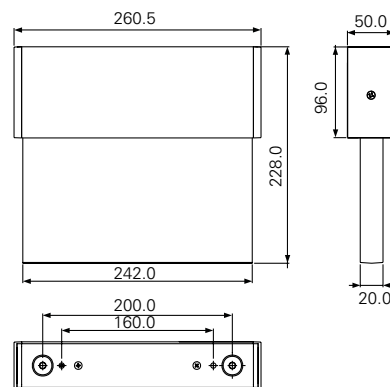
Ordering details

| Type | Order No. |
|------------------------------------|--|
| Bezel for 1803 | metal shield white, RAL 9010 |
| Concrete mounting box for 1803 ... | for installation in concrete ceilings |
| Mounting kit for 1803 ... | for installation in concrete recessing box |
| Suspension set 0.5 m | white canopy and aluminium pendulum tube |
| Suspension set 1.5 m | white canopy and aluminium pendulum tube |
| Chain suspension metal | Chain fastening for 1703 |

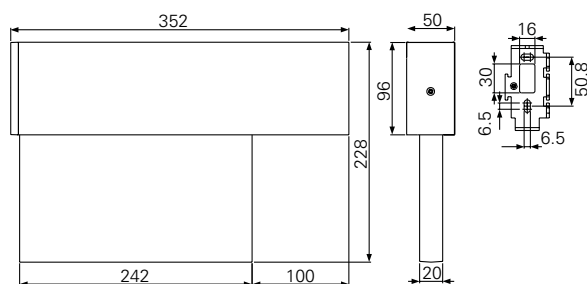
Please note: Phase-out in Q4-2021!



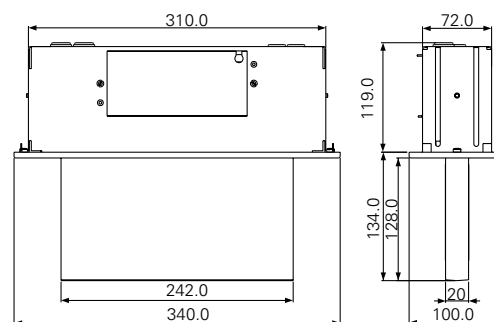
1503 LED CG-S



1703 LED CG-S



1603 LED CG-S



1803 LED CG-S

Ceiling cut-out
327^(+2.5) x 75^(+2.5)

Brillant 1504 ... 1804 LED CG-S

Exit Sign Panel Luminaires



1504 LED CG-S



1604 LED CG-S



1704 LED CG-S



1804 LED CG-S



Brillant 1504 ... 1804 LED CG-S

- Exit sign panel luminaire in LED technology
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

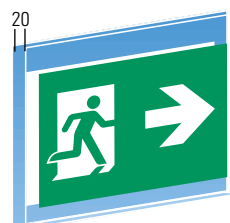
| | |
|--|---|
| Viewing distance | 28 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium, sheet steel |
| Weight incl. panel | 2.7 kg (1504 LED CG-S) 2.5 kg (1604 LED CG-S) 2.2 kg (1704 LED CG-S) 3.3 kg (1804 LED CG-S) |
| Housing colour | White |
| Type of mounting | Wall mounting (1504 LED CG-S, 1604 LED CG-S) Ceiling surface, suspended, chain mounting (1704 LED CG-S) Ceiling recessed mounting (1804 LED CG-S) |
| Connection terminals | Plug in terminals 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 17 mA |
| Power consumption mains operation (apparent power / effective power) | 7.1 VA / 4.1 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | LED batten |

Ordering details

| Type | Scope of supply | Order No. |
|---------------|---|-------------|
| 1504 LED CG-S | Panel luminaire with CEWA GUARD monitoring and 20 digit address switches; with wall bracket for parallel wall mounting, without panel; design: white, RAL 9010 | 40071350903 |
| 1604 LED CG-S | Panel luminaire with CEWA GUARD monitoring and 20 digit address switches; with wall bracket, without panel; design: white, RAL 9010 | 40071350904 |
| 1704 LED CG-S | Panel luminaires with CEWA GUARD monitoring and 20 digit address switches; for surface ceiling mounting, suitable for chain and pendant mounting (not included), without panel; design: white, RAL 9010 | 40071350905 |
| 1804 LED CG-S | Panel luminaires with CEWA GUARD monitoring and 20 digit address switches; for recessed ceiling mounting, without panel; design: plastic shield white, RAL 9010 | 40071350678 |

Please note: Phase-out in Q4-2021!

Panel PL/PR



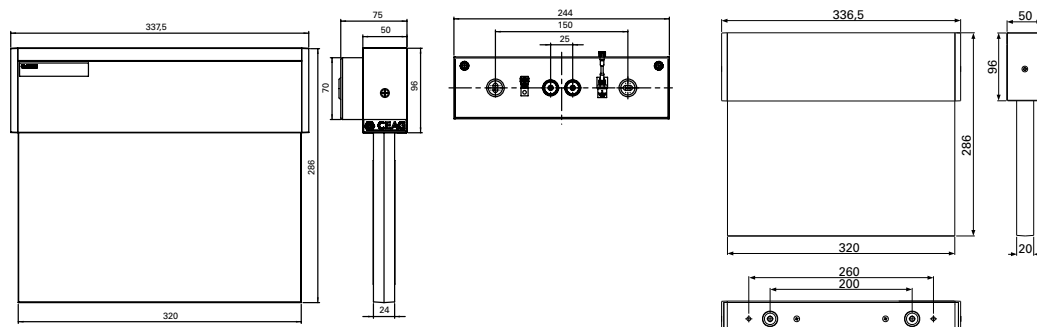
Ordering details

| Type | Scope of supply | Order No. |
|------------------------------|---------------------------|-------------|
| Panel PL/PR acc. to ISO 7010 | Two-sided pictogram panel | 40071354630 |
| Panel PU/PU acc. to ISO 7010 | Two-sided pictogram panel | 40071354631 |
| Panel PU/BL acc. to ISO 7010 | Two-sided pictogram panel | 40071354632 |

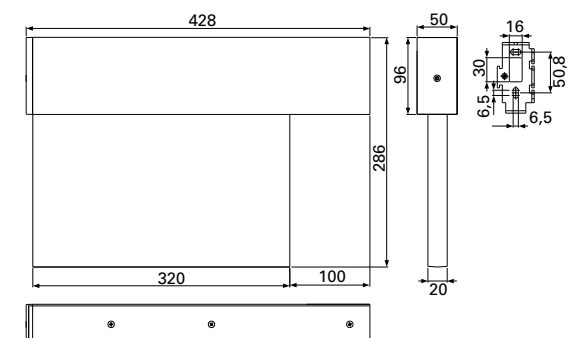
Ordering details

| Type | Order No. |
|------------------------------------|--|
| Bezel for 1804 | metal shield white, RAL 9010 |
| Concrete mounting box for 1804 ... | for installation in concrete ceilings |
| Mounting kit for 1804 ... | for installation in concrete recessing box |
| Suspension set 0.5 m | white canopy and aluminium pendulum tube |
| Suspension set 1.5 m | white canopy and aluminium pendulum tube |
| Chain suspension metal | Chain fastening for 1704 |

Please note: Phase-out in Q4-2021!

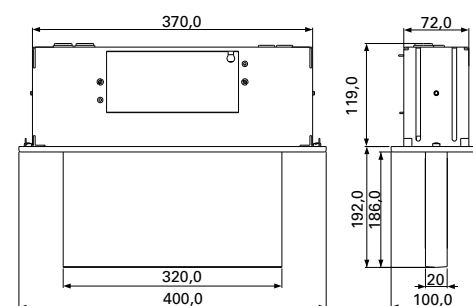


1504 LED CG-S



1604 LED CG-S

1704 LED CG-S



1804 LED CG-S

Ceiling cut-out
387^(+2.5) x 75^(+2.5)

1903 LED CG-S

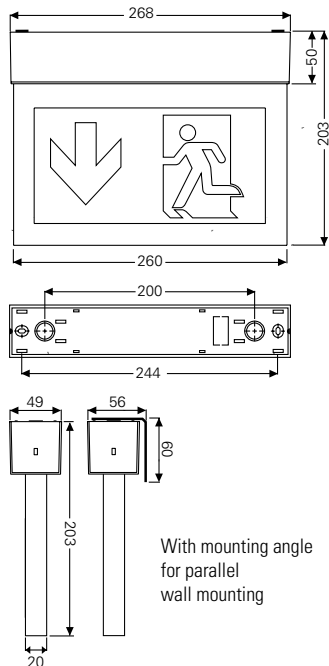
Exit Sign Panel Luminaires



1903 LED CG-S aluminium
with panel PL/PR



1903 LED CG-S white
with panel PL/PR W 90°



With mounting angle
for parallel
wall mounting

1903 LED CG-S

- LED Exit sign panel luminaire in surface-mounted design with minimised rectangular housing form
- Simple mounting of screenprinted pictogram panel via snap-fitting
- 90° wall mounting achieved via special pictogram panel rotated at 90°
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum maintenance effort via high LED service life (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Viewing distance | 22 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Plastic |
| Weight incl. panel | 1.28 kg |
| Housing colour | White / Aluminium |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | Clamp terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 12 mA |
| Power consumption mains operation (apparent power / effective power) | 5.5 VA / 3.0 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | LED batten |

Ordering details

| Type | Scope of supply | Order No. |
|-------------------------------------|--|-------------|
| 1903 LED CG-S white | Luminaire housing plastic, without panel, colour white, with CEWA GUARD monitoring and 20-digit address switch | 40071352230 |
| Panel PL/PR acc. to ISO 7010 | Two-sided pictogram panel 22 m | 40071354660 |
| Panel PU/PU acc. to ISO 7010 | Two-sided pictogram panel 22 m | 40071354661 |
| Panel PU/BL acc. to ISO 7010 | Two-sided pictogram panel 22 m | 40071354662 |
| Panel PL/BL acc. to ISO 7010 | Two-sided pictogram panel 22 m | 40071354663 |
| Panel PR/BL acc. to ISO 7010 | Two-sided pictogram panel 22 m | 40071354664 |
| Panel PL/PR-R* 90° acc. to ISO 7010 | Two-sided pictogram panel 22 m, wall mounting | 40071354666 |
| Panel PL/PR-W* 90° acc. to ISO 7010 | Two-sided pictogram panel 22 m, wall mounting | 40071354665 |

Accessories

| Type | Order No. |
|----------------------|--|
| Mounting angle | for parallel wall mounting, white |
| Suspension set 0.5 m | white canopy and aluminium pendulum tube |
| Suspension set 0.5 m | aluminium canopy and pendulum tube |

Please note: Phase-out in Q4-2021!

* R = Arrow from mounting wall
W = Arrow to mounting wall

CrystalWay 19021 CG-S

Exit Sign Panel Luminaires



Wall-surface mounting



Ceiling-surface mounting



Wire suspension kit



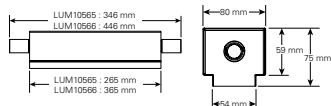
Recessed base



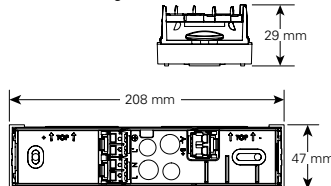
Add-on housing



Concrete box



Add-on housing



CrystalWay 19021 CG-S

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity L_{min}/L_{max} > 0.8
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.6W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Shortened inspection effort due to CEWA GUARD Technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR Technology

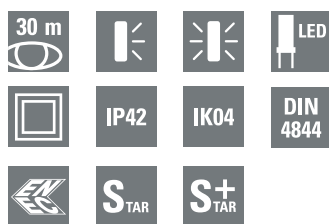
| | |
|--|--|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.4 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power/effective power) | 3.5 VA / 1.6 W |
| Current consumption- battery operation (220 V) | 7 mA |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|-----------------------|--|-------------|
| CrystalWay 19021 CG-S | including pictogram set (Arrow right, left, down, up, blank) | 40071354592 |

Ordering details - Accessories

| Type | Order-No. |
|---|-----------|
| Wire suspension kit, 20 m + 30 m | LUM10560 |
| Recessed base, for ceiling mounting, 20 m | LUM10561 |
| Recessed base with cover, for ceiling mounting, 20 m | LUM10563 |
| Recessed base with cover, for combination with wire suspension, 20 m | LUM10563S |
| Concrete box (suitable for recessed base with cover), 20 m | LUM10565 |
| Add-on housing for CrystalWay 20 m for expanded spatial conditions, for wiring and cable infeed | LUM10567 |
| Pictogram PU, ISO 7010, 20 m | LUM10573 |
| Pictogram PL, ISO 7010, 20 m | LUM10574 |
| Pictogram PR, ISO 7010, 20 m | LUM10575 |
| Pictogram PA, ISO 7010, 20 m | LUM10577 |
| Pictogram PU vertical, ISO 7010, 20 m | LUM10584 |
| Pictogram PL vertical, ISO 7010, 20 m | LUM10585 |
| Pictogram PR vertical, ISO 7010, 20 m | LUM10586 |



Wall-surface mounting



Ceiling-surface mounting



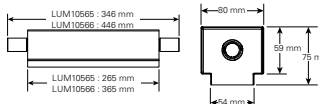
Wire suspension kit



Recessed base



Concrete box



CrystalWay 19022 CG-S

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity Lmin/Lmax > 0.8
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 3.7W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Shortened inspection effort due to CEWA GUARD Technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR Technology

| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_e/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.7 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power/effective power) | 6.5 VA / 3.7 W |
| Current consumption- battery operation (220 V) | 15 mA |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|-----------------------|--|-------------|
| CrystalWay 19022 CG-S | including pictogram set (Arrow right, left, down, up, blank) | 40071354593 |

Ordering details - Accessories

| Type | Order-No. |
|--|-----------|
| Wire suspension kit, 20 m + 30 m | LUM10560 |
| Recessed base, for ceiling mounting, 30 m | LUM10562 |
| Recessed base with cover, for ceiling mounting, 30 m | LUM10564 |
| Recessed base with bezel, for combination with wire suspension, 30 m | LUM10563S |
| Concrete box (suitable for recessed base with cover), 30 m | LUM10566 |
| Pictogram PU, ISO 7010, 30 m | LUM10587 |
| Pictogram PL, ISO 7010, 30 m | LUM10588 |
| Pictogram PR, ISO 7010, 30 m | LUM10589 |
| Pictogram PA, ISO 7010, 30 m | LUM10591 |
| Pictogram PU vertical, ISO 7010, 30 m | LUM10592 |
| Pictogram PL vertical, ISO 7010, 30 m | LUM10593 |
| Pictogram PR vertical, ISO 7010, 30 m | LUM10594 |

CrystalWay 220/45 CG-S

Exit Sign Panel Luminaires



Wall-surface mounting



Ceiling-surface mounting



Wire suspension kit



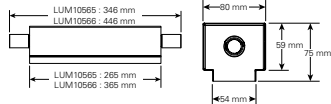
Recessed base



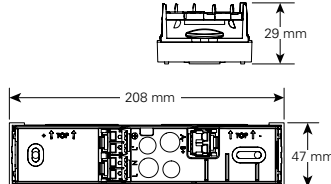
Add-on housing



Concrete box



Add-on housing



French market

CrystalWay 220/45 CG-S

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity L_{min}/L_{max} > 0.8
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.6 W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Shortened inspection effort due to CEWA GUARD Technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR Technology

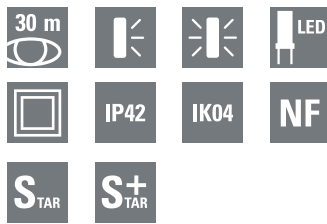
| | |
|--|--|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.4 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power/effective power) | 3.5 VA / 1.6 W |
| Current consumption- battery operation (220 V) | 7 mA |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|------------------------|--|-----------|
| CrystalWay 220/45 CG-S | including pictogram set (Arrow right, left, down, blank) | LUM22214 |
| CrystalWay 220/45 CG-S | including pictogram set (Arrow right, left, down, up, blank) | LUM22214U |

Ordering details - Accessories

| Type | | Order-No. |
|---|--|-----------|
| Wire suspension kit, 20 m + 30 m | | LUM10560 |
| Recessed base, for ceiling mounting, 20 m | | LUM10561 |
| Recessed base with cover, for ceiling mounting, 20 m | | LUM10563 |
| Recessed base with cover, for combination with wire suspension, 20 m | | LUM10563S |
| Concrete box (suitable for recessed base with cover), 20 m | | LUM10565 |
| Add-on housing for CrystalWay 20 m for expanded spatial conditions, for wiring and cable infeed | | LUM10567 |
| Pictogram PU, ISO 7010, 20 m | | LUM10573 |
| Pictogram PL, ISO 7010, 20 m | | LUM10574 |
| Pictogram PR, ISO 7010, 20 m | | LUM10575 |
| Pictogram PA, ISO 7010, 20 m | | LUM10577 |
| Pictogram PU vertical, ISO 7010, 20 m | | LUM10584 |
| Pictogram PL vertical, ISO 7010, 20 m | | LUM10585 |
| Pictogram PR vertical, ISO 7010, 20 m | | LUM10586 |



Wall-surface mounting



Ceiling-surface mounting



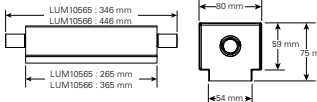
Wire suspension kit



Recessed base



Concrete box



French market

French Market / U: UK Market

CrystalWay 220/45 CG-S XL

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity Lmin/Lmax > 0.8
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 3.7 W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)
- Shortened inspection effort due to CEWA GUARD Technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR Technology

| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.7 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power/effective power) | 6.5 VA / 3.7 W |
| Current consumption- battery operation (220 V) | 15 mA |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|---------------------------|--|-----------|
| CrystalWay 220/45 CG-S XL | including pictogram set (Arrow right, left, down, blank) | LUM22215 |
| CrystalWay 220/45 CG-S XL | including pictogram set (Arrow right, left, down, up, blank) | LUM22215U |

Ordering details - Accessories

| Type | | Order-No. |
|--|--|-----------|
| Wire suspension kit, 20 m + 30 m | | LUM10560 |
| Recessed base, for ceiling mounting, 30 m | | LUM10562 |
| Recessed base with cover, for ceiling mounting, 30 m | | LUM10564 |
| Concrete box (suitable for recessed base with cover), 30 m | | LUM10566 |
| Pictogram PU, ISO 7010, 30 m | | LUM10587 |
| Pictogram PL, ISO 7010, 30 m | | LUM10588 |
| Pictogram PR, ISO 7010, 30 m | | LUM10589 |
| Pictogram PA, ISO 7010, 30 m | | LUM10591 |
| Pictogram PU vertical, ISO 7010, 30 m | | LUM10592 |
| Pictogram PL vertical, ISO 7010, 30 m | | LUM10593 |
| Pictogram PR vertical, ISO 7010, 30 m | | LUM10594 |

CrystalWay 220/45, 220/45XL

Exit Sign Panel Luminaires



French Market / U: UK Market / Portuguese Market

CrystalWay 220/45, 220/45XL

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity L_{min}/L_{max} > 0.8 (except XL variant)
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.8 W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)

Wall-surface mounting



Ceiling-surface mounting



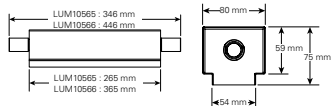
Wire suspension kit



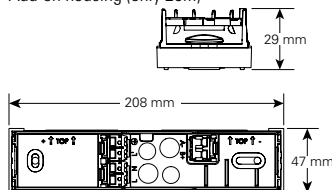
Recessed base



Concrete box



Add-on housing (only 20m)



| | |
|--|-----------------------------|
| Viewing distance | 20 / 30 m (XL variant) |
| Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.4 / 0.7 kg (XL variant) |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 230 V AC, 50 Hz 220 V DC |
| Power consumption mains operation (apparent power/effective power) | 3 VA / 1.8 W |
| Permissible ambient temperature | 5 °C to +35 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|----------------------|--|-----------|
| CrystalWay 220/45 | including pictogram set (Arrow right, left, down, blank) | LUM22212 |
| CrystalWay 220/45 | including pictogram set (Arrow right, left, down, up, blank) | LUM22212U |
| CrystalWay 220/45 XL | including pictogram set (Arrow right, left, down, blank) | LUM22213 |
| CrystalWay 220/45 XL | including pictogram set (Arrow right, left, down, up, blank) | LUM22213U |

Accessories

| Product | | Reference CrystalWay 45 | Reference CrystalWay 45 XL |
|---|--|-------------------------|----------------------------|
| Signage plate suspension kit | | LUM10560 | LUM10560 |
| Mounting frame | | LUM10561 | LUM10562 |
| Mounting frame with surround | | LUM10563 | LUM10564 |
| Recess mounting box | | LUM10565 | LUM10566 |
| Extended base for increased wiring volume | | LUM10567 | |
| Horizontal Down Arrow label | | LUM10573 | LUM10587 |
| Horizontal Left Arrow label | | LUM10574 | LUM10588 |
| Horizontal Right Arrow label | | LUM10575 | LUM10589 |
| Horizontal Up Arrow label | | LUM10577 | LUM10591 |
| Vertical Down Arrow label | | LUM10584 | LUM10592 |
| Vertical Left Arrow label | | LUM10585 | LUM10593 |
| Vertical Right Arrow label | | LUM10586 | LUM10594 |



Wall-surface mounting



Ceiling-surface mounting



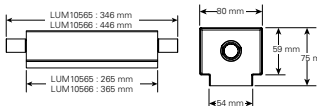
Wire suspension kit



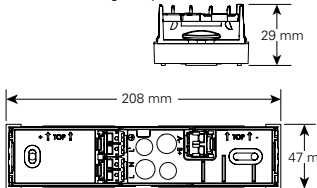
Recessed base



Concrete box



Add-on housing (only 20m)



Italian market

CrystalWay 220/45, 220/45XL

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity Lmin/Lmax > 0.8 (except XL variant)
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.8W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)

| | |
|--|-----------------------------|
| Viewing distance | 20 / 30 m (XL variant) |
| Luminous flux Φ_e/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.4 / 0.7 kg (XL variant) |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 230 V AC, 50 Hz 220 V DC |
| Power consumption mains operation (apparent power/effective power) | 3 VA / 1.8 W |
| Permissible ambient temperature | 5 °C to +35 °C |
| Light source | LED strip |

Ordering details

| Type | Scope of supply | Order-No. |
|----------------------|--|-----------|
| CrystalWay 220/45 | including pictogram set (Arrow right, left, down, blank) | LUM22216 |
| CrystalWay 220/45 XL | including pictogram set (Arrow right, left, down, blank) | LUM22217 |

Accessories

| Product | | Reference CrystalWay 45 | Reference CrystalWay 45 XL |
|---|--|-------------------------|----------------------------|
| Signage plate suspension kit | | LUM10560 | LUM10560 |
| Mounting frame | | LUM10561 | LUM10562 |
| Mounting frame with surround | | LUM10563 | LUM10564 |
| Recess mounting box | | LUM10565 | LUM10566 |
| Extended base for increased wiring volume | | LUM10567 | |
| Horizontal Down Arrow label | | LUM10573 | LUM10587 |
| Horizontal Left Arrow label | | LUM10574 | LUM10588 |
| Horizontal Right Arrow label | | LUM10575 | LUM10589 |
| Horizontal Up Arrow label | | LUM10577 | LUM10591 |
| Vertical Down Arrow label | | LUM10584 | LUM10592 |
| Vertical Left Arrow label | | LUM10585 | LUM10593 |
| Vertical Right Arrow label | | LUM10586 | LUM10594 |

CrystalWay 24-48/45, 24-48/45XL

Exit Sign Panel Luminaires



NF

Wall-surface mounting



Ceiling-surface mounting



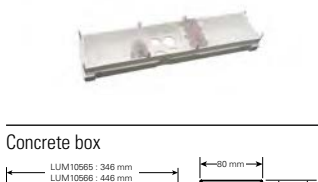
Wire suspension kit



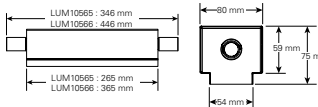
Recessed base



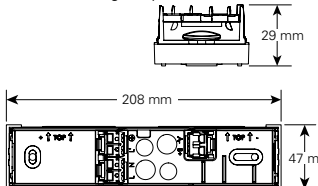
Add-on housing



Concrete box



Add-on housing (only 20m)



French Market

CrystalWay 24-48/45, 24-48/45XL

- Exclusive Exit sign panel luminaire with LED technology
- Concise design with highly transparent frame and replaceable inner screen-printed pictograms
- Includes set of pictograms (arrow right, left, down, up, blind) for the most common applications
- Only one order number for wall or ceiling mounting
- Expandable with extensive accessories, e.g. housing for ceiling recessing, wire suspension, pictograms for 90° wall mounting
- Unobtrusive, thin & slim electronic base (Height: only 22mm)
- Optimal recognition via high luminance of white contrast colour > 500 cd/m² according to DIN 4844-1 / ISO 3864-1 (for bright surroundings), and high uniformity L_{min}/L_{max} > 0.8
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.5 W only.
- Minimum maintenance effort and increased safety via use of LEDs with high service life (50,000 hours)

| | |
|--|------------------------------------|
| Viewing distance | 20 / 30 m (XL variant) |
| Luminous flux Φ_E/Φ_{Nenn} at end of rated operating time | 100 % |
| Housing material | Polycarbonat |
| Housing colour | RAL 9003 |
| Weight | 0.4 / 0.7 kg (XL variant) |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 24 – 48 V DC |
| Power consumption mains operation (apparent power/effective power) | LUM22210: 1.5 W LUM22211: 1.9 W |
| Permissible ambient temperature | 5 °C to +35 °C |
| Light source | LED strip |

Ordering details

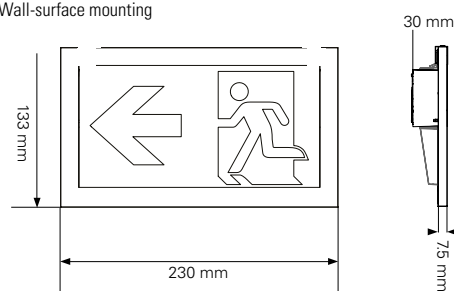
| Type | Scope of supply | Order-No. |
|------------------------|--|-----------|
| CrystalWay 24-48/45 | including pictogram set (Arrow right, left, down, blank) | LUM22210 |
| CrystalWay 24-48/45 XL | including pictogram set (Arrow right, left, down, blank) | LUM22211 |

Accessories

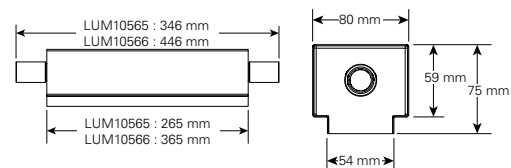
| Product | | Reference CrystalWay 45 | Reference CrystalWay 45 XL |
|---|--|-------------------------|----------------------------|
| Signage plate suspension kit | | LUM10560 | LUM10560 |
| Mounting frame | | LUM10561 | LUM10562 |
| Mounting frame with surround | | LUM10563 | LUM10564 |
| Recess mounting box | | LUM10565 | LUM10566 |
| Extended base for increased wiring volume | | LUM10567 | |
| Horizontal Down Arrow label | | LUM10573 | LUM10587 |
| Horizontal Left Arrow label | | LUM10574 | LUM10588 |
| Horizontal Right Arrow label | | LUM10575 | LUM10589 |
| Horizontal Up Arrow label | | LUM10577 | LUM10591 |
| Vertical Down Arrow label | | LUM10584 | LUM10592 |
| Vertical Left Arrow label | | LUM10585 | LUM10593 |
| Vertical Right Arrow label | | LUM10586 | LUM10594 |

Dimensions in mm, viewing distance 20 m

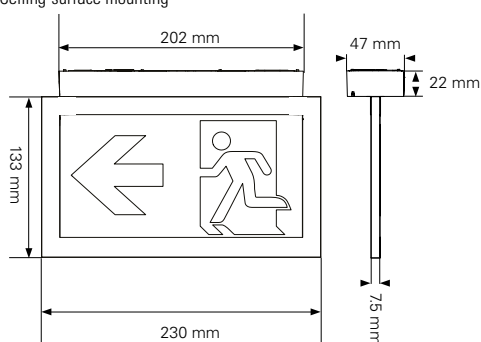
Wall-surface mounting



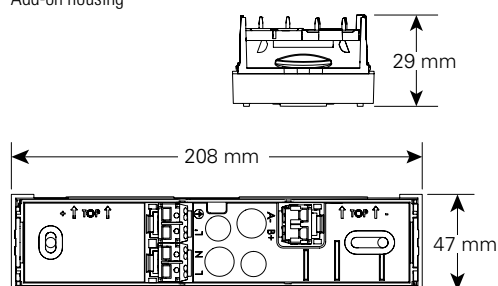
Concrete box



Ceiling-surface mounting

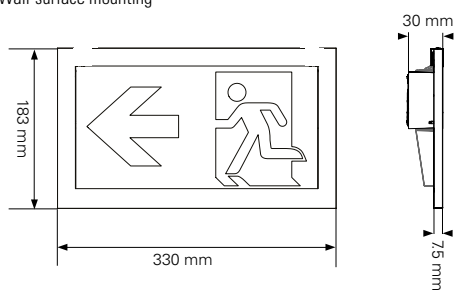


Add-on housing

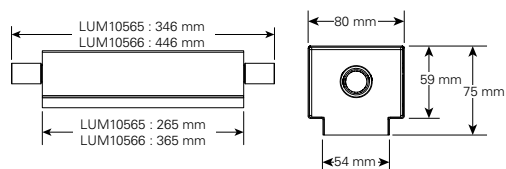


Dimensions in mm, viewing distance 30 m (XL)

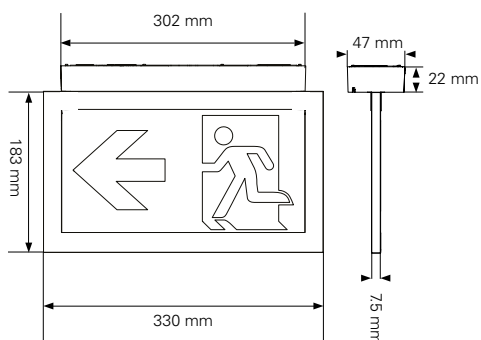
Wall-surface mounting



Concrete box



Ceiling-surface mounting

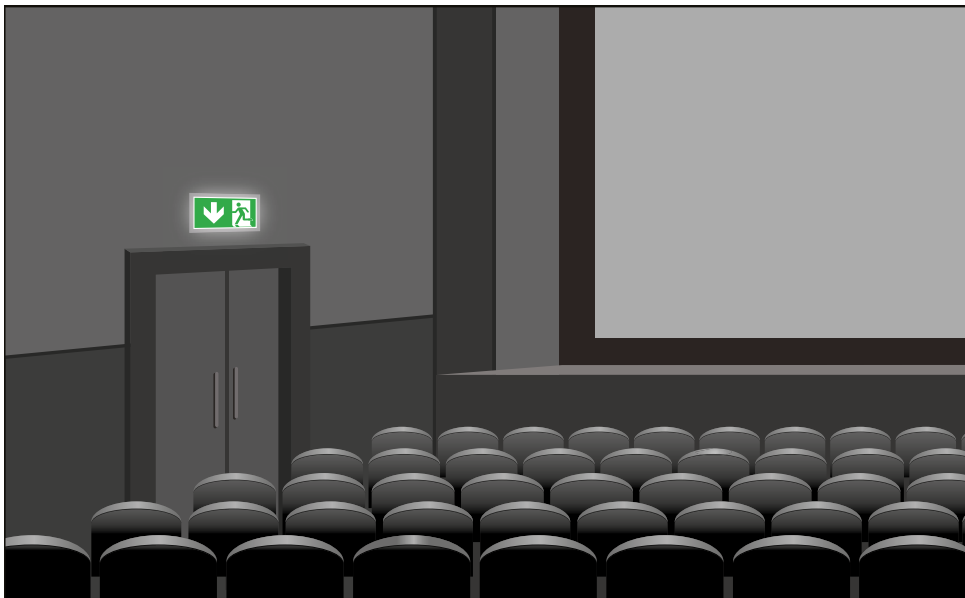




Eatons new exit sign luminaire for assembly rooms darkened during operation

Exit sign luminaire for assembly rooms darkened during operation

The GuideLed Cinema - our classic with a new feature: the exit sign luminaire from Eaton offers due of the dimming undisturbed and glare-free movie enjoyment without neglecting safety.



Admission with 100% Licht

During the admission, the hall lighting is switched on. The GuideLed Cinema are fixed undimmed to 100% luminous flux.



Cinema show with dimmed light

At the beginning of the cinema show, the lighting in the hall is dimmed to off. The GuideLed Cinema is dimmed to adjusted dim-level via the dimming input:

Via a rotary switch a desired dimming value can be adjusted in order to optically adapt to circumstances.

In case of an emergency, the exit sign luminaire regulates the luminous flux directly to 100% so that the room can be safely left.

GuideLed Cinema 1x011 CG-S

Exit Sign Panel Luminaires



Features

- Dimming via pot.-free input for connection of external switch actors
- One of ten possible dimming values via rotary switch selectable
- For 20m and 30m viewing distance
- Minimized maintenance effort due to high life expectancy of LEDs of up to 50.000 hours
- Toolless mounting of the LED pictogram on the mounting set
- Fulfills the EN1838 in dimming mode at > 3% dimming setting



The exit sign luminaires GuideLed Cinema 10011 or 11011 CG-S are special designed for dark rooms like cinemas. To avoid a glare due to bright exit sign during a movie presentation, the GuideLed Cinema 10011/11011 CG-S has a switch input, which dims the exit sign to a fix light output, if the input is closed via a potential free relay contact, e.g. DMX actor. It is possible to select **one** of ten available DIM levels. In case of emergency operation, e.g. mains failure of the general lighting, the exit signs regulates immediately to 100% light output so that the hall can be left safely.



Areas of application

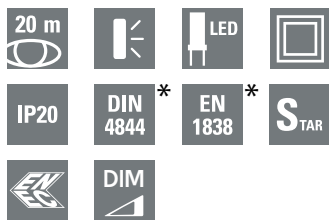
- Cinema
- Theater
- Projection room
- Training room
- Lecture hall
- Planetarium

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GuideLed Cinema 10011 CG-S

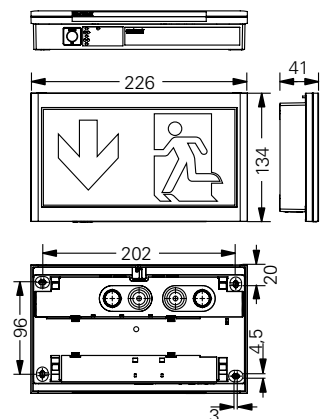
Exit Sign Panel Luminaires



GuideLed Cinema 10011 CG-S



Dimensions in mm



Please observe a distance of 10 mm above for mounting!

GuideLed Cinema 10011 CG-S

- Escape sign luminaire with LED Lightguide technology for wall-mounting
- Additional feature: Dimming input
- Specially designed for operationally darkened rooms, e.g. cinemas, dimming is possible during film screening
- Dimming can be activated via potential-free switching input
- One of 10 possible dimming values adjustable via rotary switch
- Luminance of the white contrasting colour > 500 cd/m² in line with DIN 4844-1 and high uniformity L_{min}/L_{max} > 0.8 (dimmer switch position of 100%)
- Reduced battery costs on account of especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50 000 hours)
- Installation of the LED pictogram without tools on the mounting set

| | |
|--|---|
| Viewing distance | 20 m |
| Luminous Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.7 kg |
| Type of mounting | Wall mounting |
| Connection terminal | Mains 3 x 2 x 2.5 mm ² Switch input / 2 x 2 x 1.5 mm ² |
| Connection voltage | 220 - 240 V AC, 50/60 Hz 176 V - 275 V DC |
| Current consumption - battery operation (220 V) | 8 mA (undimmed) |
| Power consumption mains operation (apparent power / effective power) | 4.0 VA / 1.9 W |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED stripes |

Ordering details - fastening set

LED pictograms must ordered sepearate

Wall mounting set for GuideLed Cinema 10011/11011CG-S, Surface mounting, including LED supply with additional dimming input and CG-S technology (20 addresses)

Order No.

40071354656

Ordering details - LED pictograms (fastening set required)

Scope of supply

LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow left (PL), acc. ISO 7010, 20 m



Order No.

40071354500

LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow right (PR), acc. ISO 7010, 20 m



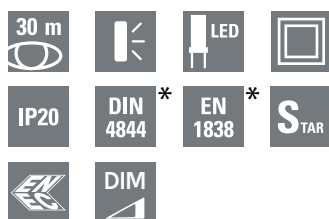
40071354501

LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow down (PU), acc. ISO 7010, 20 m



40071354502

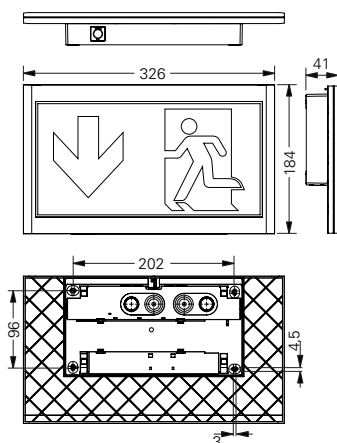
* Adjustable dimming level:
3%, 5%, 7%, 9%, 11%, 14%, 30% (fulfills EN 1838)
100% (fulfills ISO 3864-1)



GuideLed Cinema 11011 CG-S



Dimensions in mm



Please observe a distance of 10 mm above for mounting!

GuideLed Cinema11011 CG-S

- Escape sign luminaire with LED Lightguide technology for wall-mounting
- Additional feature: Dimming input
- Specially designed for operationally darkened rooms, e.g. cinemas, dimming is possible during film screening
- Dimming can be activated via potential-free switching input
- One of 10 possible dimming values adjustable via rotary switch
- High luminance of the white contrasting colour
> 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity L_{min}/L_{max} > 0.8 (dimmer switch position of 100%)
- Reduced battery costs on account of especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50 000 hours)
- Installation of the LED pictogram without tools on the mounting set

| | |
|--|---|
| Viewing distance | 30 m |
| Luminous Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.7 kg |
| Type of mounting | Wall mounting |
| Connection terminal | Mains 3 x 2 x 2.5 mm ² Switch input / 2 x 2 x 1.5 mm ² |
| Connection voltage | 220 - 240 V AC, 50/60 Hz 176 V - 275 V DC |
| Current consumption - battery operation (220 V) | 11 mA (undimmed) |
| Power consumption mains operation (apparent power / effective power) | 5.0 VA / 2.6 W |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED stripes |

Ordering details - fastening set

LED pictograms must ordered seperate

| | Order No. |
|--|-------------|
| Wall mounting set for GuideLed Cinema 10011/11011CG-S, Surface mounting, including LED supply with additional dimming input and CG-S technology (20 addresses) | 40071354656 |

Ordering details - LED pictograms (fastening set required)

| Scope of supply | | Order No. |
|--|--|-------------|
| LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow left (PL), acc. ISO 7010, 30 m | | 40071354530 |
| LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow right (PR), acc. ISO 7010, 30 m | | 40071354531 |
| LED pictogram for GuideLed 10011/10012/10013 CG-S, arrow down (PU), acc. ISO 7010, 30 m | | 40071354532 |

* Adjustable dimming level:
3%, 5%, 7%, 9%, 11%, 14%, 30% (fulfills EN 1838)
100% (fulfills ISO 3864-1)





Linear design combined with high economy

The GuideLed LED luminaire family is a prime example of how the adherence to standards, diverse possibilities for mounting and a high level of economy is not at all contrary to outstanding design. With GuideLed, an escape sign luminaire was developed that completely fulfills the stipulations of ISO 3864-1 and DIN 4844-1, including the requirement for 500 cd/m² within the white surface.

The basis for these values is the highly developed Lightguide technology that transforms the high point-sourced luminance of an LED into an illuminated surface with absolutely homogeneous brightness. The LEDs used in this process ensure a high level of operational safety, and with a service life of 50,000 hours significantly reduce maintenance costs. And all of this with a power consumption that is up to 70 % below a comparable luminaire with fluorescent lamp.

The wide-ranging product portfolio makes GuideLed a real all-rounder: escape sign luminaires with viewing distances of 20 m or 30 m, as single-sided or double-sided versions and with a total of six different mounting types make them the optimal solution for all room situations. All GuideLed escape sign luminaires impress with clear functionality, an especially flat construction design and without visible screw connections.

Features:

- Lightguide technology for perfect illumination in line with standards and for a special slender design
- High efficiency LEDs for a higher operational safety and especially low power consumption
- Up to 70% lower power costs compared to luminaires with fluorescent lamps
- Minimum service requirement due to high service life of the LEDs (50,000 h)
- Two viewing distances (20 m and 30 m) with versatile types of installation in a continuous design without visible screw fastenings

The versatile types of installation turn the GuideLed into an all-rounder.

With its extensive range of products and a large choice of pictograms, GuideLed offers the perfect solution for every room situation. GuideLed is supplied in an unobtrusive light-grey colour as a standard.

Upon request other colours as well as individual special pictograms can be supplied harmonised to the respective architecture.

All variants are available in two viewing distances



Wall mounting with recessed installation of the LED supply



Wall surface mounting



Ceiling mounting



Exemplary design based on revolutionary technology.

Exit signs have to be well visible in order to provide orientation in case of an emergency. And, they have to be unobtrusively enough to match the architecture.

Irrespective of whether the luminaire is installed to the wall or is suspended freely, both GuideLed variants stand out for their clear functionality without visible screw connections and their unsurpassed flat design.



The wall mounting appears especially unobtrusive with a mounting height of only 14 mm.



Cable suspension



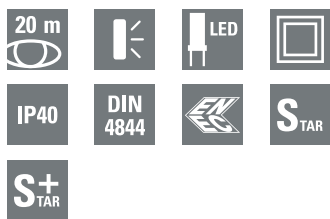
Pendant mounting



Recessed mounting

GuideLed 10011, 10012, 10013 CG-S

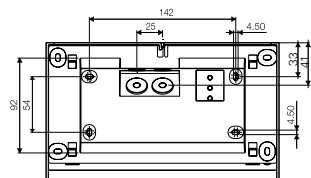
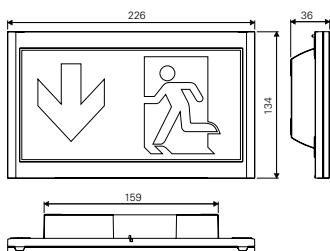
Exit Sign Panel Luminaires



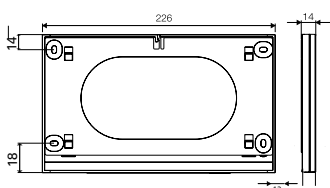
GuideLed 10011 CG-S



Dimensions in mm



10011 CG-S



10012/10013 CG-S

Please observe a distance of 10 mm above for mounting!

GuideLed 10011, 10012, 10013 CG-S

- Exit sign luminaire in LED technology for wall mounting
- Slender design with mounting heights of 14 mm or 36 mm only
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{\min}/L_{\max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 1.9W only
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Installation of the LED pictogram without tools on the mounting set

| | |
|--|---|
| Viewing distance | 20 m |
| Luminous Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.47 kg (10011 LED CG-S) 0.41 kg (10012, 10013 LED CG-S) |
| Type of mounting | Wall mounting |
| Connection terminal | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 V – 275 V DC |
| Current consumption - battery operation (220 V) | 8 mA |
| Power consumption mains operation (apparent power / effective power) | 4.0 VA / 1.9 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

Ordering details - fastening set

| LED pictograms must ordered separte | Order No. |
|--|-------------|
| Wall mounting set for GuideLed 10011 CG-S and 11011 CG-S, surface-mounted installation incl. LED supply and CG-S technology (20 addresses), without LED pictograms | 40071353641 |
| Wall mounting set for GuideLed 10012 CG-S and 11012 CG-S, flush-mounted installation of the V-CG-SLS28* (angular) and CG-S technology (20 addresses) | 40071353642 |
| Wall mounting set for GuideLed 10013 CG-S and 11013 CG-S, flush-mounted installation of the V-CG-SLR28* (round) and CG-S technology (20 addresses) | 40071353644 |

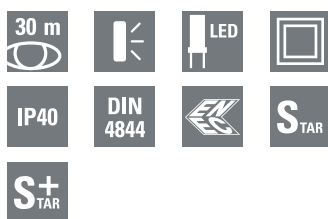
Ordering details - LED pictograms (fastening set required)

| Scope of supply | Order No. |
|--|-------------|
| LED pictogram PL for GuideLed 10011/10012/10013 CG-S, ISO 7010, 20 m | 40071354500 |
| LED pictogram PR for GuideLed 10011/10012/10013 CG-S, ISO 7010, 20 m | 40071354501 |
| LED pictogram PU for GuideLed 10011/10012/10013 CG-S, ISO 7010, 20 m | 40071354502 |

Ordering details - accessories

| Scope of supply | Order No. |
|---|-------------|
| Feed-through wiring set for GuideLed 10011/11011 CG-S | 40071353643 |

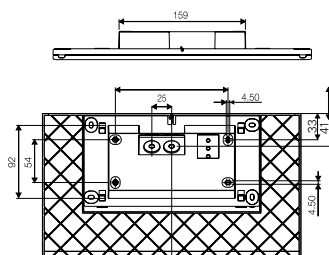
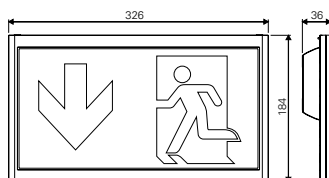
* Installation of the LED supply in a not included device, for further information about the LED supply see module SLS28 und SLR28.



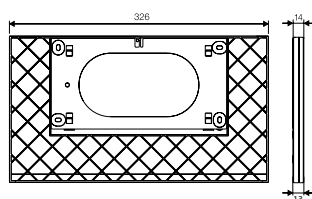
GuideLed 11011 CG-S



Dimensions in mm



11011 CG-S



11012/11013 CG-S

Please observe a distance of 10 mm above for mounting!

GuideLed 11011, 11012, 11013 CG-S

- Exit sign luminaire in LED technology for wall mounting
- Slender design with mounting heights of 14 mm or 36 mm only
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{min}/L_{max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 2.6W only
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Installation of the LED pictogram without tools on the mounting set

| | |
|--|---|
| Viewing distance | 30 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.60 kg (11011 LED CG-S) 0.56 kg (11012/11013 LED CG-S) |
| Type of mounting | Wall mounting |
| Connection terminal | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 V – 275 V DC |
| Current consumption - battery operation (220 V) | 11 mA |
| Power consumption mains operation (apparent power / effective power) | 5.0 VA / 2.6 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

Ordering details - fastening set

| LED pictograms must ordered seperate | Order No. |
|---|-------------|
| Wall mounting set for GuideLed 10011 CG-S and 11011 CG-S, surface-mounted installation incl. LED supply and CG-S technology (20 addresses) | 40071353641 |
| Wall mounting set for GuideLed 10012 CG-S and 11012 CG-S, flush-mounted installation of the included V-CG-SLS28* (angular) and CG-S technology (20 addresses) | 40071353642 |
| Wall mounting set for GuideLed 10013 CG-S and 11013 CG-S, flush-mounted installation of the included V-CG-SLR28* (round) and CG-S technology (20 addresses) | 40071353644 |

Ordering details - LED pictograms (fastening set required)

| Scope of supply | Order No. |
|--|-------------|
| LED pictogram PL for GuideLed 11011/11012/11013 CG-S, ISO 7010, 30 m | 40071354530 |
| LED pictogram PR for GuideLed 11011/11012/11013 CG-S, ISO 7010, 30 m | 40071354531 |
| LED pictogram PU for GuideLed 11011/11012/11013 CG-S, ISO 7010, 30 m | 40071354532 |

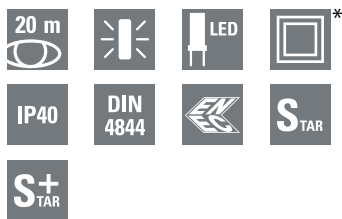
Ordering details - accessories

| Scope of supply | Order No. |
|---|-------------|
| Feed-through wiring set for GuideLed 10011/11011 CG-S | 40071353643 |

* Installation of the LED supply in a not included device, for further information about the LED supply see module SLS28 and SLR28.

GuideLed 10021, 10022, 10023, 10024 CG-S

Exit Sign Panel Luminaires



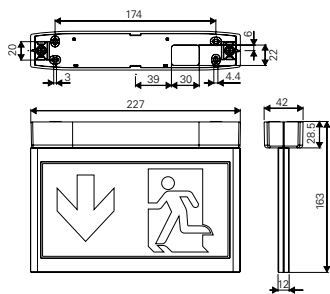
GuideLed 10021, 10022, 10023, 10024 CG-S

- Exit sign panel luminaire in LED technology for ceiling installation
- Slender design with pictogram width of only 12 mm
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{min}/L_{max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 2.9 W only (1.9 W one-sided)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)

GuideLed 10021 CG-S



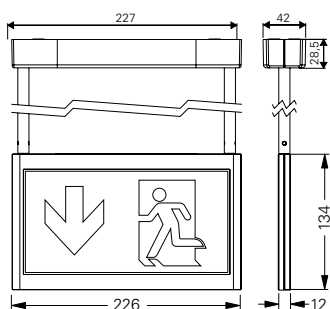
Dimensions in mm



GuideLed 10022 CG-S



Dimensions in mm



| | |
|--|--|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.39 kg (10021 LED CG-S) 0.49 kg (10022 LED CG-S) 0.54 kg (10023 LED CG-S) 0.70 kg (10024 LED CG-S) |
| Type of mounting | Ceiling, suspended, recessed installation |
| Connection terminal | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 V – 275 V DC |
| Current consumption - battery operation (220 V) | one-sided 8 mA – two-sided 12 mA |
| Power consumption mains operation (apparent power / effective power) | one-sided 4.0 VA / 1.9 W two-sided 5.5 VA / 2.9 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

Ordering details - fastening set

LED pictograms must ordered separte

| | Order No. |
|--|-------------|
| Ceiling installation set for GuideLed 10021 CG-S with canopy incl. LED supply and CG-S technology (20 addresses) | 40071353610 |
| Ceiling installation set for GuideLed 10022 CG-S with canopy and tube suspension 0.5 m incl. LED supply and CG-S technology (20 addresses) | 40071353611 |
| Ceiling installation set for GuideLed 10023 CG-S with canopy and tube suspension 1.5 m incl. LED supply and CG-S technology (20 addresses) | 40071353612 |
| Ceiling installation set for GuideLed 10024 CG-S incl. recessed installation housing incl. LED supply and CG-S technology (20 addresses)* | 40071353613 |

Ordering details - accessories

Scope of supply

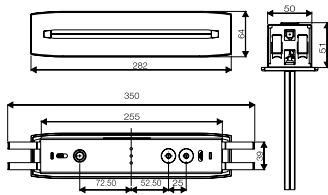
| | Order No. |
|--|-------------|
| Chain fastening for 10021 CG-S | 40071353645 |
| Concrete installation GuideLed 10024 CG-S, 20 m* | 40071352892 |

* Ceiling mounting set for GuideLed 10024 and concrete installation box corresponding to protection class I

GuideLed 10024 CG-S



Dimensions in mm



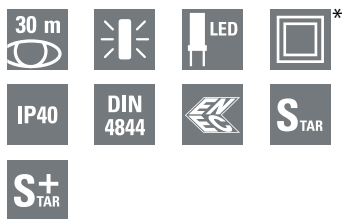
Ordering details - LED pictograms*

| Scope of supply | | Order No. |
|--|--|-------------|
| LED pictogram PL/PR, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354503 |
| LED pictogram PU/PU, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354504 |
| LED pictogram PL/BL, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354505 |
| LED pictogram PR/BL, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354506 |
| LED pictogram PU/BL, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354507 |
| LED pictogram PL/PR-R**, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354508 |
| LED pictogram PL/PR-W**, for GuideLed 10021/10022/10023/10024 CG-S, ISO 7010, 20 m | | 40071354509 |

** R = Arrow from mounting wall
W = Arrow to mounting wall

GuideLed 11021, 11022, 11023, 11024 CG-S

Exit Sign Panel Luminaires



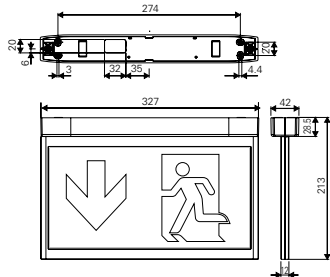
GuideLed 11021, 11022, 11023, 11024 CG-S

- Exit sign panel luminaire in LED technology for ceiling installation
- Slender design with pictogram width of only 12 mm
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{min}/L_{max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 4.1 W only (2.6 W one-sided, radiating)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)

GuideLed 11021 CG-S



Dimensions in mm

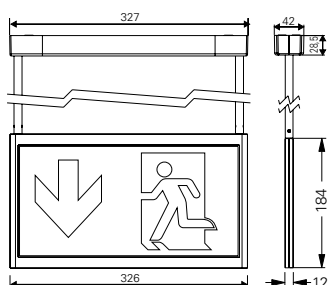


| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.79 kg (11021 LED CG-S) 0.94 kg (11022 LED CG-S) 0.99 kg (11023 LED CG-S) 1.22 kg (11024 LED CG-S) |
| Type of mounting | Ceiling, suspended, recessed installation |
| Connection terminal | Clamp terminal 2.5 mm ² reverse-polarity protected |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | one-sided 11 mA – two-sided 17 mA |
| Power consumption mains operation (apparent power / effective power) | one-sided 5.0 VA / 2.6 W two-sided 7.1 VA / 4.1 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

GuideLed 11022 / 11023 CG-S



Dimensions in mm



Ordering details - fastening set

LED pictograms must ordered separate

| | Order No. |
|---|-------------|
| Ceiling installation set for GuideLed 11021 CG-S with canopy incl. LED supply and CG-S technology (20 addresses) | 40071353620 |
| Ceiling installation set for GuideLed 11022 CG-S with canopy and tube suspension 0.5 m, incl. LED supply and CG-S technology (20 addresses) | 40071353621 |
| Ceiling installation set for GuideLed 11023 CG-S with canopy and tube suspension 1.5 m, incl. LED supply and CG-S technology (20 addresses) | 40071353622 |
| Ceiling installation set for GuideLed 11024 CG-S incl. recessed installation housing incl. LED supply and CG-S technology (20 addresses)* | 40071353623 |

Ordering details - accessories

Scope of supply

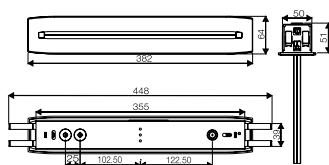
| | Order No. |
|--|-------------|
| Chain fastening for 11021 CG-S | 40071353646 |
| Concrete installation box for GuideLed 11024 CG-S, 30 m* | 40071352893 |

* Ceiling mounting set for GuideLed 11024 and concrete installation box corresponding to class of protection I

GuideLed 11024 CG-S



Dimensions in mm



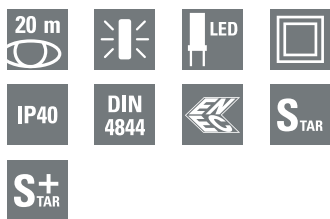
Ordering details - LED pictograms*

| Scope of supply | | Order No. |
|--|--|-------------|
| LED pictogram PL/PR, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354533 |
| LED pictogram PU/PU, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354534 |
| LED pictogram PL/BL, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354535 |
| LED pictogram PR/BL, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354536 |
| LED pictogram PU/BL, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354537 |
| LED pictogram PL/PR-R**, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354538 |
| LED pictogram PL/PR-W**, for GuideLed 11021/11022/11023/11024 CG-S, ISO 7010, 30 m | | 40071354539 |

** R = Arrow from mounting wall
W = Arrow to mounting wall

GuideLed 10025, 10026 CG-S

Exit Sign Panel Luminaires



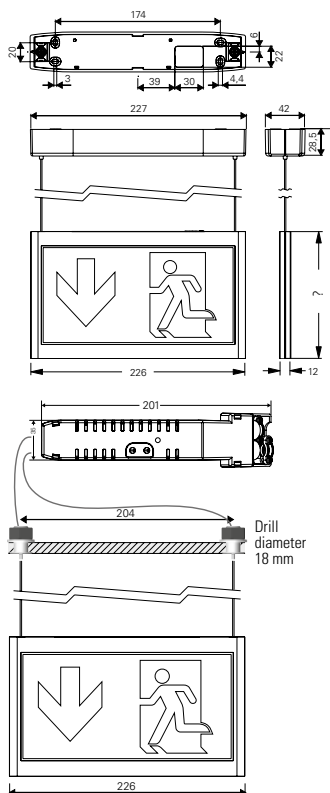
GuideLed 10025, 10026 CG-S

- Exit sign panel luminaire in LED technology for ceiling installation
- Slender design with pictogram width of only 12 mm
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{min}/L_{max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 2.9 W only (1.9 W one-sided)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)

GuideLed 10025 CG-S



Dimensions in mm



GuideLed 10026 CG-S

| | |
|--|--|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.40 kg (10025 LED CG-S) 0.52 kg (10026 LED CG-S) |
| Type of mounting | Suspended installation (max. 1.5 m) |
| Connection terminal | Clamp terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | one-sided 8 mA – two-sided 12 mA |
| Power consumption mains operation (apparent power / effective power) | one-sided 4.0 VA / 1.9 W two-sided 5.5 VA / 2.9 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

Ordering details - fastening set

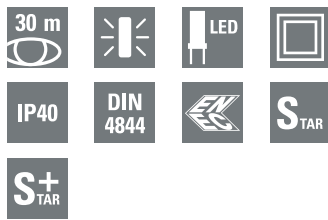
LED pictograms must ordered separate

| | Order No. |
|---|-------------|
| Cable installation set for GuideLed 10025 CG-S with LED supply and CG-S technology (20 addresses) integrated in the canopy | 40071353609 |
| Cable installation set for GuideLed 10026/11026 CG-S with ceiling cable holder LED supply and CG-S technology (20 addresses) integrated in a housing with strain relief | 40071353640 |

Ordering details - LED pictograms (fastening set required)

Scope of supply

| | Order No. |
|--|-------------|
| LED pictogram PL/PR for GuideLed 10025/10026 CG-S (cable installation), ISO 7010, 20 m | 40071354510 |
| LED pictogram PU/PU for GuideLed 10025/10026 CG-S (cable installation), ISO 7010, 20 m | 40071354511 |
| LED pictogram PL/BL for GuideLed 10025/10026 CG-S (cable installation), ISO 7010, 20 m | 40071354512 |
| LED pictogram PR/BL for GuideLed 10025/10026 CG-S (cable installation), ISO 7010, 20 m | 40071354513 |
| LED pictogram PU/BL for GuideLed 10025/10026 CG-S (cable installation), ISO 7010, 20 m | 40071354514 |



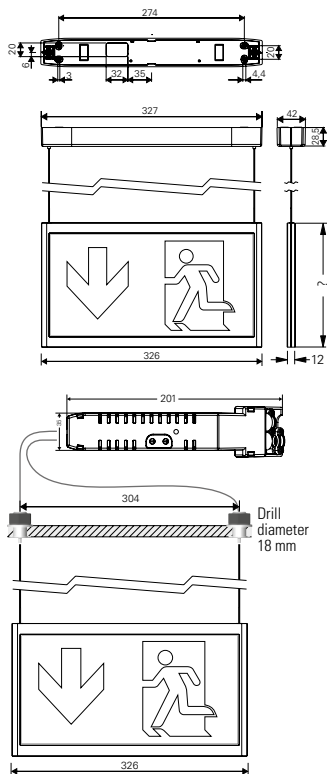
GuideLed 11025, 11026 CG-S

- Exit sign panel luminaire in LED technology for ceiling installation
- Slender design with pictogram width of only 12 mm
- Very good perceptibility due to of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard ISO 3864-1 and high uniformity $L_{min}/L_{max} > 0.8$
- Reduced battery costs due to of especially low power consumption
- Low operating costs due to of low effective power of 2.9W only (1.9W one-sided, radiating)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)

GuideLed 11025 CG-S



Dimensions in mm



GuideLed 11026 CG-S

| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | PC, PMMA |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.81 kg (11025 LED CG-S) 0.93 kg (11026 LED CG-S) |
| Type of mounting | Suspended installation (max. 1.5 m) |
| Connection terminal | Clamp terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | one-sided 11 mA – two-sided 17 mA |
| Power consumption mains operation (apparent power / effective power) | one-sided 5.0 VA / 2.6 W two-sided 7.1 VA / 4.1 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | LED batten |

Ordering details - fastening set

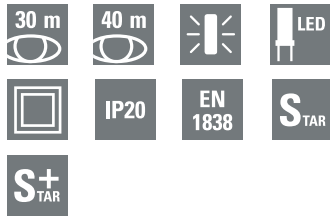
| LED pictograms must ordered separete | Order No. |
|--|-------------|
| Cable installation set for 11025 CG-S with LED supply and CG-S technology (20 addresses) integrated in the canopy | 40071353619 |
| Cable installation set for GuideLed 10026/11026 CG-S with ceiling cable holder, LED supply and CG-S technology (20 addresses) integrated in a housing with strain relief | 40071353640 |

Ordering details - LED pictograms

| Scope of supply | Order No. |
|--|-------------|
| LED pictogram PL/PR for GuideLed 11025/11026 CG-S (cable installation), ISO 7010, 30 m | 40071354540 |
| LED pictogram PU/PU for GuideLed 11025/11026 CG-S (cable installation), ISO 7010, 30 m | 40071354541 |
| LED pictogram PL/BL for GuideLed 11025/11026 CG-S (cable installation), ISO 7010, 30 m | 40071354542 |
| LED pictogram PR/BL for GuideLed 11025/11026 CG-S (cable installation), ISO 7010, 30 m | 40071354543 |
| LED pictogram PU/BL for GuideLed 11025/11026 CG-S (cable installation), ISO 7010, 30 m | 40071354544 |

Velos LED CG-S

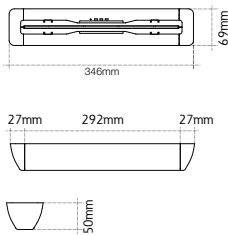
Exit Sign Panel Luminaires



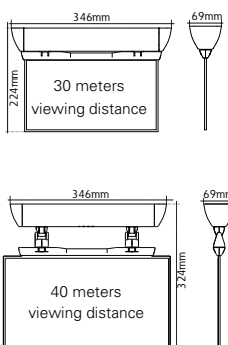
Velos LED CG-S



Dimensions in mm
dimensions - PSUs



dimensions - Emergency sign



Velos LED CG-S

- Velos range of Exit sign panel luminaires are low profile with LED technology, designed and equipped with technical solutions and accessories for both ceiling and wall applications
- Slender design with pictogram width of only 6 mm
- simple mounting of screenprinted pictogram panel via snap-fitting
- 90° wall mounting achieved via special pictogram panel roated at 90°
- Reduced battery costs on account of especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|---|---|
| Viewing distance | 30 m and 40 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | White RAL 9016 |
| Weight | PSU O-ES-CG-S 0.35 kg Exit sign O-ESP-xxx (30 m) 0.55 kg Exit sign O-ESP40-xxx (40 m) 0.87 kg |
| Type of mounting | Wall and Ceiling mounting |
| Connection terminals | 2 x 2 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption- battery operation (220 V) | 20 mA |
| Power consumption mains operation (apparent power / effective power) | 7.5 VA / 4.5 W |
| Permissible temperature range | 0 °C to +40 °C |
| Light source | 24 LED strip |

Ordering details

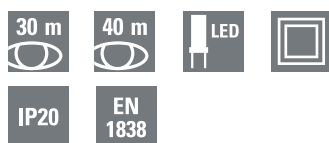
| Type | Scope of supply | Order No |
|----------------|---|-----------|
| Velos LED CG-S | Power Supply Unit, mounting set for Velos incl. LED supply and CG-S technology (20 adresses), without panel | O-ES-CG-S |

Ordering details - Panel

| Type | | Order No |
|-------------------------|--|-------------|
| ISO7010 Left/Right 30m | | O-ESP-ILR |
| ISO7010 Down/Blank 30m | | O-ESP-ID |
| ISO7010 Down/Down 30m | | O-ESP-IDD |
| ISO7010 Up/Blank 30m | | O-ESP-IU |
| ISO7010 Up/Up 30m | | O-ESP-IUU |
| ISO7010 Lateral to Room | | O-ESP-I2R |
| ISO7010 Lateral to Wall | | O-ESP-I2W |
| ISO7010 Left/Right 40m | | O-ESP40-ILR |
| ISO7010 Down/Down 40m | | O-ESP40-IDD |
| ISO7010 Up/Blank 40m | | O-ESP40-IU |
| ISO7010 Up/Up 40m | | O-ESP40-IUU |
| ISO7010 Down/Blank 40m | | O-ESP40-ID |

Accessories

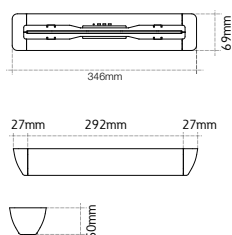
| Type | Order No |
|-----------------------------------|------------|
| Recessed Base | O-ESA-RB |
| Wall FLEXI Joint | O-ESA-FLEX |
| Wire Suspension Adjustable 150 cm | O-ESA-RSA |
| Tube Suspension 48 cm | O-ESA-PS30 |
| Lateral Mounting Base | O-ESA-LMB |
| Back Mounting Base | O-ESA-BMB |



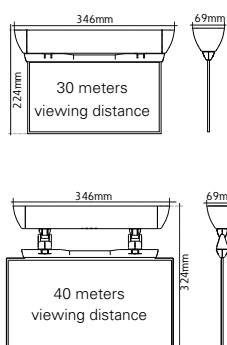
Velos LED



Dimensions in mm
dimensions - PSUs



dimensions - Emergency sign



Velos LED

- Velos range of Exit sign panel luminaires are low profile with LED technology, designed and equipped with technical solutions and accessories for both ceiling and wall applications
- Slender design with pictogram width of only 6 mm
- simple mounting of screenprinted pictogram panel via snap-fitting
- 90° wall mounting achieved via special pictogram panel roated at 90°
- Reduced battery costs on account of especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50,000 hours)

| | |
|---|--|
| Viewing distance | 30 m and 40 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | White RAL 9016 |
| Weight | PSU O-ES-MAINS 0.37 kg Exit sign O-ESP-xxx (30 m) 0.55 kg Exit sign O-ESP40-xxx (40 m) 0.87 kg |
| Type of mounting | Wall and Ceiling mounting |
| Connection terminals | 2 x 2 x 2,5 mm ² |
| Connection voltage | 230 V AC, 50/60 Hz |
| Power consumption mains operation (apparent power / effective power) | 6.5 VA / 3.6 W |
| Permissible temperature range | 0 °C to + 40 °C |
| Light source | 24 LED strip |

Ordering details

| Type | Scope of supply | Order No |
|--------------------|--|------------|
| Velos LED 230 V AC | Power supply unit, mounting set for Velos incl. LED supply, without panel | O-ES-MAINS |

Ordering details - Panel

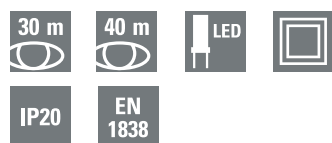
| Type | | Order No |
|-------------------------|--|-------------|
| ISO7010 Left/Right 30m | | O-ESP-ILR |
| ISO7010 Down/Blank 30m | | O-ESP-ID |
| ISO7010 Down/Down 30m | | O-ESP-IDD |
| ISO7010 Up/Blank 30m | | O-ESP-IU |
| ISO7010 Up/Up 30m | | O-ESP-IUU |
| ISO7010 Lateral to Room | | O-ESP-I2R |
| ISO7010 Lateral to Wall | | O-ESP-I2W |
| ISO7010 Left/Right 40m | | O-ESP40-ILR |
| ISO7010 Down/Down 40m | | O-ESP40-IDD |
| ISO7010 Up/Blank 40m | | O-ESP40-IU |
| ISO7010 Up/Up 40m | | O-ESP40-IUU |
| ISO7010 Down/Blank 40m | | O-ESP40-ID |

Accessories

| Type | Order No |
|-----------------------------------|------------|
| Recessed Base | O-ESA-RB |
| Wall FLEXI Joint | O-ESA-FLEX |
| Wire Suspension Adjustable 150 cm | O-ESA-RSA |
| Tube Suspension 48 cm | O-ESA-PS30 |
| Lateral Mounting Base | O-ESA-LMB |
| Back Mounting Base | O-ESA-BMB |

Velos LED EC 1.5

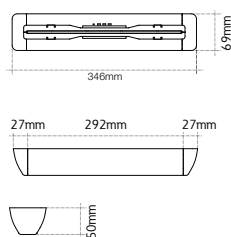
Exit Sign Panel Luminaires



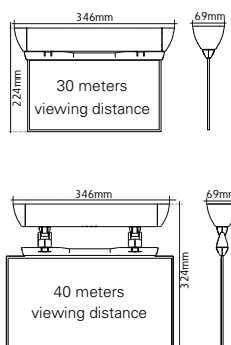
Velos LED EC 1.5



Dimensions in mm
dimensions - PSUs



dimensions - Emergency sign



Velos LED EC 1.5

- Velos range of Exit sign panel luminaires are low profile with LED technology, designed and equipped with technical solutions and accessories for both ceiling and wall applications
- Slender design with pictogram width of only 6 mm
- simple mounting of screenprinted pictogram panel via snap-fitting
- 90° wall mounting achieved via special pictogram panel roated at 90°
- Reduced battery costs on account of especially low power consumption
- Minimum service requirement due to high service life of the LEDs (50,000 hours)

| | |
|---|-----------------------------|
| Viewing distance | 30 m and 40 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | White RAL 9016 |
| Weight | 0.45 kg |
| Type of mounting | Wall and Ceiling mounting |
| Connection terminals | 2 x 2 x 2,5 mm ² |
| Connection voltage | 230 V AC, 50/60 Hz |
| Power consumption mains operation (apparent power / effective power) | 6.5 VA / 3.6 W |
| Permissible temperature range | 0 °C to + 40 °C |
| Light source | 24 LED strip |

Ordering details

| Type | Scope of supply | Order No |
|------------------|--|------------|
| Velos LED EC 1.5 | Power supply unit, mounting set for Velos incl. LED supply, without panel | OES-EX0363 |

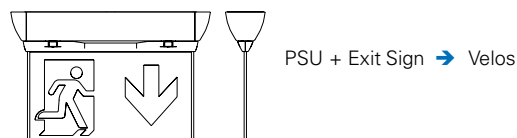
Ordering details - Panel

| Type | | Order No |
|-------------------------|--|-------------|
| ISO7010 Left/Right 30m | | O-ESP-ILR |
| ISO7010 Down/Blank 30m | | O-ESP-ID |
| ISO7010 Down/Down 30m | | O-ESP-IDD |
| ISO7010 Up/Blank 30m | | O-ESP-IU |
| ISO7010 Up/Up 30m | | O-ESP-IUU |
| ISO7010 Lateral to Room | | O-ESP-I2R |
| ISO7010 Lateral to Wall | | O-ESP-I2W |
| ISO7010 Left/Right 40m | | O-ESP40-ILR |
| ISO7010 Down/Down 40m | | O-ESP40-IDD |
| ISO7010 Up/Blank 40m | | O-ESP40-IU |
| ISO7010 Up/Up 40m | | O-ESP40-IUU |
| ISO7010 Down/Blank 40m | | O-ESP40-ID |

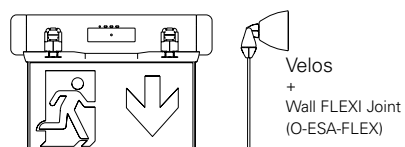
Accessories

| Type | Order No |
|-----------------------------------|------------|
| Recessed Base | O-ESA-RB |
| Wall FLEXI Joint | O-ESA-FLEX |
| Wire Suspension Adjustable 150 cm | O-ESA-RSA |
| Tube Suspension 48 cm | O-ESA-PS30 |
| Lateral Mounting Base | O-ESA-LMB |
| Back Mounting Base | O-ESA-BMB |

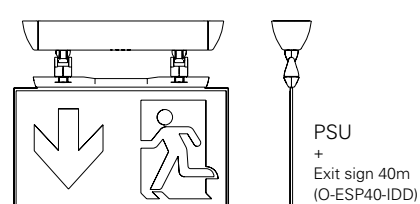
Ceiling mount



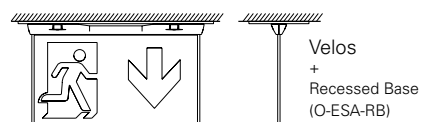
Wall mount



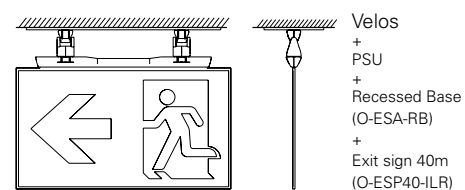
Ceiling mount (40m)



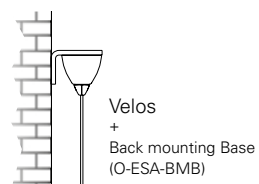
Recessed (30m)



Recessed (40m)



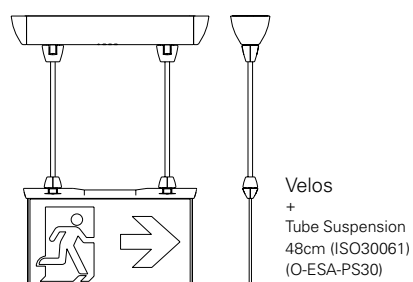
Back wall mount



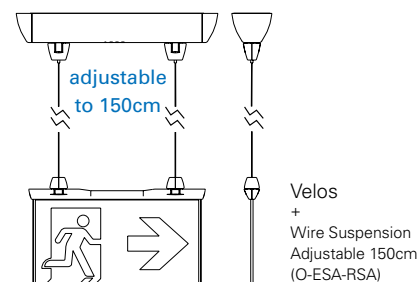
Lateral mount



Suspended with metal tube

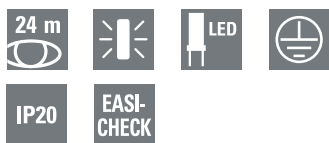


Suspended with adjustable wire



Briteblade LED / Briteblade LED EC 1.5

Exit Sign Panel Luminaires



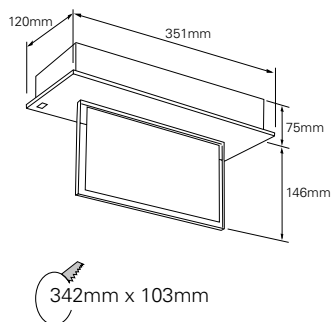
Briteblade LED EC 1.5

- Fully meets EN 1838 for uniformity of legend appearance
- Metal body construction
- Long life 50,000 hour LED version
- Suitable for single or doubled-sided use
- Suitable for solid or suspended ceilings

Briteblade



Drawings



| | |
|--|---|
| Viewing distance | 24 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Body- Steel powder coated Trim- Steel powder coated Legend- Acrylic |
| Weight incl. panel | 1.7 kg |
| Housing colour | Trim: white or silver |
| Type of mounting | Recessed mounting |
| Connection terminals | Clamp terminal 1.5 mm ² |
| Connection voltage | 230 V AC, 50/60 Hz |
| Power consumption mains operation (apparent power / effective power) | 4.5 VA / 3.2W |
| Permissible ambient temperature | 0 °C to +40 °C |
| Light source | 3W LED strip |

Ordering details

| Type | Scope of supply | Order No. |
|-----------------------|-------------------|-----------|
| Briteblade LED EC 1.5 | White Trim Plate | BBL230EC |
| Briteblade LED EC 1.5 | Silver Trim Plate | BBL230ECS |

| Legend Panel | ISO Pictogram | Cat No |
|--|---------------|------------|
| Single sided panel. Up arrow | | LUCAUS-ISO |
| Single sided panel. Down arrow | | LUCADS-ISO |
| Double sided panel. Left and right arrow | | LUCALR-ISO |
| Double sided panel. Up arrow | | LUCAU-ISO |
| Double sided panel. Down arrow | | LUCAD-ISO |

Attention: Phase out of the product end of 2020!



Briteblade / Briteblade EC 1.5

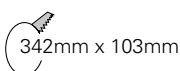
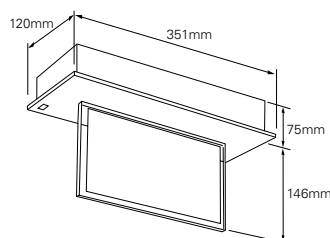
- BSI kitemarked for peace of mind
- ICEL registered with verified luminaire performance
- Fully meets EN 1838 for uniformity of legend appearance
- Metal body construction
- Suitable for single or doubled-sided use
- Suitable for solid or suspended ceilings

2

Briteblade



Drawings



| | |
|--|---|
| Viewing distance | 24 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 75 % |
| Housing material | Body- Steel powder coated Trim- Steel powder coated Legend- Acrylic |
| Weight incl. panel | 1.6 kg |
| Housing colour | Trim: white or silver |
| Type of mounting | Recessed mounting |
| Connection terminals | Clamp terminal 1.5 mm ² |
| Connection voltage | 230 V AC, 50/60 Hz |
| Power consumption mains operation (apparent power / effective power) | 9.2 VA / 8.8 W |
| Permissible ambient temperature | 0 °C to +40 °C |
| Light source | 8W T5 fluorescent, G5 cap |

Ordering details

| Type | White Trim Plate | Silver Trim Plate |
|-------------------|------------------|-------------------|
| Briteblade EC 1.5 | BB230EC | BB230ECS |

| Legend Panel | ISO Pictogram | Cat No |
|--|---------------|------------|
| Single sided panel. Up arrow | | LUCAUS-ISO |
| Single sided panel. Down arrow | | LUCADS-ISO |
| Double sided panel. Left and right arrow | | LUCALR-ISO |
| Double sided panel. Up arrow | | LUCAU-ISO |
| Double sided panel. Down arrow | | LUCAD-ISO |

Attention: Phase out of the product end of 2020!








Exit Sign Luminaires

| | |
|--|----|
| Exit Cube 33022 LED CG-S | 76 |
| Exit Cube 33042 LED CG-S | 77 |
| Britesign 2 CG-S / Britesign 2 EC 1.5 / Britesign 2..... | 78 |
| 70011 ... 70021 LED CG-S | 80 |
| 71011 ... 71021 LED CG-S | 82 |

Exit Sign Luminaires

Overview

3

| | | Aesthetic | One box solution * | Low consumption / Eco-friendly | Protection Degree | Viewing distance | 24 V | 48 V | 110 V | 220 V DC | 230 V AC | Monitored CG-S | Monitored EC 1.5 |
|-----------------|---|-----------------|--------------------|--------------------------------|-------------------|------------------|---------|------|-------|----------|----------|----------------|------------------|
| | Performance | Global Features | | | | | Voltage | | | | | Technology | |
| 3.1 Exit cube |  ★ ★ ★ | | ● | ● | 40 | 20 40 | | | | ● | ● | ● | |
| 3.2 Britesign 2 |  ★ ★ | ● | | ● | 33 | 20 | | | | ● | ● | ● | ● |
| 3.3 Alu LED |  ★ ★ | | | ● | 40 | 20 32 | | | | ● | ● | ● | |

| | Wall | Ceiling | Recessed | Suspended | Healthcare | Hotels | Cinemas / Theaters | Commercial centers | Stadia / Arenas | Offices | Industrial | Warehouse |
|--|--------------|---------|----------|-----------|--------------|--------|--------------------|--------------------|-----------------|---------|------------|-----------|
| | Installation | | | | Applications | | | | | | | |
| | | ● | | ● | | | | ● | ● | | ● | ● |
| | ● | | | | ● | ● | | ● | ● | ● | | ● |
| | ● | ● | | ● | ● | | | ● | ● | | ● | ● |

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.

Exit Cube 33022 LED CG-S

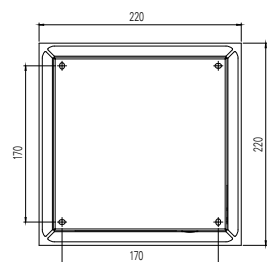
Exit Sign Luminaires



Exit Cube 33022 LED CG-S



Dimensions in mm



Wall bracket



Chain mounting kit



Cable mounting kit



Replacement Exit sign cube



Exit Cube 33022 LED CG-S

- Exit sign cube with LED Technology for large, wide areas, e.g. warehouses or retail areas
- Robust design with impact-resistance of IK07
- Low operating costs via low connected load
- Minimum maintenance effort via use of LEDs with high service life (up to 50,000 hours)
- Modular design of the polycarbonate cube enables simple and safe mounting by just sliding cube onto installed luminaire
- Easy and flexible mounting options with space to land cables- Ceiling, wall, cable and chain.
- Optimal perceptibility due to high luminance of the white contrasting colour ($> 500 \text{ cd/m}^2$) acc. DIN 4844-1 / ISO 3864-1 (for bright environments) and high uniformity $L_{\min}/L_{\max} > 0,4$ (in mains operation)
- Reduced operating costs due to of especially low power consumption
- Shorten inspection effort due to CEWA GUARD technology
- Automatic function monitoring for up to 20 luminaires per circuit
- Reduced installation cost with STAR Technology
- Freely programmable mixed operation, allowing the switching of luminaire modes within one circuit

| | |
|--|--|
| Viewing Distance | 20 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Cube: polycarbonate; enclosure: coated steel sheet |
| Housing colour | White RAL 9010 |
| Weight | Luminaire 1.1 kg Cube: 0.6 kg |
| Type of mounting | Ceiling or wall mounting (bracket required) |
| Connection terminals | Loop terminals 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption with battery operating | 25 mA |
| Power consumption mains operation (apparent power / effective power) | 9.5 VA / 5.9 W |
| Inrush current | 1.5 A |
| Permissible temperature range | -20 °C to +40 °C |
| Light source | HighPower LEDs 4 x 1 W |

Ordering details

| Type | Scope of supply | Order No. |
|--------------------------|--|-------------|
| Exit Cube 33022 LED CG-S | Enclosure and exit sign cube, for 20 m viewing distance with LED Supply and CG-S Technology (20 addresses), silkscreened pictograms (arrow left, right, down) acc. to ISO 7010 | 40071353421 |



Ordering details accessories

| Type | Scope of supply | Order No. |
|--|--|-------------|
| Wall bracket | incl. attachments | 40071353444 |
| Chain mounting kit | with 4 eyelets (chain not included) | 40071353457 |
| Cable mounting kit | with 4 fasteners and cables, adjustable hanging height (max 1.5 m) | 40071353443 |
| Replacement Exit sign cube (20 m viewing distance) | silkscreened pictograms (arrow left, right, down) acc. to ISO 7010 | 40071354450 |

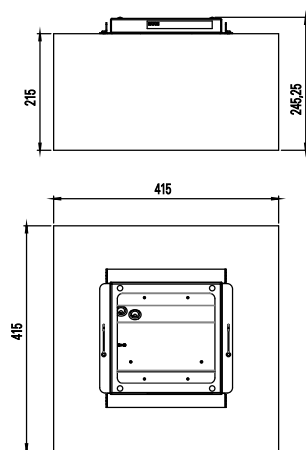




Exit Cube 33042 LED CG-S



Dimensions in mm



Replacement Exit sign cube

**Exit Cube 33042 LED CG-S**

- Exit sign cube with LED Technology for large, wide areas, e.g. warehouses or retail areas
- Robust design with impact-resistance of IK07
- Low operating costs via low connected load
- Minimum maintenance effort via use of LEDs with high service life (up to 50,000 hours)
- Modular design of the polycarbonate cube enables simple and safe mounting by just sliding cube onto installed luminaire
- Easy and flexible mounting options with space to ceiling or chain (four mounting eyes existing).
- Optimal perceptibility due to high luminance of the white contrasting colour ($> 500 \text{ cd/m}^2$) acc. DIN 4844-1 / ISO 3864-1 (for bright environments) and high uniformity $L_{\min}/L_{\max} > 0,4$ (in mains operation)
- Reduced operating costs due to especially low power consumption
- Shorten inspection effort due to CEWA GUARD technology
- Automatic function monitoring for up to 20 luminaires per circuit
- Reduced installation cost with STAR Technology
- Freely programmable mixed operation, allowing the switching of luminaire modes within one circuit
- Increased safety through SLI-technology, monitoring of up to 8 individual LEDs in series connection

| | |
|--|---|
| Viewing Distance | 40 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Cube: PMMA; enclosure: coated steel sheet |
| Housing colour | White RAL 9010 |
| Weight | Luminaire 1.6 kg Cube: 3,1 kg |
| Type of mounting | Ceiling mounting, chain mounting (four mounting holes existing) |
| Connection terminals | Loop terminals 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption with battery operating | 46 mA |
| Power consumption mains operation (apparent power / effective power) | 17.6 VA / 10.6 W |
| Inrush current | 3 A |
| Permissible temperature range | -20 °C to +40 °C |
| Light source | HighPower LEDs 8 x 1 W |

Ordering details

| Type | Scope of supply | Order No. |
|--------------------------|--|-------------|
| Exit Cube 33042 LED CG-S | Enclosure and exit sign cube, for 40 m viewing distance with LED Supply and CG-S Technology (20 addresses), silkscreened pictograms (arrow left, right, down) acc. to ISO 7010 | 40071353422 |

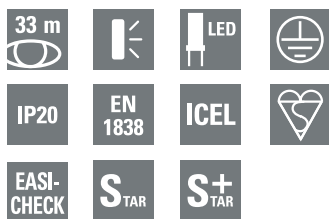
**Ordering details accessories**

| Type | Scope of supply | Order No. |
|--|--|-------------|
| Replacement Exit sign cube (40 m viewing distance) | silkscreened pictograms (arrow left, right, down) acc. to ISO 7010 | 40071354451 |



Britesign 2 CG-S / Britesign 2 EC 1.5 / Britesign 2

Exit Sign Luminaires



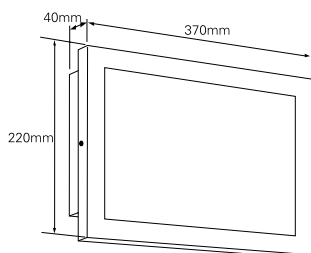
Britesign 2

- ICEL registered with verified luminaire performance
- Ultra low profile design
- 50,000 hour LED source for minimum maintenance
- EN1838 compliant legend panel
- Bezel colour options on request
- First fix body with rear BESA entry and 20mm conduit entry on top face

Britesign 2



Dimensions in mm



| | |
|--|--|
| Viewing distance | 33 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Housing: steel, powder coated Bexel: die cast aluminium or powder coated in RAL 9016 finish Legend panel: clear acrylic with screen print legend |
| Housing colour | White RAL 9016 |
| Weight | CG-S / 230 V AC: 1.25 kg EC 1.5: 1.3 kg |
| Type of mounting | Wall mounting |
| Connection terminals | 2 x 2.5 mm ² Clamp terminals |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC (only for CG-S version) |
| Current consumption- battery operation (220 V) | 20 mA (only for CG-S version) |
| Power consumption mains operation (apparent power / effective power) | CG-S Version: 8.1 VA / 4.6 W EC 1.5 and 230 V AC Version: 4.5 VA / 3.2 W |
| Inrush current | 1.5 A (only for CG-S Version) |
| Permissible temperature range | +5 °C to +40 °C |
| Light source | LED strip |

Ordering details

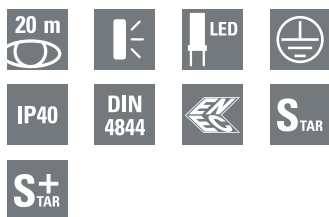
| Type | White Finish | Aluminium Finish |
|---------------------|--------------|------------------|
| Britesign 2 CG-S | BS2S230CG | BS2SA230CG |
| Britesign 2 230V AC | BS2S230 | BS2SA230 |
| Britesign 2 EC 1.5 | BS2S230EC | BS2SA230EC |

Accessories

| Type | Scope of supply | | Order No. |
|-------------|------------------|--|-----------|
| Arrow up | acc. to ISO 7010 | | BSAU-ISO |
| Arrow down | acc. to ISO 7010 | | BSAD-ISO |
| Arrow left | acc. to ISO 7010 | | BSAL-ISO |
| Arrow right | acc. to ISO 7010 | | BSAR-ISO |

70011 ... 70021 LED CG-S

Exit Sign Luminaires



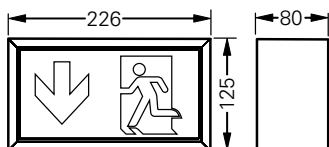
70011 ... 70021 LED CG-S

- Enclosure made of slim aluminium profile, anodised, with silk-screened pictogram cover
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Low operating costs with low effective connected load of only 3.1 W (2.0 W with single sided emission)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

70011 LED CG-S



Dimensions in mm



| | |
|--|--|
| Viewing distance | 20 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium |
| Weight incl. panel | 1.20 kg (70011 LED CG-S) 1.25 kg (70021 LED CG-S) |
| Housing colour | Aluminium, anodised |
| Type of mounting | Wall mounting (70011 LED CG-S) Wall, ceiling and pendant mounting (70021 LED CG-S) |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 8.7 mA (70011 LED CG-S) 14.0 mA (70021 LED CG-S) |
| Power consumption mains operation (apparent power / effective power) | 4.36 VA/2.0 W (70011 LED CG-S) 5.80 VA/3.1 W (70021 LED CG-S) |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | HighPower LEDs 1 x 1.1 W LED (70011 LED CG-S) HighPower LEDs 2 x 1.1 W LED (70021 LED CG-S) |

Ordering details

| Type | Scope of supply | Order No. |
|-------------------|--|-------------|
| 70011 LED CG-S | Luminaire with CEWA GUARD monitoring and 20-digit address switch, without cover | 40071351270 |
| 70021 LED CG-S WM | Luminaire with CEWA GUARD monitoring for wall mounting, with 20-digit address switch, without covers* | 40071351271 |
| 70021 LED CG-S DM | Luminaire with CEWA GUARD monitoring for ceiling mounting, with 20-digit address switch, without covers* | 40071351272 |
| 70021 LED CG-S PM | Luminaire with CEWA GUARD monitoring for pendant mounting, with 20-digit address switch, without covers* | 40071351273 |
| Cover PL | Cover with pictogram acc. to ISO 7010 | 40071354220 |
| Cover PR | Cover with pictogram acc. to ISO 7010 | 40071354221 |
| Cover PU | Cover with pictogram acc. to ISO 7010 | 40071354222 |
| Blind cover | | 40071351196 |

* Each luminaire requires 2 covers.

Installation material is not included in the scope of delivery of the luminaire. Please order installation material separately depending on the type of mounting (see accessories).

WM = Wall mounting, DM = Ceiling mounting, PM = Pendant mounting

70021 LED CG-S DM
with wall/ceiling mounting kit

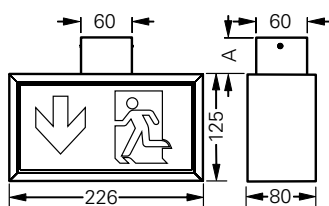


Accessories

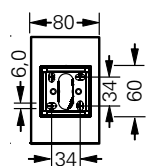
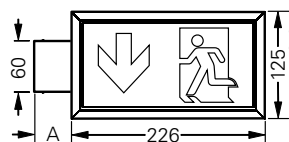
| Type | | Order No. |
|---------------------------|-------------------------|-------------|
| Wall/ceiling mounting kit | for WM / DM, A = 42 mm | 40071351011 |
| Wall/ceiling mounting kit | for WM / DM, A = 100 mm | 40071351497 |
| Single suspension | for PM | 40071351157 |

3

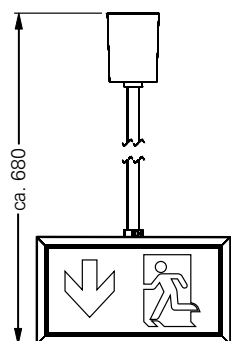
Dimensions in mm



70021 LED CG-S DM



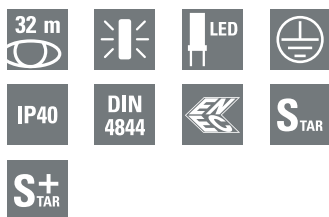
70021 LED CG-S WM



70021 LED CG-S PM

71011 ... 71021 LED CG-S

Exit Sign Luminaires



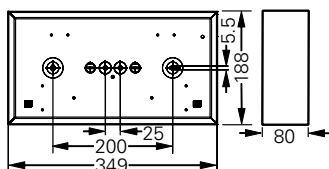
71011 ... 71021 LED CG-S

- Enclosure made of slim aluminium profile, anodised, with silk-screened pictogram cover
- Special LED converter, with integrated monitoring module for single luminaire monitoring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Low operating costs with low connected load of only 5.8 W (3.1 W with single sided emission)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

71011 LED CG-S



Dimensions in mm



| | |
|--|--|
| Viewing distance | 32 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium |
| Weight incl. panel | 1.75 kg (71011 LED CG-S) 1.50 kg (71021 LED CG-S) |
| Housing colour | Aluminium, anodised |
| Type of mounting | Wall mounting (71011 LED CG-S) Wall, ceiling and pendant mounting (71021 LED CG-S) |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 14 mA (71011 LED CG-S) 25 mA (71021 LED CG-S) |
| Power consumption mains operation (apparent power / effective power) | 5.8 VA/3.1 W (71011 LED CG-S) 9.5 VA/5.8 W (71021 LED CG-S) |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | HighPower LEDs 2 x 1.1 W LED (71011 LED CG-S) HighPower LEDs 4 x 1.1 W LED (71021 LED CG-S) |

Ordering details

| Type | Scope of supply | Order No. |
|-------------------|--|-------------|
| 71011 LED CG-S | Luminaire with CEWA GUARD monitoring and 20-digit address switch, without cover | 40071351280 |
| 71021 LED CG-S WM | Luminaire with CEWA GUARD monitoring for wall mounting, with 20-digit address switch, without covers* | 40071351281 |
| 71021 LED CG-S DM | Luminaire with CEWA GUARD monitoring for ceiling mounting, with 20-digit address switch, without covers* | 40071351282 |
| 71021 LED CG-S PM | Luminaire with CEWA GUARD monitoring for pendant mounting, with 20-digit address switch, without covers* | 40071351283 |
| Cover PL | Cover with pictogram acc. to ISO 7010 | 40071354240 |
| Cover PR | Cover with pictogram acc. to ISO 7010 | 40071354241 |
| Cover PU | Cover with pictogram acc. to ISO 7010 | 40071354242 |
| Blind cover | | 40071351197 |

* Each luminaire requires 2 covers.

Installation material is not included in the scope of delivery of the luminaire. Please order installation material separately depending on the type of mounting (see accessories).

WM = Wall mounting, DM = Ceiling mounting, PM = Pendant mounting

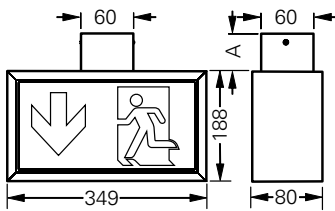
71021 LED CG-S WM
with wall/ceiling mounting kit



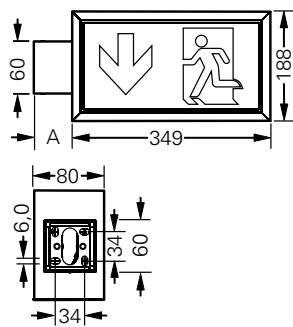
Accessories

| Type | | Order No. |
|---------------------------|--|-------------|
| Wire guard | for 71011 LED CG-S | 40071348370 |
| Wall/ceiling mounting kit | for WM / DM, A = 42 mm | 40071351011 |
| Wall/ceiling mounting kit | for WM / DM, A = 100 mm | 40071351497 |
| Suspension set 0.5 m | with canopy, silver, square form, for PM | 40071344599 |
| Suspension set 1.0 m | with canopy, silver, square form, for PM | 40071350775 |
| Suspension set 1.5 m | with canopy, silver, square form, for PM | 40071350776 |
| Chain fastening | Ring eyelets, for PM | 40071351158 |

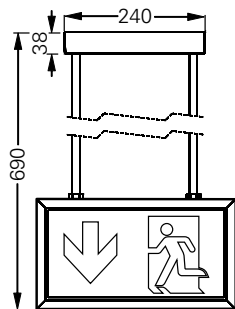
Dimensions in mm



71021 LED CG-S DM



71021 LED CG-S WM



71021 LED CG-S PM



















Safety and Exit Sign Luminaires with the same design

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|--|-----|
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Safety and Exit Sign Luminaires with the same design

Overview

4

| | | | | One box solution | Low consumption / Eco-friendly | Protection Degree | Viewing distance | Luminous flux | 24 V | 48 V | 110 V | 220 V DC | 230 V AC | Monitored CG-S | Monitored EC 1.5 |
|-----|---------------------------|---|-------|------------------|--------------------------------|-------------------|------------------|----------------------------|---------|------|-------|----------|------------|----------------|------------------|
| | | Performance | | | | | | | Voltage | | | | Technology | | |
| 4.1 | Style LED 21011 |  | ★ ★ ★ | | ● | 54 | | 305 lm 410 lm | | | | ● | ● | ● | |
| 4.2 | Style LED 22011/22021 |   | ★ ★ ★ | ● | ● | 41 54 | 32 | 320 lm | | | | ● | ● | ● | |
| 4.3 | 23011 |  | ★ ★ ★ | | ● | 41 54 | | 320 lm | | | | ● | ● | ● | |
| 4.4 | Style LED 51011/51021 |   | ★ ★ ★ | | ● | 41 | 17 | 390 lm | | | | ● | ● | ● | |
| 4.5 | Style Variant 29011/29021 |  | ★ ★ ★ | | ● | 41 | 32 | | | | | ● | ● | ● | |
| 4.6 | NexiTech LED |   | ★ ★ | | ● | 40 65 | 20 30* | 250 lm 500 lm | | | | ● | ● | ● | |
| 4.7 | NexiTech LED |  | ★ ★ | | ● | 65 | | 1000 lm | | ● | | | | | |
| 4.8 | Sirios LED |   | ★ ★ | ● | ● | 42 65 | 30 | 119 lm 130 lm | | | | ● | ● | ● | |
| 4.9 | Sirios |   | ★ | | | 42 65 | 30 | 324 lm 471 lm 771 lm | | | | ● | ● | ● | |

| Wall | Ceiling | Recessed | Suspended | Healthcare | Hotels | Cinemas / Theaters | Commercial centers | Stadia / Arenas | Offices | Industrial | Warehouse |
|--------------|---------|----------|-----------|--------------|--------|--------------------|--------------------|-----------------|---------|------------|-----------|
| Installation | | | | Applications | | | | | | | |
| ● | ● | | | | | | | ● | | ● | ● |
| ● | ● | | ● | ● | ● | | ● | | ● | | ● |
| | | ● | | ● | ● | | ● | | ● | | |
| ● | ● | | | ● | ● | | ● | | ● | | ● |
| ● | ● | | | ● | ● | | ● | | ● | | ● |
| ● | ● | ● | | ● | ● | | ● | | ● | | ● |
| ● | ● | ● | | ● | ● | ● | ● | ● | ● | | ● |
| ● | ● | ● | | ● | ● | | ● | | ● | | ● |
| ● | ● | ● | | ● | ● | | ● | | ● | | ● |

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.

Introduction

Safety and Exit Sign Luminaires with the same design



Diverse applications thanks to flexible mounting system

Precisely matched modular elements form the basis of our STYLE system luminaire series. Diverse combinations made possible with various accessory parts, for a wide variety of applications.

Using the optional IP54 module the luminaires may also be operated under challenging environmental conditions.

Furthermore, the quick-mounting set facilitates the installation of most types of luminaires, containing the required fixing elements and mains terminals. The unit can be mounted prior to completion of construction work. Only the selected enclosures need to be snapped to the base, ready for use.

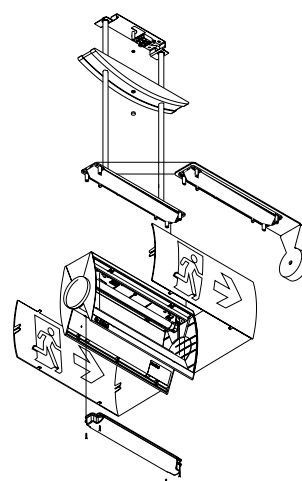
Mounting of the pictogram covers is also quick and easy thanks to snap mounting.

The STYLE escape sign luminaires with LED technology minimise energy consumption considerably. In addition, maintenance effort for the LEDs is reduced to a minimum thanks to their high service life.

CEAG's proven electronic ballasts with new 20 digit address switch together with CEWA GUARD monitoring system and connecting option to all CEAG emergency lighting systems. Connecting the luminaires to a suitable emergency lighting system makes it possible to select individual switching modes (non-maintained, maintained or switched maintained) for each luminaire within one final circuit.

Features:

- Versatile types of application via matched modular elements
- IP54 optionally available
- Luminaires with quick-mounting sets facilitate and fasten the installation
- Highly efficient LED technology with especially low current consumption and low maintenance effort with a long service life
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures thanks to STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

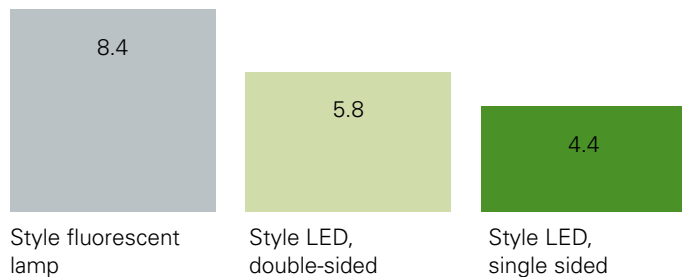




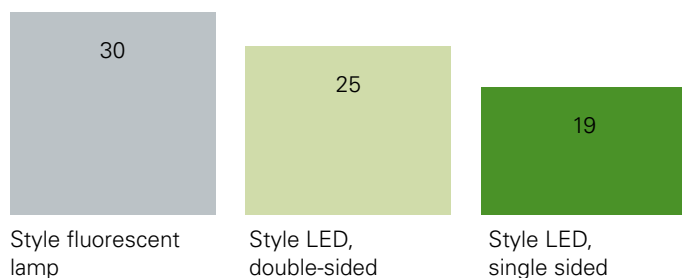
Up to 48% energy savings with efficient LED technology

With the introduction of new LED components, the proven and reliable Style CG-S series, not only becomes more durable but is also more efficient. Power consumption and thus energy costs with a double-sided luminaire for example are cut by 31% compared to fluorescent tube luminaires, and the consumption for single sided luminaires is reduced by 48% – a positive factor for your next electricity bill.

System effective power P_{sys} in W in case of mains operation



Current in case of battery operation in mA



A direct comparison of both luminaire types:

Above the Style 22011 CG-S with fluorescent tube, and below with efficient LED technology. Energy savings using the LED luminaire as compared to the fluorescent tube model: 48%.



LED upgrading guarantees safe operation and perfect illumination

Three LED upgrade kits have been developed to replace the existing fluorescent tube as light source, thus already installed Style fluorescent luminaires can benefit from efficient LED technology (includes ballast). The result is that fluorescent luminaires are transformed into complete LED luminaires with matched components, ensuring safe and reliable operation.



The modular design of the Style luminaires is once again a distinct advantage, as the quick mounting set with mains connection remains attached to the ceiling or wall. This in turn means no additional effort is needed for electrical installation or decorating. Assembly and disassembly of the single sided luminaires is achieved almost completely with snap fasteners so that replacement requires only a few twists of the wrist.

In terms of light distribution, the new Style LED escape luminaires are just as impressive as their fluorescent predecessors. The optical components are designed so that the same values as the previous fluorescent luminaires are achieved with existing light point distances. This guarantees standard-compliant illumination for the future as well, and replanning is not required.

Pictogram covers can continue to be used according to their condition and age, however the time is ideal to upgrade pictograms in accordance with the new German workplace regulations. The new edition of the A1.3 workplace regulation was published in March 2013, and this specifies exit signs according to the international standard ISO 7010, so that sign in accordance with DIN 4844-2 is no longer valid.



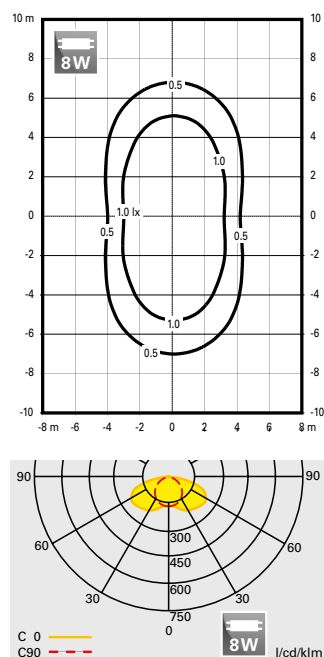
DIN 4844-2



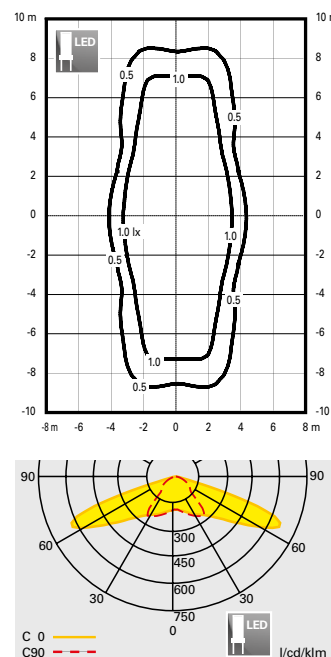
DIN EN ISO 7010

22011 CG-S
(transparent cover)

Luminaire mounting height: 3 m, emergency light operation



22011 LED SL CG-S
(transparent cover)



A comparison of light distribution patterns makes it clear: the LED optics (right), here with the Style 22011, achieve improved illumination compared to the same luminaire with a fluorescent tube (left). New planning when upgrading to LED is thus not required for continued standard-compliant illumination.

An economical long-runner

Costs for an emergency light system consist of investment and operation costs. In addition to overheads for electricity and manual tests with non-automated systems, maintenance costs are a major part of the operating costs.

With the use of LED technology, the regular re-lamping of fluorescent tubes is no longer necessary as the service life and operating duration of Style LED surpass 50,000 hours. This significantly cuts maintenance costs and therefore operating costs as well.

It is now no longer necessary to replace the lamps up to once yearly. This of course is especially advantageous with luminaires that are difficult to get to, or even when production has to be halted in an industrial environment to access escape luminaires on the hall ceiling. This means that upgrading to efficient LED technology becomes profitable immediately.

Another benefit is that exit sign and escape luminaires contribute to emergency lighting systems being operated even more safely and reliably, because of their longer service life.



Overview of suitable upgrade kits according to existing luminaire model



| Luminaire | Application | Style LED Upgrade Kit SL CG-S Order No. 40071350150 | Style LED Upgrade Kit 1 CG-S Order No. 40071350151 | Style LED Upgrade Kit 2 CG-S Order No. 40071350152 |
|----------------------|------------------------|--|---|---|
| 55011, 57011 CG-S | Escape luminaire | X | | |
| | Exit sign luminaire | | X | |
| 55021, 57021 CG-S | Exit sign luminaire | | | X |
| 22011 CG-S | Escape luminaire | X | | |
| | Exit sign luminaire *) | | X | |
| 22021 CG-S | Exit sign luminaire *) | | | X |
| 23011 CG-S | Escape luminaire | X | | |
| 21011 CG-S | Escape luminaire | X | | optional for symmetric illumination |
| 51011 CG-S | Escape luminaire | | | X |
| | Exit sign luminaire | | | X |
| 51021 CG-S | Exit sign luminaire | | | new 40071350172 luminaire recommended |
| 40011 CG-S | Escape luminaire | X | | |
| | Exit sign luminaire | | X | |

For luminaires with IP54 assembly set and for 21011 CG-S luminaires, a new IP54 assembly set for LEDs is mandatory. Only in this way is improved illumination (with exit sign luminaires) and long LED service life achieved.

*) Screenprinted pictograms must be used for illumination in accordance with DIN EN 4844-1.

LED Upgrade Kits

For style luminaires with T5-lamps



4

Style LED Upgrade Kit 1 CG-S



Style LED Upgrade Kit 2 CG-S



Style LED Upgrade Kit SL CG-S



Style Upgrade Kits

- Upgrade Kit for converting CEAG Style CG-S Luminaires from T5-Lamps to LED technology
- Suitable for all luminaires with Style quick-mounting sets
- Minimum maintenance required due to high service life of the LEDs (over 50,000 hours)
- Up to 48% energy savings, reducing operating cost
- Available in three variants:
 - Upgrade Kit 1: For single sided exit signs
 - Upgrade Kit 2: For double sided exit signs and luminaires 51011/51021
 - Upgrade SL: For escape route lighting with specialized LED-optics
- Exit signs with high luminance of > 500 cd/m² (white area) and good uniformity, in accordance with standards (silk-screened pictograms)
- Dismounting and mounting via snaps (single sided luminaire and 51011/21), double sided luminaires with screw connections
- Includes specialized LED-converter with V-CG-S-technology

| | |
|--|---|
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.21 kg |
| Type of mounting | for refitting of Style CG-S luminaires |
| Connection terminal | 2 x 3 x 2.5 mm ² |
| Voltage ranges | 220 – 240 V AC, 50/60 Hz, 176 V – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | Upgrade Kit 1 + Kit SL: 7.6 VA / 4.4 W Upgrade Kit 2: 9.5 VA / 5.8 W |
| Permissible temperature range | -20 °C to +40 °C |
| Inrush current | 1.5 A |
| Current consumption - battery operation (220 V) | Upgrade Kit1 + Kit SL: 19 mA Upgrade Kit 2: 25 mA |
| Light source | Upgrade Kit1 + Kit SL: 3 x 1 W LED Upgrade Kit 2: 4 x 1 W LED |

Ordering details

| Type | Scope of supply | Order No. |
|-------------------------------|---|-------------|
| Style LED Upgrade Kit 1 CG-S | Style LED Upgrade Kit 1 CG-S, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for replacing single sided exit sign luminaires | 40071350151 |
| Style LED Upgrade Kit 2 CG-S | Style LED Upgrade Kit 2 CG-S, including LED-supply with CG-S technology and LED-circuit board 4 x 1 W, for replacing double-sided exit sign luminaires and Style 51011 or 51021 | 40071350152 |
| Style LED Upgrade Kit SL CG-S | Style LED Upgrade Kit SL CG-S, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for replacing safety luminaires for escape route lighting | 40071350150 |
| IP54* LED Upgrade | Style IP54 cover (silicone), optimized for LED, incl. replacement gasket with foamed, sulphur-free sealing for quick mounting set, required for upgrading existing style luminaires with IP54 set | 40071350598 |

Style 21011 LED CG-S

Safety and Exit Sign Luminaires with the same design



4

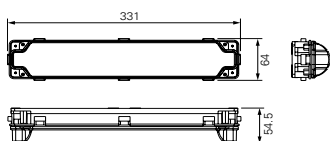
Style 21011 LED SL R CG-S



Style 21011 LED SL O CG-S



Dimensions in mm



Style 21011 LED CG-S

- Compact safety luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series permits combination with various fixing modules
- Available in two different optical variants:
 - Asymmetric light distribution for exit route illumination up to 6 m mounting height
 - Symmetrical light distribution for mounting heights up to 9 m
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Simple mounting via quick mounting set (can be pre-assembled) with integrated terminal block for through-wiring
- Also suitable for use refitting existing installations with Style quick mounting set
- Ingress protection IP54 for increased sealing requirements both indoor and in protected outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Luminous flux Φ_N | 21011 SL R: 305 lm 21011 SL O: 410 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.39 kg |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 21011 SL R: 19 mA 21011 SL O: 25 mA |
| Power consumption mains operation (apparent power / effective power) | 21011 SL R: 7.6 VA / 4.4 W 21011 SL O: 9.5 VA / 5.8 W |
| Inrush current | 1.5 A |
| Permissible temperature range | -20 °C to +40 °C |
| Light source | 21011 SL R: 3 x 1 W LED 21011 SL O: 4 x 1 W LED |

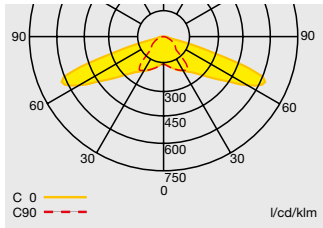
Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|---|-------------|
| Style 21011 LED SL R CG-S | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, with asymmetric light distribution and quick mounting set | 40071350155 |
| Style 21011 LED SL O CG-S | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, with symmetric light distribution and quick mounting set | 40071350156 |

*) IP54 for electronic and lamp. For increased ingress protection requirements indoors or in protected outdoor areas.

Planning help for 21011 LED SL R CG-S CG-S for E = 1.0 lx (0.5 lx) with transparent cover

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

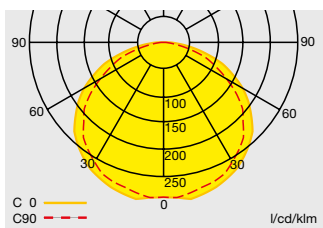


Light distribution curve 21011 LED SL R CG-S

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|------------|-------------|
| 2.5 | Ceiling mounting | 2.9 (3.7) | 7.4 (9.1) | 6.5 (7.3) | 14.6 (16.1) |
| 3.0 | Exit route centre | 3.0 (3.9) | 7.9 (9.8) | 7.1 (8.3) | 16.7 (18.3) |
| 3.5 | | 3.2 (4.1) | 8.2 (10.5) | 7.4 (9.2) | 18.3 (20.6) |
| 4.0 | | 3.6 (4.2) | 8.3 (11.0) | 7.3 (9.9) | 19.7 (22.6) |
| 4.5 | | 3.8 (4.3) | 8.6 (11.3) | 6.6 (10.3) | 20.5 (24.5) |
| 5.0 | | 4.0 (4.6) | 9.3 (11.6) | 5.8 (10.5) | 20.9 (26.1) |
| 5.5 | | 4.0 (4.9) | 9.9 (11.7) | 4.6 (10.4) | 20.7 (27.5) |
| 6.0 | | 3.4 (5.2) | 10.5 (11.9) | 3.6 (10.0) | 19.9 (28.5) |
| 6.5 | | - (5.5) | 10.9 (12.4) | - (9.2) | 18.3 (29.2) |
| 2.0 | Wall mounting | 1.9 (2.5) | 5.0 (6.5) | 1.8 (2.8) | 5.6 (7.1) |
| 2.5 | | 1.7 (2.4) | 4.8 (6.4) | 1.2 (2.3) | 4.6 (6.7) |
| 3.0 | | 1.6 (2.3) | 4.6 (6.1) | - (1.8) | 3.7 (6.1) |
| 2.5 | Ceiling mounting | 2.6 (3.3) | 5.8 (7.0) | 3.3 (3.9) | 14.7 (14.9) |
| 3.0 | Room illumination | 2.8 (3.3) | 6.5 (7.5) | 3.7 (8.2) | 16.7 (18.0) |
| 3.5 | | 2.3 (3.5) | 7.0 (8.2) | 6.6 (4.5) | 18.5 (20.6) |
| 4.0 | | 1.5 (3.8) | 7.3 (8.8) | 5.3 (10.4) | 19.9 (22.7) |
| 4.5 | | 1.0 (3.6) | 7.5 (9.5) | 5.4 (5.6) | 20.9 (24.7) |
| 5.0 | | 2.1 (3.1) | 8.9 (10.0) | 3.5 (6.3) | 19.5 (26.3) |
| 5.5 | | 1.3 (2.2) | 9.4 (10.3) | 3.2 (7.0) | 20.1 (27.8) |
| 6.0 | | 0.7 (1.3) | 8.8 (10.4) | 4.7 (7.6) | 21.0 (29.1) |
| 6.5 | | 0.5 (1.9) | 8.4 (11.0) | 4.0 (6.9) | 21.0 (28.9) |
| 7.0 | | 0.9 (2.9) | 9.6 (12.5) | 3.1 (4.8) | 17.6 (27.5) |
| 7.5 | | 0.6 (2.3) | 9.9 (13.4) | 1.2 (3.3) | 16.4 (27.6) |

Planning help for 21011 LED SL O CG-S CG-S for E = 1.0 lx (0.5 lx) with transparent cover

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

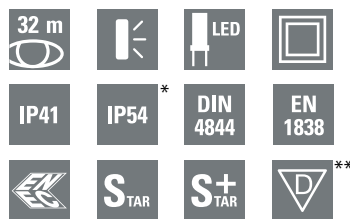


Light distribution curve
21011 LED SL O CG-S

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.2 (5.1) | 10.3 (12.5) | 4.5 (5.6) | 11.1 (13.7) |
| 3.0 | Exit route centre | 4.5 (5.6) | 11.1 (13.5) | 4.8 (6.0) | 12.0 (14.8) |
| 3.5 | | 4.7 (5.9) | 11.8 (14.5) | 5.0 (6.3) | 12.7 (15.7) |
| 4.0 | | 4.9 (6.2) | 12.4 (15.3) | 5.1 (6.6) | 13.3 (16.6) |
| 5.0 | | 5.0 (6.7) | 13.4 (16.8) | 5.2 (7.1) | 14.1 (18.0) |
| 6.0 | | 4.9 (7.0) | 13.9 (17.9) | 5.1 (7.3) | 14.6 (19.1) |
| 7.0 | | 4.5 (7.0) | 14.0 (18.8) | 4.8 (7.4) | 14.8 (19.9) |
| 8.0 | | 3.9 (7.0) | 14.0 (19.5) | 4.2 (7.4) | 14.7 (20.4) |
| 9.0 | | 2.7 (6.8) | 13.6 (19.8) | 3.1 (7.1) | 14.2 (20.8) |
| 2.0 | Wall mounting | 3.0 (3.8) | 7.6 (9.2) | 3.1 (4.0) | 8.0 (9.8) |
| 2.5 | | 2.9 (3.8) | 7.7 (9.5) | 3.0 (4.0) | 8.0 (10.0) |
| 3.0 | | 2.7 (3.7) | 7.5 (9.7) | 2.7 (3.8) | 7.7 (10.1) |
| 2.5 | Ceiling mounting | 3.1 (4) | 8.9 (10.9) | 3.6 (4.2) | 10.1 (12) |
| 3.0 | Room illumination | 3.6 (4.3) | 10.1 (12) | 3.5 (4.4) | 10.5 (12.9) |
| 3.5 | | 3.4 (3.8) | 10.5 (12.2) | 3.9 (5.2) | 11.6 (14.6) |
| 4.0 | | 4 (4.8) | 11.7 (13.8) | 3.5 (4.8) | 11.6 (14.6) |
| 5.0 | | 4 (4.8) | 12.8 (15.1) | 3.5 (5.2) | 12.7 (16.3) |
| 6.0 | | 3.9 (4.6) | 13.6 (16.1) | 3.3 (5.6) | 13.5 (17.8) |
| 7.0 | | 3.6 (5.1) | 14.2 (17.7) | 2.8 (5.2) | 14.1 (18.3) |
| 8.0 | | 3.1 (5.3) | 14.5 (18.9) | 2.5 (4.5) | 14.5 (18.8) |
| 9.0 | | 1.5 (5.2) | 14.2 (19.5) | 2.7 (4.3) | 15.3 (19.5) |

Style 22011 LED CG-S

Safety and Exit Sign Luminaires with the same design



Style 22011 LED CG-S

- Single sided exit sign luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series permits combination with various fixing modules
- Large selection of screenprinted pictogram covers with simple snap mounting
- Exit signs with high luminance of > 500 cd/m² (white area) and good uniformity, in accordance with standards (silk-screened pictograms)
- Special LED optical arrangement for efficient illumination of exit routes, suitable for mounting heights up to 6 m, maximum distance from luminaire to luminaire: > 16 m from 3 m mounting height and > 20 m from 4.5 m mounting height
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Simple mounting via quick mounting set (can be pre-assembled) with integrated terminal block for through-wiring
- Also suitable for use refitting existing installations with Style quick mounting set
- Optionally available IP54 set (for electronic and light source) for increased sealing requirements for indoor rooms or for canopied outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

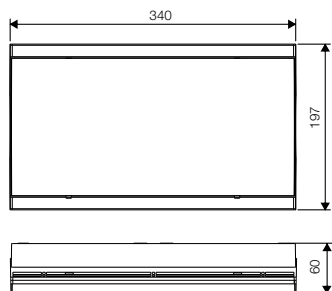
22011 LED SL CG-S with transparent cover



22011 LED CG-S with cover PR



Dimensions in mm



| | |
|--|---|
| Viewing distance | 32 m |
| Luminous flux Φ_N 22011 LED SL CG-S | 320 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.79 kg |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | 7.6 VA / 4.4 W |
| Inrush current | 1.5 A |
| Permissible temperature range | - 20 °C to + 40 °C |
| Current consumption - battery operation (220 V) | 19 mA |
| Light source | 3 x 1 W LED |

Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|---|-------------|
| Style 22011 LED SL CG-S | Luminaire housing IP41, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for exit route lighting, without cover, without quick mounting set | 40071350160 |
| Style 22011 LED CG-S | Luminaire housing IP41, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for exit signage, without cover, without quick mounting set | 40071350161 |
| Cover PL acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354130 |
| Cover PR acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354131 |
| Cover PU acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354132 |
| Cover SL | Transparent cover | 40071345985 |
| Quick-mounting set | With terminals and optional distance plates | 40071345980 |
| IP54 set* | Incl. quick-mounting set and mounting accessories | 40071345975 |

*) IP54 for electronic and lamp. For increased tightness requirements indoors or in canopied outdoor areas.

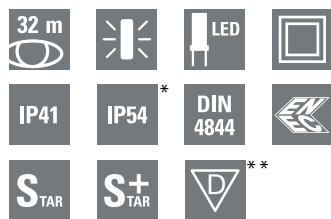
**) In combination with IP54 set: limited surface temperature acc. to DIN EN 60598-2-24

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

Light distribution curve 22011 LED CG-S
with transparent cover

Style 22021 LED CG-S

Safety and Exit Sign Luminaires with the same design

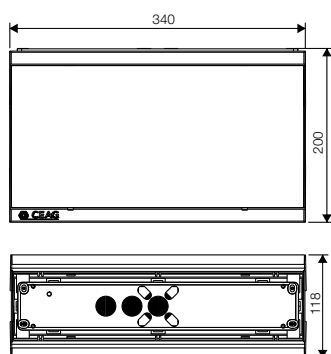


4

22021 LED CG-S with cover PR



Dimensions in mm



Style 22021 LED CG-S

- Double-sided exit sign luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series permits combination with various fixing modules
- Large selection of screenprinted pictogram covers with simple snap mounting
- Exit signs with high luminance of > 500 cd/m² (white area) and good uniformity, in accordance with standards (silk-screened pictograms)
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Simple mounting via quick mounting set (can be pre-assembled) with integrated terminal block for through-wiring
- Also suitable for use refitting existing installations with Style quick mounting set
- Optionally available IP54 set (for electronic and light source) for increased sealing requirements for indoor rooms or for canopied outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Viewing distance | 32 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 1.14 kg |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | 9.5 VA / 5.8 W |
| Inrush current | 1.5 A |
| Permissible temperature range | -20 °C to +40 °C |
| Current consumption - battery operation (220 V) | 25 mA |
| Light source | 4 x 1 W LED |

Ordering details

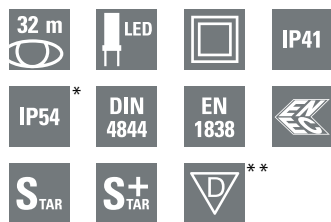
| Type | Scope of supply | Order No. |
|---------------------------|--|-------------|
| Style 22021 LED CG-S | Luminaire housing IP41, including LED-supply with CG-S technology and LED-circuit board 4 x 1 W, for exit signage, without cover, without quick mounting set | 40071350162 |
| Cover PL acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354130 |
| Cover PR acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354131 |
| Cover PU acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354132 |
| Cover SL | Transparent cover | 40071345985 |
| Quick-mounting set | With terminals and optional distance plates | 40071345980 |
| IP54 set* | Incl. quick-mounting set and mounting accessories | 40071345975 |

*) IP54 for electronic and lamp. For increased tightness requirements indoors or in canopied outdoor areas.

**) In combination with IP54 set: limited surface temperature acc. to DIN EN 60598-2-24

Style 22011, 22021 LED CG-S, SET luminaires

Safety and Exit Sign Luminaires with the same design



4

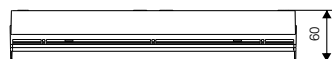
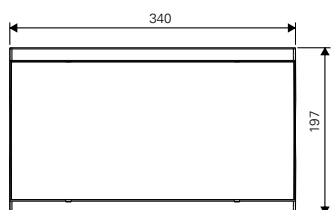
22011 LED SL CG-S with transparent cover



22011 LED CG-S with cover PR



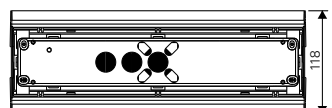
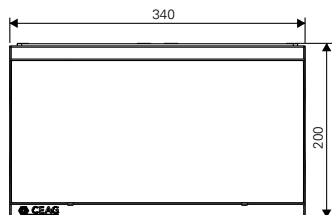
Dimensions in mm



22021 LED CG-S with cover PR



Dimensions in mm



Style 22011, 22021 LED CG-S, set luminaires

- Exit sign luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series allowing combination with various fixing modules
- Exit signs with high luminance of $> 500 \text{ cd/m}^2$ (white area) and good uniformity, in accordance with standards (silk-screened pictograms)
- Special LED optical arrangement for efficient illumination of exit routes, suitable for mounting heights up to 7m, maximum distance from luminaire to luminaire: $> 16\text{m}$ from 3m mounting height and $> 20 \text{ m}$ from 4.5 m mounting height
- Minimum maintenance required due to high service life of the LEDs (over 50,000 hours)
- Simple mounting via quick mounting set (pre-assembly possible) with integrated terminal block for through-wiring
- Optionally available IP54 set (for electronic and light source) for increased sealing requirements both indoor and in protected outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation costs with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|---|
| Viewing distance | 32 m |
| Luminous flux Φ_N | 320 lm |
| Luminous flux Φ_E/Φ_N at end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.79 kg |
| Type of mounting | Wall and ceiling mounting |
| Terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power/effective power) | 7.6 VA / 4.4 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | - 20 °C to + 40 °C |
| Current consumption - battery operation (220 V) | 19 mA |
| Light source | 3 x 1 W LED |

Ordering details

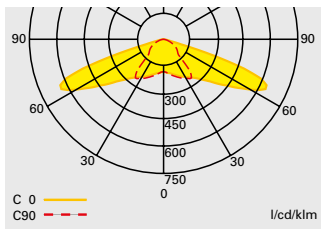
| Type | Scope of supply | Order No. |
|-----------------------------|---|-------------|
| Style 22011 LED SL CG-S SET | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for exit route lighting, with quick mounting set, with transparent cover | 40071350652 |
| Style 22011 LED CG-S SET | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for exit signage, with opaque cap and pictogram set (arrow left, right, down acc. to ISO 7010) and quick mounting set | 40071350653 |
| Style 22021 LED CG-S SET | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 4 x 1 W, for exit signage, with opaque cap and pictogram set (arrow left, right, down acc. to ISO 7010) and quick mounting set | 40071350654 |
| IP54 set* | Incl. quick mounting set and mounting accessories | 40071345975 |

*) IP54 for electronic and lamp. For increased ingress protection requirements indoors or in protected outdoor areas.

**) In combination with IP54 set: limited surface temperature acc. to DIN EN 60598-2-24

Style 22011, 22021 LED CG-S, SET luminaires

Safety and Exit Sign Luminaires with the same design



Light distribution curve 22011 LED CG-S with transparent cover

Planning help for 22011 LED SL CG-S with transparent cover for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height (m) | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|------------|-------------|
| 2.5 | Ceiling mounting | 3.1 (3.9) | 7.9 (9.6) | 6.5 (7.3) | 14.6 (15.9) |
| 3.0 | Exit route centre | 3.2 (4.2) | 8.4 (10.4) | 7.1 (8.3) | 16.6 (18.4) |
| 3.5 | | 3.3 (4.4) | 8.8 (11.1) | 7.5 (9.1) | 18.3 (20.6) |
| 4.0 | | 3.6 (4.5) | 9.0 (11.7) | 7.5 (9.9) | 19.7 (22.6) |
| 4.5 | | 3.9 (4.6) | 9.1 (12.1) | 7.1 (10.3) | 20.6 (24.5) |
| 5.0 | | 4.2 (4.8) | 9.5 (12.4) | 6.3 (10.6) | 21.2 (26.0) |
| 5.5 | | 4.4 (5.1) | 10.1 (12.6) | 5.3 (10.7) | 21.3 (27.4) |
| 6.0 | | 4.4 (5.4) | 10.7 (12.8) | 4.3 (10.4) | 20.8 (28.5) |
| 6.5 | | 3.7 (5.7) | 11.3 (13.0) | 3.4 (9.8) | 19.6 (29.4) |
| 2.0 | Wall mounting | 1.6 (2.2) | 4.4 (5.7) | 1.5 (2.2) | 4.4 (5.7) |
| 2.5 | | 1.3 (1.9) | 3.8 (5.2) | - (1.8) | 3.7 (5.2) |
| 3.0 | | - (1.6) | 3.2 (4.6) | - (-) | - (4.6) |
| 2.5 | Ceiling mounting | 2.7 (3.5) | 5.9 (7.1) | 6.7 (6.3) | 14.6 (14.5) |
| 3.0 | Room illumination | 2.7 (3.5) | 6.6 (7.7) | 3.7 (8.0) | 16.7 (17.7) |
| 3.5 | | 2.4 (3.6) | 7.1 (8.4) | 6.5 (4.6) | 18.4 (20.4) |
| 4.0 | | 1.8 (3.8) | 7.4 (9.0) | 5.4 (9.7) | 19.9 (22.7) |
| 4.5 | | 1.2 (3.6) | 7.5 (9.7) | 5.8 (5.2) | 21.0 (24.4) |
| 5.0 | | 2.2 (3.1) | 9.0 (10.1) | 3.7 (9.0) | 19.7 (26.2) |
| 5.5 | | 1.5 (2.5) | 9.6 (10.4) | 3.4 (7.4) | 20.3 (27.7) |
| 6.0 | | 0.8 (1.7) | 9.1 (10.5) | 4.7 (7.9) | 21.3 (29.1) |
| 6.5 | | 0.6 (3.4) | 8.6 (11.8) | 4.7 (6.1) | 21.6 (27.3) |
| 7.0 | | 0.7 (3.1) | 9.4 (12.7) | 3.9 (5.0) | 19.1 (27.6) |

*) IP54 for electronic and lamp. For increased ingress protection requirements indoors or in protected outdoor areas.

Style 23011 LED CG-S

Safety and Exit Sign Luminaires with the same design

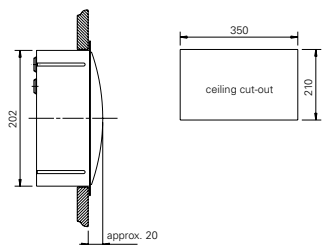
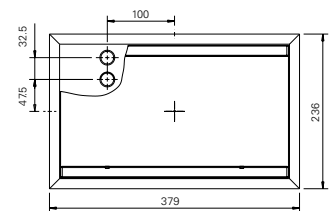
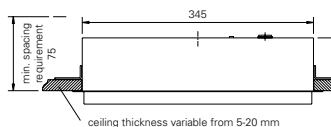


4

23011 LED SL CG-S with transparent cover



Dimensions in mm



Style 23011 LED CG-S

- Safety luminaire for recessed ceiling mounting
- Special LED optical arrangement for efficient illumination of escape routes, suitable for mounting heights up to 7m, maximum distance from luminaire to luminaire: > 16m from 3m mounting height and > 20 m from 4.5 m mounting height
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

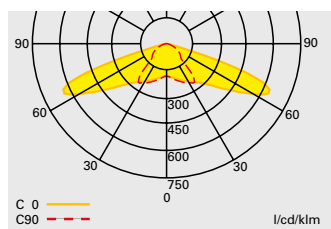
| | |
|--|--|
| Luminous flux Φ_N | 320 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 1.99 kg |
| Type of mounting | Ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | 7.6 VA / 4.4 W |
| Permissible temperature range | -20 °C to +40 °C |
| Inrush current | 1.5 A |
| Current consumption - battery operation (220 V) | 19 mA |
| Light source | 3 x 1 W LED |

Ordering details

| Type | Scope of supply | Order No. |
|-------------------------|---|-------------|
| Style 23011 LED SL CG-S | Housing for recessed mounting, including LED-supply with CG-S technology and LED-circuit board 3 x 1 W, for escape route lighting and transparent cover | 40071350165 |

Planning help for 23011 LED SL CG-S with transparent cover for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

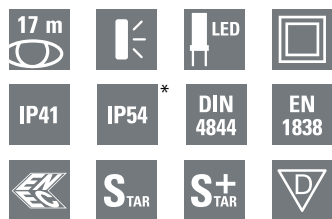


Light distribution curve 23011 LED CG-S

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|------------|-------------|
| 2.5 | Ceiling mounting | 3.1 (3.9) | 7.9 (9.6) | 6.5 (7.3) | 14.6 (15.9) |
| 3.0 | Escape route centre | 3.2 (4.2) | 8.4 (10.4) | 7.1 (8.3) | 16.6 (18.4) |
| 4.0 | | 3.6 (4.5) | 9.0 (11.7) | 7.5 (9.9) | 19.7 (22.6) |
| 5.0 | | 4.2 (4.8) | 9.5 (12.4) | 6.3 (10.6) | 21.2 (26.0) |
| 6.0 | | 4.4 (5.4) | 10.7 (12.8) | 4.3 (10.4) | 20.8 (28.5) |
| 6.5 | | 3.7 (5.7) | 11.3 (13.0) | 3.4 (9.8) | 19.6 (29.4) |
| 2.0 | Wall mounting | 1.6 (2.2) | 4.4 (5.7) | 1.5 (2.2) | 4.4 (5.7) |
| 2.5 | | 1.3 (1.9) | 3.8 (5.2) | - (1.8) | 3.7 (5.2) |
| 3.0 | | - (1.6) | 3.2 (4.6) | - (-) | - (4.6) |
| 2.5 | Ceiling mounting | 2.7 (3.5) | 5.9 (7.1) | 6.7 (6.3) | 14.6 (14.5) |
| 3.0 | Room illumination | 2.7 (3.5) | 6.6 (7.7) | 3.7 (8.0) | 16.7 (17.7) |
| 4.0 | | 1.8 (3.8) | 7.4 (9.0) | 5.4 (9.7) | 19.9 (22.7) |
| 5.0 | | 2.2 (3.1) | 9.0 (10.1) | 3.7 (9.0) | 19.7 (26.2) |
| 6.0 | | 0.8 (1.7) | 9.1 (10.5) | 4.7 (7.9) | 21.3 (29.1) |
| 7.0 | | 0.7 (3.1) | 9.4 (12.7) | 3.9 (5.0) | 19.1 (27.6) |

Style 51011 LED CG-S

Safety and Exit Sign Luminaires with the same design



4

51011 LED CG-S



51011 LED CG-S with pictogram foil PR



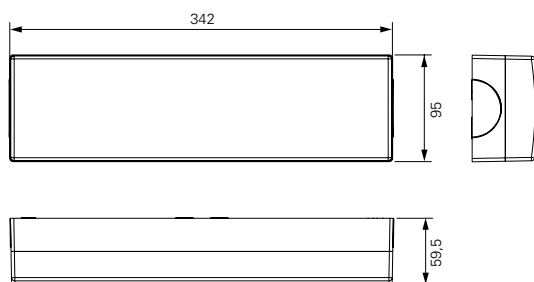
Style 51011 LED CG-S

- Compact exit sign or safety luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series permits combination with various fixing modules
- Includes transparent cap with simple snap mounting and pictogram foil set
- Exit signs with high luminance of > 500 cd/m² (white area) and good uniformity, in accordance with standards
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Simple mounting via quick mounting set (can be pre-assembled) with integrated terminal block for through-wiring
- Also suitable for use refitting existing installations with Style quick mounting set
- Optionally available IP54 set (for electronic and light source) for increased sealing requirements both indoor and in protected outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Luminous flux Φ_N | 390 lm (without pictogram foil) |
| Viewing distance | 17 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.58 kg |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | 9.5 VA / 5.8 W |
| Permissible temperature range | -20 °C to +40 °C |
| Inrush current | 1.5 A |
| Current consumption - battery operation (220 V) | 25 mA |
| Light source | 4 x 1 W LED |

Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|---|-------------|
| Set: Style 51011 LED CG-S | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 4 x 1 W, with opaque cap and pictogram set (arrow left, right, down), without quick mounting set | 40071350171 |
| Quick-mounting set | With terminals and optional distance plates | 40071345980 |
| IP54 set* | Incl. quick-mounting set and mounting accessories | 40071345975 |



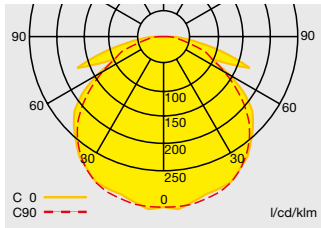
Dimensions in mm

*) IP54 for electronic and lamp. For increased tightness requirements indoors or in canopied outdoor areas.

**) In combination with IP54 set: limited surface temperature acc. to DIN EN 60598-2-24

Planning help for 51011 LED CG-S CG-S for E = 1.0 lx (0.5 lx) with transparent cover

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

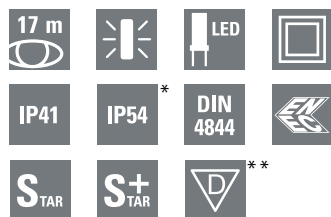


Light distribution curve 51011 LED CG-S with transparent cover

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.0 (5.0) | 9.9 (12.1) | 4.1 (5.0) | 9.9 (14.8) |
| 3.0 | Exit route centre | 4.3 (5.4) | 10.7 (13.0) | 4.5 (5.5) | 10.9 (12.8) |
| 3.5 | | 4.6 (5.7) | 11.4 (13.9) | 4.8 (5.9) | 11.7 (13.9) |
| 4.0 | | 4.8 (6.0) | 12.0 (14.8) | 5.0 (6.2) | 12.4 (14.9) |
| 4.5 | | 4.9 (6.3) | 12.6 (15.5) | 5.1 (6.5) | 13.0 (15.8) |
| 5.0 | | 5.0 (6.5) | 13.0 (16.2) | 5.1 (6.8) | 13.5 (16.6) |
| 5.5 | | 5.0 (6.7) | 13.4 (16.8) | 5.1 (7.0) | 13.9 (17.4) |
| 6.0 | | 4.9 (6.8) | 13.6 (17.4) | 5.0 (7.1) | 14.2 (18.0) |
| 6.5 | | 4.8 (6.9) | 13.8 (17.9) | 4.9 (7.2) | 14.3 (18.6) |
| 7.0 | | 4.6 (7.0) | 14.0 (18.3) | 4.6 (7.2) | 14.3 (19.0) |
| 7.5 | | 4.4 (7.0) | 14.0 (18.7) | 4.3 (7.1) | 14.2 (19.4) |
| 8.0 | | 4.0 (7.0) | 13.9 (19.0) | 4.0 (7.1) | 14.1 (19.7) |
| 8.5 | | 3.6 (6.9) | 13.8 (19.3) | 3.5 (7.0) | 14.0 (20.0) |
| 9.0 | | 2.9 (6.8) | 13.6 (19.5) | 2.7 (6.9) | 13.7 (20.1) |
| 9.5 | | 2.0 (6.7) | 13.3 (19.6) | 1.8 (6.8) | 13.5 (20.2) |
| 10.0 | | - (6.5) | 12.9 (19.8) | - (6.5) | 13.0 (20.2) |
| 2.0 | Wall mounting | 3.1 (3.9) | 7.9 (9.6) | 3.5 (4.4) | 8.8 (10.5) |
| 2.5 | | 3.2 (4.2) | 8.4 (10.4) | 3.5 (4.5) | 9.0 (10.9) |
| 3.0 | | 3.2 (4.2) | 8.5 (10.9) | 3.3 (4.4) | 8.9 (11.2) |
| 2.5 | Ceiling mounting | 1.2 (0.8) | 7.9 (8.8) | 3.7 (4.7) | 10.1 (15.4) |
| 3.0 | Room illumination | 3.4 (1.2) | 9.3 (10.2) | 3.5 (4.8) | 9.5 (15.1) |
| 3.5 | | 3.7 (1.2) | 10.1 (11.2) | 3.6 (5.0) | 10.0 (14.3) |
| 4.0 | | 3.8 (4.4) | 10.7 (12.8) | 3.7 (4.7) | 10.7 (13.1) |
| 4.5 | | 3.9 (4.9) | 11.3 (13.7) | 3.8 (4.8) | 11.3 (13.6) |
| 5.0 | | 3.9 (5.0) | 11.8 (14.4) | 3.8 (4.9) | 11.8 (14.3) |
| 5.5 | | 3.9 (5.1) | 12.3 (15.0) | 3.7 (5.0) | 12.2 (15.0) |
| 6.0 | | 3.9 (5.2) | 12.7 (15.6) | 3.7 (5.1) | 12.6 (15.6) |
| 6.5 | | 3.7 (5.3) | 13.0 (16.2) | 3.6 (5.1) | 13.0 (16.1) |
| 7.0 | | 3.6 (5.4) | 13.3 (16.7) | 3.4 (5.1) | 13.3 (16.6) |
| 7.5 | | 3.3 (5.3) | 13.5 (17.1) | 3.2 (5.1) | 13.6 (17.1) |
| 8.0 | | 3.2 (5.1) | 13.8 (17.3) | 2.7 (5.3) | 13.7 (17.8) |
| 8.5 | | 2.9 (5.3) | 13.9 (17.9) | 2.5 (5.1) | 13.9 (17.9) |
| 9.0 | | 2.7 (4.8) | 14.0 (18.0) | 2.2 (5.2) | 14.0 (18.6) |
| 9.5 | | 2.2 (4.9) | 14.1 (18.5) | 1.8 (4.9) | 14.1 (18.7) |
| 10.0 | | 1.8 (4.9) | 14.2 (18.9) | 1.4 (4.6) | 14.1 (18.8) |

Style 51021 LED CG-S

Safety and Exit Sign Luminaires with the same design



4

51021 LED CG-S with pictogram foil PR



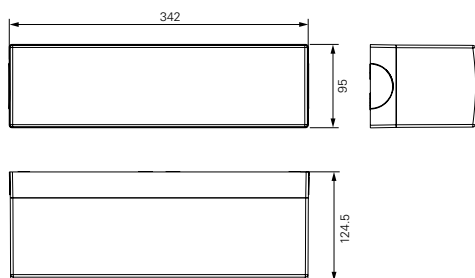
Style 51021 LED CG-S

- Compact exit sign or safety luminaire from high quality, UV-resistant, halogen-free plastic with LED-technology
- Modular constructed luminaire series permits combination with various fixing modules
- Includes opaque cap with simple snap mounting and pictogram foil set
- Exit signs with high luminance of > 500 cd/m² (white area) and good uniformity, in accordance with standards
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Simple mounting via quick mounting set (can be pre-assembled) with integrated terminal block for through-wiring
- Also suitable for use refitting existing installations with Style quick mounting set
- Optionally available IP54 set (for electronic and light source) for increased sealing requirements both indoor and in protected outdoor areas
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Viewing distance | 17 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | Light grey RAL 7035 |
| Weight | 0.75 kg |
| Type of mounting | Wall or ceiling mounting |
| Connection terminals | 2 x 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation (apparent power / effective power) | 9.5 VA / 5.8 W |
| Permissible temperature range | -20 °C to +40 °C |
| Inrush current | 1.5 A |
| Current consumption - battery operation (220 V) | 25 mA |
| Light source | 4 x 1 W LED |

Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|---|-------------|
| Set: Style 51021 LED CG-S | Luminaire housing, including LED-supply with CG-S technology and LED-circuit board 4 x 1 W, with opaque cap and pictogram set (arrow left, right, down), without quick mounting set | 40071350172 |
| Quick-mounting set | With terminals and optional distance plates | 40071345980 |
| IP54 set* | Incl. quick-mounting set and mounting accessories | 40071345975 |



Dimensions in mm

*) IP54 for electronic and lamp. For increased tightness requirements indoors or in canopied outdoor areas.

**) In combination with IP54 set: limited surface temperature acc. to DIN EN 60598-2-24

Accessories Style CG-S

Safety and Exit Sign Luminaires with the same design

Suspension set



Ordering details

Type

Order No.

| | |
|--|-------------|
| Suspension set 0.5 m incl. quick-mounting set (IP41) | 40071345972 |
| Suspension set 0.5 m IP54 incl. quick-mounting set and IP54 supplement | 40071345944 |
| Suspension set 1.5 m incl. quick-mounting set (IP41) | 40071348210 |
| Suspension set 1.5 m IP54 incl. quick-mounting set and IP54 supplement | 40071348556 |
| Suspension set 0.5 m incl. quick-mounting set and 90° angle (IP41) | 40071348665 |

Suspension set with 90° angle



Wall bracket, including quick-mounting set



Type

Order No.

| | |
|---|-------------|
| Wall bracket incl. quick-mounting set (IP41) | 40071345974 |
| Wall bracket (without quick-mounting set) for use with luminaires already delivered with quick mounting set or with IP54 options | 40071354552 |

Chain fastening, including quick-mounting set



Type

Order No.

| | |
|---|-------------|
| Chain fastening incl. quick-mounting set (IP41) | 40071352205 |
| Chain fastening (without quick-mounting set) for use with luminaires already delivered with quick mounting set | 40071354553 |

Luminaire with IP54 cover



Type

Order No.

| | |
|--|-------------|
| IP54 supplement* incl. IP54 cover and quick mounting set with foamed, sulphur-free sealing each and mounting accessories, suitable for LED and fluorescent lamps | 40071345975 |
| *) IP54 for electronic and lamp. For increased tightness requirements indoors or in canopied outdoor areas | |

Wire guard



Type

Order No.

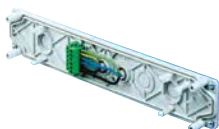
| | |
|----------------------------------|-------------|
| Wire guard incl. mounting clamps | 40071348370 |
|----------------------------------|-------------|

Type

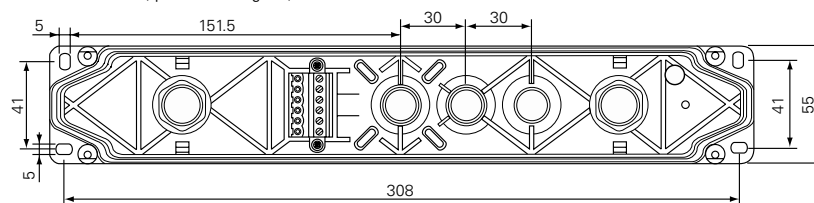
Order No.

| | |
|---|-------------|
| Quick-mounting set with terminals and optional distance plates (IP41) | 40071345980 |
|---|-------------|

Quick-mounting set



Dimensions in mm (quick-mounting set)



Suspension set with 90° angle
and Style 51011 LED CG-S



Suspension set with 90° angle
and Style 22011 LED CG-S



Suspension set with
51021 LED CG-S



Wire guard with Style 22011 LED CG-S

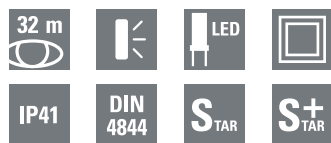


Ordering details special pictograms

| Type | Piktogramm | Viewing distance | Order No. |
|--------------|------------|------------------|-------------|
| Style series | | 32 m | 40071354138 |
| | | 32 m | 40071354134 |
| | | 32 m | 40071354135 |
| | | 32 m | 40071354136 |
| | | 32 m | 40071354137 |
| | | 32 m | 40071348010 |
| | | 32 m | 40071348017 |
| | | 32 m | 40071348018 |
| | | 32 m | 40071348019 |
| | | 32 m | 40071348029 |
| | | 32 m | 40071348030 |
| | | 32 m | 40071348031 |
| | | 32 m | 40071348021 |
| | | 32 m | 40071349349 |
| | | 32 m | 40071349350 |
| | | 32 m | 40071349351 |
| | | 32 m | 40071349352 |
| | | 32 m | 40071349335 |
| | | 32 m | 40071349342 |
| | | 32 m | 40071349343 |
| | | 32 m | 40071349358 |
| | | 32 m | 40071348674 |
| | | 32 m | 40071349368 |
| | | 32 m | 40071349369 |
| | | 32 m | 40071349370 |
| | | 32 m | 40071352387 |

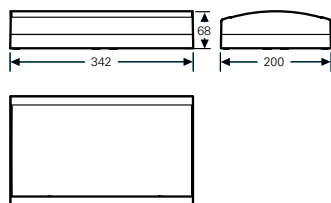
Style Variant 29011 LED CG-S

Safety and Exit Sign Luminaires with the same design



4

29011 LED with cover PR



Style Variant 29011 LED CG-S

- Single sided LED exit sign luminaire of high quality, UV-resistant, halogen-free plastic
- Large selection of screenprinted pictogram covers with simple snap mounting
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Viewing distance | 32 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate (850 °C glow wire resistant) |
| Weight incl. cover | 1.1 kg |
| Housing colour | Grey |
| Type of mounting | Wall mounting |
| Connection terminals | Clamp terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz, 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 19 mA |
| Power consumption mains operation (apparent power / effective power) | 7.6 VA / 4.4 W |
| Inrush current | 1.5 A |
| Permissible temperature range | -10 °C ... +40 °C |
| Light source | HighPower LEDs 3 x 1.1 W |

Ordering details

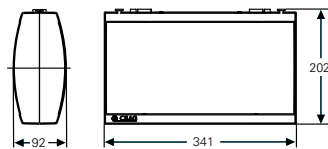
| Type | Scope of supply | Order No. |
|---------------------------|---|-------------|
| 29011 LED CG-S | Luminaire housing without cover, with CEWA GUARD monitoring and 20-digit address switch | 40071350551 |
| Cover PL acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354130 |
| Cover PR acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354131 |
| Cover PU acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354132 |

Accessories

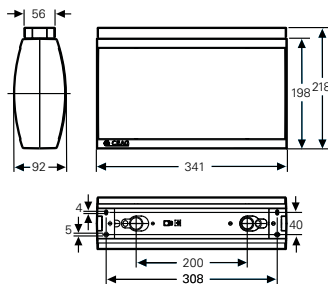
| Scope of supply | Order No. |
|-----------------|-------------|
| Wire guard | 40071348370 |



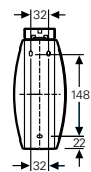
29021 LED with cover PR



29021



29021 with ceiling mounting



29021 with wall bracket



Ceiling mounting



Chain fastening



Wall bracket

Style Variant 29021 LED CG-S

- Double-sided LED exit sign luminaire of high quality, UV-resistant, halogen-free plastic
- Large selection of screenprinted pictogram covers with simple snap mounting
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|--|
| Viewing distance | 32 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate (850 °C glow wire resistant) |
| Weight incl. cover | 1.2 kg |
| Housing colour | Grey |
| Type of mounting | Ceiling mounting |
| Connection terminals | Clamp terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz, 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 25 mA |
| Power consumption mains operation (apparent power / effective power) | 9.5 VA / 5.8 W |
| Inrush current | 1.5 A |
| Permissible temperature range | -10 °C ... +40 °C |
| Light source | HighPower LEDs 4 x 1.1 W |

Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|--|-------------|
| 29021 LED CG-S | Luminaire housing without covers, with CEWA GUARD monitoring and 20-digit address switch | 40071350550 |
| Cover PL acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354130 |
| Cover PR acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354131 |
| Cover PU acc. to ISO 7010 | Cover with silkscreened pictogram | 40071354132 |
| Blind cover | Blind cover | 40071345987 |

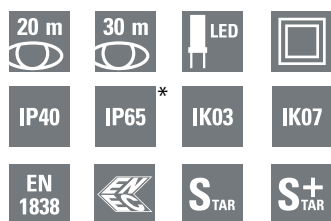
Accessories

| Type | Scope of supply | Order No. |
|-------------------------------|--|-------------|
| Ceiling mounting | for ceiling mounting and chain fastening with chain link diameter < 5 mm | 40071350432 |
| Suspension set 0.5 m | with canopy, curved | 40071350394 |
| Chain fastening ¹⁾ | ring-eyellet | 40071351158 |
| Wall bracket | | 40071350418 |

¹⁾ for chain link diameter from 5 to 12 mm ceiling mounting 40071350432 required

NexiTech LED CG-S

Safety and Exit Sign Luminaires with the same design



NexiTech LED CG-S

- Safety or exit sign luminaire with LED technology
- Combined version "Door" specific for emergency exits's illumination
- Numerous knock-outs for cable entries and double terminal for through-wiring
- Minimum service requirement due to high service life of the LEDs (50.000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

NexiTech LED CG-S Standard indoor version IP40



NexiTech LED CG-S with IP65 protection kit



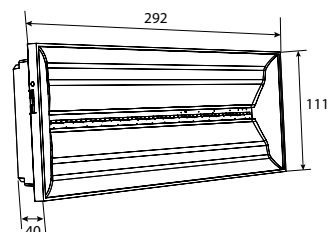
NexiTech LED CG-S with double side panel



Single side glue-less pictogram
Order No. NEXI-PICTO-x



Dimensions in mm



| | |
|--|--|
| Viewing distance | 20 m (single sided), 30 m (double-sided) |
| Luminous flux Φ_{NOM} | 250 lm, 500lm, 250+30 lm (Door version) |
| Luminous flux $\Phi_{\text{E}}/\Phi_{\text{NOM}}$ at the end of rated operating time | 100% |
| Housing material | Polycarbonate (850° glow wire resistant) |
| Housing colour | White |
| Weight | 0.45 kg |
| Type of mounting | Wall and ceiling mounting, surface or recessed installation in false ceiling and bricks wall |
| Connection terminals | Quick plug in terminals up to 2.5 mm ² for rigid and flexible cable |
| Connection voltage | 220 – 240 V AC, 50/60 Hz, 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 250lm: 25,5 mA / 500lm: 49,5 mA / Door: 32 mA |
| Power consumption mains operation (apparent power / effective power) | 250lm: 7.6 VA / 4.2 W / 500lm: 12.9 VA / 7.7 W Door: 9 VA / 5.5 W |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | 29 LED (250lm), 60 LED (500lm), 29+2 LED (Door) |

Ordering details

| Type | Order No. |
|---|----------------|
| Universal application safety and exit sign luminaire with 250lm of luminous flux, incl. LED-supply with CG-S technology and 20-digit address switch | NEXI250-CGS |
| Universal application safety and exit sign luminaire with 250lm of luminous flux, IP65, IK07, incl. LED-supply with CG-S technology and 20-digit address switch | NEXI250-CGS-IP |
| Universal application safety and exit sign luminaire with 500lm of luminous flux, incl. LED-supply with CG-S technology and 20-digit address switch | NEXI500-CGS |
| Universal application safety and exit sign luminaire with 500lm of luminous flux, IP65, IK07, incl. LED-supply with CG-S technology and 20-digit address switch | NEXI500-CGS-IP |
| Combined luminaire specific for emergency exits's illumination, including LED-supply with CG-S technology and 20-digit address switch, without pictograms | NEXI-D-CGS |

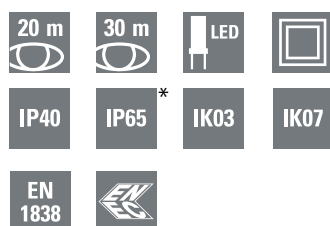
Ordering details - single side pictograms

| Type | Order No. |
|--|--------------|
| Single sided pictograms with 20 m viewing distance | |
| Single sided glue-less pictogram DOWN, ISO7010 | NEXI-PICTO-D |
| Single sided glue-less pictogram LEFT, ISO7010 | NEXI-PICTO-L |
| Single sided glue-less pictogram RIGHT, ISO7010 | NEXI-PICTO-R |
| Single sided glue-less pictogram UP, ISO7010 | NEXI-PICTO-U |

Accessories

| Type | Order No. |
|--|-----------|
| IP65 Protection kit | NEXI-IP |
| 45° Wall Bracket (IP40/IP65) | NEXI-WB45 |
| 90° Wall Bracket (IP40/IP65) | EL-BR1 |
| Bricks wall recessed base (cut-out 277x100 mm) | NEXI-RB |
| False ceiling adapter (cut-out 272x95 mm) | NEXI-FC |
| Design frame NexiTech LED | NEXI-FR |

* Use NEXI-IP accessory to transform IP40 variant into IP65. Order new product, e.g. NEXI250-CGS-IP for IP65 luminaire



NexiTech LED Standard indoor version IP40



NexiTech LED with IP65 protection kit



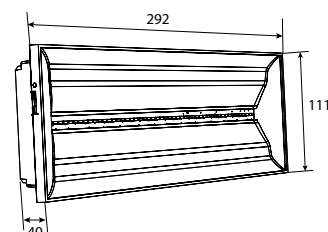
NexiTech LED with double side panel



Single side glue-less pictogram
Order No. NEXI-PICTO-x



Dimensions in mm



NexiTech LED

- Safety or exit sign luminaire with LED technology
- Combined version "Door" specific for emergency exits's illumination
- Numerous knock-outs for cable entries and double terminal for through-wiring
- Minimum service requirement due to high service life of the LEDs (50.000 hours)

| | |
|--|--|
| Viewing distance | 20 m (single sided), 30 m (double-sided) |
| Luminous flux Φ_{NOM} | 250 lm, 500lm , 250+30 lm (Versione Door) |
| Luminous flux $\Phi_{\text{E}}/\Phi_{\text{NOM}}$ at the end of rated operating time | 100% |
| Housing material | Polycarbonate (850° glow wire resistant) |
| Housing colour | White |
| Weight | 0.45 kg |
| Type of mounting | Wall and ceiling mounting, surface of recessed installation in false ceiling and bricks wall |
| Connection terminals | Quick plug in terminals up to 2.5 mm ² for rigid and flexible cable |
| Connection voltage | 110 – 240 V AC, 50/60 Hz 110 – 240 V DC |
| Power consumption mains operation | 250lm: 3.45 W 500lm: 6.9 W Door: 3.45 W |
| Permissible ambient temperature | -10 °C to +40 °C |
| Light source | 29 LED (250lm), 60 LED (500lm), 29+2 LED (Door) |

Ordering details

| Type | Order No. |
|--|----------------|
| Universal application safety and exit sign luminaire with 250lm of luminous flux, including LED-supply | NEXI250-230 |
| Universal application safety and exit sign luminaire with 250lm of luminous flux, IP65, IK07, including LED-supply | NEXI250-230-IP |
| Universal application safety and exit sign luminaire with 500lm of luminous flux, including LED-supply | NEXI500-230 |
| Universal application safety and exit sign luminaire with 500lm of luminous flux, IP65, IK07, including LED-supply | NEXI500-230-IP |
| Combined luminaire specific for emergency exits's illumination, including LED-supply, without pictograms | NEXI-D-230 |

Ordering details - single side pictograms

| Type | Order No. |
|--|--------------|
| Single sided pictograms with 20 m viewing distance | |
| Single sided glue-less pictogram DOWN, ISO7010 | NEXI-PICTO-D |
| Single sided glue-less pictogram LEFT, ISO7010 | NEXI-PICTO-L |
| Single sided glue-less pictogram RIGHT, ISO7010 | NEXI-PICTO-R |
| Single sided glue-less pictogram UP, ISO7010 | NEXI-PICTO-U |

Accessories

| Type | Order No. |
|--|-----------|
| IP65 Protection kit *) | NEXI-IP |
| 45° Wall Bracket (IP40/IP65) | NEXI-WB45 |
| 90° Wall Bracket (IP40/IP65) | EL-BR1 |
| Bricks wall recessed base (cut-out 277x100 mm) | NEXI-RB |
| False ceiling adapter (cut-out 272x95 mm) | NEXI-FC |
| Design frame NexiTech LED | NEXI-FR |

*) Use NEXI-IP accessory to transform IP40 variant into IP65. Order new product, e.g. NEXI250-230-IP for IP65 luminaire

NexiTech LED /NexiTech LED CG-S

Safety and Exit Sign Luminaires with the same design

4



Ordering details - Double side panels with additional light output for escape route lighting, High Uniformity, complying with EN1838, suitable for Nexi LED IP40 versions

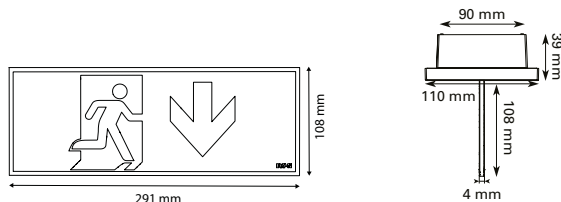
| Type | | Order No. |
|---|--|------------------|
| NEXI PANEL OPAL 30 D-B ISO High Uniformity, 30m, Down/Blank | | NEXI-PLEXO-DB |
| NEXI PANEL OPAL 30 D-D ISO High Uniformity, 30m, Down/Down | | NEXI-PLEXO-DD |
| NEXI PANEL OPAL 30 L-R ISO High Uniformity, 30m, Left/Right | | NEXI-PLEXO-LR |
| NEXI PANEL OPAL 30 U-B ISO High Uniformity, 30m, Up/Blank | | NEXI-PLEXO-UB |
| NEXI PANEL OPAL 30 U-U ISO High Uniformity, 30m, Up/Up | | NEXI-PLEXO-UU |
| NEXI PANEL OPAL 20 D-B ISO High Uniformity, 20m, Down/Blank | | NEXI-PLEXO-20-DB |
| NEXI PANEL OPAL 20 D-D ISO High Uniformity, 20m, Down/Down | | NEXI-PLEXO-20-DD |
| NEXI PANEL OPAL 20 L-R ISO High Uniformity, 20m, Left/Right | | NEXI-PLEXO-20-LR |
| NEXI PANEL OPAL 20 U-B ISO High Uniformity, 20m, Up/Blank | | NEXI-PLEXO-20-UB |
| NEXI PANEL OPAL 20 U-U ISO High Uniformity, 20m, Up/Up | | NEXI-PLEXO-20-UU |

Ordering details - Double side panels, High Uniformity, complying with EN1838, suitable for Nexi LED IP40 versions

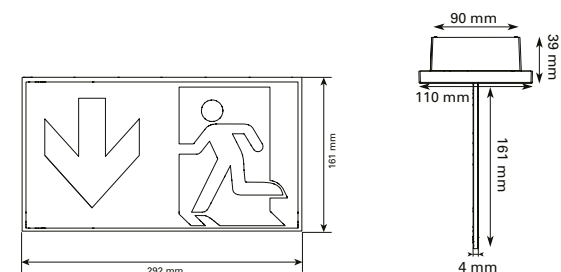
| Type | | Order No. |
|--|--|-----------------|
| NEXI PANEL 20 D-B ISO High Uniformity, 20m, Down/Blank | | NEXI-PLEX-20-DB |
| NEXI PANEL 20 D-D ISO High Uniformity, 20m, Down/Down | | NEXI-PLEX-20-DD |
| NEXI PANEL 20 L-R ISO High Uniformity, 20m, Left/Right | | NEXI-PLEX-20-LR |
| NEXI PANEL 20 U-B ISO High Uniformity, 20m, Up/Blank | | NEXI-PLEX-20-UB |
| NEXI PANEL 20 U-U ISO High Uniformity, 20m, Up/Up | | NEXI-PLEX-20-UU |
| NEXI PANEL 30 D-B ISO High Uniformity, 30m, Down/Blank | | NEXI-PLEX-DB |
| NEXI PANEL 30 D-D ISO High Uniformity, 30m, Down/Down | | NEXI-PLEX-DD |
| NEXI PANEL 30 L-R ISO High Uniformity, 30m, Left/Right | | NEXI-PLEX-LR |
| NEXI PANEL 30 U-B ISO High Uniformity, 30m, Up/Blank | | NEXI-PLEX-UB |
| NEXI PANEL 30 U-U ISO High Uniformity, 30m, Up/Up | | NEXI-PLEX-UU |

* Use NEXI-IP accessory to transform IP40 variant into IP65. Order new product, e.g. NEXI250-CGS-IP for IP65 luminaire

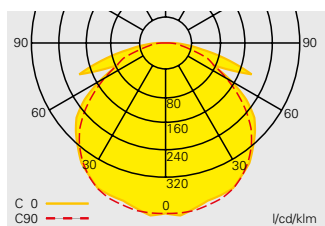
Nexi LED + design frame + Edge light panel



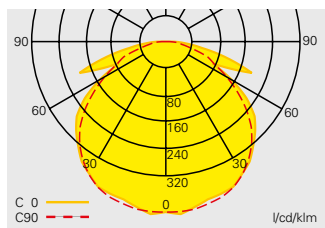
Nexi LED 20m viewing distance



Nexi LED 30m viewing distance



Light distribution curve NexiTech LED CG-S



Light distribution curve NexiTech LED

False ceiling adapter
Order No. NEXI-FC



Recessed base for bricks wall
Order No. NEXI-RB



IP65 protection kit - 308x125x53 mm



NexiTech LED DOOR CG-S
Detail of additional LEDs



Planning assistance for NEXI250-CGS for E = 1.0 lx (0.5 lx)

Measuring height 0.02 m, maintenance factor MF= 80%, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 3.0 (3.7) | 8.1 (9.7) | 2.8 (3.3) | 8.2 (9.8) |
| 3.0 | Room illumination | 3.1 (4.0) | 8.7 (10.8) | 3.0 (3.3) | 8.7 (10.7) |
| 3.5 | | 3.1 (4.1) | 9.2 (11.5) | 3.1 (3.6) | 9.3 (11.5) |
| 4.0 | | 3.1 (4.2) | 9.7 (12.1) | 3.2 (3.9) | 9.8 (12.0) |
| 4.5 | | 3.1 (4.2) | 10.2 (12.7) | 3.1 (4.0) | 10.2 (12.6) |
| 5.0 | | 3.2 (4.1) | 10.6 (13.1) | 3.1 (4.2) | 10.5 (13.3) |
| 5.5 | | 3.0 (4.2) | 10.9 (13.7) | 3.1 (4.2) | 10.9 (13.7) |
| 6.0 | | 2.9 (4.3) | 11.2 (14.2) | 3.0 (4.1) | 11.1 (14.1) |
| 6.5 | | 2.7 (4.2) | 11.4 (14.6) | 2.9 (4.2) | 11.4 (14.5) |
| 7.0 | | 2.5 (4.1) | 11.6 (14.9) | 2.7 (4.2) | 11.5 (15.0) |

Planning assistance for NEXI500-CGS for E = 1.0 lx (0.5 lx)

Measuring height 0.02 m, maintenance factor MF= 80%, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 3.7 (4.5) | 9.7 (11.4) | 3.3 (4.0) | 9.8 (11.3) |
| 3.0 | Room illumination | 4.0 (4.7) | 10.8 (12.7) | 3.3 (4.1) | 10.7 (12.6) |
| 3.5 | | 4.1 (5.1) | 11.5 (13.8) | 3.6 (4.3) | 11.4 (13.7) |
| 4.0 | | 4.2 (5.3) | 12.1 (14.8) | 3.9 (4.5) | 12.0 (14.8) |
| 4.5 | | 4.1 (5.4) | 12.5 (15.6) | 4.2 (4.7) | 12.8 (15.6) |
| 5.0 | | 4.3 (5.5) | 13.2 (16.3) | 4.2 (5.0) | 13.1 (16.4) |
| 5.5 | | 4.3 (5.6) | 13.7 (16.9) | 4.2 (5.3) | 13.6 (16.9) |
| 6.0 | | 4.3 (5.6) | 14.1 (17.4) | 4.3 (5.5) | 14.1 (17.6) |
| 6.5 | | 4.3 (5.8) | 14.6 (18.1) | 4.2 (5.5) | 14.5 (18.0) |
| 7.0 | | 4.2 (5.7) | 14.9 (18.5) | 4.3 (5.7) | 14.9 (18.7) |
| 7.5 | | 4.1 (5.8) | 15.2 (19.1) | 4.3 (5.7) | 15.3 (19.1) |
| 8.0 | | 4.0 (5.8) | 15.6 (19.6) | 4.1 (5.7) | 15.5 (19.6) |
| 8.5 | | 3.9 (5.8) | 15.8 (20.0) | 4.1 (5.8) | 15.8 (20.0) |
| 9.0 | | 3.7 (5.8) | 16.1 (20.5) | 3.9 (5.7) | 16.0 (20.4) |
| 9.5 | | 3.5 (5.7) | 16.3 (20.9) | 3.7 (5.7) | 16.2 (20.8) |
| 10.0 | | 3.2 (5.7) | 16.4 (21.2) | 3.6 (5.7) | 16.4 (21.2) |

NexiTech LED CG-S - Version DOOR

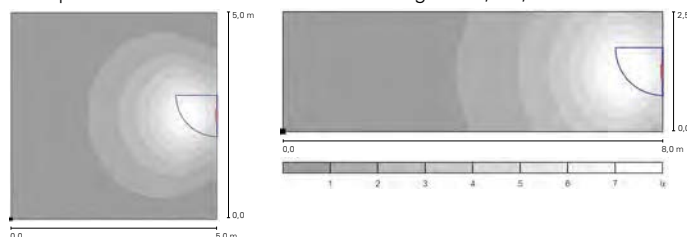


The combined version "Door" of NexiTech LED CG-S allows to get two functions in one luminaire: single-side exit sign with 20 m viewing distance and safety lighting for emergency door as requested by standard EN1838.

In addition to the main LEDs used for backlighting of the pictogram, NexiTech LED Door CG-S has 2 additional LEDs on the bottom of the luminaire for the lighting of emergency exit in accordance with the regulatory requirements.

Illuminance values NexiTech LED Door CG-S

Workplane H 1m. Luminaire installation height H 2,3m, environment height 3m



NexiTech LED

Safety and Exit Sign Luminaires with the same design



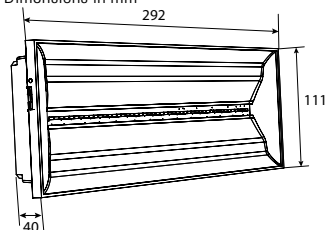
NexiTech LED

- Safety luminaire with LED technology
- Numerous knock-outs for cable entries and double terminal for through-wiring
- Most compact and highly efficient high flux luminaire
- Minimum service requirement due to high service life of the LEDs (50.000 hours)

NexiTech LED 1000 lm IP65



Dimensions in mm



False ceiling adapter
Order No. NEXI-FC



Recessed base for bricks wall
Order No. NEXI-RB



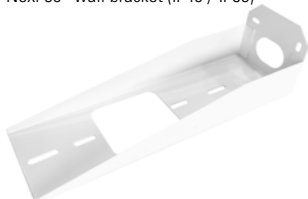
IP65 protection kit - 308x125x53 mm



Nexi 45° wall bracket (IP40 / IP65)



Nexi 90° wall bracket (IP40 / IP65)



| | |
|--|--|
| Luminous flux Φ_{NOM} | 1000 lm |
| Luminous flux $\Phi_{\text{E}}/\Phi_{\text{NOM}}$ at the end of rated operating time | 100% |
| Housing material | Polycarbonate (850° glow wire resistant) |
| Housing colour | White (RAL9003) |
| Weight | 0.5 kg |
| Type of mounting | Wall and ceiling mounting, surface of recessed installation in false ceiling and bricks wall |
| Connection terminals | Quick plug in terminals up to 2.5 mm ² for rigid and flexible cable |
| Connection voltage | 24 – 48 V DC |
| Power consumption mains operation | 8.6 W |
| Current consumption - battery operation | 351.5 mA @ 24 V DC 169.7 mA @ 48 V DC |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | 32 LED |

Ordering details





| Type | Order No. |
|---|----------------|
| Universal application luminaire for safety and exit route panel luminaire with 1000 lm of luminous flux, including LED-supply, IP65 | NEXI1000-LX-IP |

Accessories





| Type | Order No. |
|--|-----------|
| Bricks wall recessed base (cut-out 277x100 mm) | NEXI-RB |
| False ceiling adapter (cut-out 272x95 mm) | NEXI-FC |
| 45° Wall Bracket (IP40/IP65) | NEXI-WB45 |
| 90° Wall Bracket (IP40/IP65) | ELBR1 |



Measuring height 0.02 m, maintenance factor MF= 80%, battery operation

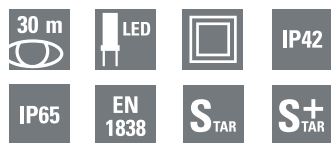
| Mounting height [m] | Types of mounting | L1  | L2  | L3  | L4  |
|---------------------|---------------------|--|---|--|--|
| 2.5 | Ceiling mounting | 5.5 (6.5) | 13.0 (15.3) | 5.6 (6.2) | 12.5 (14.3) |
| 3.0 | Escape route centre | 6.0 (7.2) | 14.3 (16.9) | 6.4 (7.0) | 14.0 (16.2) |
| 4.0 | | 6.9 (8.3) | 16.6 (19.7) | 7.2 (8.7) | 17.3 (19.0) |
| 5.0 | | 7.5 (9.2) | 18.4 (22.1) | 7.7 (9.6) | 19.2 (22.5) |
| 6.0 | | 7.9 (9.9) | 19.8 (24.1) | 8.0 (10.5) | 20.9 (25.3) |
| 7.0 | | 8.2 (10.5) | 21.0 (25.8) | 8.2 (10.8) | 21.6 (27.1) |
| 8.0 | | 8.4 (11.0) | 21.9 (27.4) | 8.4 (11.2) | 22.3 (28.9) |
| 10.0 | | 8.3 (11.6) | 23.1 (29.8) | 8.3 (11.6) | 23.2 (30.7) |
| 12.0 | | 7.8 (11.9) | 23.8 (31.5) | 7.7 (11.9) | 23.8 (31.9) |

Measuring height 0.02 m, maintenance factor MF= 80%, battery operation

| Mounting height [m] | Types of mounting | L1  | L2  | L3  | L4  |
|---------------------|-------------------|--|---|--|--|
| 2.5 | Ceiling mounting | 4.4 (5.4) | 11.2 (13.3) | 5.5 (5.5) | 11.1 (11.9) |
| 3.0 | Room illumination | 4.4 (5.4) | 12.5 (14.5) | 5.5 (6.5) | 12.4 (14.1) |
| 4.0 | | 5.4 (5.4) | 14.5 (17.0) | 5.5 (8.5) | 14.4 (17.0) |
| 5.0 | | 5.4 (6.4) | 15.9 (19.2) | 6.5 (8.5) | 16.4 (19.2) |
| 6.0 | | 6.4 (7.4) | 16.6 (20.8) | 6.5 (8.5) | 18.2 (21.4) |
| 7.0 | | 6.4 (7.4) | 17.3 (22.3) | 6.5 (8.5) | 19.7 (23.3) |
| 8.0 | | 6.4 (8.4) | 18.1 (23.3) | 6.5 (8.5) | 20.7 (24.8) |
| 10.0 | | 6.4 (8.4) | 21.1 (24.6) | 6.5 (9.5) | 21.0 (28.0) |
| 12.0 | | 6.0 (8.4) | 22.4 (27.1) | 5.9 (9.5) | 22.3 (29.1) |

Sirios LED CG-S / Sirios LED

Safety and Exit Sign Luminaires with the same design

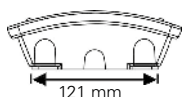
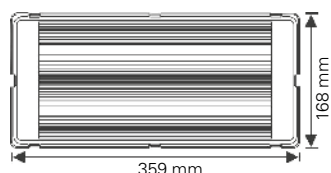


4

Sirios LED CG-S



Dimensions in mm



Recessed mounting set



IP65 set



Wall quick mounting set



Sirios LED CG-S / Sirios LED

- Sirios range of emergency luminaires are low profile, designed and equipped with technical solutions and accessories for a wide range of applications
- Adjustable LED arrays enable antipanic and exit sign illumination, as well as escape route lighting
- The range of accessories includes a base for recessed installation in walls and false ceilings, as well as an IP65 weatherproof kit
- Minimum service requirement due to high service life of the LEDs (50.000 hours)

only CG-S version

- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

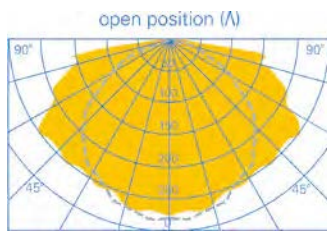
| | |
|--|---|
| Viewing distance | 30 m |
| Luminous flux Φ_N | Led position „open“ 130 lm Led position „closed“ 119 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Polycarbonate |
| Housing colour | White |
| Weight | 0.77 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | plug-in terminal 2.5 mm ² |
| Connection voltage | O-SLED-CG-S: 220 – 240 V AC, 50/60 Hz; 176 – 275 V DC O-SLED-MAINS: 230 V AC, 50/60 Hz; 186 – 275 V DC |
| Power consumption mains operation | O-SLED-CG-S: 7.5 VA / 4.3 W O-SLED-MAINS: 3.2 W |
| Current consumption- battery operation (220 V) | O-SLED-CG-S: 18 mA |
| Permissible temperature range | 0 °C bis +40 °C |
| Light source | 24 white LEDs 1.5 W |

Accessories

| Type | Scope of supply | Order No |
|-----------------|---|--------------|
| Sirios LED CG-S | Luminaire housing including pictogram set (arrow left, right, down) with CG-S technology and 20-digital address switch | O-SLED-CG-S |
| Sirios LED | Luminaire housing including pictogram set (arrow left, right, down) | O-SLED-MAINS |

Accessories

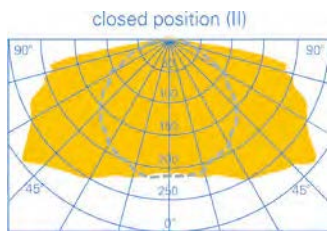
| Type | Order No |
|--|----------|
| Sirios IP65 set | O-S-IP |
| Sirios pictogram panel (down/down) for ceiling mounting | O-S-PSD |
| Sirios pictogram panel (left/right) for ceiling mounting | O-S-PSLR |
| Sirios recessed mounting set for cavity wall or ceiling mounting with frontal brackets | O-S-RB |
| Sirios recessed mounting set for cavity ceiling or recessed mounting with side-springs | O-S-RB2 |
| Sirios wall quick mounting set | O-S-WB |



Light distribution curve Sirios LED CG-S



Open position (A)
for Antipanic and Exit Sign



Light distribution curve Sirios LED CG-S



Closed position (II)
for Escape Route

Engineering help for Sirios LED CG-S (open position) for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|------------|-----------|------------|
| 2.5 | Ceiling mounting | 2.6 (3.4) | 6.7 (8.4) | 3.1 (4.2) | 8.3 (10.8) |
| 3.0 | Escape route centre | 2.6 (3.6) | 7.2 (8.9) | 3 (4.4) | 8.9 (11.2) |
| 3.5 | | 2.5 (3.7) | 7.4 (9.5) | 2.9 (4.5) | 8.9 (11.8) |
| 4.0 | | 2.4 (3.8) | 7.5 (10.0) | 2.5 (4.3) | 8.6 (12.3) |
| 4.5 | | 2.0 (3.7) | 7.4 (10.3) | 2.1 (4.2) | 8.4 (12.7) |
| 5.0 | | 1.5 (3.6) | 7.2 (10.5) | 1.4 (4.0) | 8.0 (12.6) |
| 2.5 | Wall mounting | 2.2 (1.9) | 6.7 (7.4) | 1.5 (3.9) | 7.6 (10.4) |
| 3.0 | Room illumination | 1.7 (3.2) | 6.7 (9.1) | 2.3 (1.5) | 8.6 (9.7) |
| 3.5 | | 1.5 (2.8) | 6.9 (9.4) | 2.3 (2.1) | 9.0 (10.8) |
| 4.0 | | 1.3 (2.5) | 7.2 (9.5) | 2.1 (2.9) | 9.0 (11.7) |
| 4.5 | | 0.7 (2.2) | 7.1 (9.6) | 2.1 (3.1) | 9.2 (12.4) |
| 5.0 | | 1.1 (2.2) | 7.5 (10.1) | 1.6 (2.6) | 8.7 (12.4) |
| 5.5 | | 0.8 (2.0) | 7.6 (10.3) | 1.3 (2.6) | 8.4 (12.5) |
| 6.0 | | 0.7 (1.2) | 7.8 (10.1) | 0.9 (2.9) | 7.8 (12.9) |

Engineering help for Sirios LED CG-S (closed position) for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|------------|-----------|------------|
| 2.5 | Ceiling mounting | 2.2 (3.0) | 6.0 (7.8) | 3.2 (4.2) | 8.4 (11.0) |
| 3.0 | Escape route centre | 2.1 (3.2) | 6.4 (8.2) | 3.1 (4.4) | 8.8 (11.6) |
| 3.5 | | 2.0 (3.2) | 6.3 (8.5) | 2.8 (4.6) | 9.1 (11.9) |
| 4.0 | | 1.5 (3.1) | 6.2 (8.8) | 2.3 (4.6) | 9.1 (12.3) |
| 4.5 | | 0.5 (2.9) | 5.8 (9.0) | 0.4 (4.3) | 8.5 (12.6) |
| 5.0 | | 1.5 (3.6) | 7.2 (10.5) | 1.4 (4.0) | 8.0 (12.6) |
| 2.5 | Wall mounting | 1.7 (2.4) | 6.2 (7.7) | 2.6 (3.6) | 8.1 (10.2) |
| 3.0 | Room illumination | 1.6 (2.5) | 6.6 (8.4) | 1.0 (3.8) | 8.7 (10.6) |
| 3.5 | | 1.2 (2.0) | 6.7 (8.6) | 0.6 (3.9) | 9.4 (11.6) |
| 4.0 | | 0.7 (2.2) | 6.6 (9.2) | 0.7 (2.0) | 9.9 (12.0) |
| 4.5 | | 0.7 (2.1) | 6.5 (9.5) | 0.7 (0.6) | 9.9 (12.6) |
| 5.0 | | 0.5 (1.2) | 6.1 (9.4) | 1.0 (0.8) | 9.9 (13.5) |
| 5.5 | | 0.5 (1.0) | 5.6 (9.4) | 0.5 (0.6) | 9.3 (13.9) |
| 6.0 | | 0.5 (0.5) | 6.7 (9.3) | 0.5 (0.7) | 6.7 (14.1) |

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

* Better uniformity on exit sign

** Larger illuminated area

*** Longer distance at lower heights, more concentrated illuminance along the escape route

Sirios 8W CG-S

Safety and Exit Sign Luminaires with the same design



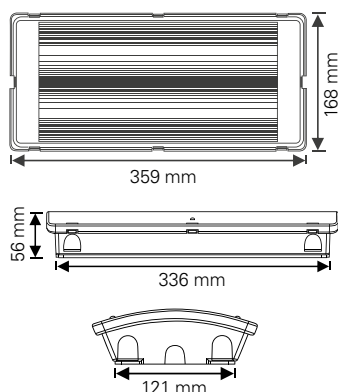
Sirios 8W CG-S

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- The range of accessories includes a base for recessed installation in walls and false ceilings. As well as an IP65 weatherproof kit
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

Sirios 8W CG-S




Dimensions in mm



| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_N | 324 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 75 % |
| Housing material | Polycarbonate |
| Housing colour | White |
| Weight | 0.69 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | plug-in terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation | 16 VA / 9.6 W |
| Current consumption- battery operation (220 V) | 30 mA |
| Inrush current | 3 A |
| Permissible temperature range | 0 °C bis +25 °C |
| Light source | 8W / T16 |

Order No.

| Type | Scope of supply | Order No |
|----------------|---|----------|
| Sirios 8W CG-S | Luminaire housing including pictogram set (arrow left, right, down)  with CG-S technology and 20-digital address switch | O-S8-CGS |

Accessories

| Type | Order No |
|--|----------|
| Sirios IP65 set | O-S-IP |
| Sirios pictogram panel (down/down) for ceiling mounting | O-S-PSD |
| Sirios pictogram panel (left/right) for ceiling mounting | O-S-PSLR |
| Sirios recessed mounting set for cavity wall or ceiling mounting with frontal brackets | O-S-RB |
| Sirios recessed mounting set for cavity ceiling or recessed mounting with side-springs | O-S-RB2 |
| Sirios wall quick mounting set | O-S-WB |

Recessed mounting set



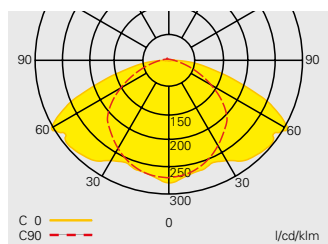
IP65 set



Wall quick mounting set



Attention: Phase out of the product end of 2020!



Light distribution curve Sirios 8W CG-S

Engineering help for Sirios 8W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 3.3 (4.1) | 8.3 (10.0) | 4.5 (5.6) | 11.3 (13.5) |
| 3.0 | Escape route centre | 3.5 (4.5) | 8.9 (10.9) | 4.6 (6.1) | 12.1 (14.8) |
| 3.5 | | 3.6 (4.7) | 9.4 (11.7) | 4.6 (6.4) | 12.8 (15.9) |
| 4.0 | | 3.6 (4.9) | 9.8 (12.3) | 4.5 (6.5) | 13.1 (16.8) |
| 4.5 | | 3.4 (5.0) | 10.0 (12.9) | 4.3 (6.4) | 12.8 (17.5) |
| 5.0 | | 3.2 (5.1) | 10.2 (13.4) | 4.0 (6.5) | 13.0 (18.1) |
| 5.5 | | 3.0 (5.1) | 10.1 (13.7) | 3.4 (6.4) | 12.9 (18.5) |
| 6.0 | | 2.6 (5.0) | 9.9 (14.0) | 2.6 (6.3) | 12.6 (18.4) |
| 6.5 | | 2.0 (4.8) | 9.6 (14.2) | 1.9 (6.1) | 12.1 (18.2) |
| 7.0 | | 1.1 (4.6) | 9.2 (14.4) | 0.8 (5.8) | 11.5 (18.3) |

Engineering help for Sirios 8W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|------------|-----------|-------------|
| 2.5 | Ceiling mounting | 2.7 (3.8) | 8.0 (10.0) | 1.4 (1.0) | 10.2 (11.5) |
| 3.0 | Room illumination | 2.5 (3.8) | 8.4 (10.7) | 1.6 (1.4) | 11.4 (13.0) |
| 3.5 | | 2.2 (3.7) | 8.5 (11.3) | 2.2 (1.7) | 12.5 (14.3) |
| 4.0 | | 2.0 (3.5) | 8.7 (11.7) | 2.3 (2.0) | 13.1 (15.6) |
| 4.5 | | 1.5 (3.0) | 9.0 (11.9) | 2.2 (2.4) | 13.5 (16.9) |
| 5.0 | | 1.8 (2.3) | 9.3 (11.8) | 2.1 (3.6) | 13.3 (18.2) |
| 5.5 | | 1.4 (2.9) | 9.3 (12.6) | 2.2 (2.5) | 13.7 (18.0) |
| 6.0 | | 0.6 (2.5) | 9.2 (12.8) | 2.3 (2.6) | 14.1 (18.5) |
| 6.5 | | 0.7 (1.6) | 9.2 (12.7) | 2.3 (3.0) | 13.9 (19.3) |
| 7.0 | | 0.6 (2.4) | 8.9 (13.2) | 2.4 (2.7) | 13.8 (18.7) |
| 7.5 | | 0.8 (2.0) | 9.2 (13.2) | 2.1 (2.8) | 13.0 (19.2) |
| 8.0 | | 0.6 (1.0) | 9.4 (13.1) | 1.9 (2.9) | 12.2 (19.7) |
| 8.5 | | 0.6 (0.6) | 9.7 (13.1) | 1.4 (3.0) | 10.9 (19.9) |
| 9.0 | | 0.7 (0.5) | 9.6 (13.1) | 1.5 (2.9) | 9.5 (19.8) |
| 9.5 | | 0.6 (0.5) | 9.1 (12.8) | 1.4 (3.1) | 8.6 (19.7) |
| 10.0 | | 0.6 (0.7) | 9.5 (12.7) | 1.0 (3.1) | 7.2 (19.3) |

Sirios 11W CG-S

Safety and Exit Sign Luminaires with the same design



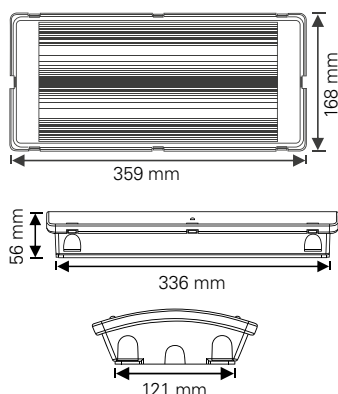
Sirios 11W CG-S

- Sirios range of emergency luminaires are low profile, designed and equipped with technical solutions and accessories for a wide range of applications
- The range of accessories includes a base for recessed installation in walls and false ceilings. As well as an IP65 weatherproof kit
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

Sirios 11W CG-S



Dimensions in mm



| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_N | 471 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 75 % |
| Housing material | Polycarbonate |
| Housing colour | White |
| Weight | 0.70 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | plug-in terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC. 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation | 18 VA / 10.8 W |
| Current consumption- battery operation (220 V) | 40 mA |
| Inrush current | 3 A |
| Permissible temperature range | 0 °C bis +25 °C |
| Light source | FL11W2G7 |

Order No.

| Type | Scope of supply | Order No |
|-----------------|---|-------------|
| Sirios 11W CG-S | Luminaire housing including pictogram set (arrow left, right, down) with CG-S technology and 20-digital address switch | O-S11W-CG-S |

Accessories

| Type | Order No |
|--|----------|
| Sirios IP65 set | O-S-IP |
| Sirios pictogram panel (down/down) for ceiling mounting | O-S-PSD |
| Sirios pictogram panel (left/right) for ceiling mounting | O-S-PSLR |
| Sirios recessed mounting set for cavity wall or ceiling mounting with frontal brackets | O-S-RB |
| Sirios recessed mounting set for cavity ceiling or recessed mounting with side-springs | O-S-RB2 |
| Sirios wall quick mounting set | O-S-WB |

Recessed mounting set



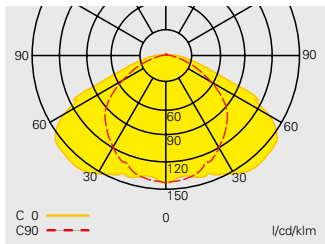
IP65 set



Wall quick mounting set



Attention: Phase out of the product end of 2020!



Light distribution curve Sirios 11W CG-S

Engineering help for Sirios 11W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 3.7 (4.5) | 9.0 (10.9) | 4.7 (5.7) | 11.4 (13.1) |
| 3.0 | Escape route centre | 4.0 (4.9) | 9.8 (11.8) | 5.1 (6.4) | 12.7 (14.5) |
| 3.5 | | 4.2 (5.3) | 10.5 (12.7) | 5.4 (6.7) | 13.4 (16.0) |
| 4.0 | | 4.3 (5.5) | 11.0 (13.5) | 5.6 (7.1) | 14.2 (17.4) |
| 4.5 | | 4.3 (5.7) | 11.5 (14.3) | 5.7 (7.4) | 14.9 (18.4) |
| 5.0 | | 4.2 (5.9) | 11.8 (14.9) | 5.6 (7.7) | 15.4 (19.0) |
| 5.5 | | 4.1 (6.0) | 12.0 (15.5) | 5.5 (7.9) | 15.7 (19.8) |
| 6.0 | | 3.9 (6.1) | 12.1 (15.9) | 5.3 (8.0) | 16.0 (20.6) |
| 6.5 | | 3.7 (6.0) | 12.1 (16.3) | 5.1 (8.0) | 16.0 (21.2) |
| 7.0 | | 3.4 (6.0) | 11.9 (16.7) | 4.6 (8.0) | 15.9 (21.7) |
| 7.5 | | 2.9 (5.9) | 11.7 (16.9) | 3.9 (7.8) | 15.7 (22.1) |
| 8.0 | | 2.3 (5.7) | 11.5 (17.1) | 2.8 (7.7) | 15.4 (22.4) |
| 8.5 | | 1.4 (5.5) | 11.1 (17.1) | 1.0 (7.5) | 15.0 (22.6) |

Engineering help for Sirios 11W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 3.5 (4.3) | 9.1 (11.0) | 1.0 (1.0) | 9.8 (11.0) |
| 3.0 | Room illumination | 3.0 (4.7) | 9.3 (12.0) | 4.2 (0.9) | 11.6 (12.5) |
| 3.5 | | 3.0 (4.7) | 10.1 (12.8) | 4.2 (1.2) | 12.5 (13.9) |
| 4.0 | | 3.0 (4.2) | 10.4 (12.9) | 4.6 (5.6) | 13.3 (15.8) |
| 4.5 | | 3.3 (4.8) | 11.0 (14.3) | 1.8 (1.4) | 13.7 (16.1) |
| 5.0 | | 3.3 (4.1) | 11.4 (14.4) | 1.6 (5.8) | 14.3 (17.7) |
| 5.5 | | 2.9 (4.1) | 11.6 (14.6) | 1.6 (6.2) | 15.1 (18.6) |
| 6.0 | | 2.4 (4.6) | 11.7 (15.4) | 1.7 (2.2) | 15.9 (18.8) |
| 6.5 | | 1.9 (4.6) | 11.8 (15.8) | 1.7 (2.1) | 16.5 (19.4) |
| 7.0 | | 1.1 (4.4) | 11.8 (16.1) | 1.6 (2.1) | 17.1 (20.2) |
| 7.5 | | 0.5 (4.1) | 11.8 (16.3) | 1.5 (2.1) | 17.4 (21.0) |
| 8.0 | | 0.7 (3.8) | 11.8 (16.5) | 1.4 (2.1) | 17.3 (21.7) |
| 8.5 | | 0.6 (3.2) | 11.7 (16.6) | 1.4 (2.1) | 17.3 (22.5) |
| 9.0 | | 0.5 (2.6) | 11.6 (16.7) | 1.2 (2.1) | 17.2 (23.2) |
| 9.5 | | 0.7 (1.9) | 11.5 (16.7) | 0.9 (2.1) | 16.9 (23.8) |
| 10.0 | | 0.5 (1.2) | 11.3 (16.7) | 0.7 (2.1) | 16.7 (24.3) |

Sirios 18W CG-S

Safety and Exit Sign Luminaires with the same design



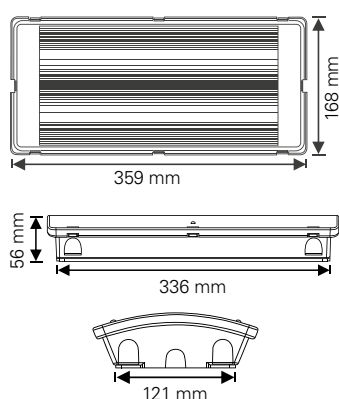
Sirios 18W CG-S

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- The range of accessories includes a base for recessed installation in walls and false ceilings. As well as an IP65 weatherproof kit
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditure with STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

Sirios 18W CG-S




Dimensions in mm



| | |
|--|--|
| Viewing distance | 30 m |
| Luminous flux Φ_N | 771 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 75 % |
| Housing material | Polycarbonate |
| Housing colour | White |
| Weight | 0.74 kg |
| Type of mounting | Wall and ceiling mounting |
| Connection terminals | plug-in terminal 2.5 mm ² |
| Connection voltage | 220 – 240 V AC, 50/60 Hz 176 – 275 V DC |
| Power consumption mains operation | 30 VA / 18 W |
| Current consumption- battery operation (220 V) | 70 mA |
| Inrush current | 8 A |
| Permissible temperature range | 0 °C bis +25 °C |
| Light source | FL18W2G11 |

Order No.

| Type | Scope of supply | Order No |
|-----------------|---|-----------|
| Sirios 18W CG-S | Luminaire housing including pictogram set (arrow left, right, down)  with CG-S technology and 20-digital address switch | O-S18-CGS |

Recessed mounting set



Accessories

| Type | Order No |
|--|----------|
| Sirios IP65 set | O-S-IP |
| Sirios pictogram panel (down/down) for ceiling mounting | O-S-PSD |
| Sirios pictogram panel (left/right) for ceiling mounting | O-S-PSLR |
| Sirios recessed mounting set for cavity wall or ceiling mounting with frontal brackets | O-S-RB |
| Sirios recessed mounting set for cavity ceiling or recessed mounting with side-springs | O-S-RB2 |
| Sirios wall quick mounting set | O-S-WB |

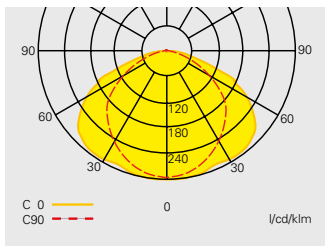
IP65 set



Wall quick mounting set



Attention: Phase out of the product end of 2020!



Light distribution curve Sirios 18W CG-S

Engineering help for Sirios 18W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|------------|-------------|
| 2.5 | Ceiling mounting | 4.8 (5.7) | 11.3 (13.3) | 5.9 (6.9) | 13.7 (16.1) |
| 3.0 | Escape route centre | 5.2 (6.2) | 12.4 (14.7) | 6.3 (7.6) | 15.2 (17.8) |
| 3.5 | | 5.5 (6.7) | 13.4 (15.9) | 6.7 (8.3) | 16.5 (19.3) |
| 4.0 | | 5.8 (7.1) | 14.2 (17.1) | 7.0 (8.6) | 17.3 (20.8) |
| 4.5 | | 6.1 (7.5) | 15.0 (18.1) | 7.3 (9.1) | 18.1 (22.3) |
| 5.0 | | 6.3 (7.8) | 15.7 (19.0) | 7.5 (9.5) | 18.9 (23.4) |
| 5.5 | | 6.4 (8.1) | 16.3 (19.9) | 7.7 (9.8) | 19.6 (24.2) |
| 6.0 | | 6.5 (8.4) | 16.8 (20.7) | 7.8 (10.1) | 20.2 (25.0) |
| 6.5 | | 6.6 (8.6) | 17.3 (21.4) | 7.9 (10.3) | 20.7 (25.9) |
| 7.0 | | 6.5 (8.8) | 17.7 (22.1) | 7.9 (10.6) | 21.1 (26.7) |
| 7.5 | | 6.5 (9.0) | 18.0 (22.7) | 7.9 (10.7) | 21.5 (27.4) |
| 8.0 | | 6.4 (9.1) | 18.3 (23.2) | 7.8 (10.9) | 21.8 (28.0) |
| 8.5 | | 6.3 (9.2) | 18.4 (23.8) | 7.7 (11.0) | 22.0 (28.6) |
| 9.0 | | 6.1 (9.3) | 18.5 (24.2) | 7.5 (11.1) | 22.2 (29.1) |
| 9.5 | | 5.9 (9.3) | 18.5 (24.7) | 7.2 (11.2) | 22.4 (29.5) |
| 10.0 | | 5.7 (9.2) | 18.5 (25.1) | 6.9 (11.2) | 22.4 (29.9) |

Engineering help for Sirios 18W CG-S for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m. maintenance factor MF = 80 %. battery operation. distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.2 (4.7) | 11 (12.8) | 3.9 (4.7) | 11.5 (13.8) |
| 3.0 | Room illumination | 3.9 (5.1) | 11.4 (14.1) | 4.7 (5.1) | 13.5 (15.2) |
| 3.5 | | 4.1 (5.3) | 12.2 (15) | 5.1 (5.7) | 14.7 (16.8) |
| 4.0 | | 4.3 (5.6) | 13.0 (16.0) | 5.3 (6.1) | 15.5 (18.1) |
| 4.5 | | 4.4 (5.3) | 13.6 (16.3) | 5.6 (6.9) | 16.3 (20.1) |
| 5.0 | | 4.6 (5.8) | 14.4 (17.6) | 5.7 (6.8) | 16.9 (20.6) |
| 5.5 | | 4.7 (5.8) | 15.1 (18.2) | 5.6 (7.2) | 17.5 (21.7) |
| 6.0 | | 4.7 (5.4) | 15.6 (18.3) | 5.5 (7.9) | 18.2 (23.1) |
| 6.5 | | 4.7 (6.2) | 16.1 (19.6) | 5.3 (7.7) | 18.8 (23.1) |
| 7.0 | | 5.2 (6.3) | 17.2 (20.3) | 2.8 (7.8) | 18.6 (23.8) |
| 7.5 | | 4.7 (6.6) | 17.0 (21.2) | 4.4 (7.6) | 19.8 (24.2) |
| 8.0 | | 5.2 (6.8) | 18.0 (22.0) | 2.3 (7.1) | 19.6 (24.6) |
| 8.5 | | 5.2 (6.8) | 18.5 (22.5) | 2.0 (6.9) | 19.9 (25.3) |
| 9.0 | | 4.5 (6.9) | 18.2 (23.1) | 2.6 (6.4) | 21.0 (25.8) |
| 9.5 | | 4.5 (6.4) | 18.6 (23.0) | 2.4 (7.1) | 21.2 (27.0) |
| 10.0 | | 3.7 (6.9) | 18.3 (24.0) | 2.9 (5.3) | 22.1 (26.9) |














Safety and Exit Sign Luminaires with High Ingress Protection

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Safety and Exit Sign Luminaires with High Ingress Protection

Overview

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| | | | Aesthetic | Low consumption / Eco-friendly | Protection Degree | Viewing distance | Luminous flux | 24 V | 48 V | 110 V | 220 V DC | 230 V AC | Monitored CG-S | Monitored EC 1.5 |
|------------|-----------------------|---|-----------------|-----------------------------------|-------------------|------------------|---------------------------------|---------|------|-------|----------|----------|----------------|------------------|
| | | Performance | Global Features | | | | | Voltage | | | | | Technology | |
| 5.1 | Atlantic LED |  ★ ★ ★ | ● | ● | 65 | 24 | 220/ 225 lm HB: 340 lm | | | | ● | ● | ● | |
| 5.2 | Atlantic Outdoor Wall |  ★ ★ ★ | ● | ● | 65 | | 225 lm | | | | ● | ● | ● | |
| 5.3 | 46011 LED |  ★ ★ ★ | | ● | 65 | 60 | | | | | ● | ● | ● | |
| 5.4 | i-P65+ |  ★ ★ ★ | | ● | 65 | | 770 lm 590 lm | | | | ● | ● | ● | ● |
| 5.5 | i-P65 |  ★ ★ | | ● | 65 | 18/ 20 | 225 lm | | | ● | ● | ● | ● | ● |
| 5.6 | 83022 / 84022 LED |  ★ ★ | | | 65 | 20* | 600 620 lm | | | | ● | ● | ● | |
| 5.7 | Tufflite LED |  ★ ★ | | | 66 | | 2500 lm | | | | ● | ● | | |
| 5.8 | Planete Tube |  ★ ★ | | | 66/ 68 | 22 | 400 lm | ● | ● | | ● | ● | ● | |
| 5.9 | SafeLite |  ★ | | ● | 65 | 20 | 200 lm 400 lm | ● | ● | ● | ● | ● | ● | ● |

*only optional for 83022

Safety and Exit Sign Luminaires with High Ingress Protection

Overview

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| | Outdoor | Low Temperature | High Bay | HACCP | Wall | Ceiling | Recessed | Suspended | Healthcare | Hotels | Cinemas / Theaters | Commercial centers | Stadia / Arenas | Offices | Industrial | Warehouse |
|--|------------------|-----------------|----------|-------|--------------|---------|----------|-----------|--------------|--------|--------------------|--------------------|-----------------|---------|------------|-----------|
| | Special Features | | | | Installation | | | | Applications | | | | | | | |
| | ● | ● | ● | ● | ● | ● | | | | | | | ● | | ● | ● |
| | ● | | | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | | ● | ● | | | | | | | | ● | | ● | ● |
| | | | ● | ● | | ● | | | | | | | | | ● | ● |
| | | | | | ● | ● | | | | | | | ● | | ● | ● |
| | ● | | | | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | | ● | | | | | | | ● | | ● | ● |
| | | | | | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● |
| | | | | | ● | ● | ● | | | ● | | ● | | | ● | ● |

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.



Eaton's Low Temperature-Series is specialized for low temperature environments down to -40°C



When working in an environment with extremely low temperatures, a rapid, uninhibited evacuation when faced with an emergency situation is vital. At this moment, the emergency lighting system is needed to kick into action. Centrally powered safety luminaires illuminate the escape route out of the building through the exits clearly marked by bright escape signs. Regardless of the

application, workplaces in low temperature environments have the same safety requirements as workplaces with normal temperature.

Cold store facilities are constructed with heavy insulating doors and without windows in order to ensure effective cooling. This constitutes a particularly challenging environment for emergency scenarios. Without direct sunlight, the cold storage facility is cast into complete darkness in the event of a power cut. Therefore, the importance of the provision of light for all those inside the cold store cannot be understated, ensuring all personnel are able to exit the building to safety.

Eaton's LT-Series of central battery-supplied luminaires, specialized for environments down to -40°C , alleviates difficulty in the planning of escape routes for low temperature facilities. Distribution networks and supply chains of foodstuffs can be streamlined for cost-effectiveness by installing specialized LT-Series emergency luminaires that will keep performing where other luminaires fail or reduce in output.

Escape routes are required to continue even outside of the building to lead people to a point of safety. This makes emergency luminaires necessary on external areas at the exits of buildings. In locations with vast seasonal differences in temperature, a tough challenge is posed for external escape route illumination. Eaton's LT-Series combines both certified IP65 enclosures and specialized electronics that will not fail during the freezing winter temperatures.

Low Temperature Concept

To cater for vastly varying choices of tastes from all corners of the world and in all seasons, there is a growing number of foodstuffs available that are transported to supermarkets from large and small distribution centres. This requires continuously cooling or freezing without interruption.

High temperatures are well-known to cause functional problems for the electronics in luminaires. However sub-zero temperatures adversely put luminaire electronics under strain and can lead to malfunction if the components are not suitable for such a harsh environment. The LT-Series is built on specialized electronics with specific components capable of functioning in extremely cold environments.

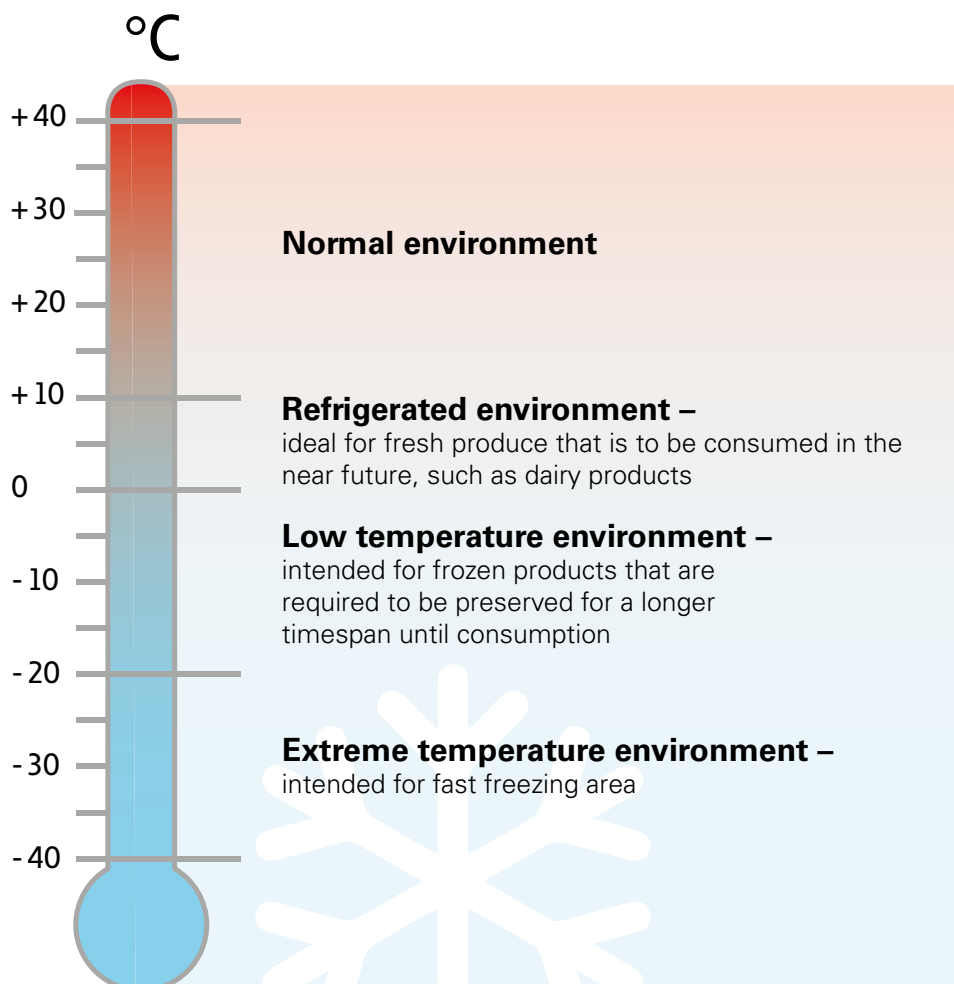
Additionally low temperatures also pose a challenge for conventional lamps. For this reason, the LT-Series utilizes LED technology, allowing a life expectancy of 50,000 hours that reduces maintenance costs and minimizes running costs through lower power input.



The Series contains the ideal mix of escape signs for large zones and smaller, more contained areas, as well as safety luminaires for both high and low mounting heights. The LT-Series is therefore optimal for all applications with low temperatures, regardless of the size of the installation.

Facilities in the supply chain of both refrigerated and frozen products can achieve norm-conformity, enhanced safety and become more cost-effective with Eaton's LT-Series of emergency luminaires.

Eaton's LT-Series guarantees reliable performance across a wide temperature range.





Eaton's LT-Series: Performing where others freeze

Robust housings – Enclosures with IP65 and IK08 to IK10 ratings are required to protect the LEDs and electronics inside, enabling the luminaires to be operated under challenging cold environmental conditions.

Sophisticated illumination – High quality LEDs in combination with specialized optics technology ensure a consistent, uniform illumination of the escape sign pictograms. With 500 cd/m² light density in the white area, the escape sign remains clearly visible, despite poor conditions or bright ambient lighting. Likewise for safety luminaires, superior illumination of escape routes and wide areas is guaranteed by high power LEDs and associated specialized optics, allowing for larger spacings between luminaires as well as high mounting heights. Cold temperature not only increases the life of consumable foodstuffs, it also increases the service life of the LEDs, therefore a service life much longer than normal can be expected from the LT-Series, making certain that escape routes and emergency exits are illuminated when you need them most.

Electronics with high performance – For applications down to -40°C, the specialized electronic module in the LT-Series has carefully selected components to guarantee function without disruption or malfunction in harsh conditions. Integrated in every LT-Module is Eaton's proven STAR-Technology, that enables the free programmability of the switching modes (non-maintained, maintained or switch maintained) of every luminaire in a circuit without an additional dataline, and CG-Technology for automatic monitoring of every luminaire. Furthermore a disruption to a single LED can be detected with Eaton's integrated SLI-Technology (Single LED monitoring Intelligence).

Flexible applications – Cold stores are often parts of large facilities with complex layouts, therefore a wide variety of emergency lighting solutions are required. Eaton's LT-Series of emergency luminaires contains a complete set of escape signs for small and large viewing distances and safety luminaires for both low and high mounting heights, flexible to your facility's requirements. This includes large open facilities with high ceilings, as well as smaller areas with lower ceilings.

Regulation for Foodstuffs – Being fully HACCP certified, the LT-Series is suitable for use in areas of food storage and preparation. This ensures that hygiene levels are maintained.



HACCP certifies that the luminaires of the LT-Series comply with the requirements of food-law, namely EC No 853/2004 (HACCP annex II chapter I paragraph 2a, b chapter II paragraph 1c in the field of ceiling lights).*

| | Viewing Distance of Escape Signs luminaires | | Mounting height of Escape Route luminaires | |
|----------------------------|---|--|--|---|
| Large warehouses: | Up to 60m | 46011 LED LT CG-S | ~ 10m | Atlantic LED O HB LT CG-S: Symmetrical Atlantic LED R HB LT CG-S: Asymmetrical |
| Smaller warehouses: | ~ 24m | Atlantic LED S LT CG-S: Single sided Atlantic LED D LT CG-S: Double sided | ~ 4m | Atlantic LED O LT CG-S: Symmetrical Atlantic LED R LT CG-S: Asymmetrical |

*Please note: The luminaire range 'Atlantic LT CG-S' is certified for all three hygienic areas below. The luminaire '46011 LED LT CG-S' is only certified for the hygienic area 'dry, non-humid and without dust'.

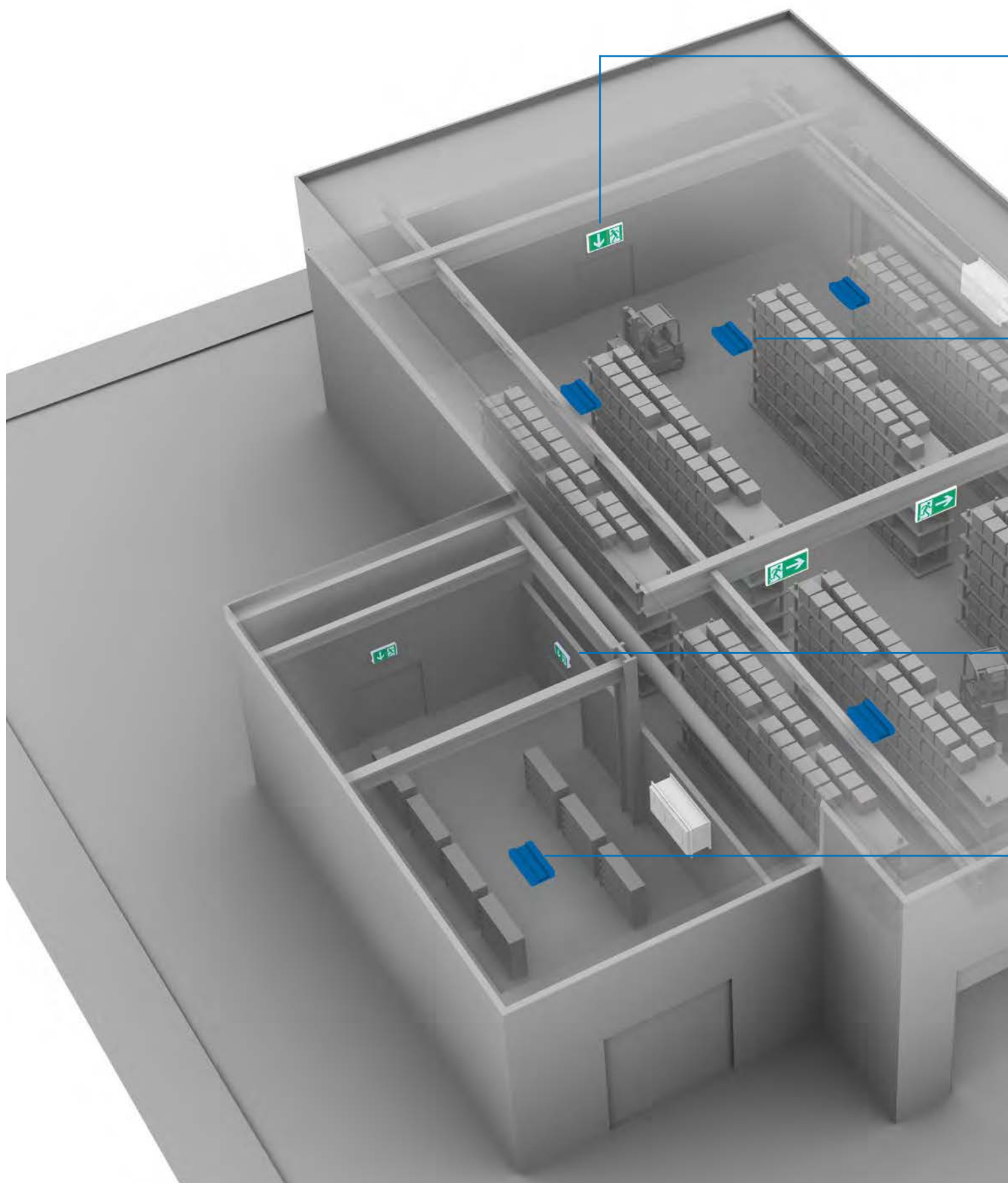
There are principally three hygienic applications to differentiate:

1. Dry, non-humid and without dust (for example, cold storage facility)
2. Dry and potentially dusty (for example, bakery)
3. Humid hygienic areas (for example, fish or meat processing)

Low temperature luminaires – Overview of Cold storage facility

Safety and Exit Sign Luminaires with High Ingress Protection

5



Low temperature luminaires – Overview of Cold storage facility

Safety and Exit Sign Luminaires with High Ingress Protection

5



46011 LED LT CG-S

IP65 Escape Sign luminaire with
60m viewing distance



Atlantic LED HB LT CG-S

IP65 safety luminaires for high
mounting heights of up to 30 m



Atlantic LED LT CG-S

IP65 Escape Sign luminaires
with 24m viewing distance



Atlantic LED LT CG-S

IP65 safety luminaires for
mounting heights of up to 8m





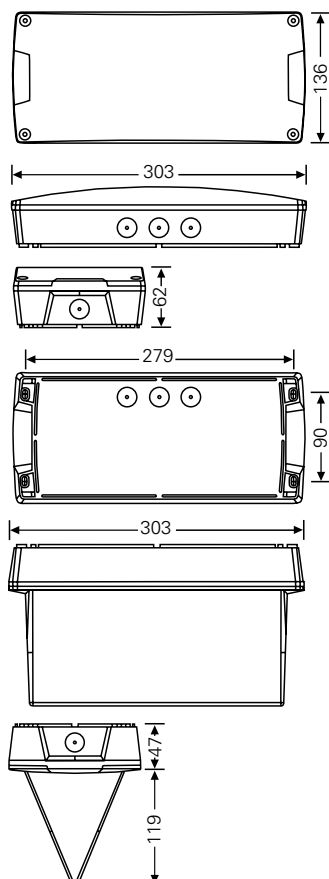
Atlantic LED S LT CG-S



Atlantic LED D LT CG-S



Dimensions in mm



Atlantic LED LT CG-S

- LED escape sign luminaire with high protection class (IP65) for indoor and outdoor use
- Specialized electronics with components for reliable operation down to -40 °C
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. HACCP suitable for use in food processing industry
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Excellent perceptibility on account of high luminance of the white contrasting colour > 500 cd/m² in keeping with standard DIN 4844-1 and high uniformity L_{min}/L_{max} > 0.8
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
Service life is increased at -20 °C ambient temperature
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation cost by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit
- Increased safety through SLI-technology, monitoring of up to 8 individual LEDs in series connection

| | |
|--|---|
| Viewing distance | 24 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Enclosure: Aluminium diecast Cover: Polycarbonate (850 °C glow wire resistant) |
| Housing colour | Grey / similar RAL 7001 |
| Weight | Atlantic LED S LT 1.4 kg Atlantic LED D LT 1.6 kg |
| Type of mounting | Wall- and ceiling mounting |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 20.5 mA |
| Power consumption mains operation (apparent power / effective power) | 6.1 VA / 4.65 W |
| Power Factor | 0.77 |
| Inrush current | 3 A |
| Permissible ambient temperature | -40 °C to +40 °C |
| Light source | 2 x 1.5 W High Power LED |

Ordering details

| Type | Scope of supply | Order No. |
|------------------------|--|-------------|
| Atlantic LED S LT CG-S | Escape sign luminaire for low temperature (up to -40 °C) applications, single sided, incl. LED supply and CG-S technology (20 addresses), without pictogram, incl. M20 cable gland | 40071354864 |
| Atlantic LED D LT CG-S | Escape sign luminaire for low temperature (up to -40 °C) applications, double sided, incl. LED supply and CG-S technology (20 addresses), without pictogram, incl. M20 cable gland | 40071354865 |

Accessories

| Type | Scope of supply | Order No. |
|--|-------------------|-------------|
| Pictograms for Atlantic S | | |
| PR acc. ISO 7010 | pictogram | 155-000-011 |
| PL acc. ISO 7010 | pictogram | 155-000-012 |
| PU acc. ISO 7010 | pictogram | 155-000-013 |
| PO acc. ISO 7010 | pictogram | 40071355423 |
| Pictograms for Atlantic D (2 x required) | | |
| PR acc. ISO 7010 | pictogram | 155-000-211 |
| PL acc. ISO 7010 | pictogram | 155-000-212 |
| PU acc. ISO 7010 | pictogram | 155-000-213 |
| PO acc. ISO 7010 | pictogram | 40071355453 |
| BL | Transparent cover | 155-000-209 |

Atlantic LED HB LT CG-S

Safety and Exit Sign Luminaires with High Ingress Protection



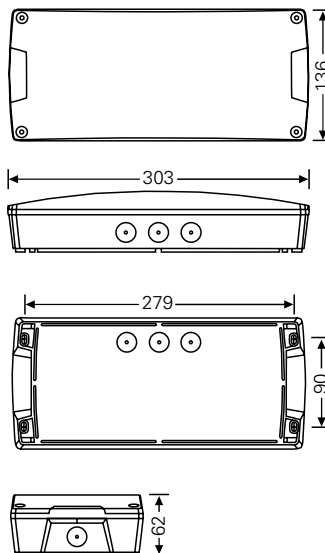
Atlantic LED R HB LT CG-S



Atlantic LED O HB LT CG-S



Dimensions in mm



Atlantic LED HB LT CG-S

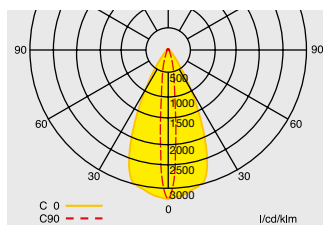
- LED safety luminaire with high protection class (IP65) for indoor and outdoor use
- Specialized electronics with components for reliable operation down to -40 °C
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. HACCP suitable for use in food processing industry
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Numerous knock-outs for cable entries
- Suitable for mounting heights up to 28 m by narrow beam optics and exceptionally efficient High Power LEDs
- Spacing up to 25 m from luminaire to luminaire with optics for escape route illumination
- Up to 14 m from luminaire to luminaire with optics for open area illumination.
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours) Service life is increased at -20°C ambient temperature
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation cost by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit
- Increased safety through SLI-technology, monitoring of up to 8 individual LEDs in series connection

| | |
|--|---|
| Luminous flux | 340 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Enclosure: Aluminium diecast Cover: Polycarbonate (850 °C glow wire resistant) |
| Housing colour | Grey / similar RAL 7001 |
| Weight | Atlantic LED R HB LT CG-S 1.4 kg Atlantic LED O HB LT CG-S 1.4 kg |
| Type of mounting | Ceiling mounting |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 20.5 mA |
| Power consumption mains operation (apparent power / effective power) | 6.1 VA / 4.65 W |
| Power Factor | 0.77 |
| Inrush current | 3 A |
| Permissible ambient temperature | -40 °C to +40 °C |
| Light source | 2 x 1.5 W High Power LED |

Ordering details

| Type | Scope of supply | Order No. |
|---------------------------|--|-------------|
| Atlantic LED R HB LT CG-S | Safety luminaire for low temperature (up to -40 °C) applications with asymmetric narrow beam optics, for escape route illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland | 40071354868 |
| Atlantic LED O HB LT CG-S | Safety luminaire for low temperature (up to -40 °C) applications with symmetric narrow beam optics for anti-panic / open area illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland | 40071354869 |

Atlantic LED R HB LT CG-S



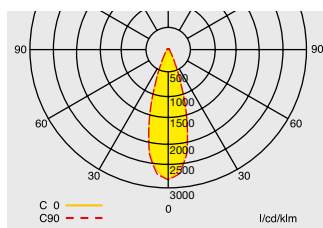
Atlantic LED R HB LT CG-S
with asymmetric optics

Planning data for Atlantic LED R HB LT – Asymmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|------------|-------------|-----------|------------|
| 8 | Ceiling mounting | 5.8 (6.7) | 13.3 (15.2) | 2.7 (3.4) | 6.8 (9.3) |
| 10 | Escape route centre | 6.7 (7.6) | 15.2 (17.4) | 2.9 (3.6) | 7.3 (9.6) |
| 12 | | 7.4 (8.5) | 17.0 (19.5) | 2.9 (4.0) | 8.0 (9.7) |
| 14 | | 7.9 (9.4) | 18.7 (21.4) | 2.7 (4.1) | 8.2 (10.2) |
| 16 | | 8.4 (10.1) | 20.1 (23.1) | 2.6 (4.1) | 8.2 (11.0) |
| 18 | | 8.7 (10.7) | 21.4 (25.0) | 2.5 (4.0) | 8.0 (11.5) |
| 20 | | 9.0 (11.3) | 22.5 (26.6) | 2.4 (3.8) | 7.7 (11.5) |
| 22 | | 9.0 (11.7) | 23.4 (28.0) | 2.2 (3.7) | 7.4 (11.6) |
| 24 | | 8.9 (12.1) | 24.2 (29.3) | 2.1 (3.6) | 7.2 (11.5) |
| 26 | | 8.4 (12.4) | 24.8 (30.5) | 1.8 (3.5) | 7.0 (11.2) |
| 28 | | 6.5 (12.6) | 25.2 (31.6) | 1.4 (3.4) | 6.8 (10.9) |
| 30 | | 2.9 (12.7) | 25.4 (32.6) | 0.8 (3.2) | 6.5 (10.6) |

Atlantic LED O HB LT CG-S



Atlantic LED O HB LT CG-S
with symmetric optics

Planning data for Atlantic LED O HB LT – Symmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|-----------|-------------|
| 8 | Ceiling mounting | 3.9 (4.6) | 9.2 (11.2) | 3.9 (4.8) | 9.6 (11.6) |
| 10 | Escape route centre | 4.3 (5.2) | 10.3 (12.3) | 4.3 (5.3) | 10.5 (12.8) |
| 12 | | 4.8 (5.7) | 11.4 (13.5) | 4.6 (5.6) | 11.2 (13.9) |
| 14 | | 5.1 (6.2) | 12.3 (14.5) | 5.0 (6.0) | 12.0 (14.8) |
| 16 | | 5.2 (6.5) | 13.0 (15.5) | 5.2 (6.4) | 12.8 (15.5) |
| 18 | | 5.3 (6.9) | 13.7 (16.5) | 5.2 (6.8) | 13.5 (16.2) |
| 20 | | 5.2 (7.2) | 14.3 (17.4) | 5.1 (7.1) | 14.1 (17.1) |
| 22 | | 4.9 (7.3) | 14.6 (18.2) | 4.8 (7.3) | 14.5 (17.8) |
| 24 | | 4.3 (7.4) | 14.8 (18.9) | 4.3 (7.4) | 14.6 (18.6) |
| 26 | | 3.0 (7.4) | 14.8 (19.6) | 3.3 (7.4) | 14.6 (19.3) |
| 28 | | 0.2 (7.4) | 14.6 (20.1) | 0.5 (7.3) | 14.4 (19.8) |
| 30 | | - (7.1) | 12.9 (20.5) | - (7.0) | 12.3 (20.3) |
| 8 | Ceiling mounting | 3.0 (3.1) | 7.8 (9.4) | 2.8 (3.6) | 8.0 (10.4) |
| 10 | Room illumination | 3.1 (3.9) | 8.2 (10.7) | 3.4 (3.5) | 9.1 (10.6) |
| 12 | | 3.4 (4.2) | 8.9 (11.4) | 3.6 (3.9) | 9.8 (11.4) |
| 14 | | 3.4 (4.5) | 9.2 (12.0) | 4.1 (4.2) | 10.9 (12.3) |
| 16 | | 3.5 (4.7) | 9.7 (12.6) | 4.4 (4.6) | 11.7 (13.1) |
| 18 | | 4.0 (4.4) | 10.7 (12.3) | 4.3 (5.5) | 11.8 (14.9) |
| 20 | | 3.5 (4.9) | 10.7 (13.4) | 4.8 (5.5) | 13.1 (15.1) |
| 22 | | 4.1 (5.0) | 11.9 (13.8) | 4.2 (5.8) | 12.8 (16.0) |
| 24 | | 3.6 (5.0) | 12.1 (14.3) | 4.3 (6.1) | 13.7 (16.8) |
| 26 | | 3.4 (5.5) | 12.6 (15.3) | 4.0 (5.9) | 14.0 (16.9) |
| 28 | | 2.6 (4.8) | 12.8 (15.1) | 3.8 (6.5) | 14.6 (18.4) |
| 30 | | 1.9 (4.9) | 13.5 (15.7) | 2.3 (6.5) | 14.4 (18.8) |

Atlantic LED LT CG-S

Safety and Exit Sign Luminaires with High Ingress Protection



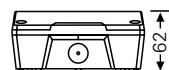
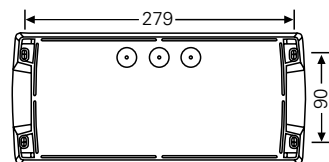
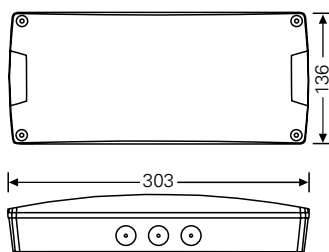
Atlantic LED R LT CG-S



Atlantic LED O LT CG-S



Dimensions in mm



Atlantic LED LT CG-S

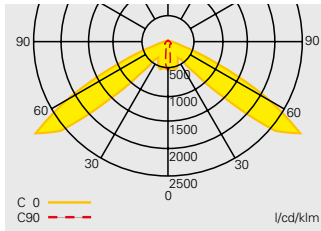
- LED safety luminaire with high protection class (IP65) for indoor and outdoor use
- Specialized electronics with components for reliable operation down to -40 °C
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. HACCP suitable for use in food processing industry
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Numerous knock-outs for cable entries
- High spacing by double optics technology and highly efficient HighPower LEDs
- Up to 24 m from luminaire to luminaire with optics for escape route illumination
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
Service life is increased at -20 °C ambient temperature
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation cost by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit
- Increased safety through SLI-technology, monitoring of up to 8 individual LEDs in series connection

| | |
|--|---|
| Luminous flux | Atlantic LED R LT: 225 lm Atlantic LED O LT: 220 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Enclosure: Aluminium diecast Cover: Polycarbonate (850 °C glow wire resistant) |
| Housing colour | Grey / similar RAL 7001 |
| Weight | Atlantic LED R LT CG-S: 1.4 kg Atlantic LED O LT CG-S: 1.4 kg |
| Type of mounting | Ceiling mounting |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 20.5 mA |
| Power consumption mains operation (apparent power / effective power) | 6.1 VA / 4.65 W |
| Power Factor | 0.77 |
| Inrush current | 3 A |
| Permissible ambient temperature | -40 °C to +40 °C |
| Light source | 2 x 1.5 W High Power LED |

Ordering details

| Type | Scope of supply | Order No. |
|------------------------|--|-------------|
| Atlantic LED R LT CG-S | Low temperature safety luminaire with asymmetric optics for escape route illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland | 40071354866 |
| Atlantic LED O LT CG-S | Low temperature safety luminaire with symmetric optics for anti-panic / open area illumination, incl. LED supply and CG-S technology (20 addresses), incl. M20 cable gland | 40071354867 |

Atlantic LED R LT CG-S



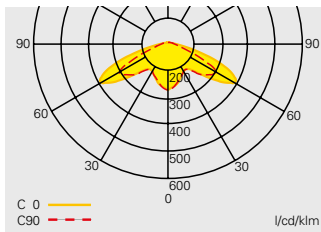
Atlantic LED R LT CG-S
with asymmetric optics

Planning data for Atlantic LED R LT – Asymmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-------------|-------------|-----------|-----------|
| 2.5 | Ceiling mounting | 6.0 (6.5) | 13.0 (14.2) | 2.0 (3.0) | 6.1 (7.3) |
| 3.0 | Escape route centre | 6.8 (7.5) | 15.0 (16.2) | 1.7 (3.2) | 6.1 (8.0) |
| 3.5 | | 7.5 (8.4) | 16.8 (18.3) | 1.4 (2.8) | 5.6 (8.5) |
| 4.0 | | 8.3 (9.2) | 18.5 (20.3) | 1.2 (2.5) | 5.0 (8.7) |
| 4.5 | | 9.0 (10.0) | 20.0 (22.2) | 1.1 (2.2) | 4.4 (8.6) |
| 5.0 | | 9.6 (10.7) | 21.5 (24) | 1.1 (1.9) | 3.9 (7.9) |
| 5.5 | | 10.3 (11.5) | 23.0 (25.7) | 1.1 (1.8) | 3.6 (7.2) |
| 6.0 | | 10.8 (12.2) | 24.4 (27.2) | 1.0 (1.6) | 3.3 (6.6) |
| 6.5 | | 3.6 (12.9) | 24.2 (28.8) | 1.0 (1.6) | 3.3 (6.0) |
| 7.0 | | 3.5 (13.6) | 21.9 (30.2) | 1.0 (1.6) | 3.3 (5.5) |
| 7.5 | | 3.4 (14.2) | 21.8 (31.7) | 1.0 (1.6) | 3.2 (5.2) |
| 8.0 | | 3.3 (14.8) | 22.0 (33.2) | 0.9 (1.5) | 3.1 (4.9) |
| 8.5 | | 3.1 (15.3) | 22.5 (34.6) | 0.8 (1.5) | 3.0 (4.6) |

Atlantic LED O LT CG-S



Atlantic LED O LT CG-S
with symmetric optics

Planning data for Atlantic LED O LT – Symmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation, distances in m

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|---------------------|-----------|-------------|-----------|-------------|
| 2.5 | Ceiling mounting | 4.5 (5.4) | 10.7 (12.4) | 3.8 (4.5) | 8.9 (10.0) |
| 3.0 | Escape route centre | 4.7 (5.9) | 11.7 (13.8) | 4.1 (5.0) | 9.9 (11.4) |
| 3.5 | | 4.9 (6.3) | 12.5 (15.1) | 4.1 (5.4) | 10.8 (12.5) |
| 4.0 | | 4.3 (6.6) | 13.2 (16.1) | 4.1 (5.8) | 11.4 (13.6) |
| 4.5 | | 2.3 (6.8) | 13.6 (17.0) | 2.1 (5.8) | 11.2 (14.5) |
| 5.0 | | 1.9 (6.8) | 13.1 (17.8) | 1.9 (5.8) | 10.4 (15.3) |
| 5.5 | | 1.6 (6.5) | 12.5 (18.5) | 1.5 (5.8) | 9.6 (16.0) |
| 2.5 | Ceiling mounting | 3.9 (4.3) | 9.6 (10.6) | 2.9 (3.6) | 7.2 (8.5) |
| 3.0 | Room illumination | 3.4 (4.6) | 10.6 (11.6) | 3.1 (4.1) | 8.1 (9.8) |
| 3.5 | | 3.4 (5.1) | 11.6 (13.2) | 3.1 (4.2) | 8.8 (10.4) |
| 4.0 | | 3.4 (5.6) | 12.5 (14.6) | 2.8 (4.1) | 9.4 (11) |
| 4.5 | | 2.4 (5.9) | 13.0 (15.6) | 1.8 (4.1) | 10.2 (11.8) |
| 5.0 | | 1.9 (6.2) | 12.1 (16.8) | 0.8 (3.8) | 11.1 (12.3) |



Atlantic LED CG-S

- LED exit sign luminaire with high protection class (IP65) for indoor and outdoor use
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. IFS and HACCP suitable for use in food processing industry
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Numerous knock-outs for cable entries and double terminal for through-wiring
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

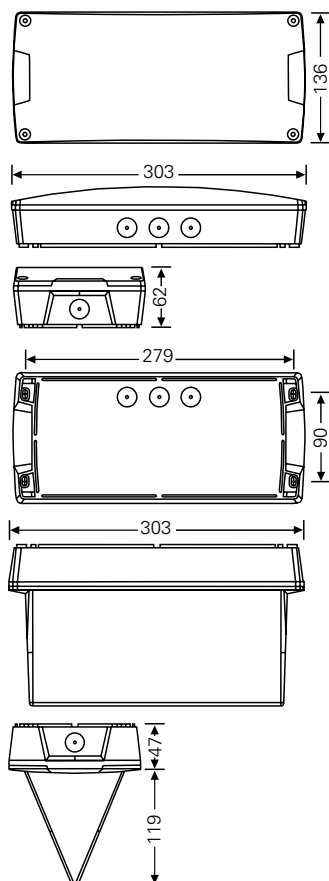
Atlantic LED S CG-S



Atlantic LED D CG-S



Dimensions in mm



| | |
|--|---|
| Viewing distance | 24 m |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium diecast, Polycarbonate (850 °C glow wire resistant) |
| Housing colour | Grey / similar RAL 7001 |
| Weight | Atlantic LED S 1.4 kg Atlantic LED D 1.6 kg |
| Type of mounting | Wall- and ceiling mounting |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 21.5 mA |
| Power consumption mains operation (apparent power / effective power) | 8.5 VA / 5.0 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | HighPower LEDs 2 x 1.5 W |

Ordering details

| Type | Scope of supply | Order No. |
|---|---|-------------|
| Exit sign luminaire Atlantic LED S CG-S | single sided, incl. LED supply and CG-S technology (20 addresses), without pictogram | 40071354890 |
| Exit sign luminaire Atlantic LED D CG-S | double sided, incl. LED supply and CG-S technology (20 addresses), without pictograms | 40071354891 |

Accessories

| Type | Scope of supply | Order No. |
|--|-------------------|-------------|
| Pictograms for Atlantic S | | |
| PR acc. ISO 7010 | pictogram | 155-000-011 |
| PL acc. ISO 7010 | pictogram | 155-000-012 |
| PU acc. ISO 7010 | pictogram | 155-000-013 |
| PO acc. ISO 7010 | pictogram | 40071355423 |
| Pictograms for Atlantic D (2 x required) | | |
| PR acc. ISO 7010 | pictogram | 155-000-211 |
| PL acc. ISO 7010 | pictogram | 155-000-212 |
| PU acc. ISO 7010 | pictogram | 155-000-213 |
| PO acc. ISO 7010 | pictogram | 40071355453 |
| BL | Transparent cover | 155-000-209 |

Atlantic LED HB CG-S

Safety and Exit Sign Luminaires with High Ingress Protection



5

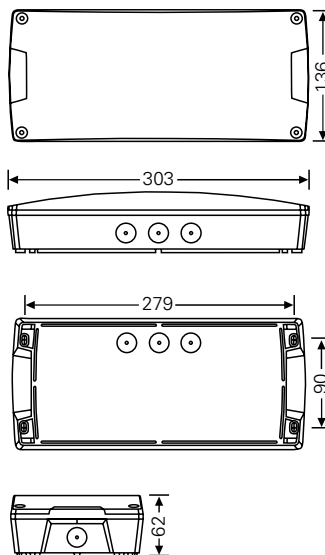
Atlantic LED R HB CG-S



Atlantic LED O HB CG-S



Dimensions in mm



Atlantic LED HB CG-S

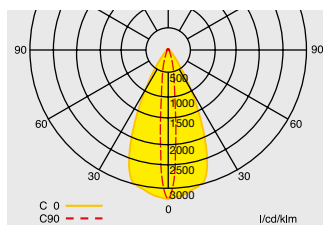
- LED safety luminaire with high protection class (IP65) for indoor and outdoor use
- Luminaire with limited surface temperatures for use in operating areas with fire hazard
- Acc. IFS and HACCP suitable for use in food processing industry
- Robust construction from aluminium diecast and high impact resistant cover made of polycarbonate
- Numerous knock-outs for cable entries and double terminal for through-wiring
- Suitable for mounting heights up to 28 m by narrow beam optics and exceptionally efficient High Power LEDs
- Spacing up to 25 m from luminaire to luminaire with optics for exit route illumination
- Up to 14 m from luminaire to luminaire with optics for open area illumination.
- Minimum service requirement due to high service life of the LEDs (up to 50,000 hours)
- Shortened inspection effort due to CEWA GUARD technology
- Automatic function monitoring of up to 20 luminaires per circuit
- Reduced installation expenditures by STAR technology
- Freely programmable mixed operation of the switching modes per luminaire in one circuit

| | |
|--|---|
| Luminous flux | 340 lm |
| Luminous flux Φ_E/Φ_N at the end of rated operating time | 100 % |
| Housing material | Aluminium diecast, Polycarbonate (850 °C glow wire resistant) |
| Housing colour | Grey / similar RAL 7001 |
| Weight | 1.4 kg |
| Type of mounting | Ceiling mounting |
| Connection terminals | 3 x 2.5 mm ² |
| Connection voltage | 220 – 240 V, 50/60 Hz 176 – 275 V DC |
| Current consumption - battery operation (220 V) | 21.5 mA |
| Power consumption mains operation (apparent power / effective power) | 8.5 VA / 5.0 W |
| Inrush current | 1.5 A |
| Permissible ambient temperature | -20 °C to +40 °C |
| Light source | HighPower LEDs 2 x 1.5 W |

Ordering details

| Type | Scope of supply | Order No. |
|------------------------|--|-------------|
| Atlantic LED R HB CG-S | Safety luminaire with asymmetric narrow beam optics, for exit route illumination, incl. LED supply and CG-S technology (20 addresses), including a M20 cable gland | 40071354991 |
| Atlantic LED O HB CG-S | Safety luminaire with symmetric narrow beam optics for anti-panic / open area illumination, incl. LED supply and CG-S technology (20 addresses), including a M20 cable gland | 40071354990 |

Atlantic LED R HB CG-S



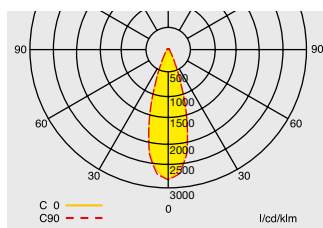
Atlantic R HB CG-S
with asymmetric optics

Planning help for Atlantic LED R HB – Asymmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|------------|-------------|-----------|------------|
| 8 | Ceiling mounting | 5.8 (6.7) | 13.3 (15.2) | 2.7 (3.4) | 6.8 (9.3) |
| 10 | Exit route centre | 6.7 (7.6) | 15.2 (17.4) | 2.9 (3.6) | 7.3 (9.6) |
| 12 | | 7.4 (8.5) | 17.0 (19.5) | 2.9 (4.0) | 8.0 (9.7) |
| 14 | | 7.9 (9.4) | 18.7 (21.4) | 2.7 (4.1) | 8.2 (10.2) |
| 16 | | 8.4 (10.1) | 20.1 (23.1) | 2.6 (4.1) | 8.2 (11.0) |
| 18 | | 8.7 (10.7) | 21.4 (25.0) | 2.5 (4.0) | 8.0 (11.5) |
| 20 | | 9.0 (11.3) | 22.5 (26.6) | 2.4 (3.8) | 7.7 (11.5) |
| 22 | | 9.0 (11.7) | 23.4 (28.0) | 2.2 (3.7) | 7.4 (11.6) |
| 24 | | 8.9 (12.1) | 24.2 (29.3) | 2.1 (3.6) | 7.2 (11.5) |
| 26 | | 8.4 (12.4) | 24.8 (30.5) | 1.8 (3.5) | 7.0 (11.2) |
| 28 | | 6.5 (12.6) | 25.2 (31.6) | 1.4 (3.4) | 6.8 (10.9) |
| 30 | | 2.9 (12.7) | 25.4 (32.6) | 0.8 (3.2) | 6.5 (10.6) |

Atlantic LED O HB CG-S



Atlantic O HB CG-S
with symmetric optics

Planning help for Atlantic LED O HB – Symmetric optics for E = 1.0 lx (0.5 lx)

Measuring level 0.02 m, maintenance factor MF = 80 %, battery operation

| Mounting height [m] | Types of mounting | L1 | L2 | L3 | L4 |
|---------------------|-------------------|-----------|-------------|-----------|-------------|
| 8 | Ceiling mounting | 3.9 (4.6) | 9.2 (11.2) | 3.9 (4.8) | 9.6 (11.6) |
| 10 | Exit route centre | 4.3 (5.2) | 10.3 (12.3) | 4.3 (5.3) | 10.5 (12.8) |
| 12 | | 4.8 (5.7) | 11.4 (13.5) | 4.6 (5.6) | 11.2 (13.9) |
| 14 | | 5.1 (6.2) | 12.3 (14.5) | 5.0 (6.0) | 12.0 (14.8) |
| 16 | | 5.2 (6.5) | 13.0 (15.5) | 5.2 (6.4) | 12.8 (15.5) |
| 18 | | 5.3 (6.9) | 13.7 (16.5) | 5.2 (6.8) | 13.5 (16.2) |
| 20 | | 5.2 (7.2) | 14.3 (17.4) | 5.1 (7.1) | 14.1 (17.1) |
| 22 | | 4.9 (7.3) | 14.6 (18.2) | 4.8 (7.3) | 14.5 (17.8) |
| 24 | | 4.3 (7.4) | 14.8 (18.9) | 4.3 (7.4) | 14.6 (18.6) |
| 26 | | 3.0 (7.4) | 14.8 (19.6) | 3.3 (7.4) | 14.6 (19.3) |
| 28 | | 0.2 (7.4) | 14.6 (20.1) | 0.5 (7.3) | 14.4 (19.8) |
| 30 | | - (7.1) | 12.9 (20.5) | - (7.0) | 12.3 (20.3) |
| 8 | Ceiling mounting | 3.0 (3.1) | 7.8 (9.4) | 2.8 (3.6) | 8.0 (10.4) |
| 10 | Room illumination | 3.1 (3.9) | 8.2 (10.7) | 3.4 (3.5) | 9.1 (10.6) |
| 12 | | 3.4 (4.2) | 8.9 (11.4) | 3.6 (3.9) | 9.8 (11.4) |
| 14 | | 3.4 (4.5) | 9.2 (12.0) | 4.1 (4.2) | 10.9 (12.3) |
| 16 | | 3.5 (4.7) | 9.7 (12.6) | 4.4 (4.6) | 11.7 (13.1) |
| 18 | | 4.0 (4.4) | 10.7 (12.3) | 4.3 (5.5) | 11.8 (14.9) |
| 20 | | 3.5 (4.9) | 10.7 (13.4) | 4.8 (5.5) | 13.1 (15.1) |
| 22 | | 4.1 (5.0) | 11.9 (13.8) | 4.2 (5.8) | 12.8 (16.0) |
| 24 | | 3.6 (5.0) | 12.1 (14.3) | 4.3 (6.1) | 13.7 (16.8) |
| 26 | | 3.4 (5.5) | 12.6 (15.3) | 4.0 (5.9) | 14.0 (16.9) |
| 28 | | 2.6 (4.8) | 12.8 (15.1) | 3.8 (6.5) | 14.6 (18.4) |
| 30 | | 1.9 (4.9) | 13.5 (15.7) | 2.3 (6.5) | 14.4 (18.8) |