EMERGI-LITE

Emergency Lighting Product Catalogue

Thomas&Betts
A Member of the ABB Group

Legend

Product icons

Lamp type

LED


Fluorescent


Tungsten Halogen

Duration (self-contained)

1 hour

3 hour

Ingress rating

IP20

IP30

IP40

IP42

IP54

IP55

IP65

IP66

IP67

Viewing distance

25 metres

27 metres

28 metres

32 metres

36 metres

Impact rating

IK07

IK10

Insulation class


Insulation class II. Earthing this luminaire is not required

Luminaire mounting


Recessed


Semi-recessed


Surface mounted


Suspended

Battery type

NiCad

NiMH

Sealed lead acid

Product benefits


Operates down to -25 °C


Includes daylight sensor


Can be dimmed with use of additional potentiometer


Can be used in hazardous areas


Portable, for use across the site

Product approvals

This product has ENEC approval.

This product has BSI Kitemark approval.

All products in this catalogue are CE marked and carry the mark.

Testing solutions

This product is also available with Naveo addressable testing and remote management facility.

This product is also available with IR2 infra-red testing facility.

This product is also available with Self-Test testing facility.

Thomas&Betts
A Member of the ABB Group

EMERGI-LITE

The Emergi-Lite brand from Thomas & Betts delivers highly versatile emergency lighting solutions to a wide range of industries, with the protection and safety of human life paramount.

At Thomas & Betts, our focus is on improving your business performance by providing practical, reliable electrical products and services that connect and protect for life and solve everyday problems in the areas of Wire & Cable Management, Cable Protection, Power Connection & Control and Safety Technology.

Our extensive engineering, supply chain management and technical sales support teams are committed to understanding everything that impacts your ability to accomplish your business objectives by reducing your total cost of ownership.

Whether you are designing, installing, operating, maintaining or owning an office building, offshore platform, hospital, high speed train, power generating plant, machine equipment or a manufacturing facility, Thomas & Betts engineered products fit and function in your application while providing superior performance, sustainability and value throughout the project life cycle.

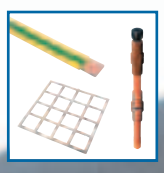
All our brands are built upon four product and service solution platforms.

Platforms that address you or your customers' critical electrical needs covering the protection of data, energy, processes, assets and personal safety.

Beyond high-performance application characteristics, Thomas & Betts products, information and services facilitate and speed up your time critical assembly, installation and maintenance processes.

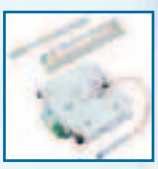
With a dedicated team, we can support you with a full set of services and flagship product brands including:


Adaptaflex


furse


DTS


KOPEX


EXISTALITE
EMERGENCY LIGHTING


PAA

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FM09470

HQ ASSESSED TO BS EN ISO9001: 2000 FOR THE MANAGEMENT OF EMERGENCY LIGHTING AND FIRE DETECTION EQUIPMENT AND THE MODIFICATION OF MAINS LUMINAIRES FOR EMERGENCY LIGHTING APPLICATIONS
Cert no: FM09470

Products in this catalogue are manufactured in a Thomas & Betts facility in the EU. In some special product cases product hybrids may be sourced from our Thomas & Betts Canadian facility.

Waste Electrical and Electronic Equipment Regulations 2006 ("the WEEE Regulations")

The British Government has introduced the Waste Electrical and Electronic Equipment Regulation 2006 ("WEEE"), from 1st July 2007.

Producer Responsibility
Thomas & Betts Ltd (Emergi-Lite Safety Systems) meets its producer responsibility via membership of the Lumicom Producer Compliance Scheme (registration no. WEEE/DH0073UQ). Under this scheme, de-polluted luminaires (i.e. those with the lamps, batteries and liquid filled capacitors removed), which are being replaced by our fittings, will be recycled in an environmentally sound manner.

Recycling Cost
Producers (or their agents) are required to finance the environmentally sound disposal of non-household luminaires and the gas discharge lamps within them. Therefore there will be a recycling charge, which may vary from time to time.

Battery Directive
Battery Producer recycling registration number: BPRN00373.

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Welcome to Emergi-Lite

When choosing a partner for emergency lighting, you need a supplier capable of delivering a solution whenever the need arises, whether you're planning a new build project, overseeing an installation, or considering renewal of a long-standing system.

By choosing Emergi-Lite as your emergency lighting partner, you'll be placing your projects, your systems, and essentially your people, in safe hands.

Emergi-Lite is a leading life safety solutions provider, delivering state-of-the-art systems and products into the emergency lighting marketplace.

Emergi-Lite focuses on supporting our customers at all points of the emergency lighting life-cycle, whether planning, installing, managing or renewing:

Planning
From project consultations at customer premises, to drafting certified technical drawings, Emergi-Lite is ready to support all your emergency lighting needs.

Installing
The right products, delivered at the right time, to ensure your installations run smoothly - on time and on budget.

Managing
The clear and precise after-sales support you would expect from a leading emergency lighting supplier, including servicing, maintenance and readily-available replacement parts.

Renewing
Keeping you up-to-date with the latest standards, industry developments and new product innovations, making renewing your emergency lighting a simple, straightforward process.

Emergi-Lite: with you every step of the emergency lighting process

EMERGI-LITE

PLAN
Consult
Design
Certify

INSTALL
Supply
Support
Commission

RENEW
Develop
Refurbish
Update

MANAGE
Upgrade
Maintain
Test

Introduction

With every emergency lighting project, there is a clear and important need for effective planning and preparation.

Products need to be assessed, customer requirements defined, building regulations respected and design drawings prepared.

With project time-lines tight and budgets constrained, choosing the right partner for emergency lighting system design is imperative. By choosing Emergi-Lite, you'll be making the right start.

Emergi-Lite works at the heart of this complex process, assisting designers, specifiers, and final customers with all manner of emergency lighting need.

From project consultation, to certified technical drawings, Emergi-Lite is here to help.

Emergi-Lite delivers solutions that work across the spectrum of emergency lighting systems, and impact at all points of the emergency lighting life-cycle.

Our products and services are specifically designed to provide the most effective protection and safety, in line with customer needs, relevant standards and industry regulations.

These solutions start at the planning stage for emergency lighting systems, with advice on product selection and system requirements, through to delivery of certified technical drawings.

Project consultation

When designing emergency lighting systems, it is important to have the most complete and accurate information available, and the best possible advice on regulations, standards and safety requirements.

This catalogue makes for a great starting point when considering emergency lighting, but is only a small part of our service.

That's why you should call us, and count on us to help with your emergency lighting planning.

We offer expert assistance in emergency lighting scheme design, and clear, concise advice on product selection.

Our sales managers are able to assist you at your premises, and arrange for emergency lighting schemes to be prepared at our design office in Leeds.

Certified technical design

Central to emergency lighting is the technical design drawing. It defines luminaire positioning and spacing, drives the installation effort and provides the key control for commissioning and approval.

Our technical design team is on hand to prepare drawings for all types of emergency lighting system, to the latest relevant standards.

Not only can drawings be prepared, but we also offer certification of all emergency lighting systems installed to our drawings, for added confidence and peace of mind.

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During building construction or refurbishment, the focus for emergency lighting shifts from planning and design, to delivery and installation.

At this point, project support and product availability become crucial.

Here, choosing an emergency lighting partner with the capability to deliver becomes a critical factor.

Emergi-Lite has many years' experience of supporting emergency lighting projects, backed by friendly service, technical expertise and our continual drive towards new product innovation.

Our solutions are designed and engineered for optimum performance, with our customer service and technical teams ready to assist.

Construction engineers and installers are assured that orders can be easily placed, deliveries arrive promptly, and that any issues are resolved quickly to a satisfactory outcome.

Project support

Our project engineers and internal sales support teams are available to provide guidance on products and project updates/delivery schedules etc.

Call our sales helpline for advice and assistance.

Customer sales/technical advice line:

Tel: +44 (0) 113 281 0610 / 0600
Fax: +44 (0) 113 281 0611

Calls may be monitored to assist with sales training and our customer care programme.

Simple, timely product delivery

With emergency lighting being our core product we maintain healthy stock levels at our facility in Leeds, ready for delivery.

Emergi-Lite products are also available through our wholesale partners nationwide. We will be pleased to provide details of your local stockist.

Where products need to be exported, we can provide advice and support on your specific requirements.

The right products, delivered at the right time, to ensure your installations run smoothly - on time and on budget.

Easy-to-install product range

Many of our products are engineered to a modular design format, which promotes straightforward, cost-effective installation and maintenance.

Modular design enables first-fix installation of the key wiring components with later connection of geartrays, diffusers and legends etc, for easy management and replacement of parts.

Emergency lighting commissioning

Emergency lighting systems must be commissioned following installation, prior to use.

Emergi-Lite can provide advice and assistance for commissioning self-contained emergency lighting systems.

Furthermore, Emergi-Lite's service team provides a commissioning service for our central addressable testing and central power supply systems, to ensure the installation meets with the necessary approvals.

Contact Emergi-Lite for more details.

The purpose of an emergency lighting system is to protect and safeguard life.

Once commissioned and in operation, the emergency lighting system must function correctly throughout its lifetime and therefore requires ongoing management, maintenance and testing.

This need for testing and servicing is enforced by legislation, with both The Regulatory Reform (Fire Safety) Order 2005/Fire (Scotland) Act 2005 and The Work Place Directive 89/654 making reference to proper maintenance of emergency lighting systems.

Any faults found need to be rectified as quickly as possible.

Investment in emergency lighting is an investment for the long term. For many building owners/occupiers, who have legal responsibility for these systems, maintenance, testing and access to replacement parts are of paramount importance.

With this in mind, it's clear to see that maintaining the partnership with your emergency lighting supplier, even after commissioning, is highly important.

At Emergi-Lite, we continue to support our customers after installation, with our complete and comprehensive after-sales service.

Maintenance and servicing

Our team of qualified and experienced service engineers is available to service emergency lighting systems, to ensure full working order in line with appropriate British Standards. Recommended spares only are used.

Term maintenance contracts are available. Contact our service team today to discuss your maintenance needs.

Emergi-Lite testing solutions

ST SELF-TEST — Each luminaire includes an in-built test facility with internal timer for programmed testing.

IR2 — Luminaire tests are initiated via remote control, eliminating the need for costly wiring installation.

Naveo — Each luminaire is coded with an electronic address and tests can be implemented over the internet. Records are held digitally in a secure remote server, with cloud-based access for PC's, laptops, and mobile devices.

Clear and precise after-sales support, including servicing, maintenance and readily-available replacement parts.

System testing & upgrades

Owner/occupiers are legally obliged to test and maintain emergency lighting to BS 5266-1 and -8 (Simplified Testing Regime EN 50172).

Emergi-Lite manufactures a range of testing solutions for self-contained emergency lighting - Self-Test, IR2 and Naveo addressable testing - to accommodate all levels of testing requirement.

These testing solutions provide the essential tool to assist owner/occupiers with ongoing monthly and yearly testing of emergency lighting systems.

See pages 72 - 78 for more details of our current testing solutions, or contact Emergi-Lite direct.

Making you aware of the latest standards, industry developments and product innovations, so renewal and refurbishment is a simple, straightforward process.

Renewal and refurbishment completes the emergency lighting life-cycle.

Inevitably, all emergency lighting systems require renewal, as new products develop, standards change, and the ongoing cost of maintaining the current system becomes excessive.

At this point our products and services continue to play a major part.

In addition to keeping you up-to-date with new industry developments, our sales and technical teams are happy to review existing plans and specifications to advise on new and better product options.

Our customer services teams are on hand for ordering new luminaires and replacement parts.

Emergency lighting seminars

CPD-Accredited Training Course – Emergency lighting, testing and monitoring

Our CPD-accredited training course is designed to ensure you're always kept up-to-date with the latest emergency lighting requirements, regulations and standards.

This fully interactive training course is available to consultants, specifiers, installers, facilities managers and other parties who are looking to gain an in-depth understanding of emergency lighting legislative and testing requirements.

The course details the correct procedures for testing and monitoring all emergency lighting, in accordance with British Standards, Codes of Practice and current Working Directives, along with the methodologies best used to maximise effectiveness and efficiency of your installations.

Contact Emergi-Lite for further details.

Product development & recycling

Emergi-Lite products are designed with the future in mind.

Our focus on new product development ensures we're always in a strong position to deliver new innovations into the emergency lighting marketplace.

Our products are manufactured using sustainable, environmentally friendly materials and many now benefit from modular construction and LED technology, promoting longer lifetimes and lower recycling demand.

In addition, since we're a member of Lumicom, recycling of our luminaires is a quick and easy process (see www.lumicom.com).

Emergi-Lite also has battery recycling registration to meet the requirements of the Battery Directive (Battery Producer registration number BPRN00373).

Serenga®

Horizon

Aqualux

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EMERGI-LITE

Serenga®

- *Comprehensive LED based exit sign and downlighter range*
- *Designed to combine optimum performance and modern styling with low operating costs and energy consumption*
- *Ideal for modern, high profile construction projects*

Serenga: altogether a better approach to emergency lighting

Serenga is a modular LED based emergency lighting system, combining a versatile range of exit signs with high specification downlighters to provide a complete solution across the design scheme.

The Serenga system has been designed to deliver the optimum solution for emergency lighting, at all stages of the construction cycle - from initial project planning, through to installation, maintenance and testing.

Why choose Serenga?

Serenga is the smart choice for emergency lighting. It delivers more than any other comparable emergency lighting solution:

LED technology for long-life performance

LEDs are highly energy efficient with low ongoing maintenance. Serenga delivers significant energy savings compared to 8 Watt fluorescents, with an expected lamp life of over 5 years.

Modular design for flexibility

Serenga modular design principles permit a high level of flexibility during planning and installation, with easy assembly and disassembly of parts.

A variety of exit sign combinations is available through selection of four simple components, supported by a range of modular, first-fix downlighters for emergency illumination.

Optimised light distribution

Serenga products are specifically designed to deliver optimised light distribution across escape routes and open areas. Even Serenga Escape 4 LED exit signs further increase on the already exceptional spacing provided by the LED downlighters.

Enhanced functionality for added value

Serenga units can provide night lighting to cut energy costs and for security, e.g. to deter theft at schools, shops and businesses etc. Low level night lighting assists security patrols, or night workers in hospitals, care homes etc to carry out their duties.

Dimming controls can be linked to standard Serenga units to permit LEDs to dim in normal operation, ideal for theatres, cinemas, restaurants etc.

Lower overall cost of ownership

Emergency lighting systems operate for many years, but require regular testing and maintenance. Every system has an ongoing cost, with buyers aware that total cost of ownership is a major consideration.

With low energy, low maintenance LED technology, Serenga easily surpasses traditional 8 Watt fluorescents in creating savings over the lifetime of the system.

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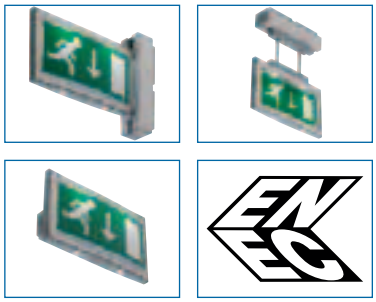
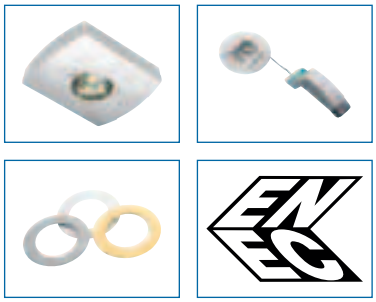
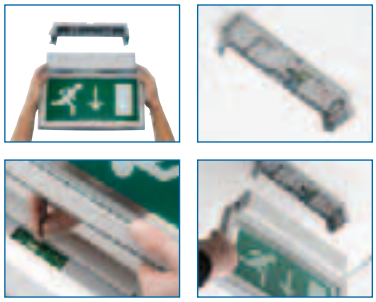
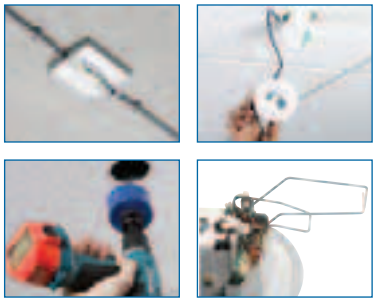
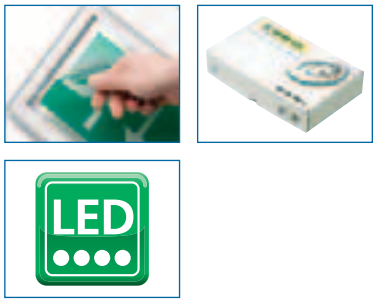
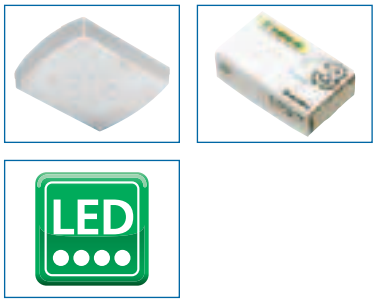
Serenga: the complete emergency lighting solution

Serenga offers the complete, modern and innovative solution to the needs of emergency lighting specifiers and users.

All key requirements have been considered. Open area, escape route and exit sign luminaires are readily available, all providing superb soft illumination via high brightness LEDs.

Consultants, architects, specifiers, installers and building managers are therefore assured that Serenga is the right choice for reliable, cost effective emergency lighting.

The reference chart below establishes clearly how choosing Serenga benefits all parties involved in the emergency lighting life-cycle.

	Serenga Escape exit signs	Serenga Sun-Lite
Planning ● Enhanced modular design ● Project-wide application ● Comprehensive product range ● Multiple mounting options ● Exit legend kit included ● Optimised light distribution ● Exit signs with 4 LEDs can be used in spacing calculations ● Enhanced functionality - night/security lighting ● Dimmable lighting option		
Installation ● Rapid installation via first-fix modular bases ● Solutions for solid and suspended ceilings ● Multiple mounting options for LED exit signs with no separate bracket required ● Design flexibility through easy replacement of legend kits ● Clear installation instructions		
Management ● In-built intelligent Self-Test assists maintenance ● Central testing variants available ● LED promotes low energy/maintenance costs ● Long-life LED (over 5 years) ● Easy modular replacement of parts ● Low overall cost of ownership with significant savings compared to 8 Watt T5 FL ● 4 Year warranty ● As low energy night lighting Serenga promotes better energy conservation		
Renewal ● Straightforward disassembly of parts ● Sustainable, environmentally friendly materials ● Disposal via Lumicom scheme		

For Serenga Escape exit signs see pages 12 - 16.
For Serenga downlighters see pages 17 - 23.

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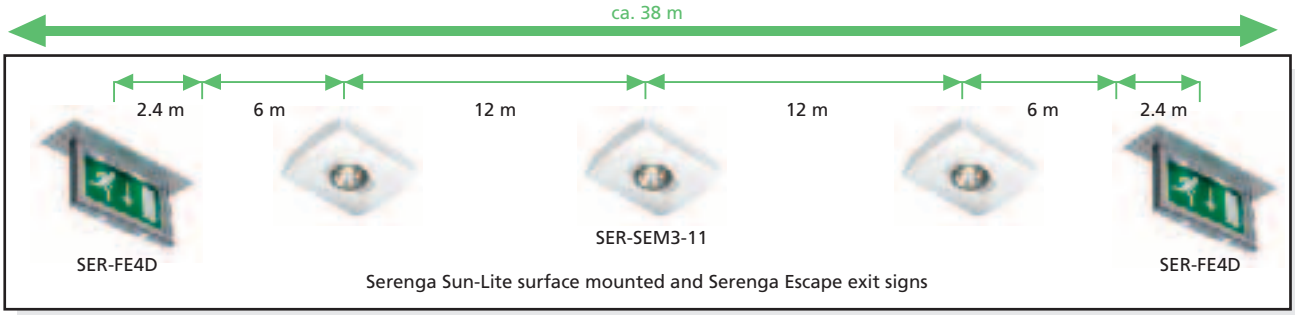
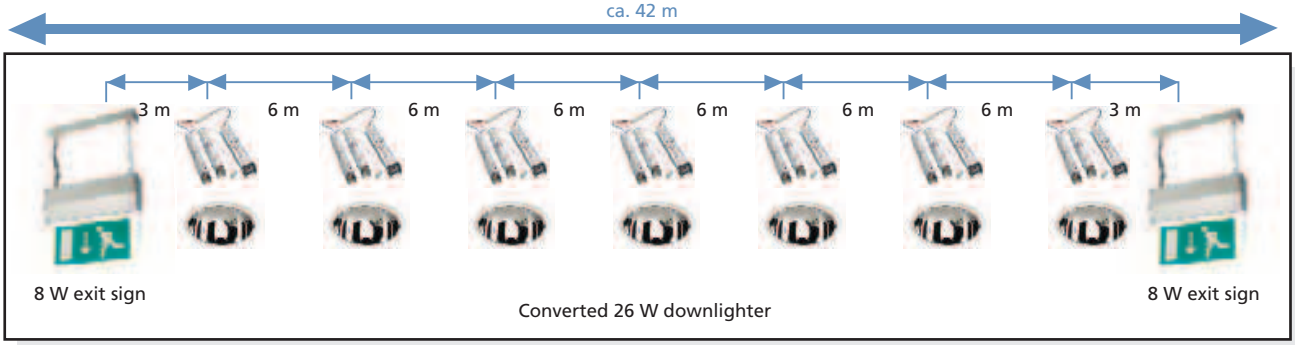
Serenga delivers value in installation and over the long term

The illustrations below compare use of Serenga exit signs and downlighters versus use of mains converted downlighters and 8 Watt exit signs, along a corridor approximately 38 metres in length.

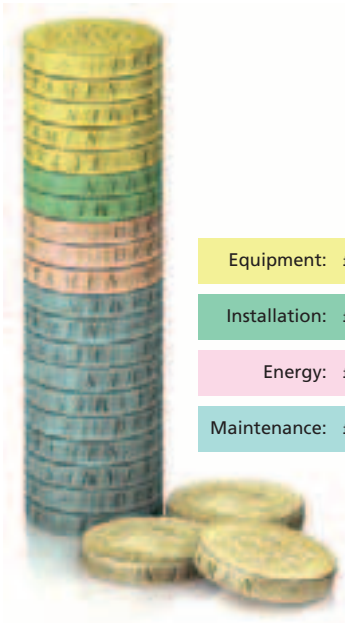
As can clearly be seen, Serenga achieves the lux requirement for escape routes using much fewer luminaires, leading to significant savings.



Serenga Sun-Lite surface mounted and Serenga Escape exit signs



Converted 26 W downlighter



Equipment:	£929.00
Installation:	£355.00
Energy:	£761.00
Maintenance:	£2052.00

Total cost of ownership (12 years): **£4097.00**

Average savings over £210 per year by choosing Serenga

Serenga

Equipment:	£948.00
Installation:	£300.00
Energy:	£129.00
Maintenance:	£216.00

Total cost of ownership (12 years): **£1593.00**

Total savings over 60% for the lifetime of the system

How much will you save?

The example shown outlines the estimated comparable cost saving between a Serenga LED and converted luminaire installation, over a 38 m escape route.

Calculation based on a 12 year installation.

Data based on nominal figures 2010.

Individual cost items may vary over time and the example is for guidance only.

For specific project cost comparisons please contact Emergi-Lite sales department.

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Serenga Escape exit signs

Serenga Escape is a high specification, practical LED based emergency exit sign system.

Contemporary in design, Serenga Escape is ideal for modern commercial and public sector settings, such as offices, schools, shops and hotels.

Robust in construction, the system performs equally well in more demanding environments, including light industrial units and storage facilities.

Serenga Escape benefits from modular construction principles, promoting maximum flexibility at all points in the emergency lighting life-cycle, and offering tremendous scope to designers, installers and building users alike.

Flexible design

The high level of versatility in application makes Serenga Escape stand out from the crowd.

A number of design combinations are possible from four easy-to-assemble product components - the control assembly, smart-frame, legend panel and mounting accessory.

Simply put, designers and specifiers now have the opportunity to choose an exit sign to match all their interior design considerations.

In addition, two exit sign variants are available, a 2 LED exit sign, and an enhanced 4 LED exit sign with integral downlighters, enabling designers to include Serenga Escape luminaires in emergency lighting illuminance calculations.

Key benefits of Serenga Escape:

- Low cost, low energy LED based solution
- Four components, multiple combinations
- Modular design for maximum flexibility
- Interchangeable components readily assemble to first-fix principles
- 4 LED version provides additional emergency lighting
- Intelligent Self-Test included as standard
- Central addressable test versions available
- Dimmable versions available for standard exit signs (contact Emergi-Lite for details)

Flexible installation

All components are interchangeable and readily assemble to a first-fix principle.

The unique SmartLocker© feature of the electronic control module makes it possible to secure the control module and smart-frame to the first-fix plate with a simple 'locate, click and fit' action.

Legend panels clip-fit into place, so are easily replaceable without changing the entire unit.

Low cost, low maintenance

LED technology is renowned for being the energy saving, environmentally friendly alternative to traditional fluorescent emergency lighting.

Serenga Escape is no exception.

The LED light source and electronics have been specifically designed to promote a long lifespan with low energy consumption, ideal in these energy conscious times.

By choosing Serenga LED, customers benefit from significantly lower power consumption than traditional fluorescents, with a maintenance-free lamp, and battery life expectancy in excess of 4 years.

Integrated self-testing as standard

Manual testing of emergency lighting can be highly disruptive to everyday business - so why choose a system which requires it?

Serenga Escape makes emergency lighting testing easy.

Automatic Self-Test is included as standard, with the electronics, LEDs and battery operation (self-contained) continuously monitored.

Enhanced, addressable test versions are also available for larger installations, to better manage the ongoing testing requirement in these premises.

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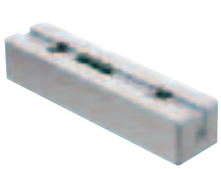
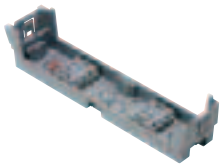
Control assembly

Order Code	Description
SER-M3-003	Self-contained
SER-230-003	Slave 230 V
SER-230LTC-003	Slave 230 V with integral LTC

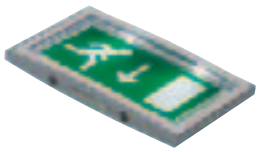




For testing and dimmable control assemblies, please contact Emergi-Lite.

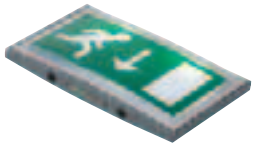
Smart-frame

Ceiling or side mount 2-LED smart-frame for use with flat (SER-SN) legends



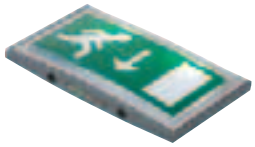
SER-FE2D includes

Ceiling or side mount 2-LED smart-frame for use with curved (SER-SC) legends



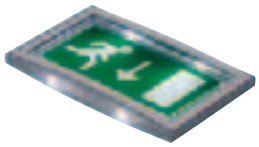
SER-FS2D includes

Back to wall mount 2-LED smart-frame for use with curved (SER-SC) legend



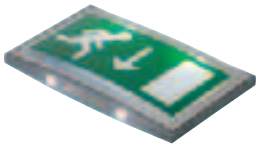
SER-FB2 includes

Ceiling or side mount 4-LED smart-frame for use with flat (SER-SN) legends



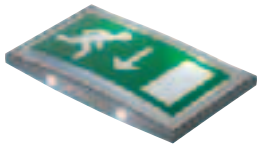
SER-FE4D includes

Ceiling or side mount 4-LED smart-frame for use with curved (SER-SC) legends



SER-FS4D includes

Back to wall mount 4-LED smart-frame for use with curved (SER-SC) legend



SER-FB4 includes

4 LED variants include two LEDs providing emergency illumination.

Legends

SER-SN legends for flat (SER-FE) smart-frames

SER-SN012	SER-SN010	SER-SN011	SER-SN013	SER-SN802	SER-SN803

Legends are screen printed PVC.

SER-SC legends for curved (SER-FS & SER-FB) smart-frames

SER-SC012	SER-SC010	SER-SC011	SER-SC013	SER-SC802	SER-SC803

Legends are screen printed polycarbonate.

Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
SER-BZKIT	Recessing kit
SER-RKIT150	Tube suspension kit (0.15 m)
SER-RKIT300	Tube suspension kit (0.3 m)
SER-RKIT500	Tube suspension kit (0.5 m)
SER-RKIT1000	Tube suspension kit (1 m)

Technical Reference

Thomas & Betts Ltd., Emergi-Lite, Bruntcliffe Lane, Morley, Leeds, LS27 9LL • Tel: +44 (0)113 281 0600 •
Email: emergi-lite.sales@tnb.com • Web: www.emergi-lite.co.uk

Naveo IR2

Exit sign with flat legend.

- 2 LED exit sign or 4 LED exit sign with downlighters
- Easy to fit modular assembly
- High impact polycarbonate body with aluminium trim
- Intelligent Self-Test included as standard
- Two surface mount orientations
- Designed and manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order control assembly, smart-frame, legend and mounting kit (if required) separately

Control assembly

Order Code	Input Voltage	Operation / Duration (hrs)	Recharge Period	Environment	Weight
SER-M3-003	220 - 240 Vac, 50 Hz	M3	24 hours	5 - 25 °C	0.8 kg
SER-230-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg
SER-230LTC-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg

For testing and dimmable control assemblies, please contact Emergi-Lite.

Smart-frame

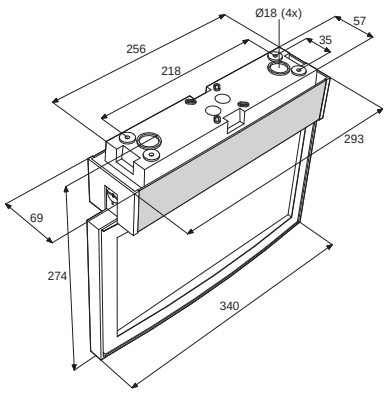
Order Code	Lamp Type	Power Consumption Self-contained	Power Consumption Slave	Lamp Output*	Weight	Includes Legend
SER-FE2D	2 x 1 W LED	60 mA	30 mA	-	0.9 kg	
SER-FE4D	4 x 1 W LED	70 mA	60 mA	27 lumens	0.9 kg	

Legends

SER-SN012	SER-SN010	SER-SN011	SER-SN013	SER-SN802	SER-SN803

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions



Accessories

Order Code	Description
SER-BZKIT	Recessing kit
SER-RKIT150	Tube suspension kit (0.15 m)
SER-RKIT300	Tube suspension kit (0.3 m)
SER-RKIT500	Tube suspension kit (0.5 m)
SER-RKIT1000	Tube suspension kit (1 m)

* Total output from 2 lower LEDs through lenses.

For Serenga Escape 4 LED spacing data, see page 85.
For accessory drawings, see page 90.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Exit sign with curved legend.

- 2 LED exit sign or 4 LED exit sign with downlighters
- Easy to fit modular assembly
- High impact polycarbonate body with aluminium trim
- Intelligent Self-Test included as standard
- Two surface mount orientations
- Designed and manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order control assembly, smart-frame, legend and mounting kit (if required) separately

LED | 3 | IP 20 | 28 m | NiMH | Naveo | IR2

Control assembly

Order Code	Input Voltage	Operation / Duration (hrs)	Recharge Period	Environment	Weight
SER-M3-003	220 - 240 Vac, 50 Hz	M3	24 hours	5 - 25 °C	0.8 kg
SER-230-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg
SER-230LTC-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg

For testing and dimmable control assemblies, please contact Emergi-Lite.

Smart-frame

Order Code	Lamp Type	Power Consumption Self-contained	Power Consumption Slave	Lamp Output*	Weight	Includes Legend
SER-FS2D	2 x 1 W LED	60 mA	30 mA	-	0.9 kg	
SER-FS4D	4 x 1 W LED	70 mA	60 mA	27 lumens	0.9 kg	

Legends

SER-SC012	SER-SC010	SER-SC011	SER-SC013	SER-SC802	SER-SC803

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

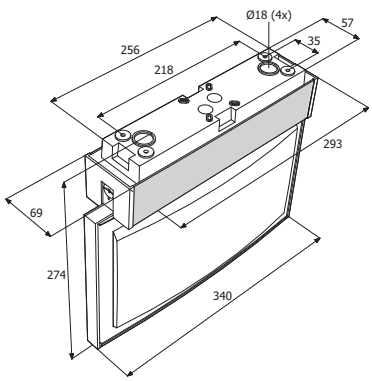
Accessories

Order Code	Description
SER-BZKIT	Recessing kit
SER-RKIT150	Tube suspension kit (0.15 m)
SER-RKIT300	Tube suspension kit (0.3 m)
SER-RKIT500	Tube suspension kit (0.5 m)
SER-RKIT1000	Tube suspension kit (1 m)

* Total output from 2 lower LEDs through lenses.

For Serenga Escape 4 LED spacing data, see page 85.
For accessory drawings, see page 90.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

Dimensions



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Email: emergi-lite.sales@tnb.com • Web: www.emergi-lite.co.uk

EMERGI-LITE

Back-lit exit sign with curved legend.

- 2 LED exit sign or 4 LED exit sign with downlighters
- Easy to fit modular assembly
- High impact polycarbonate body with aluminium trim
- Intelligent Self-Test included as standard
- Designed and manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order control assembly, smart-frame, and legend separately

Naveo IR2

LED 3 IP20 28m NiMH

Control assembly

Order Code	Input Voltage	Operation / Duration (hrs)	Recharge Period	Environment	Weight
SER-M3-003	220 - 240 Vac, 50 Hz	M3	24 hours	5 - 25 °C	0.8 kg
SER-230-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg
SER-230LTC-003	85 - 240 Vac, 50/60 Hz	230 V	-	5 - 40 °C	0.8 kg

For testing and dimmable control assemblies, please contact Emergi-Lite.

Smart-frame

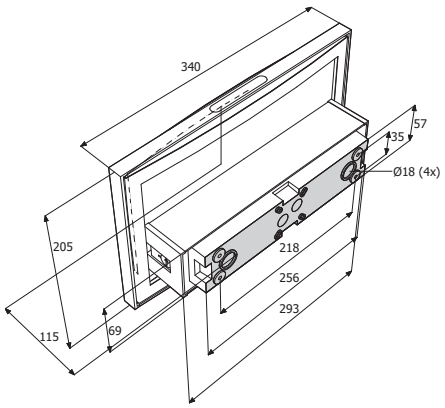
Order Code	Lamp Type	Power Consumption Self-contained	Power Consumption Slave	Lamp Output*	Weight	Includes Legend
SER-FB2	2 x 1 W LED	60 mA	30 mA	-	0.9 kg	
SER-FB4	4 x 1 W LED	70 mA	60 mA	27 lumens	0.9 kg	

Legends

SER-SC012	SER-SC010	SER-SC011	SER-SC013	SER-SC802	SER-SC803

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions



* Total output from 2 lower LEDs through lenses

For Serenga Escape 4 LED spacing data, see page 85.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Serenga Sun-Lite LED: performance, power & precision

Serenga Sun-Lite offer a tremendous opportunity to everyone looking to add LED based emergency lighting to the design scheme.

LED light sources provide considerable value through minimal maintenance, long life and low operating cost, promoting significant cost and energy savings versus converted downlighters or 8 Watt fluorescents.

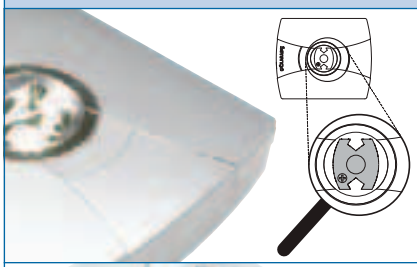
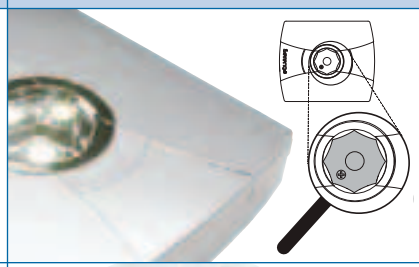
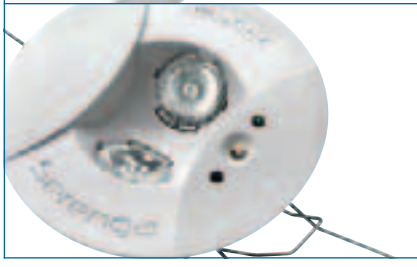
Complementing fully our Serenga Escape exit signs, Serenga Sun-Lite provide emergency lighting coverage across escape routes and open areas, as well as object-specific spotlighting. Engineered with specific diffusers or reflector arrangements, optimum light dispersal is achieved for every application.

Both fully recessed and low-profile surface mounted units are available, making Serenga the comprehensive solution for delivering high output, low energy emergency lighting across the entire design scheme.

Advantages at every step:

- High power, high efficiency LED light sources
- LED long life expectancy over 5 years
- Optimised light distribution
- 5 Lux spotlight capability
- Minimal intrusion into building design
- Modular, first-fix installation
- Low energy night & security lighting
- Intelligent Self-Test functionality included
- Dimmable option available
- Excellent alternative to converted downlighters and 8 Watt fluorescents

Serenga light distribution

	Elongated light dispersal for:	Wide beam light dispersal for:	Spotlighting for:
	● Escape route corridors, passageways etc	● Open areas such as offices, reception areas, canteens etc	● First aid points ● Fire fighting equipment ● Fire call points ● Low location lighting
Surface mounted			
Recessed			

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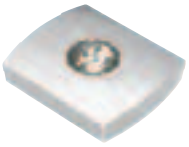
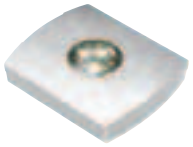
Serenga Sun-Lite surface mounted

Escape route



Order Code	Description	Colour
SER-SEM3-11	Self-contained, M3	
SER-SEM3-33	Self-contained, M3	
SER-SEM3-22	Self-contained, M3	
SER-SE230-11	Slave, 230 V	
SER-SE230-33	Slave, 230 V	
SER-SE230-22	Slave, 230 V	
SER-SE230LTC-11	Slave, 230 V inc. LTC	
SER-SE230LTC-33	Slave, 230 V inc. LTC	
SER-SE230LTC-22	Slave, 230 V inc. LTC	

Open area



Order Code	Description	Colour
SER-SAM3-11	Self-contained, M3	
SER-SAM3-33	Self-contained, M3	
SER-SAM3-22	Self-contained, M3	
SER-SA230-11	Slave, 230 V	
SER-SA230-33	Slave, 230 V	
SER-SA230-22	Slave, 230 V	
SER-SA230LTC-11	Slave, 230 V inc. LTC	
SER-SA230LTC-33	Slave, 230 V inc. LTC	
SER-SA230LTC-22	Slave, 230 V inc. LTC	

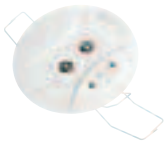
For testing and dimmable downlighter options, please contact Emergi-Lite.

Serenga Sun-Lite recessed

Escape route

Order Code	Description	Colour
SER-DW-RM3	Self-contained, M3	
SER-DWS-RM3	Self-contained, M3	
SER-DWB-RM3	Self-contained, M3	
SER-DW-R230	Slave, 230 V	
SER-DWS-R230	Slave, 230 V	
SER-DWB-R230	Slave, 230 V	
SER-DW-R230LTC	Slave, 230 V, inc LTC	
SER-DWS-R230LTC	Slave, 230 V, inc LTC	
SER-DWB-R230LTC	Slave, 230 V, inc LTC	

Open area



Order Code	Description	Colour
SER-DA-RM3	Self-contained, M3	
SER-DAS-RM3	Self-contained, M3	
SER-DAB-RM3	Self-contained, M3	
SER-DA-R230	Slave, 230 V	
SER-DAS-R230	Slave, 230 V	
SER-DAB-R230	Slave, 230 V	
SER-DA-R230LTC	Slave, 230 V, inc LTC	
SER-DAS-R230LTC	Slave, 230 V, inc LTC	
SER-DAB-R230LTC	Slave, 230 V, inc LTC	

Spotlight

Order Code	Description	Colour
SER-DS-RM3	Self-contained, M3	
SER-DSS-RM3	Self-contained, M3	
SER-DSB-RM3	Self-contained, M3	
SER-DS-R230	Slave, 230 V	
SER-DSS-R230	Slave, 230 V	
SER-DSB-R230	Slave, 230 V	
SER-DS-R230LTC	Slave, 230 V, inc LTC	
SER-DSS-R230LTC	Slave, 230 V, inc LTC	
SER-DSB-R230LTC	Slave, 230 V, inc LTC	

For testing and dimmable downlighter options, please contact Emergi-Lite.

Accessories

Order Code	Description
SER-DBZ5-AL	Trim bezel aluminium (pack of 5)*
SER-DBZ5-BR	Trim bezel brass (pack of 5)*
SER-DBZ5-SI	Trim bezel silver (pack of 5)*
SER-DBZ5-WH	Trim bezel white (pack of 5)*

* Serenga Sun-Lite recessed use only

Technical Reference

IP40 rating achieved from below when recessed downlighters are fitted with the clear cover supplied.

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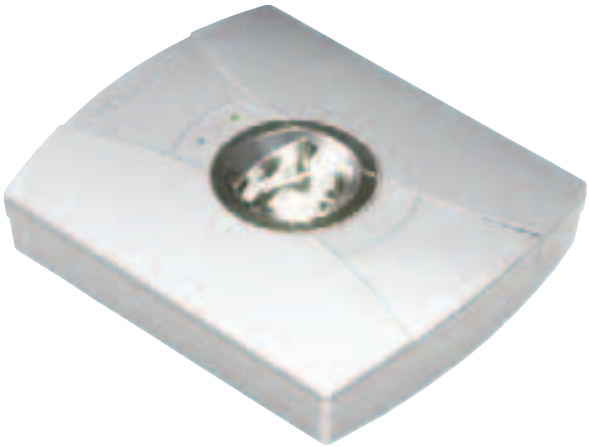
Serenga Sun-Lite surface mounted escape route.

- Ideal for high specification projects
- Excellent alternative to converted downlighters and 8 Watt fluorescent luminaires
- Light optimised reflector
- Ingress rated to IP42 when ceiling mounted
- Intelligent Self-Test as standard
- Polycarbonate, first-fix enclosure
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands

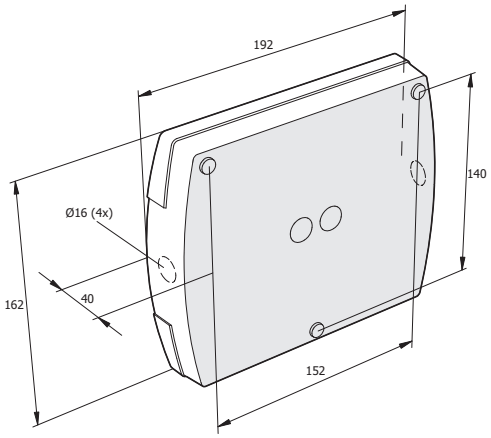


Surface mounted unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
SER-SEM3-11	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	64 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SEM3-33	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	64 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SEM3-22	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	64 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SE230-11	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SE230-33	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SE230-22	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SE230LTC-11	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.9 kg
SER-SE230LTC-33	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.9 kg
SER-SE230LTC-22	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	65 lumens	230 V	-		5 - 35 °C	1.9 kg

For testing and dimmable downlighter options, please contact Emergi-Lite.

Dimensions



For Serenga Surface Mounted spacing data, see page 85.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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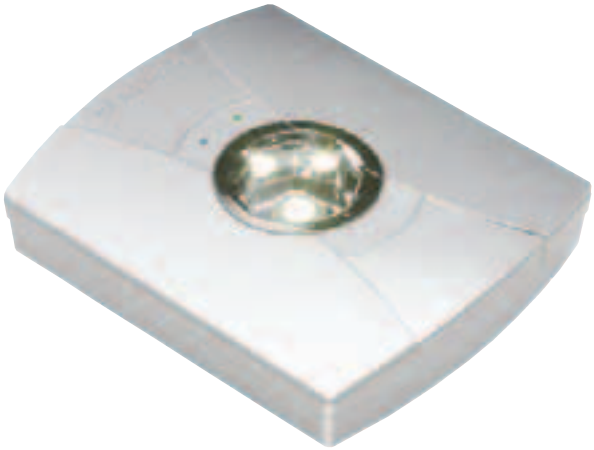


Serenga Sun-Lite surface mounted open area.

- Ideal for high specification projects
- Excellent alternative to converted downlighters and 8 Watt fluorescent luminaires
- Light optimised octagonal reflector
- Ingress rated to IP42 when ceiling mounted
- Intelligent Self-Test as standard
- Polycarbonate, first-fix enclosure
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands

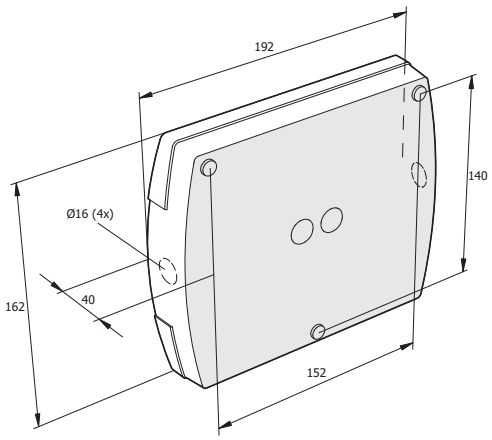
Naveo IR2

Surface mounted unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
SER-SAM3-11	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	65 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SAM3-33	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	65 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SAM3-22	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	65 lumens	M3	24 hours		5 - 25 °C	2.0 kg
SER-SA230-11	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SA230-33	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SA230-22	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.8 kg
SER-SA230LTC-11	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.9 kg
SER-SA230LTC-33	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.9 kg
SER-SA230LTC-22	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	50 mA	67 lumens	230 V	-		5 - 35 °C	1.9 kg

For testing and dimmable downlighter options, please contact Emergi-Lite.

Dimensions



For Serenga Surface Mounted spacing data, see page 85.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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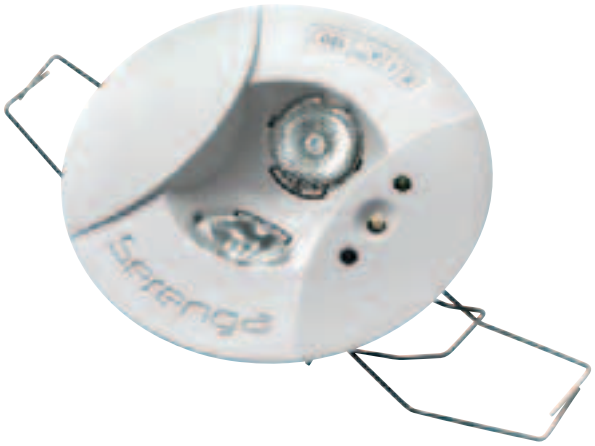
EMERGI-LITE

Serenga Sun-Lite recessed escape route.

- Ideal for high specification projects
- Excellent alternative to converted downlighters and 8 Watt fluorescent luminaires
- Two angled LEDs in head unit with separate control module and battery
- Intelligent Self-Test as standard
- Polycarbonate downlighter and polyamide control module
- Optional clear clip-on IP40 cover included
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands



Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output*	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
SER-DW-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	39 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DWS-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	39 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DWB-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	39 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DW-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DWS-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DWB-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DW-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DWS-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DWB-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	39 lumens	230 V	-		0 - 40 °C	1.1 kg

For testing and dimmable downlighter options, please contact Emergi-Lite.

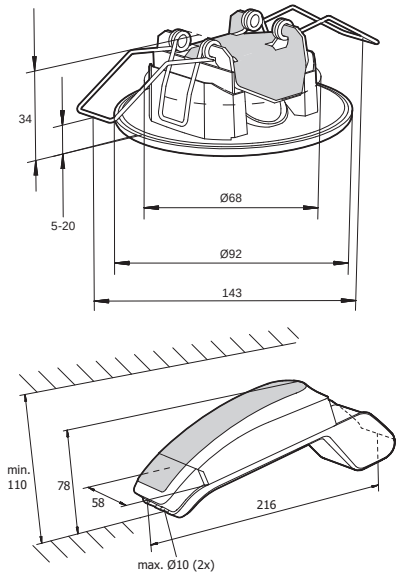
Accessories

Order Code	Description
SER-DBZ5-AL	Trim bezel aluminium (pack of 5)
SER-DBZ5-BR	Trim bezel brass (pack of 5)
SER-DBZ5-SI	Trim bezel silver (pack of 5)
SER-DBZ5-WH	Trim bezel white (pack of 5)

* Total output from 2 LEDs through lenses.

For Serenga Sun-Lite spacing data, see page 85.
For slave control module drawing, see page 91.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

Dimensions



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Serenga Sun-Lite recessed open area.

- Ideal for high specification projects
- Excellent alternative to converted downlighters and 8 Watt fluorescent luminaires
- Two LEDs in head unit with separate control module and battery
- Intelligent Self-Test as standard
- Polycarbonate downlighter and polyamide control module
- Optional clear clip-on IP40 cover included
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands

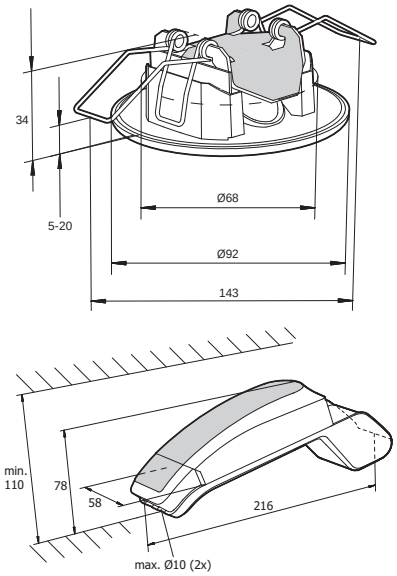
Naveo IR2

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
SER-DA-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	56 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DAS-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	56 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DAB-RM3	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	56 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DA-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DAS-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DAB-R230	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DA-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DAS-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DAB-R230LTC	85 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	56 lumens	230 V	-		0 - 40 °C	1.1 kg

For testing and dimmable downlighter options, please contact Emergi-Lite.

Dimensions



Accessories

Order Code	Description
SER-DBZ5-AL	Trim bezel aluminium (pack of 5)
SER-DBZ5-BR	Trim bezel brass (pack of 5)
SER-DBZ5-SI	Trim bezel silver (pack of 5)
SER-DBZ5-WH	Trim bezel white (pack of 5)

For Serenga Sun-Lite spacing data, see page 85.
For slave control module drawing, see page 91.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Serenga Sun-Lite recessed spotlight.

- Ideal for high specification projects
- Excellent alternative to converted downlighters and 8 Watt fluorescent luminaires
- Angled LED in head unit with separate control module and battery
- Intelligent Self-Test as standard
- Polycarbonate downlighter and polyamide control module
- Optional clear clip-on IP40 cover included
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output*	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
SER-DS-RM3	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	20 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DSS-RM3	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	20 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DSB-RM3	220 - 240 Vac, 50 Hz	1 x 1 W LED	40 mA	20 lumens	M3	24 hours		0 - 25 °C	1.1 kg
SER-DS-R230	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DSS-R230	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DSB-R230	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.0 kg
SER-DS-R230LTC	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DSS-R230LTC	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.1 kg
SER-DSB-R230LTC	85 - 240 Vac, 50/60 Hz	1 x 1 W LED	20 mA	20 lumens	230 V	-		0 - 40 °C	1.1 kg

For testing and dimmable downlighter options, please contact Emergi-Lite.

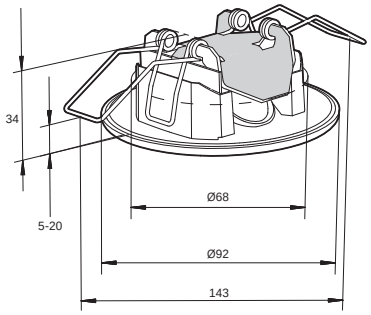
Accessories

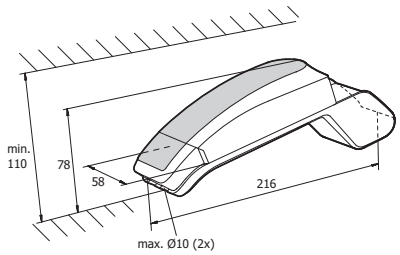
Order Code	Description
SER-DBZ5-AL	Trim bezel aluminium (pack of 5)
SER-DBZ5-BR	Trim bezel brass (pack of 5)
SER-DBZ5-SI	Trim bezel silver (pack of 5)
SER-DBZ5-WH	Trim bezel white (pack of 5)

* Total output from LED through a lens.

For Serenga Sun-Lite spacing data, see page 85.
For slave control module drawing, see page 91
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

Dimensions





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Horizon

- *Powerful, high output exit sign and emergency luminaire range delivering harmony across the entire design scheme*
- *Industry-leading luminaire spacing provides clear economy over and above traditional 8 Watt fluorescents*
- *LED based exit signs deliver cost efficiency in maintained operations*

Modern in design, modular in construction

Horizon is a versatile, high performance emergency lighting solution designed to meet the demands of today's marketplace.

Horizon delivers tremendous advantages to all parties involved with emergency lighting, from initial project design through installation to ongoing ownership and maintenance.

Comprising directional signage and luminaires for open area and escape route lighting, Horizon offers a comprehensive, consistent solution for the entire emergency lighting scheme.

With Horizon, low energy LED based exit signs are matched with high output fluorescent luminaires to provide a cost efficient yet powerful emergency lighting system. This highly effective approach delivers optimal light distribution, so fewer luminaires are required, with low ongoing maintenance costs.

Both recessed and surface mounted units are available, for modern suspended ceilings and traditional solid walls, making the most of every location.

Straightforward, modular design ensures rapid installation, with the first-fix base fitted at an early construction phase, and the geartray, light diffuser or legend panel installed later as the building is finalised.

Modular design and construction offers specifiers and building owners opportunity to revise emergency escape route plans at later project stages, if required, as building use and occupants' needs become clearer.

Horizon - advantages at every step:

Whether you're designing, installing, maintaining or managing emergency lighting, Horizon has clear advantages over the competition, at every step in the process:

At planning:

- Modern styling & aesthetics make Horizon ideal for inclusion in high profile projects
- High versatility, with surface mounting, recessing or mounting via a range of accessories ensures Horizon comprehensively covers project needs
- Excellent light distribution and spacing promote a high level of efficiency when locating luminaires
- Designed to meet BS EN standards for excellent performance over time

During installation:

- Modular construction with separate replaceable geartray for simple, secure installation
- 3 Year product warranty for confidence and added peace of mind

In the managed phase:

- LED based ceiling & back mount exit signs for energy conservation in maintained operations
- Maintained LED based signs can be used as low cost security lighting

On renewal:

- Modular design for rapid replacement of parts
- Retrofit existing fluorescent Horizon exit signs with LED geartray for reduced energy demand and longer lamp-life

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Horizon luminaires have been specifically engineered with enhanced light optics to deliver market-leading spacing compared to standard fluorescents of similar lamp size.

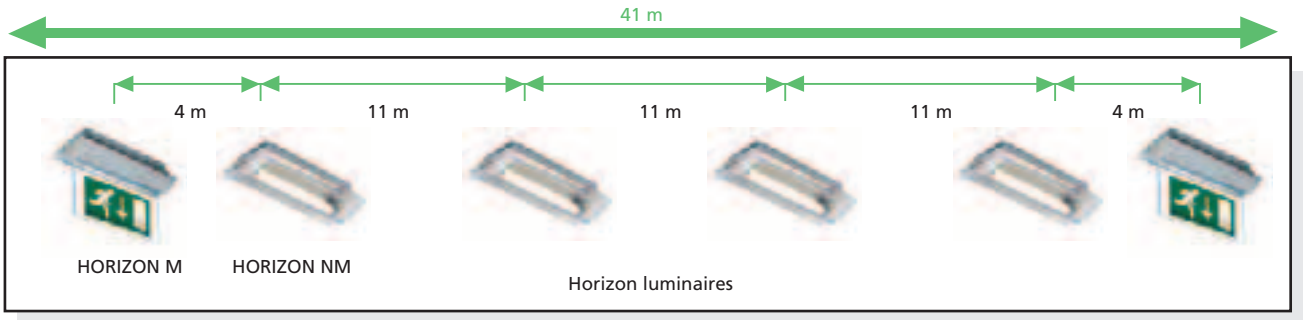
Through developing luminaires with increased spacing, Emergi-Lite is able to deliver key cost benefits for both installation and ongoing maintenance of emergency lighting, since fewer units are required in the system.

With emergency lighting a long term investment, it is clear that total cost of ownership, including installation, maintenance, battery replacement etc becomes a more important factor than the initial expense on luminaires.

Horizon's impressive spacing, and low maintenance LED exit signs, maximise the potential cost benefits to the user, thereby significantly reducing total cost of ownership.

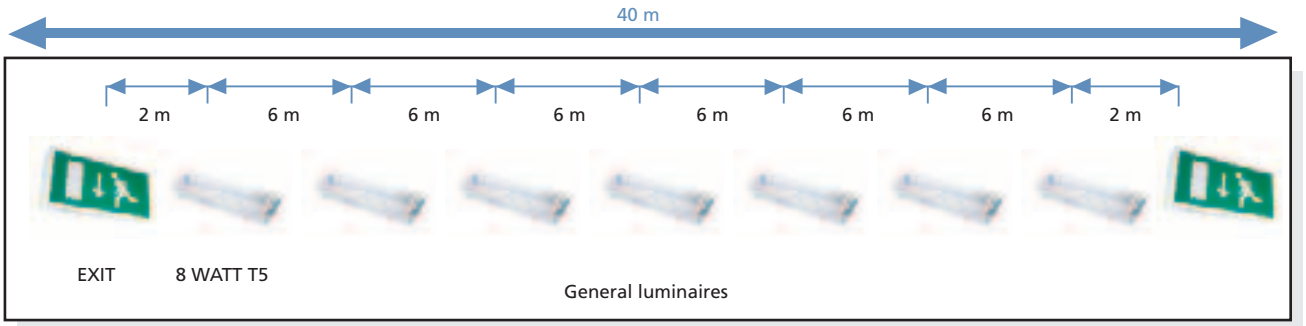
The following chart highlights the savings achieved by specifying and installing Horizon versus a standard 8 Watt fluorescent luminaire solution.

Horizon vs. 8 Watt Fluorescent cost comparison



Equipment: £632.00	Installation: £300.00	Energy: £508.00	Maintenance: £1296.00

Total cost of ownership (12 years): **£2736.00**



Equipment: £397.00	Installation: £450.00	Energy: £635.00	Maintenance: £1863.00

Total cost of ownership (12 years): **£3345.00**

Individual cost items may vary over time and the example is for guidance only. For specific project cost comparisons please contact Emergi-Lite sales department.

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EMERGI-LITE

Luminaire

Order Code	Description
OH23161	Self-contained, NM3, surface mount
OH33161	Self-contained, M3, surface mount
OH13161HF	Slave, 230 V, surface mount
OH13161LTC	Slave, 230 V, inc. LTC, surface mount
OZ23161	Self-contained, NM3, recessed
OZ33161	Self-contained, M3, recessed
OZ13161HF	Slave 230 V, recessed
OZ13161LTC	Slave, 230 V, inc. LTC, recessed

Exit signs

Back-lit LED exit sign

Order Code	Description
OH3L261	Self-contained, M3, surface mount
OH1L261HF	Slave, 230 V, surface mount
OZ3L261	Self-contained, M3, recessed
OZ1L261HF	Slave 230 V, recessed

Order Code	Description
XE02H	
XE03H	
XE06H	
XE05H	
XLF802H	
XLF803H	

Legends are screen printed with clip-fit aluminium frame.

Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Edge-lit LED exit sign

Order Code	Description
OHD3LS61	Self-contained, M3, surface mount
OHD1LS61HF	Slave, 230 V, surface mount
OZD3LS61	Self-contained, M3, recessed
OZD1LS61HF	Slave 230 V, recessed

Order Code	Description
XE20HS	
XE30HS	
XE60HS	
XE50HS	
XE36HD	
XLF802HS	
XLF803HS	

Legends are screen printed with slotted aluminium frame.

Accessories

Order Code	Description
OH/BCM	Ceiling bracket, vertical mount, for back-lit sign
OH/BWM	Wall bracket for edge-lit sign/luminaire
OH/WG	Protective wire guard

Technical Reference

IP20 = recessed
IP40 = surface mount

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EMERGI-LITE

Back-lit LED exit sign.

- Sophisticated design, ideal for contemporary commercial projects
- Choice of IP40 surface mount (OH) or IP20 recessed (OZ) installation with LED lamp
- Shaped diffuser and contoured reflector
- First-fix aluminium base with white polycarbonate luminaire body
- Clip-on legend panel
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order luminaire and legend separately

Naveo IR2

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OH3L261	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	1.7 kg
OH1L261HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.5 kg
OZ3L261	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	1.7 kg
OZ1L261HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.5 kg

Legends





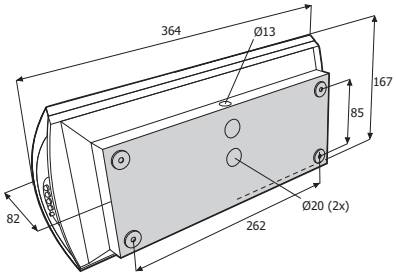

XE02H	XE03H	XE06H	XE05H	XLF802H	XLF803H

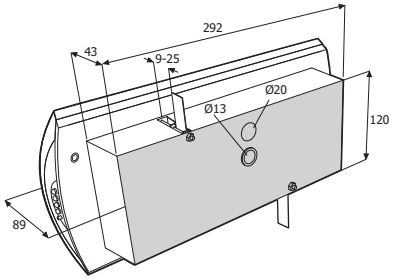
Legends are screen printed with clip-fit aluminium frame. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
OH/BCM	Ceiling bracket, vertical mount, for back-lit sign
OH/WG	Protective wire guard

Dimensions





For accessory drawings, see pages 91 - 92.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Edge-lit LED exit sign.

- Sophisticated design, ideal for contemporary commercial projects
- Choice of IP40 surface mount (OHD) or IP20 recessed (OZD) installation with LED lamp
- Shaped diffuser and contoured reflector
- First-fix aluminium base with white polycarbonate luminaire body
- Legend panel with slotted aluminium frame
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order luminaire and legend separately

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OHD3LS61	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	1.7 kg
OHD1LS61HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.5 kg
OZD3LS61	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	1.7 kg
OZD1LS61HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.5 kg

Legends

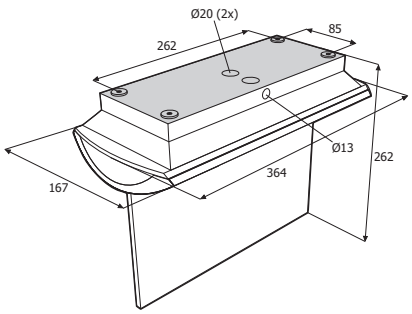
Single sided							Double sided	
XE20HS	XE30HS	XE60HS	XE50HS	XLF802HS	XLF803HS		XE36HD	

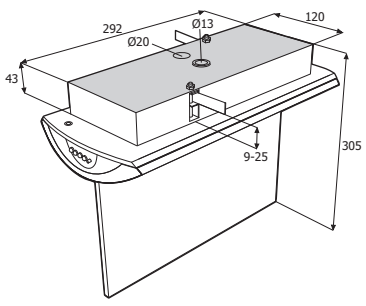
Legends are screen printed with slotted aluminium frame. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
OH/BWM	Wall bracket for edge-lit sign/luminaire

Dimensions





For accessory drawings, see pages 91 - 92.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

High power open area luminaire.

- Sophisticated design, ideal for contemporary commercial projects
- Choice of IP40 surface mount (OH) or IP20 recessed (OZ) installation with fluorescent lamp
- Shaped diffuser and contoured reflector for exceptional light distribution
- First-fix aluminium base with white polycarbonate luminaire body and clear diffuser
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK, and the Netherlands

Naveo ST SELF-TEST

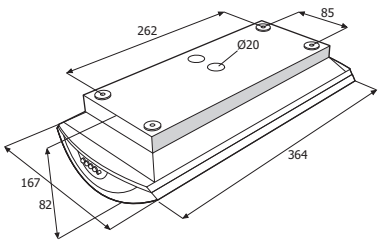
Luminaire

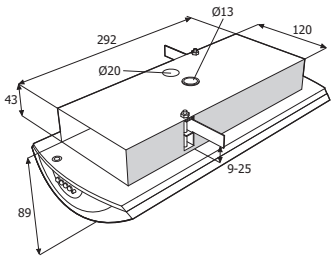
Order Code	Input Voltage	Lamp Type	Lamp Output	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OH23161	220 - 240 Vac, 50/60 Hz	8 W T5	156 lumens	20 mA	NM3	24 hours	0 - 25 °C	1.5 kg
OH33161	220 - 240 Vac, 50/60 Hz	8 W T5	156 lumens	70 mA	M3	24 hours	0 - 25 °C	1.7 kg
OH13161HF	220 - 240 Vac, 50/60 Hz	8 W T5	253 lumens	70 mA	230 V	-	0 - 40 °C	1.3 kg
OH13161LTC	220 - 240 Vac, 50/60 Hz	8 W T5	253 lumens	70 mA	230 V	-	0 - 40 °C	1.4 kg
OZ23161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	20 mA	NM3	24 hours	0 - 25 °C	1.5 kg
OZ33161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	70 mA	M3	24 hours	0 - 25 °C	1.7 kg
OZ13161HF	220 - 240 Vac, 50/60 Hz	8 W T5	253 lumens	70 mA	230 V	-	0 - 40 °C	1.3 kg
OZ13161LTC	220 - 240 Vac, 50/60 Hz	8 W T5	253 lumens	70 mA	230 V	-	0 - 40 °C	1.4 kg

Accessories

Order Code	Description
OH/BWM	Wall bracket for edge-lit sign/luminaire
OH/WG	Protective wire guard

Dimensions





For Horizon spacing data, see page 86.
For accessory drawings, see pages 92.
For further information on Naveo and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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EMERGI-LITE

Aqualux

Aqualux

- *Hard wearing, high output luminaire and exit sign range for both interior and exterior use*
- *Impressive light output even at high ceiling heights*
- *Ideal for warehouses, storage facilities, and other general projects requiring heavy duty emergency lighting*

High performance, high output emergency lighting, for heavy duty use

Durability and high performance mark the Aqualux range of exit signs and luminaires.

Rated to IK10, and certified to both IP65 and IP67, Aqualux is the ideal choice where heavy duty emergency lighting is required, and excels in high bay warehouses, storage facilities, car parks, sports halls and stadia etc.

Being both impact and weather resistant, Aqualux is also well suited to use in schools, hospitals, shopping malls and other commercial environments requiring a robust emergency lighting solution.

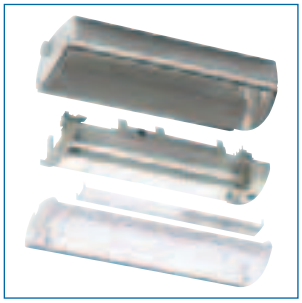
Aqualux offers a complete and comprehensive solution with low energy LED based exit signs complemented by high output luminaires.

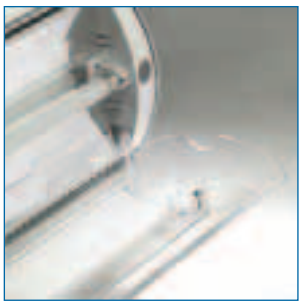
Two luminaire lamp options, 8 W T5 or high power 11 W PL, are available for excellent spacings even at high ceiling heights, not only beating conventional fluorescents, but also outperforming twin spot tungsten halogen units.

All units combine with a range of mounting accessories, to ensure all location requirements are covered. IP65 rating ensures exterior emergency lighting can also be provided.

Additionally, specialist luminaire types are available, including a 'light sensor', and low temperature 'Freez-Lite' option. By using a light sensor, luminaires automatically illuminate at dusk, enabling Aqualux to operate as security lighting.

Aqualux 'Freez-Lite' operates down to minus 25°C, ideal for cold-stores, specialist winter sports venues and for general all-weather outdoor security lighting.





Aqualux - advantages at every step:

For designers, specifiers, installers and building owner/occupiers, Aqualux delivers more over the lifetime of the emergency lighting system:

At planning:

- High versatility, with range of mounting accessories for complete project coverage
- Specialist applications, such as security/night lighting and low temperature use make Aqualux viable for many diverse projects
- Excellent light distribution and spacing promote a high level of efficiency when locating luminaires
- Designed to meet BS EN standards and ENEC approved, for assured performance

During installation:

- Modular construction with separate replaceable geartray for straightforward, first-fix installation
- 3 Year product warranty for added peace of mind

In the managed phase:

- LED based exit signs for energy conservation in maintained operations
- Excellent luminaire spacing ensures fewer luminaires across the site, lowering maintenance and management costs
- Intelligent Self-Test included as standard

On renewal:

- Modular design for rapid replacement of parts
- Retrofit existing Aqualux fluorescent exit signs with LED geartray for reduced energy demand and longer lamp-life

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Aqualux luminaires have been specifically designed to deliver exceptional light output and excellent spacings, even in areas with high ceilings, making Aqualux the sure choice for large scale open area emergency lighting projects.

Through developing luminaires with increased spacing, Emergi-Lite is able to deliver key cost benefits over the lifetime of the emergency lighting system.

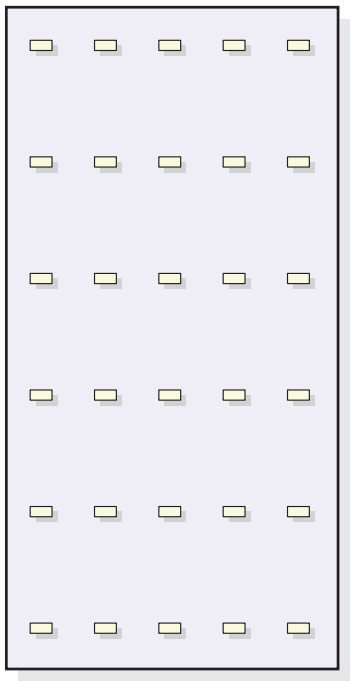
Fewer luminaires reduces installation, ongoing maintenance and servicing costs, along with the eventual recycling requirement.

With emergency lighting a long term investment, this highly effective approach can have a significant positive impact on total cost of ownership of the system.

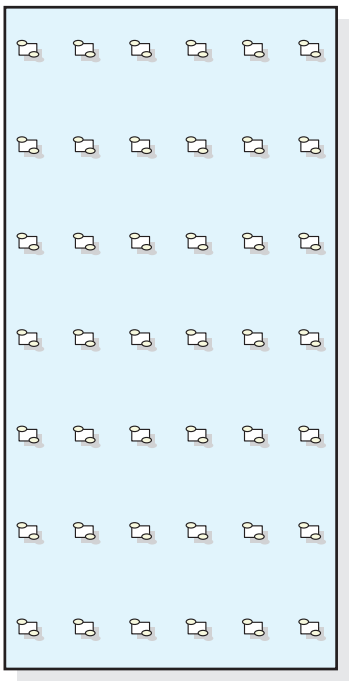
The following chart highlights the savings which can be achieved through specifying and installing Aqualux versus a twin spot tungsten halogen unit.

Aqualux vs. Twin Spot cost comparison

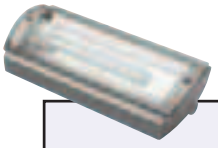
Comparison between Aqualux and Twin Spot unit, ceiling mounted at 6 m, to achieve open area requirement of 0.5 lux.



Hi Spec Aqualux 30 x 11 W NM3

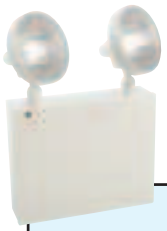


Twin spot 42 x (2 x 20 W NM3)



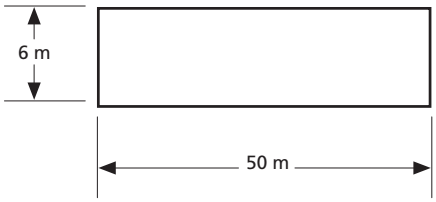
Hi spec Aqualux

Equipment cost: £5040
Installation cost: £1502
Total: £6542
£1.31 per m²



Twin Spot

Equipment cost: £7056
Installation cost: £2103
Total: £9159
£1.83 per m²



This shows a comparison between Aqualux high spec 11 W fluorescents and twin spot units arranged in a typical warehouse space. A complete open area scenario is used. For storage racks with aisles an alternative layout is needed.

Individual cost items may vary over time and the example is for guidance only. For specific project cost comparisons please contact Emergi-Lite sales department.

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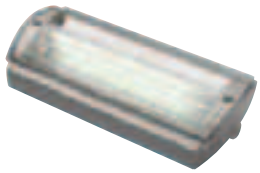
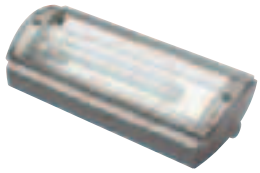
Luminaire





Standard Order Code	Freez-Lite Order Code	Description
OW23161	STF23161	Self-contained, NM3, 8 W T5
OW33161	STF33161	Self-contained, M3, 8 W T5
OW13161HF	STF13161HF	Slave, 230 V, 8 W T5
OW13161LTC	-	Slave, 230 V, inc. LTC, 8 W T5
OW26161	STF26161	Self-contained, NM3, 11 W PL
OW36161	STF36161	Self-contained, M3, 11 W PL
OW16161HF	STF16161HF	Slave, 230 V, 11 W PL
OW16161LTC	-	Slave, 230 V, in LTC, 11 W PL

LED based exit signs

Back-lit LED exit sign

Order Code	Description
OW3L261	Self-contained, M3
OW3L261LS	Self-contained, M3, inc light sensor
OW1L261HF	Slave, 230 V
OW1L261LTC	Slave, 230 V, inc LTC

Order Code	Description
XE02W	
XE03W	
XE06W	
XE05W	
XLF802W	
XLF803W	

Legends are screen printed and clip under diffuser.

Edge-lit LED exit sign

Order Code	Description
OW3L261	Self-contained, M3
OW3L261LS	Self-contained, M3, inc light sensor
OW1L261HF	Slave, 230 V
OW1L261LTC	Slave, 230 V, inc LTC

Accessory	
OW/DSC	Blank double sided diffuser

Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Order Code	Description
RSE2W	
RSE3W	
RSE6W	
RSE5W	
RSE2W/RSE2W	
RSE3W/RSE6W	

Legends are self-adhesive, to attach to double sided diffuser.

Accessories

Order Code	Description
OW/BCM	Ceiling bracket, vertical mount
OW/BWA	Wall bracket, angled mount
OW/BWM	Wall mount end cantilever bracket

Technical Reference

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EMERGI-LITE

Back-lit LED exit sign.

- Robust contemporary design, ideal for offices, warehouses and storage facilities
- Attractive aluminium modular enclosure (certified to IP65 and IP67)
- Clear polycarbonate broad delivery diffuser
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Order luminaire and legend separately
- Manufactured in the Netherlands

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OW3L261	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	2.2 kg
OW3L261LS	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	2.3 kg
OW1L261HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.8 kg
OW1L261LTC	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.9 kg

OW3L261LS includes light sensor.

Legends

XE02W	XE03W	XE06W	XE05W	XLF802W	XLF803W

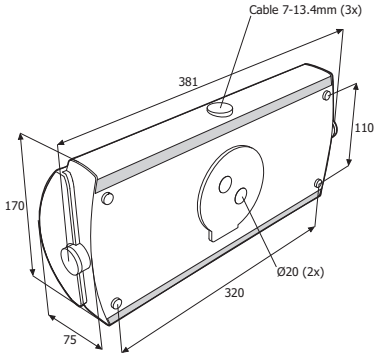
Legends are screen printed and clip under diffuser. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-

Accessories

Order Code	Description
OW/BCM	Ceiling bracket, vertical mount
OW/BWA	Wall bracket, angled mount

For accessory drawings, see page 92.

Dimensions



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EMERGI-LITE

Edge-lit LED exit sign.

- Robust contemporary design, ideal for offices, warehouses and storage facilities
- Attractive aluminium modular enclosure (certified to IP65 and IP67)
- Clear polycarbonate broad delivery diffuser
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands
- Order luminaire, D-shaped diffuser and legend(s) separately

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OW3L261	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	2.2 kg
OW3L261LS	220 - 240 Vac, 50 Hz	2 x 1 W LED	60 mA	M3	24 hours	0 - 25 °C	2.3 kg
OW1L261HF	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.8 kg
OW1L261LTC	220 - 240 Vac, 50/60 Hz	2 x 1 W LED	30 mA	230 V	-	0 - 40 °C	1.9 kg

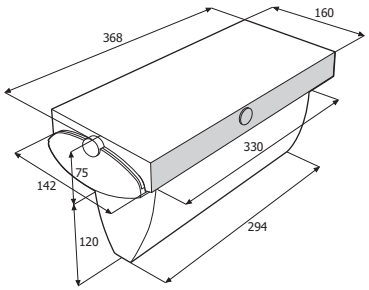
OW3L261LS includes light sensor.

Legends

Single sided					Double sided		
RSE2W	RSE3W	RSE6W	RSE5W		RSE3W/RSE6W	RSE2W/RSE2W	

Legends are self-adhesive to be applied to double sided diffuser accessory (OW/DSC). Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions



Accessories

Order Code	Description
OW/BWM	Wall mount end cantilever bracket
OW/DSC	Blank double sided diffuser

For accessory drawings, see page 92.

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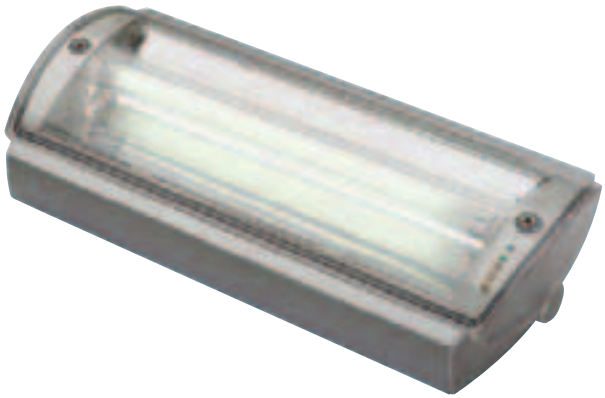
EMERGI-LITE

High power open area luminaire.

- Robust contemporary design, ideal for offices, warehouses and storage facilities
- Choice of 8 W or 11 W fluorescent lamps
- Attractive aluminium modular enclosure (certified to IP65 and IP67)
- Clear polycarbonate broad delivery diffuser
- Includes light sensor for overnight security lighting application
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands



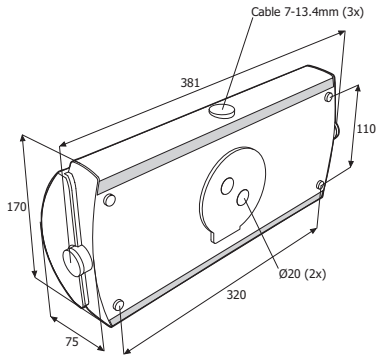
Luminaire

Order Code	Input Voltage	Lamp Type	Lamp Output	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
OW23161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	40 mA	NM3	24 hours	0 - 25 °C	2.0 kg
OW33161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	90 mA	M3	24 hours	0 - 25 °C	2.2 kg
OW13161HF	220 - 240 Vac, 50/60 Hz	8 W T5	303 lumens	70 mA	230 V	-	0 - 40 °C	1.8 kg
OW13161LTC	220 - 240 Vac, 50/60 Hz	8 W T5	303 lumens	70 mA	230 V	-	0 - 40 °C	1.9 kg
OW26161	220 - 240 Vac, 50 Hz	11 W PL	252 lumens	40 mA	NM3	24 hours	0 - 25 °C	2.0 kg
OW36161	220 - 240 Vac, 50 Hz	11 W PL	252 lumens	120 mA	M3	24 hours	0 - 25 °C	2.2 kg
OW16161HF	220 - 240 Vac, 50/60 Hz	11 W PL	675 lumens	100 mA	230 V	-	0 - 40 °C	1.8 kg
OW16161LTC	220 - 240 Vac, 50/60 Hz	11 W PL	675 lumens	120 mA	230 V	-	0 - 40 °C	1.9 kg

Accessories

Order Code	Description
OW/BCM	Ceiling bracket, vertical mount
OW/BWA	Wall bracket, angled mount
OW/BWM	Wall mount end cantilever bracket

Dimensions



For Aqualux spacing data, see page 86.
For accessory drawings, see page 92.

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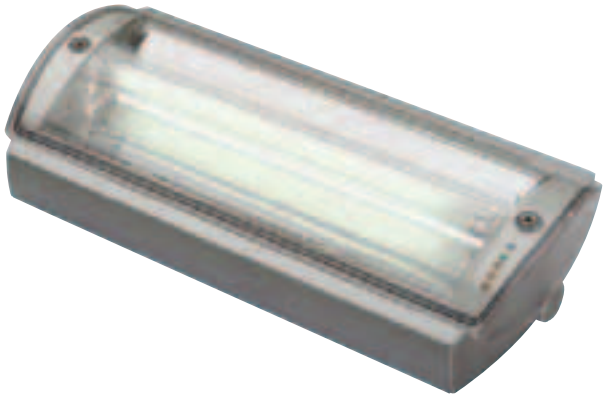
EMERGI-LITE



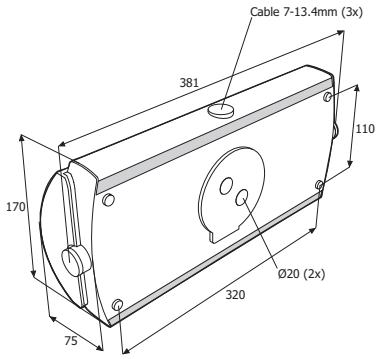
High power open area luminaire.

- Robust contemporary design, ideal for cold-stores and freezer compartments
- Choice of 8 W or 11 W fluorescent lamps
- Attractive aluminium modular enclosure (certified to IP65 and IP67)
- Clear polycarbonate broad delivery diffuser
- Operates down to minus 25 °C
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the Netherlands

Luminaire

Order Code	Input Voltage	Lamp Type	Lamp Output	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
STF23161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	230 mA	NM3	24 hours	-25 - +25 °C	2.0 kg
STF33161	220 - 240 Vac, 50 Hz	8 W T5	156 lumens	230 mA	M3	24 hours	-25 - +25 °C	2.2 kg
STF13161HF	220 - 240 Vac, 50/60 Hz	8 W T5	303 lumens	190 mA	230 V	-	-25 - +40 °C	1.8 kg
STF26161	220 - 240 Vac, 50 Hz	11 W PL	252 lumens	260 mA	NM3	24 hours	-25 - +25 °C	2.0 kg
STF36161	220 - 240 Vac, 50 Hz	11 W PL	252 lumens	260 mA	M3	24 hours	-25 - +25 °C	2.2 kg
STF16161HF	220 - 240 Vac, 50/60 Hz	11 W PL	675 lumens	220 mA	230 V	-	-25 - +40 °C	1.8 kg

Dimensions



Accessories

Order Code	Description
OW/BCM	Ceiling bracket, vertical mount
OW/BWA	Wall bracket, angled mount
OW/BWM	Wall mount end cantilever bracket

For Aqualux spacing data, see page 86.
For accessory drawings, see page 92.

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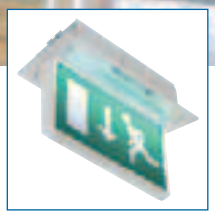
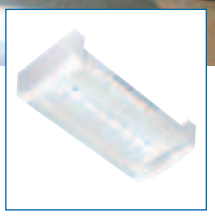
EMERGI-LITE

Previx®

- *Compact, attractive, combined exit sign and emergency lighting solution*
- *Specifically designed for ease of installation, with first-fix base for electrical connections*
- *Ideal for commercial and public sector offices, educational facilities and retail units*





Previx®

Practical emergency lighting begins with Previx

Previx offers a practical, combined emergency lighting and exit sign solution and is ideal for specification projects such as schools, offices, retail units, cafes, and small healthcare sites, e.g. GP's surgeries.

Previx has been designed specifically with practicality and simplicity in mind.

First of all Previx benefits from an easy-to-install first-fix base. By choosing Previx, contractors are assured of swift, ready installation with simple connection of the emergency lighting unit once the base is wired up.

Back-lit exit signage is achieved easily by clipping the legend directly on to the unit, whilst edge-lit signs are created using an accessory kit which includes all necessary components and simply clicks to fit into ceiling mounted luminaires.

All in all, in a few simple steps Previx is installed and ready for use.

For an end user, Previx offers an intelligent emergency lighting solution at a highly attractive price.

With its compact housing, minimal product height and option for recessing, Previx delivers discreet, professional emergency lighting whether installed above doorways or on to low ceilings.

Self-Test is in-built as standard, ensuring periodic testing in line with BS 5266 with minimal disruption to daily activities. Simply check LED status indicators on the unit for effective lamp operation.

For even greater assurance, Previx is ENEC certified for product quality, and is supplied complete with a four year warranty on the emergency lighting unit, making it the perfect choice for long term safety.

In short, Previx delivers full emergency lighting integrity in a compact, manageable housing, ideal for day-to-day installations.

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EMERGI-LITE

Back-lit LED exit sign.

- Ideal for use in commercial offices, hotels, public buildings, cafes and retail units etc
- Manufactured from high grade polycarbonate in white
- Straightforward installation, with first-fix base
- Suitable for surface mounting
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight	Includes Legend
PX3LS1	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.0 kg	
PX1LS1HF	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	0.9 kg	
PX1LS1LTC	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	1.0 kg	

Legends

XE02PX	XE03PX	XE06PX	XE05PX

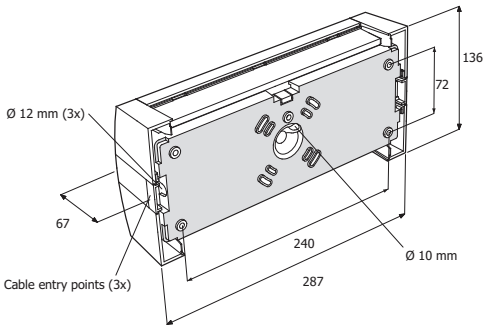
Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
BK XL	Protective wire guard
PX/BCM	Ceiling bracket, vertical mount
PX/BWM	Wall bracket, for flag sign mount
PX/LENS4	Set of 4 lenses (for enhanced spacing in general use)

For accessory drawings, see page 92.
For further information on Naveo emergency luminaire testing format, see pages 73 - 75 or contact Emergi-Lite.

Dimensions



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Edge-lit LED exit sign.

- Ideal for use in commercial offices, hotels, public buildings, cafes and retail units etc
- Manufactured from high grade polycarbonate in white
- Straightforward installation, with first-fix base
- Options for surface (PX) or recessed (PXR) mount
- Intelligent self-test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK
- Order LED base unit and double sided exit sign kit (PX/DSLKIT) separately

Naveo®

LED base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight	Includes Legend
PX3LS1	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.0 kg	
PXR3LS1	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.4 kg	
PX1LS1HF	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	0.9 kg	
PX1LS1LTC	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	1.3 kg	
PXR1LS1HF	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	0.9 kg	
PXR1LS1LTC	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	230 V	-	0 - 40 °C	1.3 kg	

Legends

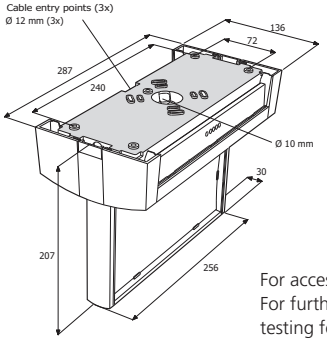
Single sided				Double sided	
XE02PX	XE03PX	XE06PX	XE05PX		XE03PX / XE06PX

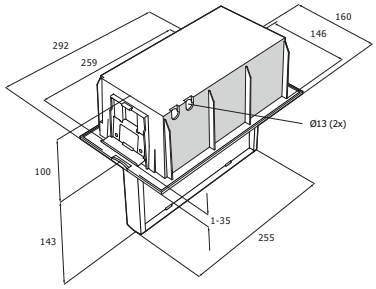
Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
PX/DSLKIT	Double sided exit sign kit, includes

Dimensions





For accessory drawings, see page 92.
For further information on Naveo emergency luminaire testing format, see pages 73 - 75 or contact Emergi-Lite.

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EMERGI-LITE

LED emergency luminaire.

- Ideal for use in commercial offices, hotels, public buildings, cafes and retail units etc
- Manufactured from high grade polycarbonate in white
- Straightforward installation, with first-fix base
- Options for surface (PX) or recessed (PXR) mount
- Increased spacing achieved with optional lens kit (PX/LENS4)
- Intelligent Self-Test as standard
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK

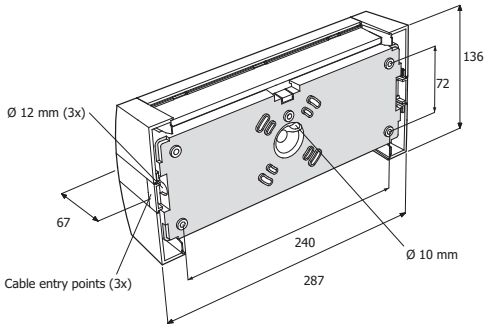
LED luminaire

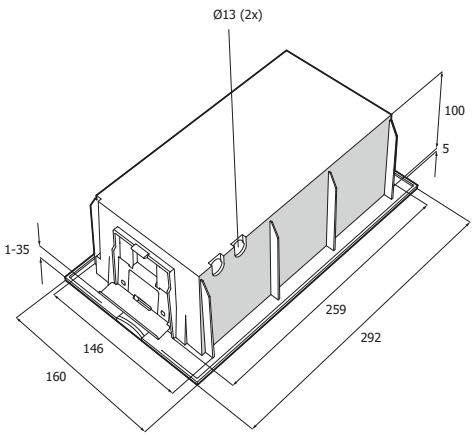
Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
PX3LS1	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	147 lumens	M3	24 hours	0 - 25 °C	1.0 kg
PXR3LS1	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	147 lumens	M3	24 hours	0 - 25 °C	1.4 kg
PX1LS1HF	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	185 lumens	230 V	-	0 - 40 °C	0.9 kg
PX1LS1LTC	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	185 lumens	230 V	-	0 - 40 °C	1.3 kg
PXR1LS1HF	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	185 lumens	230 V	-	0 - 40 °C	0.9 kg
PXR1LS1LTC	220 - 240 Vac, 50/60 Hz	1 W LED strip	30 mA	185 lumens	230 V	-	0 - 40 °C	1.3 kg

Accessories

Order Code	Description
PX/LENS4	Set of 4 lenses

Dimensions





For Previx spacing data, please see page 87
For accessory drawings, see page 92.
For further information on Naveo emergency luminaire testing format, see pages 73 - 75 or contact Emergi-Lite.

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Escape Line

- *Compact, modern and stylish range of emergency luminaires and exit signs for commercial and public sector applications*
- *Choice of LED and fluorescent lamp types for most luminaires in range*
- *Variety of mounting options to suit all design requirements*

Slim-profile, back-lit exit sign.

- Ideal for use in hotels, public buildings, offices, bars, cafes etc
- Manufactured from high grade polycarbonate
- Self-adhesive PVC legend creates back-lit sign
- Ingress rated to IP42 when back mounted
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order luminaire and legend separately

Naveo ST SELF-TEST IR2

(Fluorescent lamps only)

Luminaire

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
PL2LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	NM3	24 hours	0 - 25 °C	1.7 kg
PL3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.9 kg
PLX23111	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	NM3	24 hours	0 - 25 °C	1.7 kg
PLX33111	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	1.9 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Legends


RSE 2PL


RSE 3PL


RSE 6PL


RSE 5PL

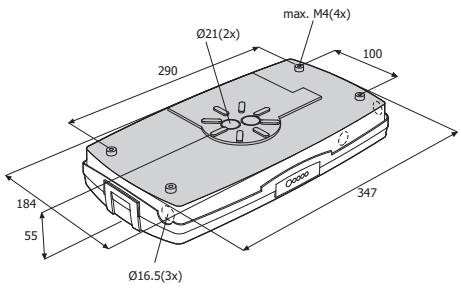
Legends are self-adhesive PVC. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
PL/WG	Protective wire guard
PL/BCM	Ceiling bracket, top mount

For accessory drawings, see page 92.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

Dimensions



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EMERGI-LITE

Slim-profile, edge-lit exit sign.

- Ideal for use in hotels, public buildings, offices, bars, cafes etc
- Manufactured from high grade polycarbonate
- Screen printed legend creates edge-lit sign
- Ingress rated to IP54 when ceiling mounted
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order luminaire and legend separately

Naveo ST SELF-TEST IR2

(Fluorescent lamps only)

LED 3 IP54 27 m NiCaD NiMH

Luminaire

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
PL2LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	NM3	24 hours	0 - 25 °C	1.7 kg
PL3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.9 kg
PLX23111	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	NM3	24 hours	0 - 25 °C	1.7 kg
PLX33111	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	1.9 kg

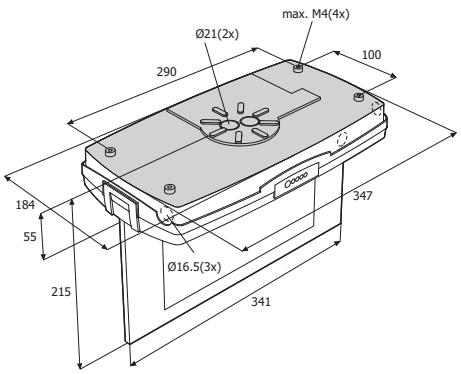
Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Legends

Single sided					Double sided		
XE02PL	XE03PL	XE06PL	XE05PL		XE036PL	XE022PL	

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions



Accessories

Order Code	Description
PL/BPM	Pendant bracket, back mount

For accessory drawings, see page 92.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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EMERGI-LITE

Slim-profile luminaire.

- Ideal for use in hotels, public buildings, offices, bars, cafes etc
- Manufactured from high grade polycarbonate
- Light optimised diffuser
- Ingress rated to IP42 (back mount) or IP54 (ceiling mount)
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)

(Fluorescent lamps only)

Luminaire

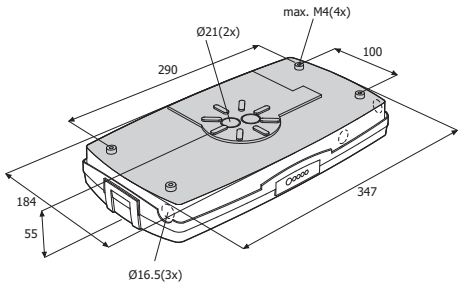
Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
PL2LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	90 lumens	NM3	24 hours	0 - 25 °C	1.7 kg
PL3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	90 lumens	M3	24 hours	0 - 25 °C	1.9 kg
PLX23111	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	170 lumens	NM3	24 hours	0 - 25 °C	1.7 kg
PLX33111	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	170 lumens	M3	24 hours	0 - 25 °C	1.9 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Accessories

Order Code	Description
PL/WG	Protective wire guard
PL/BPM	Pendant bracket, back mount
PL/BCM	Ceiling bracket, top mount

Dimensions



For Way-Fer spacing data, see page 87.
For accessory drawings, see page 92.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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Recessed exit sign.

- Ideal for modern commercial environments
- Available with stainless steel, brushed silver aluminium, white or mirror finish brass trim plate
- Heavy duty steel enclosure with wing fixings for recessed application with separate slotted metal trim plate to support legend
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order recessed unit, trim plate and legend separately

Naveo ST SELF-TEST IR2 LED IP20 27m NiCaD NiMH

(Testing & Kitemark - fluorescent lamp only)

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
AR3LS	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	2.0 kg
ARV33	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	2.0 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue. Silver-Lite exit sign available with slim profile trim plate, to special order. Please contact Emergi-Lite for details.

Trim plate

Order Code	Description
AE01	White slotted trim plate
AE04	Brass slotted trim plate
AE05	Stainless steel slotted trim plate
AE06	Brushed aluminium slotted trim plate

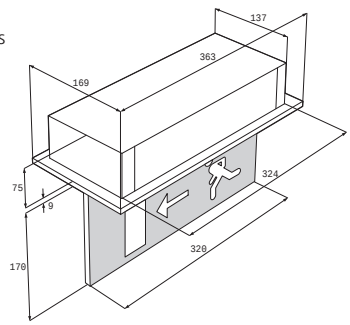
Legends

Single sided					Double sided		
XE02A31	XE03A31	XE06A31	XE05A31		XE03/6A32	XE02/2A32	

Legends are screen printed and slot through the metal trim plate. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via 20 mm knockouts on rear and ends of unit.



Ceiling cutout 325 x 140 mm.

For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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EMERGI-LITE

Recessed luminaire.

- Ideal for modern commercial environments
- Available with stainless steel, brushed silver aluminium, white or mirror finish brass trim plate
- Heavy duty steel enclosure with wing fixings for recessed application
- Separate metal trim plate with light-optimised diffuser
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order recessed unit and trim plate separately

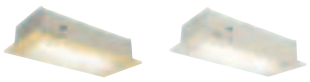
(Testing & Kitemark - fluorescent lamps only)

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
AR2LS	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	90 lumens	NM3	24 hours	0 - 25 °C	1.8 kg
AR3LS	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	90 lumens	M3	24 hours	0 - 25 °C	2.0 kg
ARV23	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	100 lumens	NM3	24 hours	0 - 25 °C	1.8 kg
ARV33	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	100 lumens	M3	24 hours	0 - 25 °C	2.0 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

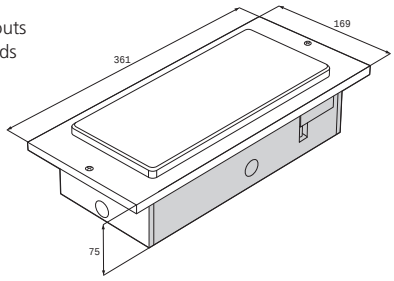
Trim plate



Order Code	Description
AR011	White trim
AR041	Brass trim
AR051	Stainless steel trim
AR061	Aluminium trim

Dimensions

Cable entry via 20 mm knockouts on rear and ends of unit.



Ceiling cutout 325 x 140 mm.

For Silver-Lite spacing data, see page 87.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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Edge-lit exit sign.

- LED or CCFL lamp options, for long life expectancy with low power consumption
- Available in white as standard with black and silver options to special order
- Intelligent Self-Test as standard
- Range of mounting accessories
- Designed & manufactured to meet the requirements of BS EN 60598.2.22 (Kitemark KM13139 - CCFL lamp)
- Manufactured in Hungary
- Order base unit, legend and mounting accessory (see page 51) separately

Naveo

(Kitemark - CCFL fluorescent lamp only)

Base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Colour	Environment	Weight
ENV50-001	220 - 240 Vac, 50 Hz	1 W LED strip	27 mA	M3	24 hours		0 - 25 °C	1.4 kg
EM3-001	220 - 240 Vac, 50 Hz	CCFL	40 mA	M3	24 hours		0 - 25 °C	1.4 kg

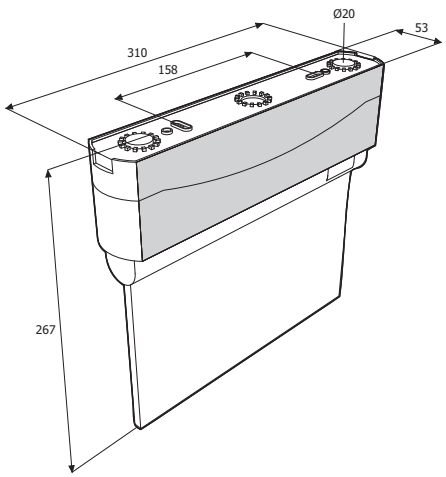
Fluorescent = NiCaD, LED = NiMH. Black & silver options available to order. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Legends

Single sided				Double sided			
ESS012	ESS010	ESS011	ESS013	EDS020	EDS021	EDS022	

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions



For accessory drawings, see page 93.
For further information on Naveo emergency luminaire testing format, see pages 73 - 75 or contact Emergi-Lite.

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EMERGI-LITE

Horizontal mounting EMH

The horizontal mounting attachment allows the luminaire to be mounted horizontally with the sign-plate hanging vertically. This kit consists of a reflector to redirect light to the sign-plate, an alternative sign-plate cover and screws to secure the sign-plate. Ideal for use above doors where space is limited.

Order Code	Description	Trim Colour
EMH-001	Horizontal	☐

Black and silver options available to order.

Recessed mounting EMF

Comprising a recessing cage, trim plate and fasteners. The recessing cage has side wings that are used to secure the cage to the ceiling. The luminaire is installed by simply pressing it into place and replacing the cover.

Order Code	Description	Trim Colour
EMF-001	Recessing kit	☐

Black and silver options available to order.

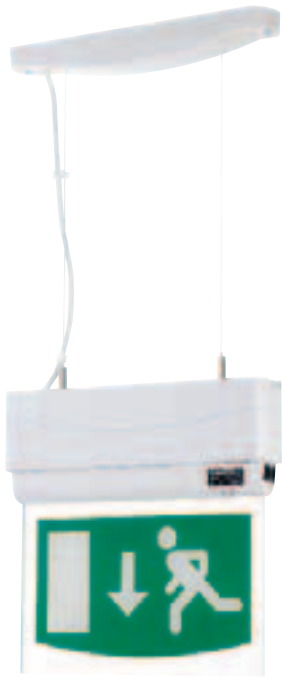
Wall Brackets EMV

The bracket moulding features a ratchet detail allowing the sign to be angled at virtually any angle to the wall, including parallel and perpendicular mountings.

Order Code	Description	Trim Colour
EMV-001	Wall bracket	☐

Black and silver options available to order.

Wire suspension EMS



The wire suspension kit includes an adjustment device and clutch mechanism through which the wire is pulled until the desired length is reached. Excess wire can then be cut away. The cut end does not enter the first-fix plate so cannot chafe wiring or compromise safety.

Variable wiring length makes this version suitable for angled mounting surfaces.

Order Code	Description	Trim Colour
EMS-001	Adjustable wire suspension kit	☐

Black and silver options available to order.

Rod suspension EMR

Rod suspension kits are available for heights of 0.3, 0.5 and 1 metre.

Order Code	Description	Trim Colour
EMR300-001	0.30 m rod suspension kit	☐
EMR500-001	0.50 m rod suspension kit	☐
EMR1000-001	1 m rod suspension kit	☐

Black and silver options available to special order (limited availability).

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EMERGI-LITE

Compact, folded metal emergency exit sign.

- Ideal for wall mounting above doorways
- Generous downlight panel provides additional illumination at floor level (VE versions)
- VE versions available in white, brass, and stainless steel
- DVE double sided version available in white
- Designed & manufactured to meet the requirements of BS EN 60598.2.22. VE Kitemarked, ICEL1001 registration scheme
- Manufactured in the UK (LED), and Hungary (FL)
- Order base unit and legend separately

ST SELF-TEST IR2 VE only
(Testing & Kitemark - fluorescent lamps only)

LED 3 IP20 32 m NiCaD NiMH

Base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Trim Colour	Environment	Weight
VE3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours		0 - 25 °C	2.2 kg
VE3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	2.2 kg
VE3317	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	2.2 kg
VE3315	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	2.2 kg
DVE3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	2.2 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

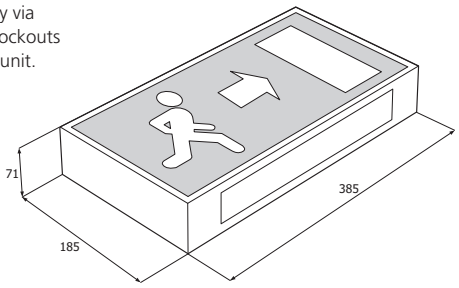
Legends

XE02V31	XE03V31	XE06V31	XE05V31

Legends are screen printed. Note DVE unit requires 2 legends. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via 20 mm knockouts on rear of unit.



Accessories

Order Code	Description
VEBACK	Rear trim plate for a flat back when required for ceiling mounting

For DVE drawing, please contact Emergi-Lite.
For further information on IR2 and Self-Test emergency luminaire testing formats, see pages 76 - 78 or contact Emergi-Lite.

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EMERGI-LITE

Navigator/Navigator Performa

Large, highly visible exit sign.

- Suitable for auditoria, hotel foyers, corridors etc
- Generous downlight panels provide additional illumination at floor level (EE versions)
- EE versions available in white
- DE double sided version available in white
- Navigator Performa unit available in black trim, with black & green legend, for cinemas, auditoria etc
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary
- Order base unit and legend separately

Naveo IR2

(Maintained only)

Base unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Trim Colour	Environment	Weight
EE3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	3.0 kg
EE4323	220 - 240 Vac, 50/60 Hz	2 x 8 W T5	60 mA	CNM3	24 hours		0 - 25 °C	3.2 kg
DE3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	3.0 kg

For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Legends

Navigator

XE02E31	XE03E31	XE06E31	XE05E31

Navigator Performa

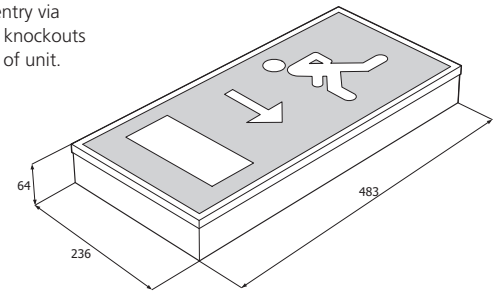
XE02E4	XE03E4	XE06E4	XE05E4

Legends are screen printed. Note DE unit requires 2 legends. Navigator Performa CNM3 model includes green mains lamp and white emergency lamp.

Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via 20 mm knockouts on rear of unit.



For DE drawing, please contact Emergi-Lite.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Recessed emergency exit sign.

- Suitable for application in suspended ceilings
- Polycarbonate enclosure with wing fixings for recessed application
- Diffuser panel with slot for exit sign legend
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order recessed unit, diffuser panel and legend separately

(Testing & Kitemark - fluorescent lamps only)

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight*
RB3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	1.3 kg
RB3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	1.3 kg

* Without legend. Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Diffuser panel

Order Code	Description
RE00	Recessed diffuser panel with sign panel slot

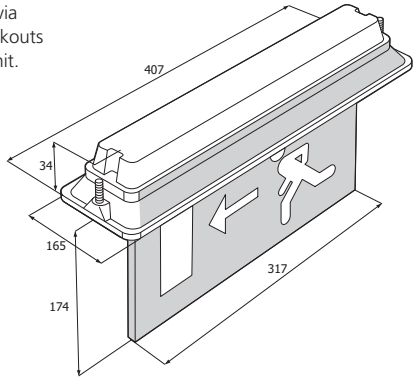
Legends

Single sided					Double sided		
XE02A31	XE03A31	XE06A31	XE05A31		XE03/6A32	XE02/2A32	

Legends are screen printed and slot through the metal trim plate. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via 20 mm knockouts on rear of unit.



Ceiling cutout 380 x 136 mm.

For further information on IR2 and Self-Test emergency luminaire testing formats, see pages 76 - 78 or contact Emergi-Lite.

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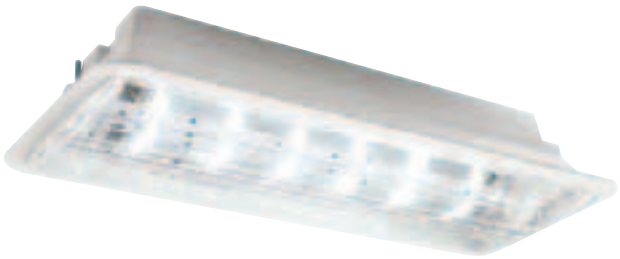
Recessed emergency luminaire.

- Suitable for application in suspended ceilings
- Polycarbonate enclosure with wing fixings for recessed application
- Light engineered diffuser for optimum spacing
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order recessed unit and diffuser panel separately



(Testing & Kitemark - fluorescent lamps only)

Recessed unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
RB2LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	90 lumens	NM3	24 hours	0 - 25 °C	1.1 kg
RB3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	90 lumens	M3	24 hours	0 - 25 °C	1.3 kg
RB2311	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	100 lumens	NM3	24 hours	0 - 25 °C	1.1 kg
RB3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	100 lumens	M3	24 hours	0 - 25 °C	1.3 kg

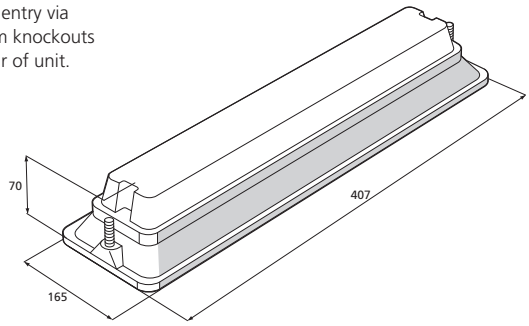
Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Diffuser panel

Order Code	Description
RB00	Recessed diffuser panel

Dimensions

Cable entry via 20 mm knockouts on rear of unit.



Ceiling cutout 380 x 136 mm.

For Silver-Scape spacing data, see page 88.
For further information on IR2 and Self-Test emergency luminaire testing formats, see pages 76 - 78 or contact Emergi-Lite.

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Distinctive edge-lit exit sign.

- Suitable for both prestigious, period settings and contemporary décors
- Available in white, polished brass or stainless steel trim
- Mains connector block seated in support pod
- Includes chain for maximum 0.5 m suspension
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary
- Order exit sign support and legend separately

Exit sign

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Trim Colour	Environment	Weight
NB3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	3.0 kg
NB3314	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	2.5 kg
NB3315	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours		0 - 25 °C	3.1 kg

For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

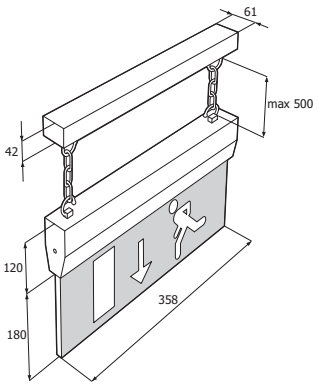
Legends

Single sided					Double sided			
XE02NT31	XE03NT31	XE06NT31	XE05NT31		XE03/6NT32		XE02/2NT32	

Legends are screen printed. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via BESA in support pod.



Accessories

Order Code	Description
NB/BFM07	Cantilever wall bracket in gold
NB/BWM07	Back-to-wall bracket in gold

For accessory drawings, please contact Emergi-Lite.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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Practical, robust double sided exit sign.

- Suitable for public walkways, enclosed car parks or educational establishments
- High grade polycarbonate enclosure with fixed legends
- Semi-recessing accessory available
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)

(Testing & Kitemark - fluorescent lamps only)

Exit sign

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight	Includes Legend
DV3LS1XE22	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	M3	24 hours	0 - 25 °C	2.1 kg	
DV3LS1XE36	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	M3	24 hours	0 - 25 °C	2.1 kg	
DV3311XE22	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	2.1 kg	
DV3311XE36	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	M3	24 hours	0 - 25 °C	2.1 kg	

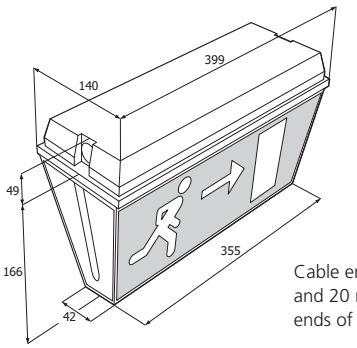
Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.
Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Accessories

Order Code	Description
BBZ	Semi-recessing bezel kit in white

For accessory drawing, see page 93.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

Dimensions



Cable entry via BESA on rear and 20 mm drill holes on ends of unit.

Ceiling cutout 390 x 130 mm when semi-recessing.

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Standard, surface mounted luminaire.

- Simple, vandal resistant design suitable for general use in interior and exterior locations
- Available with high grade polycarbonate (B) or cast aluminium (WA) enclosure
- Opal diffuser as standard with clear polycarbonate diffuser option available
- Converts easily to exit sign with addition of self-adhesive legend
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order luminaire and legend separately

Naveo ST SELF-TEST IR2

(Testing & Kitemark - fluorescent lamps only)

Luminaire

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
B2LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	90 lumens	NM3	24 hours	0 - 25 °C	1.7 kg
B3LS1	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	90 lumens	M3	24 hours	0 - 25 °C	2.1 kg
B2311	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	170 lumens	NM3	24 hours	0 - 25 °C	1.7 kg
B3311	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	170 lumens	M3	24 hours	0 - 25 °C	1.9 kg
B4321	220 - 240 Vac, 50/60 Hz	2 x 8 W T5	60 mA	170 lumens	CNM3	24 hours	0 - 25 °C	2.0 kg
WA2321	220 - 240 Vac, 50/60 Hz	2 x 8 W T5	60 mA	250 lumens	NM3	24 hours	0 - 25 °C	2.1 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Options

Order Code	Description
Suffix 1	Clear prismatic diffuser

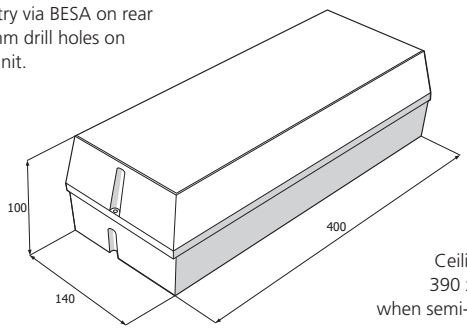
Legends

RSE2120	RSE3120	RSE6120	RSE5120	RSE120

Legends are self-adhesive label. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

Dimensions

Cable entry via BESA on rear and 20 mm drill holes on ends of unit.



Ceiling cutout 390 x 130 mm when semi-recessing.

Accessories

Order Code	Description
BBZ	Semi-recessing bezel in white
VRKIT	Vandal resisting security screw kit
BWG	Protective wire guard

For Weatherforce spacing data, see page 88.
For accessory drawing, see page 93.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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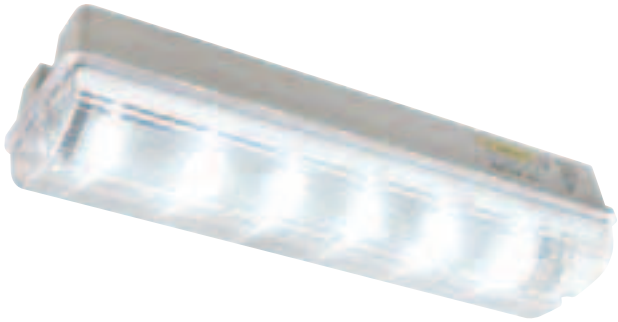
EMERGI-LITE

Standard, surface mounted luminaire.

- Simple, vandal resistant design suitable for general use in interior and exterior locations
- High grade polycarbonate enclosure
- Converts easily to exit sign with addition of self-adhesive legend
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK (LED), and Hungary (FL)
- Order luminaire and legend separately



(Testing & Kitemark - fluorescent lamps only)

Luminaire

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
XW2LS11	220 - 240 Vac, 50/60 Hz	1 W LED strip	12 mA	90 lumens	NM3	24 hours	0 - 25 °C	1.1 kg
XW3LS11	220 - 240 Vac, 50/60 Hz	1 W LED strip	27 mA	90 lumens	M3	24 hours	0 - 25 °C	1.3 kg
XXW23111	220 - 240 Vac, 50/60 Hz	8 W T5	30 mA	170 lumens	NM3	24 hours	0 - 25 °C	1.2 kg
XXW33111	220 - 240 Vac, 50/60 Hz	8 W T5	60 mA	170 lumens	M3	24 hours	0 - 25 °C	1.5 kg

Fluorescent = NiCaD, LED = NiMH. For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.

Legends

RSE2X	RSE3X	RSE6X	RSE5X

Legends are self-adhesive label. Euro pictogram legends shown. ISO 7010 format legends are available to order, see page 95 or contact Emergi-Lite.

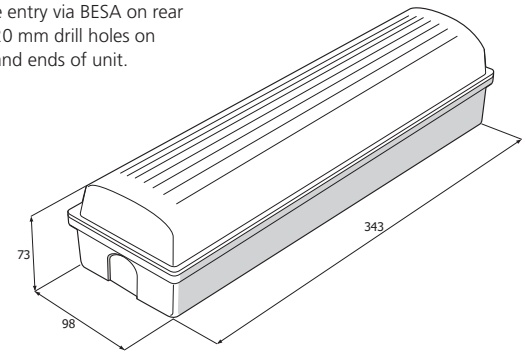
Accessories

Order Code	Description
XTR	Semi-recessing bezel in white

See Silver-Scape (page 55) for recessed version.
For Day-Lite Ex-cel spacing data, see page 89.
For accessory drawing, see page 93.
For further information on IR2 and Self-Test emergency luminaire testing formats, see pages 76 - 78 or contact Emergi-Lite.

Dimensions

Cable entry via BESA on rear and 20 mm drill holes on rear and ends of unit.



Ceiling cutout 342 x 95 mm when semi-recessing.

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Surface mount LED light source.

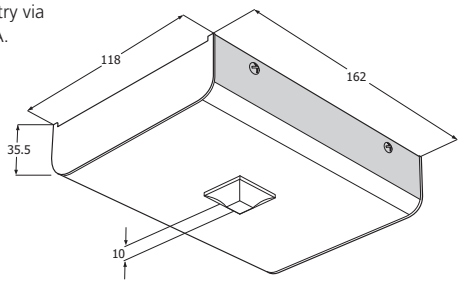
- Ideal for general use in offices, public buildings, retail and light industrial units
- Folded metal enclosure finished with white epoxy coat
- Versions for escape route (Suffix E) or open area (Suffix A) use available
- Single point high performance LED for extended life
- Styled to be a slim, functional emergency luminaire
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK

Single point LED

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
LS2L1E	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	10 mA	110 lumens	NM3	24 hours	0 - 25 °C	0.6 kg
LS2L1A	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	10 mA	110 lumens	NM3	24 hours	0 - 25 °C	0.6 kg
LS3L1E	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	28 mA	110 lumens	M3	24 hours	0 - 25 °C	0.6 kg
LS3L1A	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	28 mA	110 lumens	M3	24 hours	0 - 25 °C	0.6 kg

Dimensions

Cable entry via rear BESA.



For spacing data, please contact Emergi-Lite.

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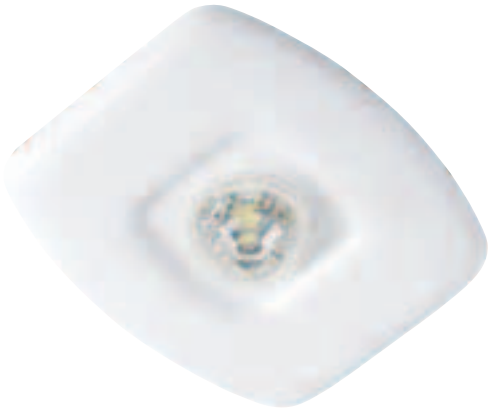
EMERGI-LITE

Recessed LED light source.

- Ideal for general use in offices, public buildings, retail and light industrial units
- Polycarbonate enclosure finished in white
- Versions for escape route (Suffix E) or open area (Suffix A) use available
- Single point high performance LED
- Battery and control pack slot through a 39 mm ceiling cut-out
- Plug and socket supplied for mains connection
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in the UK

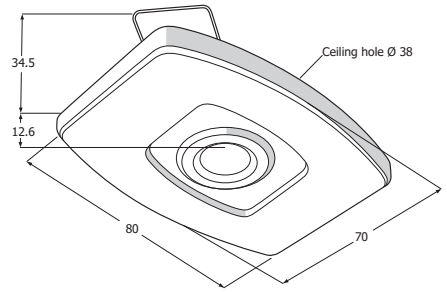


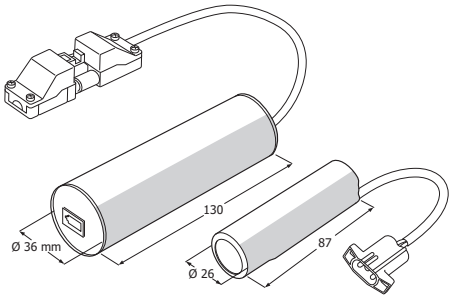
Single point LED

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
LR2L1E	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	10 mA	110 lumens	NM3	24 hours	0 - 25 °C	0.6 kg
LR2L1A	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	10 mA	110 lumens	NM3	24 hours	0 - 25 °C	0.6 kg
LR3L1E	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	28 mA	110 lumens	M3	24 hours	0 - 25 °C	0.6 kg
LR3L1A	220 - 240 Vac, 50/60 Hz	1 x 1 W LED	28 mA	110 lumens	M3	24 hours	0 - 25 °C	0.6 kg

* Recessed unit only. Weight of battery and control pack 0.8 kg.

Dimensions





Ceiling cutout
39 mm diameter.

For spacing data, please contact Emergi-Lite.

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EMERGI-LITE

Aesthetically pleasing, decorative luminaire.

- 28 Watt 2D high power luminaire
- Fire-resistant polycarbonate luminaire body with opal diffuser
- Angled and banded trim options in a range of finishes
- Semi-recessing accessory available
- Designed and manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary

Naveo ST SELF-TEST IR2 28 W only

3 IP20 NiCaD

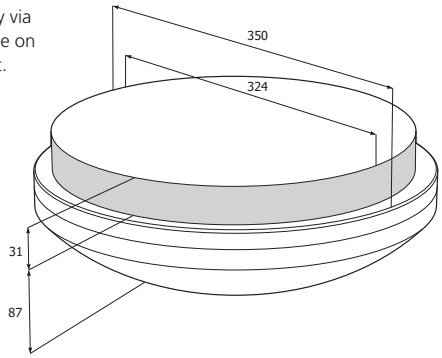
Luminaire

Order Code	Input Voltage	Lamp Type	Power Cons. Mains/ Self-contained	Lamp Output Mains/ Self-contained	Operation / Duration (hrs)	Recharge Period	Environment	Weight
CLQ28NM	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / 250 mA	1800 / 250 lumens	NM3	24 hours	0 - 25 °C	2.6 kg
CLQ28M	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / 250 mA	1800 / 250 lumens	M3	24 hours	0 - 25 °C	3.2 kg
CLQ28PHF	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / - mA	1800 / 250 lumens	230 V	-	0 - 25 °C	2.1 kg

For AC/AC or AC/DC slave luminaires please refer to our EMEX Central Power Supply Systems Catalogue.

Dimensions

Cable entry via 20 mm hole on rear of unit.



Ceiling cutout 330 mm when semi-recessing.

Accessories

Order Code	Description
CLQ/SR	Semi-recessing kit

For Camarque spacing data, see page 89.
For further information on Naveo, IR2 and Self-Test emergency luminaire testing formats, see pages 73 - 78 or contact Emergi-Lite.

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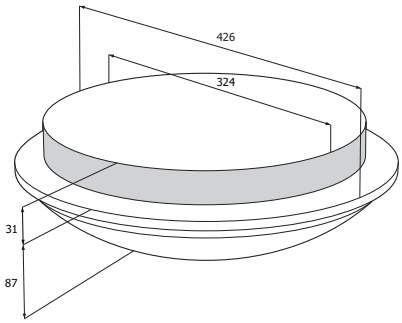
EMERGI-LITE

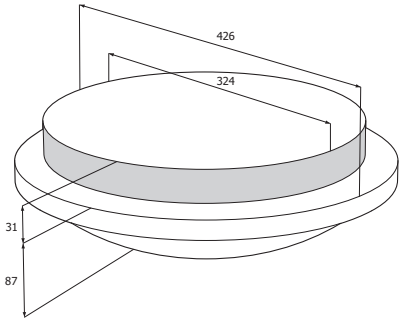
Angled trim accessory



Order Code	Trim Colour
CLQ/GA	
CLQ/SA	
CLQ/WA	
CLQ/BKA	
CLQ/SR	Semi-recessing kit

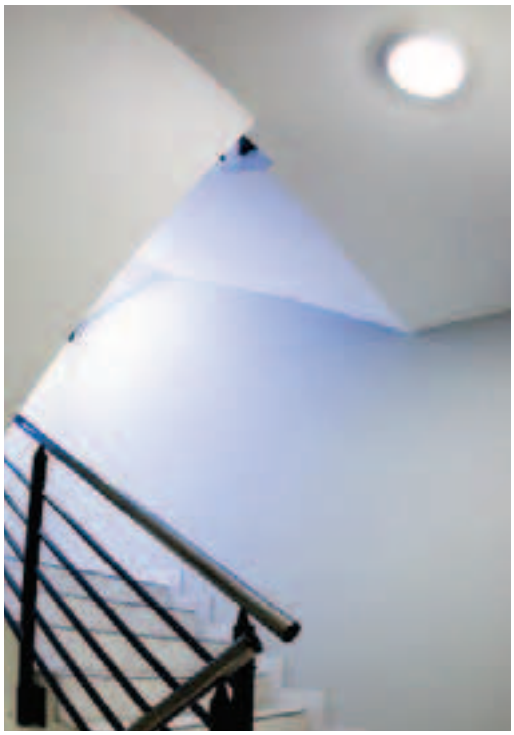
Ceiling cutout 330 mm when semi-recessing.

Banded trim accessory



Order Code	Trim Colour
CLQ/GB	
CLQ/SB	
CLQ/WB	
CLQ/BKB	
CLQ/SR	Semi-recessing kit

Ceiling cutout 330 mm when semi-recessing.



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EMERGI-LITE

Aesthetically pleasing, robust luminaire.

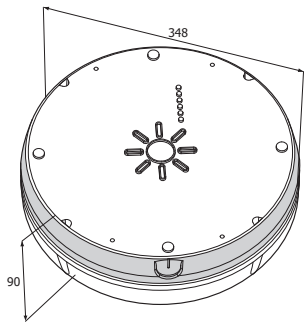
- 28 Watt 2D high power luminaire
- Slim-line design for escape route and open area lighting
- Polycarbonate luminaire body with clear light optimised diffuser
- Hinged geartray for easy access
- Semi-recessing accessory available
- Designed and manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary

Naveo IR2

Luminaire

Order Code	Input Voltage	Lamp Type	Power Cons. Mains/ Self-contained	Lamp Output Mains/ Self-contained	Operation / Duration (hrs)	Recharge Period	Environment	Weight
CPW28NM	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / 250 mA	1800 / 250 lumens	NM3	24 hours	0 - 25 °C	3.0 kg
CPW28M	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / 250 mA	1800 / 250 lumens	M3	24 hours	0 - 25 °C	3.0 kg
CPW28PHF	220 - 240 Vac, 50/60 Hz	28 W 2D	200 / - mA	1800 / - lumens	230 V	-	0 - 25 °C	2.8 kg

Dimensions



Ceiling cutout 346 mm when semi-recessing.

Accessories

Order Code	Description
CPW/BZ	Semi-recessing bezel

For Cordona spacing data, see page 89.
For accessory drawings, see page 93.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

Portable Work-Lite

Portable emergency luminaire.

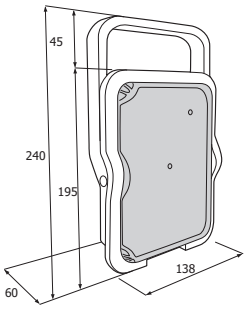
- High brightness, high power, focused beam LED light source
- Ideal for installers, maintenance or security personnel
- Durable polycarbonate body with clear polycarbonate diffuser
- Half power illumination (45 lumens for 3 hours) or full power (100 lumens for 1 hour)
- Carrying handle with variable ratchet positioning
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in France

Luminaire

Order Code	Input Voltage	Lamp Type	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
PWL113E	220 - 240 Vac, 50/60 Hz	LED	100 / 45 lumens	NM1 / NM3	24 hours	0 - 25 °C	0.7 kg

The slim-line Portable Work-Lite includes a wall mount and recessed socket for mains connection, plus adjustable carry handle for directional emergency lighting.

Dimensions



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EMERGI-LITE

Industrial

- *A high quality range of durable luminaires for industrial, warehousing or specialist projects*

Twin beam emergency lighting.

- Ideal for indoor use in smaller warehouses, factory spaces and industrial open areas
- Can be mounted upright on a wall or stanchion
- 20 Watt tungsten halogen lamps with polycarbonate lenses
- Mild steel enclosure with white powder coat
- Optional battery retaining clamp, or time delay feature
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary

Twin beam unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output*	Operation / Duration (hrs)	Recharge Period	Environment	Weight
HV203	220 - 240 Vac, 50/60 Hz	2 x 20 W TH	100 mA	600 lumens	NM3	24 hours	0 - 25 °C	7.8 kg

For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.
* Total lamp output for all lamps on unit.

Options

Order Code	Description
Suffix TD	Run on timer (20 W version only) to support slow start mains luminaires

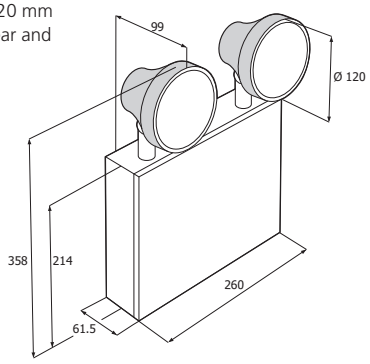
Accessories

Order Code	Description
HVBC	Battery retaining clamp
HLWG	Protective wire guard

For Range-Lite spacing data, please contact Emergi-Lite.
For accessory drawings, see page 93.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

Dimensions

Cable entry via 20 mm knockouts on rear and sides of unit.



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Twin beam emergency lighting.

- Ideal for indoor use in larger warehouses, factory spaces and industrial open areas
- Can be mounted upright on a wall or stanchion
- 55 Watt tungsten halogen lamps
- Mild steel enclosure
- Single lamp option available
- Optional time delay feature to support slow start mains luminaires
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary

Twin beam unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output*	Operation / Duration (hrs)	Recharge Period	Environment	Weight
HL551	220 - 240 Vac, 50/60 Hz	2 x 55 W TH	100 mA	1800 lumens	NM1	24 hours	0 - 25 °C	7.8 kg
HL551PC	220 - 240 Vac, 50/60 Hz	2 x 55 W TH	100 mA	1800 lumens	NM1	24 hours	0 - 25 °C	7.8 kg
HL1553	220 - 240 Vac, 50/60 Hz	1 x 55 W TH	100 mA	900 lumens	NM3	24 hours	0 - 25 °C	7.8 kg

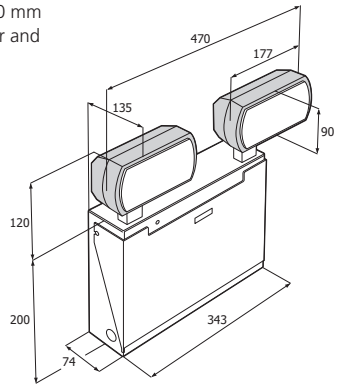
For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue. HL551PC includes polycarbonate lenses.
* Total lamp output for all lamps on unit.

Options

Order Code	Description
Suffix TD	Run on timer

Dimensions

Cable entry via 20 mm knockouts on rear and sides of unit.



Accessories

Order Code	Description
HLWG	Protective wire guard

For Range-Lite spacing data, please contact Emergi-Lite.
For accessory drawings, see page 93.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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Twin beam emergency lighting.

- Rated for external use with battery and electronics enclosure sealed to IP65
- Remote mounting lamps with horizontal and vertical head adjustment
- Polycarbonate enclosure with screw locked front panel
- Meets the anti-glare requirement when projectors mounted at least 30° above the line of sight
- Optional time delay feature to support slow start mains luminaires
- Designed & manufactured to meet the requirements of BS EN 60598.2.22
- Manufactured in Hungary

Naveo IR2

Twin beam unit

Order Code	Input Voltage	Lamp Type	Power Consumption	Lamp Output*	Operation / Duration (hrs)	Recharge Period	Environment	Weight
HL203E3	220 - 240 Vac, 50/60 Hz	2 x 20 W TH	100 mA	600 lumens	NM3	24 hours	0 - 25 °C	7.6 kg
HL551E3	220 - 240 Vac, 50/60 Hz	2 x 55 W TH	100 mA	1800 lumens	NM1	24 hours	0 - 25 °C	7.6 kg

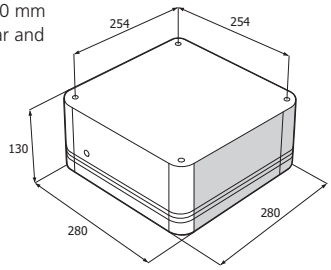
For AC/AC or AC/DC slave units please refer to our EMEX Central Power Supply Systems Catalogue.
* Total lamp output for all lamps on unit.

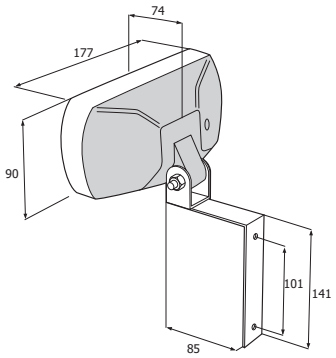
Options

Order Code	Description
Suffix TD	Run on timer

Dimensions

Cable entry via 20 mm knockouts on rear and sides of unit.





For Range-Lite spacing data, please contact Emergi-Lite.
For further information on Naveo and IR2 emergency luminaire testing formats, see pages 73 - 77 or contact Emergi-Lite.

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EMERGI-LITE

High specification road tunnel safety luminaire.

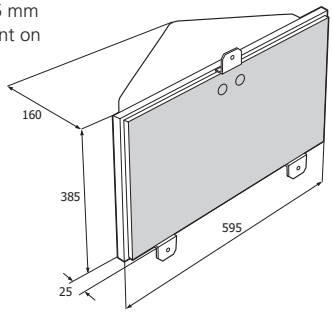
- Designed to cope with the most demanding environments - tunnels, industrial complexes etc
- Ideal where substantial directional sign viewing distances are required
- Angulated style for improved passageway visibility
- Cold cathode energy saving lamp with 40% energy saving over comparable fluorescents
- Stainless steel body, opal polycarbonate diffuser
- Legend to suit user requirement
- Manufactured in the UK

Exit sign

Order Code	Input Voltage	Lamp Type	Power Consumption	Operation / Duration (hrs)	Recharge Period	Environment	Weight
ETUNM3-005	220 - 240 Vac, 50/60 Hz	CCFL	40 mA	NM3	24 hours	0 - 25 °C	7.2 kg

Dimensions

Cable entry via 25 mm glanded entry point on rear of unit.



Legends

For specific projects, legend information will differ dependent on location and particular requirements. To specify this product please contact Emergi-Lite Technical Sales department.

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EMERGI-LITE

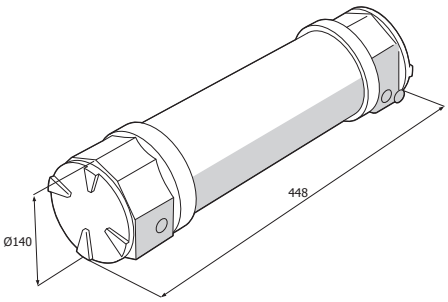
Explosion proof luminaire.

- IP66 to IEC529 rated - explosion proof and waterproof
- Suitable for Zone 1 and Zone 2
- 2 x M20 - ISO (1 plugged) cable entry
- Corrosion resistant light alloy body and end cap with a polycarbonate overtube
- 4 wire and earth terminals with loop facility (max. cable size 4 mm²)
- Certification Code: EEx d IIC T6; Certification Standard: EN50014-018; Certifying Authority: SIRA, ATEX
- Manufactured in the UK

Luminaire

Order Code	Input Voltage	Lamp Type	Lamp Output	Operation / Duration (hrs)	Recharge Period	Environment	Weight
XP2312	220 - 240 Vac, 50/60 Hz	8 W T5	100 lumens	NM3	24 hours	0 - 40 °C	5.5 kg
XP4322	220 - 240 Vac, 50/60 Hz	8 W T5	100 lumens	CNM3	24 hours	0 - 40 °C	5.5 kg

Dimensions



EEx d IIC T6 flameproof luminaire, to Gas Group IIC (hydrogen), capable of withstanding a maximum temperature of 85°C

Information summary for guidance only

For detailed information on hazardous area requirements please consult the British Standard code, BS 5345.

Code of Practice

BS 5345, the UK Standard for hazardous area equipment, installation and maintenance gives guidance relating to:

1 > **The degree of protection suitable for the hazardous zone**

2 > **The gas groups of any gases or vapours**

3 > **The temperature classification of the gases or vapours**

For further information on this product, or for discussion of hazardous area lighting using the Hazard-Lite or DTS product range of explosion proof luminaires, contact Emergi-Lite.

Zone Classification

Zone 0 > An explosive gas-air mixture exists continuously, or for long periods.

Zone 1 > An explosive gas-air mixture is likely in normal circumstances.

Zone 2 > An explosive gas-air mixture is not likely to occur in normal operation and then only for a short time.

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EMERGI-LITE

Testing Solutions

- *Comprehensive range of emergency lighting testing solutions for all sizes of project*
- *Removing the disruption that manual luminaire testing brings to the busy, modern business environment*
- *All testing solutions compliant to IEC 62034*

Naveo®

Addressable emergency lighting testing with cloud-based remote management and monitoring.

Naveo delivers the ultimate solution to managing emergency lighting, by allowing you to control the entire emergency lighting installation, inspection and maintenance process from any point, with system information and reports available at any time.

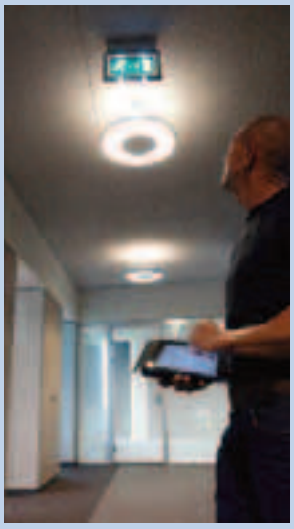
Naveo combines pre-programmable emergency lighting testing with cloud-based electronic record keeping and system management, to dramatically reduce the expense and burden that manual testing, maintenance and fault checking brings.

Building on the success of Emergi-Lite's Centrel addressable testing system, Naveo places control firmly at your fingertips, with immediate access available anywhere via smartphone, tablet, laptop or PC. This innovative approach breaks new ground in enabling end users to manage multi-site emergency lighting systems wirelessly, with system performance and maintenance records held 'in the cloud'.

Furthermore, Naveo is responsive and promotes increased building safety, by supplying maintenance and fault updates via email or text to repair teams, with parts listings by PDF, enabling forward planning of maintenance and spares ordering with ease.

Inspection without Naveo

Inspection with Naveo



The benefits of Naveo are significant:

- Naveo offers a fully customisable solution for emergency lighting testing, irrespective of the size or location of the site, or whether multiple sites are being managed
- Naveo makes your time and resources more productive by saving valuable time spent every year on manual collection and recording of emergency lighting data
- Internet-based Naveo control software holds all system testing and maintenance data securely within an external server, for access anywhere, at any time, via smart-phone, tablet or PC
- Naveo software updates are automatically applied, with new luminaire parts and product information automatically updated in the background
- All Naveo emergency lighting luminaires are individually addressed, making fault assessment and location a simple task
- Automated pre-programmable test schedules provide the status of the lamp, battery and PCB, and upload directly to remote server
- Most of the inspection work can be completed on-screen by simply ticking off emergency luminaire status as 'OK' or 'Defective' on your mobile device or PC
- Preventative alerts and fault updates are provided by email or SMS, with spares requirements by PDF, for optimal forward planning of maintenance
- At the push of a button you have an overview of potential and current maintenance issues, allowing you to structure the data you require
- After an inspection, the Naveo software can generate an EN 50172-compliant PDF log for on-site record keeping and inspection by the relevant authorities, as appropriate
- Naveo system backwards compatible with CT luminaires

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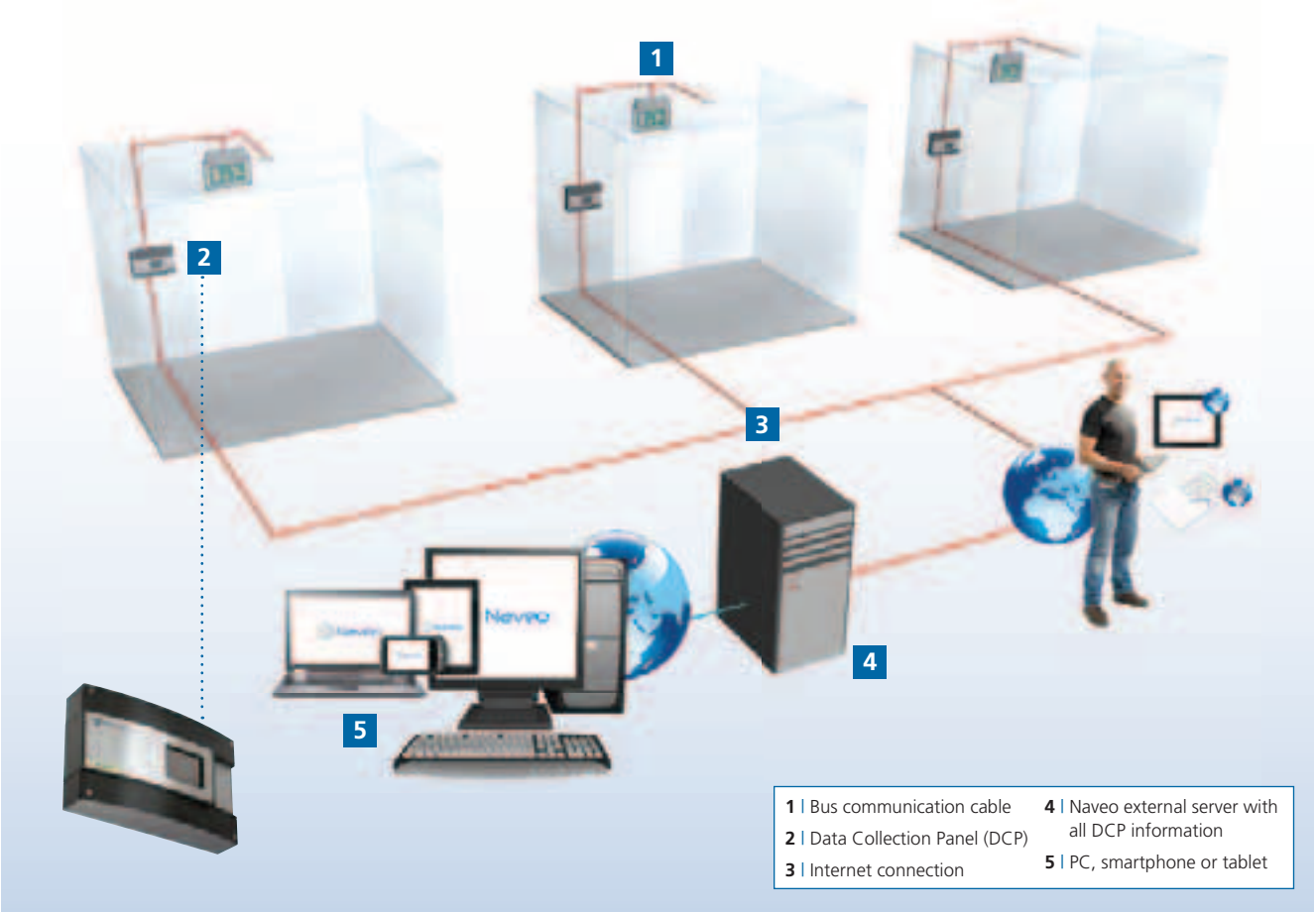
EMERGI-LITE

How does Naveo operate?



1 | Bus communication cable
2 | Data Collection Panel (DCP)
3 | Internet connection
4 | Naveo external server with all DCP information
5 | PC, smartphone or tablet

Each emergency lighting unit includes an individually addressed testing module which conducts functional and duration tests and communicates results to the DCP 2.

Each DCP is designed to collate test data from up to 750 emergency lighting units.

The DCP transfers all data to the Naveo secure external server 4 via an encrypted internet connection 3.

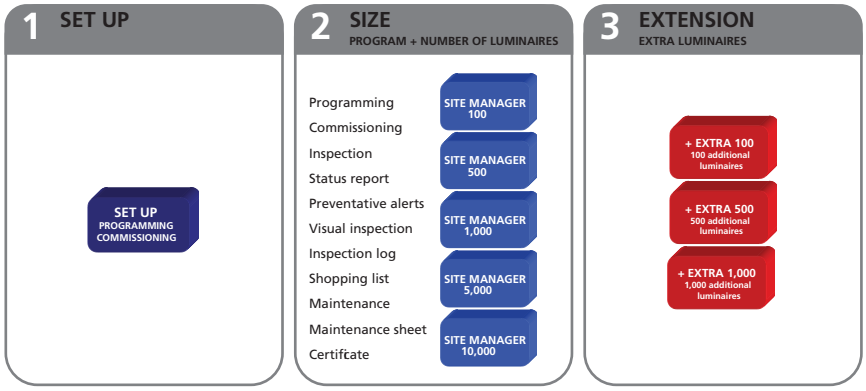
All test results are collated and processed at the external server, with maintenance requirements and faults logged and transmitted to maintenance teams for action, either to PC, laptop, smartphone or tablet 5.

Status information and test reports can be accessed securely from anywhere and any device with internet connection, making maintenance planning simple.

Naveo offers a fully customizable solution to managing emergency lighting:

The Naveo solution offers a convenient range of pricing packages dependent on the size and scope of the installation, enabling customers to tailor to their specific needs.

Additional upgrades can be added at any time to include new emergency luminaires into the system, making the solution highly scalable. For further details, please contact Emergi-Lite.



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EMERGI-LITE

When do you need to test?

Fire Safety Regulations require emergency lighting to be tested in accordance with BS 5266-8 (EN 50172).

Simplified Testing Regime

- Daily check central power supply indicators for healthy operation
- Monthly functional check
- Yearly duration check
- Always keep documented records
- Automatic test devices should meet IEC 62034

What needs to be checked & tested?

- Mains present and healthy
- Battery present
- Battery charging
- Inverter circuit in emergency operation
- Lamp functions and in circuit
- Duration

Effective testing with Naveo

Naveo's comprehensive, technologically advanced approach ensures testing to meet the requirements of BS 5266-8 (EN 50172):

- Naveo tests can be run either manually or automatically
- Unattended tests can be performed using the schedule program
- All automatic test schedules can be easily programmed for the type of test required and for the time the test is to be performed
- All results of tests are stored at the remote server for recall at a later date
- Each luminaire is programmed with an address which is used for interrogation and fault diagnosis

Supporting Naveo installations

Naveo is fully supported through our project sales and technical teams, including:

- Design of the emergency lighting system with Naveo compatible emergency luminaires
- Practical advice on installation matters, such as power and data cable structure, system set-up etc
- Full commissioning of the system, pre-operation, from our highly experienced field service team
- Maintenance contracts, available as required to support the installation, for added peace of mind
- Project after-sales support, with project files retained by our service department so that preparation of additional luminaires as required is a straightforward task

Technical literature & advice

Please contact a member of our sales team for full details and advice on Naveo, including:

- Technical design guide, providing in-depth technical information on the system
- System demonstrations, arranged at your own premises or at our head office for an informed assessment of the system and software capabilities

Additionally, a separate brochure explaining the Naveo solution in full is available on request.

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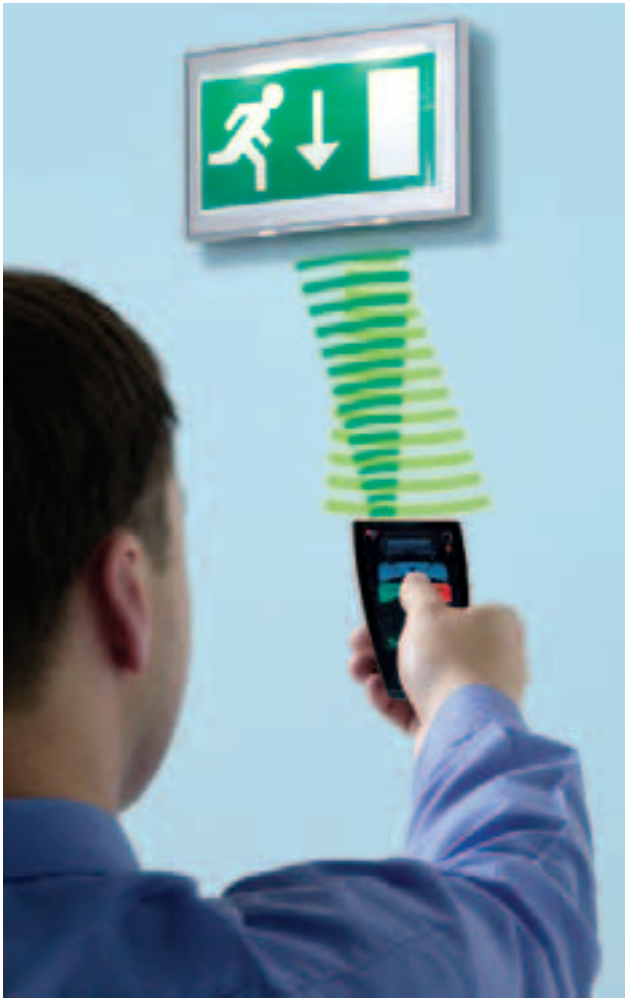
EMERGI-LITE

Advanced infra-red emergency lighting testing system

IR2 is a safe, fast and easy way to test emergency lighting, offering the user a simple walk test process to interact with the emergency lighting system.

IR2 offers unprecedented flexibility including:

- Choice of automatic or manual testing
- Upload and download capability
- Simple Self-Test as standard
- Handheld interaction with luminaires so no need for ladders or keyswitches
- Luminaire status information indicated by green/amber LED
- Choice of a simple 'test-only' transmitter (IR2-TX) or intelligent bi-directional handset (IR2-TESTWARE™)
- Data management via PC



Testing can be done using the IR2-TX, 'test-only' transmitter, or the intelligent bi-directional handset (IR2-TESTWARE™ package), which tests, interrogates and reports. IR2-TESTWARE™ allows the user to view the results on small screen, or, as desired to download them to a PC to produce automated reports.

Key benefits and features

- **Easy to operate:** users become familiar with the control device in a very short amount of time - indicator interpretation is straightforward
- **Effective testing:** luminaire status is clearly given. The user will be able to fault find and plan maintenance efficiently
- **No extra wiring:** Eliminates the need for key switches
- **Zero impact:** the fabric of the building remains unaffected (no additional wiring, no building works and no need for redecoration)
- **Promotion of safety awareness:** users find the test method interesting and interactive
- **Cost and time savings:** reduced installation effort with less wiring and lower maintenance times allied with the ability to plan maintenance schedules better
- **Regulation compliance:** BS & EN standards requirements for testing emergency lighting luminaires are met by using the IR2 system
- **Compatibility with existing schemes:** new product developments are backwards compatible with the original Flashpoint IR system
- **Proven reliability:** IR2 has been proven in the field for many years. Recent hardware and software updates have maintained technical advancements

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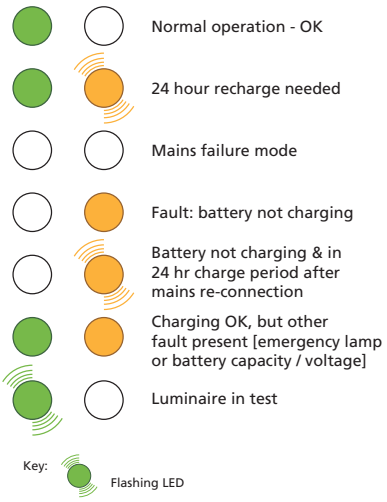
Optional Self-Test operation

- Self-Test is an option, which is pre-set in the factory and can be programmed from the bi-directional IR2-TESTWARE™ handset
- If a test is not performed in 12 months an automatic duration Self-Test will take place. The 'Self-Test' interval can be programmed between 2 and 365 days (factory pre-set to 12 months)
- Self-Test can be inhibited
- Internal timing in the luminaire is synchronised with the mains frequency for accurate control
- LED indicators on the emergency luminaire identify faults locally. A Self-Test status report can be downloaded to the bi-directional handset

LED indication

Each luminaire has a transmitter/ receiver module fitted with green and amber LED indicators. The LED lit colours give the luminaire status.



IR2-TESTWARE™

Bi-directional handset comprising handset, PCLINK software and USB interconnect cable.

- For testing, interrogating and reporting the condition of IR2 fitted luminaires
- OLED (organic LED) screen
- 4 button menu system with large control buttons
- Backwards compatible with Flashpoint IR (IR1) systems
- Optional password entry protection
- The unit gives instant status report of all emergency luminaires in detail
- Onboard memory with storage capacity for 2000 records
- Download information into a spreadsheet format for automated record keeping and assessment
- USB socket, USB interconnect cable provided for PC link
- Allows maintained to non-maintained switching

Order Code	Description
IR2-TESTWARE™	Intelligent control package; hand-held luminaire interrogator/tester, PC-LINK software, USB cable and instructions

IR2-TX

Initiates test sequence (tests for a 3 hour duration and automatically resets back to the normal condition).

- Status notified by green and yellow LED indicators on the luminaire
- Reset the luminaire to normal operation (to test for brief operation)
- Backwards compatible to Flashpoint IR (IR1)

Order Code	Description
IR2-TX	IR2 test transmitter

Comprehensive product range

A full range of exit signs and luminaires are available with IR2. Look for the IR2 symbol on individual product pages.

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Self-Test emergency lighting testing system

Current regulations stipulate periodic mandatory testing of an emergency lighting system to ensure the correct operation of the system in the event of a mains failure, together with compilation of all corresponding documentation.

The Regulatory Reform (Fire Safety) Order 2005 and Fire (Scotland) Act 2005 place responsibility for the testing of emergency lighting systems firmly with the owner or occupier of the building.

Manual testing and the compilation of records can prove expensive, time-consuming, and disruptive to commercial activities.

Emergi-Lite Self-Test offers an easy and cost effective solution for regular testing of emergency lighting, without requiring programming or complex set-up procedures.

It provides continuous monitoring of the mains and battery status, together with a regular testing regime designed to meet mandatory requirements.

Key features of Self-Test

- Simple and dependable automatic testing
- Easy installation
- Tests the battery, charger and lamp
- Each luminaire works independently in the event of an emergency
- Available in a variety of luminaire types
- Visual fault identification
- Runs tests in background mode
- Ability to stagger luminaire testing

Automatic compliance to prescribed intervals

An Emergi-Lite Self-Test automatically runs a commissioning routine when the mains is switched on initially. An onboard clock/calendar microprocessor ensures the appropriate tests are carried out at the allocated time-period. Test functions include continuous monitoring, monthly, annual and staggered periodic testing plus a push-button test.

Comprehensive product range

A full range of exit signs and luminaires are available with Self-Test. Look for the Self-Test symbol on individual product pages.

Note: Serenga, Aqualux ranges and Horizon LED exit signs include in-built intelligent self-testing within standard units.

Product example - Serenga Escape

The illustration below highlights the intelligent Self-Test testing facility built into the base of the smart-frame of all Serenga Escape exit signs.

Test operation

Green LED indicates normal operation.

Amber LED indicates a fault.

Our Serenga/Aqualux ranges and our Horizon LED exit signs are supplied with in-built self-testing feature.

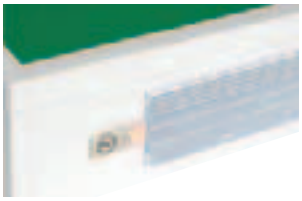
Product example - Navigator Compact

Our standard product range is available with Self-Test as an option. Contact Emergi-Lite for further details and specific product codes.

Green and amber LEDs indicate luminaire status, as below:

Test operation

Green LED indicates normal operation.



Amber LED indicates a fault.

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Reference and Design

- ***Specific guidance on emergency lighting types and application, in line with BS EN 60598.2.22 and BS 5266 / EN 1838***
- ***Key reference point for dimension drawings and essential spacing data for our luminaire and exit sign range***

The requirement for emergency lighting originates from the Fire Precautions Act 1971 and was further enforced by the Fire Precautions (Workplace) Regulations 1997 (Amended 1999).

The Regulatory Reform (Fire Safety) Order, FSO came into force in October 2006 and now replaces all previous fire safety legislation.

The key considerations from the Fire Safety Order are:

- The FSO creates one simple fire safety legislative control for all workplaces/non-domestic premises
- Control is fire risk assessment based, with the responsibility for fire safety resting with the 'responsible person' for the premises
- All persons inside the building/in the vicinity who might be affected by a fire must be protected
- Employees will be required to act upon the fire risk assessment, make remedial arrangements accordingly and maintain the fire precautions
- Failure to comply with the rules would be a breach of law, with the consequence of enforcement or prohibition notices being served

The fire safety risk assessment is a legal requirement, and where a site has 5 or more employees the risk assessment must be documented.

Fire certificates under the Fire Precautions Act 1971 are now no longer valid. Guidance documents on the new Fire Safety legislation have been published and the appropriate ones must be consulted as part of the overall fire risk assessment.

Other important legislation and regulations, such as The Buildings Regulations and The Health and Safety "Safety Signs and Signals" Regulations 1996, also have a requirement for emergency lighting and must be considered as part of the design and specification.

A number of standards have been devised to provide guidance on application of emergency lighting in line with legislative requirements, and to determine the quality of product to be specified.

The major standards to be considered when designing a high-level emergency lighting system are:

- **BS 5266-1, -7 and -8**
  This standard sets the guidelines for installation of emergency lighting, as to the location and frequency of emergency luminaires and exit signs, and the minimum lighting levels required
- **BS EN 60598.2.22**
  This is the product standard which establishes the performance requirements of emergency lighting luminaires and internally illuminated exit signs
- **IEC 62034**
  This standard defines the requirement for automated testing systems for emergency lighting
- **ICEL1001, ICEL1004 & ICEL1009**
  Guides and registration schemes provided by the Industry Committee for Emergency Lighting which define enhanced performance requirements for the differing types of emergency lighting, backed by independent testing

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General requirements for emergency lighting (BS 5266-1, -7 and -8)

If emergency lighting is required it should:

- Indicate the escape routes clearly with exit signs so there is no doubt which is the way out
- Ensure fire safety equipment such as fire alarm call-points, fire extinguishers etc can be located
- Illuminate escape routes, and open areas used in escape routes so that obstacles can be avoided
- Provide illumination for high risk task areas to allow the processes to be shut down safely

Any point on an escape route or leading to it must have an exit sign so that direction of travel is never in doubt. Internally illuminated exit signs offer the most effective method of achieving the requirement, and have a viewing distance twice that of exit signboards - see right. (Note: where exit signboards are installed, these must now have 5 lux illuminance on the sign to meet the requirements on BS 5266 / EN 1838 - for practical purposes unachievable through use of converted mains luminaires).

Points of emphasis

Mandatory points of emphasis have been established where directional signage or specific illumination is required. These are:

1. Near an exit door
2. Near changes of direction
3. Near stairs and changes of level
4. Near the intersection of a corridor
5. Near each piece of fire-fighting equipment or manual call point
6. Near each First Aid point

Exit signs

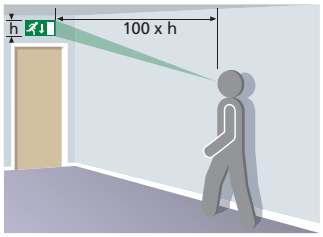
Designated legend formats

European pictogram format signs are acceptable, as are ISO 7010 format signs, although there should not be a mixture of both within an installation.

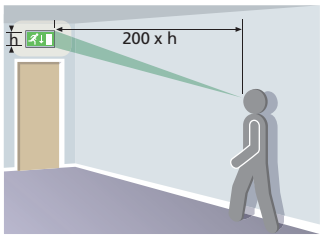
Text only signs are no longer acceptable and should have been withdrawn.

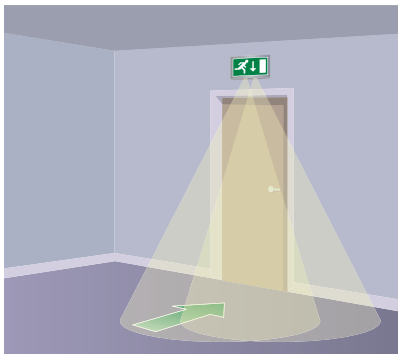
Maximum viewing distances

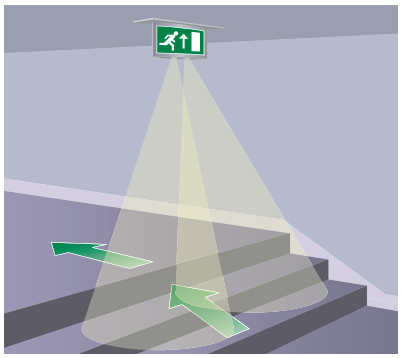
Exit sign boards have a maximum viewing distance defined as 100 x the height of the sign (h), in metres.

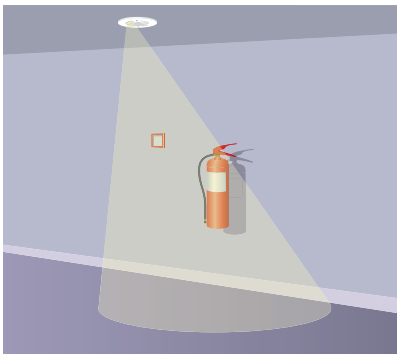


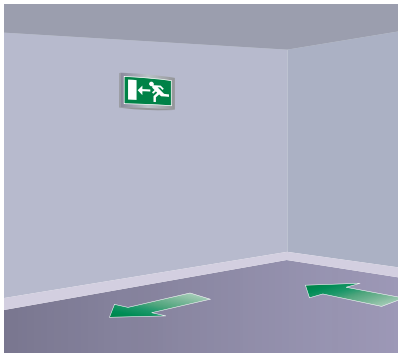
For illuminated exit signs, the maximum viewing distance is defined as 200 x the height of the sign (h), in metres.

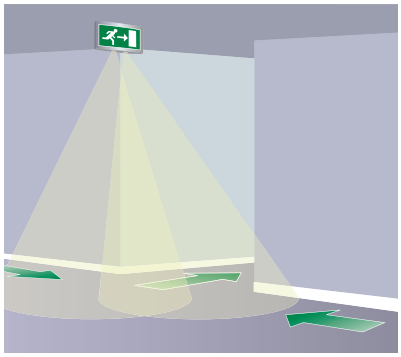


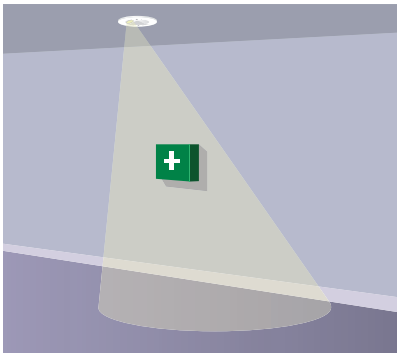












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In addition to these points of emphasis, the following need to be considered when planning emergency lighting.

Escape routes

A defined escape route of 2 m width must be illuminated to a minimum of 1 lux along the centre line *(see right)*.

Open areas (anti panic)

Open areas must be illuminated to 0.5 lux minimum in the core area *(see below right)*. This also applies to areas with undefined escape routes, in halls or areas greater than 60 m².

High risk task areas

This refers to areas normally associated with moving machinery, dangerous materials or processes, and other areas of high risk where hazards may continue after mains lighting failure. Illuminance levels should be maintained at 10% (or over) of the normal lighting level or 15 lux, provided within 0.5 seconds, to allow for safe egress and/or termination of processes. For high risk task areas, the lux requirement is calculated at the plane of the task rather than floor level.

Additional areas

Additional areas not part of the escape route still require illumination as people may be located there and/or measures may be required to ensure the safety of persons or processes. These areas include kitchens, first aid/operating rooms, lifts, refuge areas, escalators and moving walkways, toilets larger than 8 m² (or smaller without borrowed light), disabled toilets, small lobbies and pedestrian routes within covered car parks.

Luminaire mounting height

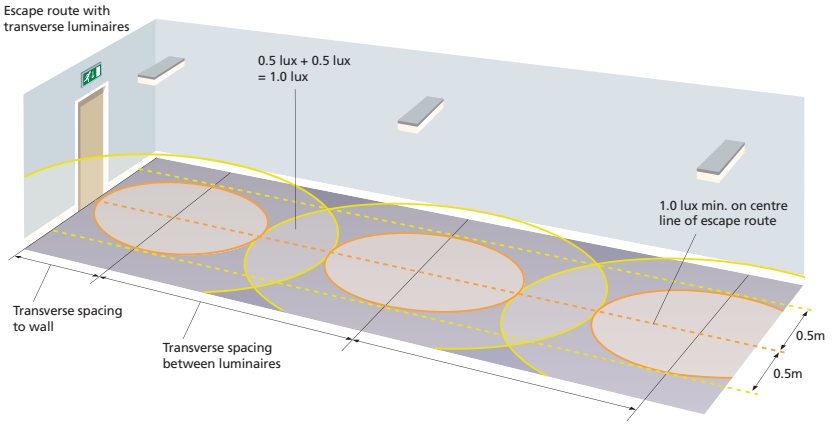
Emergency luminaires should be mounted at least 2 m above the floor. There is no upper limit but luminaires should be fitted below smoke level if there is a significant risk of floor illumination being affected.

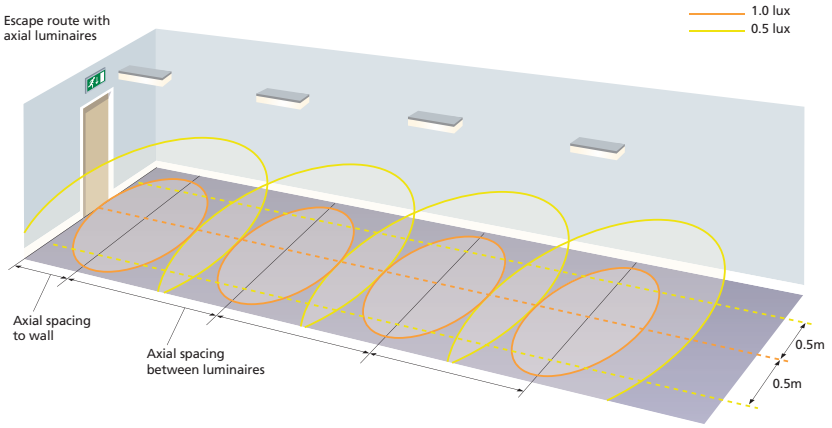
System integrity

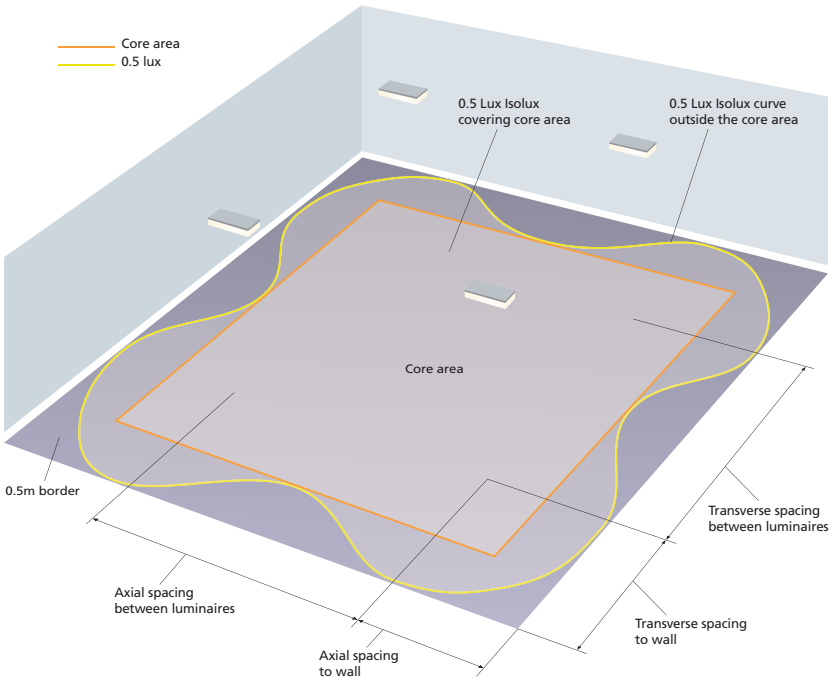
All compartments should include two or more emergency luminaires to counter the risk of emergency luminaire failure.

Stand-by lighting

If stand-by lighting is used as emergency lighting it should conform to all the requirements of emergency lighting.







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Specific location requirements

BS 5266 stipulates light levels, response and duration times for specific locations within premises, and for specific activities, including:

- Kitchens
- First Aid rooms
- Examination and treatment rooms
- Refuge areas for the mobility impaired
- Plant rooms, switch rooms and emergency winding facilities for lifts
- Reception areas
- Crash bars or security devices at exit doors
- Inspection of the condition of fire control and indicating equipment

A table showing the illuminance recommendation for these specific locations and requirements can be found in BS 5266-1.

Emergency lighting systems

There is a varied range of emergency lighting available to suit different budgets, decors, building requirements, colours and specifications. The types and categories available for specification are:

Types of emergency lighting

- **Self-contained**
  Each luminaire contains a battery and electronic circuitry to charge batteries and operate the lamp.
- **Slave**
  Luminaires are powered from a central system.
- **Conversions**
  Almost any mains fluorescent luminaire can be converted for emergency use. Emergi-Lite is registered to ICEL 1004 to undertake emergency lighting conversions at our head office facility in Leeds, UK.

Categories of emergency lighting

- **Non-maintained (NM)**
  Luminaires operate when the mains fail.
- **Maintained (M)**
  Luminaires operate when the mains fail, but can also be operated if required using a switch when the mains supply is healthy.
- **Combined Non-maintained (CNM)**
  The luminaire contains more than one lamp, one of which is mains operated, the other is for emergency use only. When the mains is healthy one or more lamps operate, but should the mains fail the emergency lamp operates.
- **Combined Maintained**
  Similar to combined non-maintained, but when the mains supply is healthy both lamps operate, whereas on mains failure only one lamp operates.

CE marking alone on an emergency lamp does not necessarily imply that the product will work in an emergency situation. All emergency lighting must be designed and manufactured to meet the requirements of BS EN 60598.2.22, the established product standard.

Emergency lighting products may be independently certified and approved as a means of proving quality in the product, thereby giving an enhanced level of assurance to the installer, and greater confidence and less risk in the work he performs. Emergency lighting independently tested and carrying the approval of a recognised national standards body, such as the BSI Kitemark or European ENEC mark, serves this purpose.

Selecting products from a reputable manufacturer also serves to assure that products and services supplied will perform satisfactorily. National certification bodies such as BAFE - British Approvals for Fire Equipment - provide, through schemes such as SP203-4, third party certification and recognition that emergency lighting manufacturers have competency in undertaking design, installation, commissioning and maintenance of such systems.

Emergi-Lite is a core member of the BAFE scheme.

Testing and maintenance of emergency lighting

Fire legislation requires the safety systems within a building to be tested and maintained to ensure correct working order.

The major standards for emergency lighting establish the testing requirement, and that testing and maintenance should be done by a "competent person" (trained, with appropriate skills and experience).

Automated testing solutions are available to assist with the testing requirement, such as the Self-Test, IR2 infra-red and Naveo addressable testing solutions available from Emergi-Lite *(see pages 72 - 78 of this catalogue for more details on these solutions).*

For automated testing solutions, IEC 62034 provides specific guidance for luminaire testing, including:

- Testing should be undertaken during periods of low risk
- Tests should be performed at the appropriate times for the correct duration
- Testing should prove the emergency circuit operates correctly, and that the battery powers the luminaire for the duration of the test
- Results of the test should be reliably indicated

Within the IEC 62034 Standard, test systems for both self-contained and centrally powered emergency lighting systems are covered.

For further information about emergency lighting standards and legislation, or the testing requirement, contact Emergi-Lite direct or visit our website www.emergi-lite.co.uk for a copy of our latest technical guide *(see page 98 for more details)*.

Checklist for emergency lighting system design

Point	Establish	Action
1	Establish position of fire equipment, position of hazards such as steps, changes of direction, stairs, first aid points etc.	Provide an emergency luminaire near (within 2 m horizontally) of each of these points of emphasis.
2	Establish designated exit doors, points on escape routes or open areas where a sign is required to make the exit obvious.	Provide exit signs with arrows if necessary, observing the maximum viewing distances of the exit sign type.
3	Establish the need for external escape lighting.	Provide emergency luminaires so that people can proceed outside to a place of safety.
4	Establish the escape routes and establish mounting heights of luminaires above the floor.	Position luminaires along parts of the escape route not already illuminated near the above points to provide 1 lux minimum along the centre line and 0.5 lux minimum in the 1 m central band. Use published data in the form of spacing tables for the luminaires to determine the positions taking into account the mounting height.
5	Establish the open areas used as escape routes and other open areas larger than 60 m^2 and establish mounting heights of luminaires above the floor.	Provide 0.5 lux minimum in the core area. Use published data (as above) to determine the positions.
6	Establish the position of lifts, escalators, toilets, control/plant rooms, pedestrian walkways in covered car parks.	Provide emergency luminaires in all of these areas.
7	Establish the location of any first aid point or fire equipment not on an escape route or open area.	Provide 5 lux emergency illuminance on the floor in the vicinity of the point. This also applies for a first aid room.
8	Establish the toilet areas.	Provide emergency lighting for toilets larger than 8 m^2, as if they were open areas. For toilets smaller than 8 m^2, unless illuminated by borrowed emergency light from another area, provide at least one emergency luminaire. Provide emergency lighting to all disabled toilets.
9	Establish any small lobbies with no borrowed light.	Provide emergency lighting.
10	Establish any central power supply (if used) is in an area of low risk away from other switchgear or plant.	Position the central power supply in its own room in fire-proof construction.
If the building use is known :		
11	Establish any need for stand-by lighting.	Provide generators as required. If the response time is longer than 5 seconds, then transitional, alternative or additional emergency lighting must be provided.
12	Establish any special needs for the occupants such as impaired mobility or impaired sight.	Provide additional emergency lighting to reduce the risk to those people to help them evacuate the premises. This applies to designated refuge areas (which may require the provision of emergency voice communication).
13	Establish the location of any high risk task areas and the normal lighting illuminance (lux) in these areas.	Provide 10% of the normal illuminance (lux) or 15 lux minimum.
14	Establish if there are any dust or dirt problems.	Allow a service factor as appropriate. 0.8 is allowed for normal areas, but for dusty environments 0.5 may be required, or alternatively instigate a regular cleaning procedure.
15	Establish any local regulations.	Provide emergency lighting to comply with the regulations.
16	Establish if there is any dimmable lighting and shopping malls.	Provide maintained emergency lighting.
17	Establish whether people would be "unfamiliar" with the escape routes.	Provide maintained exit signs.
18	Establish the use of the premises: • entertainment (including temporary such as licensed evening dance at a school) • sleeping risk • residential special care • non-residential care • public access non-residential • industrial • multi-storey dwelling over 10 storeys	Recommended Minimum Duration: 3 h 3 h 3 h 1 h 1 h 1 h 3 h
	Note : because the duration times are varied, it is customary in the UK to use 3 h.	

Note: for points 5 and 6 the luminaires positioned near points of emphasis can be moved slightly within the 2 m horizontal tolerance to fit in with the spacing or array of emergency luminaires in the escape route or open area.

This checklist is for guidance purposes only and does not form an exhaustive list of all requirements to standards and legislation, which should be reviewed when undertaking emergency lighting system design.

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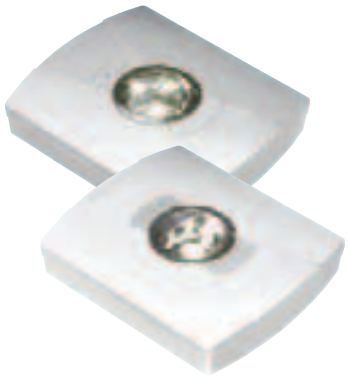
Serenga Escape SER-F

Mount height (m)	SER-F Escape route (min. 1 lux) + normal risk			
3.0	0.9	4.8	4.9	1.0
3.5	-	4.8	4.4	-
4.0	-	4.2	3.5	-

Full product details for Serenga Escape are available on pages 14 - 16.

Serenga Surface Mounted SER-SA & SER-SE

Mount height (m)	SER-SE Escape route (min. 1 lux) + normal risk		SER-SA Anti panic (min. 0.5 lux) open area	
3.0	11.7	3.1	9.2	9.2
3.5	13.4	3.4	10.3	10.3
4.0	14.8	3.7	11.5	11.5
5.0	17.7	4.1	13.2	13.2



Full product details for Serenga Sun-Lite surface mounted are available on pages 19 - 20.

Serenga Sun-Lite SER-DA & SER-DW

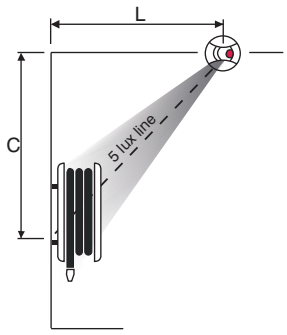
Mount height (m)	SER-DW Escape route (min. 1 lux) + normal risk		SER-DA Anti panic (min. 0.5 lux) open area	
2.5	4.6	10.5	3.1	7.8
3.0	5.2	11.8	3.2	8.2
3.5	5.6	12.9	3.2	8.6
4.0	6.0	14.1	3.1	8.9
5.0	6.7	16.0	2.4	9.1

Full product details for Serenga Sun-Lite escape route and open area downlighters are available on pages 21 - 22.

Serenga Sun-Lite SER-DS

Spotlight: 5 lux on centre of object	
Centre object to ceiling (C)	Luminaire to wall (L)
0.5	0.2
1.0	0.6
1.5	0.9
2.0	1.3
2.5	1.6
3.0	2.0
3.5	2.3
4.0	2.6

Distances in metres



Full product details for the Serenga Sun-Lite spotlight downlighter are available on page 23.

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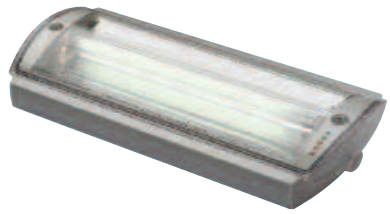
Spacing data tables

Horizon OH / OZ 8 Watt

Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
	↔	↔	↔	↔	↔	↔	↔	↔
2.8	3.8	11.1	5.4	1.9	5.6	14.8	6.8	2.7
3.0	3.6	11.2	5.5	1.8	5.6	15.1	7.0	2.7
3.5	2.6	11.0	5.5	1.4	5.5	15.7	7.4	2.7
4.0	0.8	10.6	5.2	0.7	5.3	15.8	7.6	2.6
6.0	-	-	-	-	-	14.5	7.1	-
8.0	-	-	-	-	-	3.2	2.8	-

Full product details for Previx are available on pages 41 - 43.

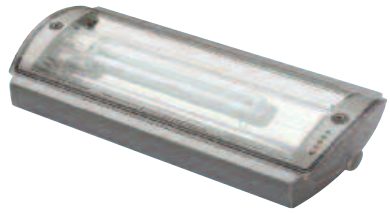
Aqualux OW / STF 8 Watt



Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
	↔	↔	↔	↔	↔	↔	↔	↔
2.8	3.9	9.9	5.8	2.1	4.9	12.0	7.3	2.9
3.0	4.0	10.2	5.9	2.0	5.1	12.3	7.6	2.9
3.5	4.0	10.7	6.0	1.8	5.4	13.2	8.0	3.0
4.0	3.7	11.2	5.9	1.4	5.6	14.0	8.2	2.9
6.0	-	10.1	3.2	-	5.1	16.0	8.2	1.6
8.0	-	-	-	-	-	15.0	5.8	-

Full product details for Aqualux are available on pages 35 - 38.

Aqualux OW / STF 11 Watt



Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
	↔	↔	↔	↔	↔	↔	↔	↔
2.8	4.3	10.7	7.8	3.0	5.3	12.9	9.6	3.9
3.0	4.5	11.0	8.0	3.1	5.5	13.3	9.9	4.0
3.5	4.7	11.7	8.3	3.1	5.9	14.3	10.5	4.2
4.0	4.8	12.3	8.6	3.1	6.2	15.1	11.1	4.3
6.0	2.7	13.0	8.5	1.4	6.5	17.9	12.3	4.3
8.0	-	9.1	5.6	-	4.0	19.0	10.4	2.8

Full product details for Aqualux are available on pages 35 - 38.

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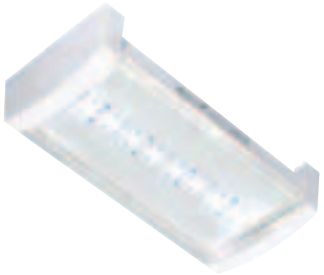
EMERGI-LITE

Previx PX LED

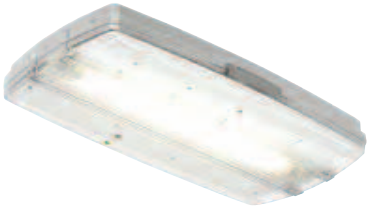
Mount height (m)	Escape route (min. 1 lux) + normal risk			
LED strip				
2.5	2.6	6.9	6.7	2.6
3.0	2.6	7.3	7.2	2.7
4.0	2.3	7.5	7.5	2.4
LED strip plus PX/LENS4 lens kit				
2.5	4.9	11.8	5.4	2.1
3.0	4.7	13.2	5.8	1.8
4.0	3.3	13.7	5.5	1.2



Full product details for Previx are available on pages 41 - 43.

Way-Fer PLX 8 Watt / LED

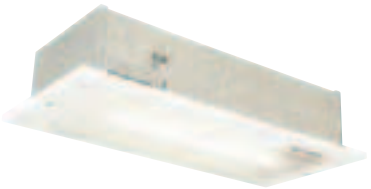
Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
Fluorescent 8 W T5								
2.5	2.8	7.6	5.7	2.1	3.8	9.8	7.1	2.8
4.0	2.2	8.0	6.1	1.7	4.0	11.1	8.3	3.0
5.0	-	7.2	5.7	-	3.6	11.4	8.6	2.8
LED strip								
2.5	2.2	7.3	4.5	1.6	4.0	10.1	6.1	2.3
3.0	2.5	7.0	4.5	0.9	4.2	10.8	6.4	2.3
4.0	-	3.7	2.8	-	3.4	9.8	6.4	1.7



Full product details for Way-Fer are available on pages 45 - 47.

Silver-Lite AR 8 Watt / LED

Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
Fluorescent 8 W T5								
2.5	1.8	5.1	4.7	1.7	2.6	7.2	6.1	2.3
4.0	-	4.7	4.3	-	1.9	7.2	6.2	1.6
6.0	-	-	-	-	-	-	-	-
LED strip								
2.5	2.3	6.0	5.5	2.2	3.1	7.5	7.0	2.8
4.0	1.8	6.3	5.9	1.8	3.2	8.6	7.9	3.0
6.0	-	4.2	4.1	-	2.2	8.8	8.3	2.2



Full product details for Silver-Lite are available on pages 48 - 49.

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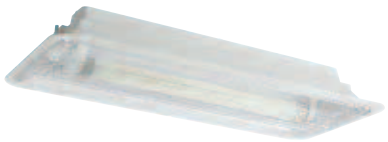
Spacing data tables

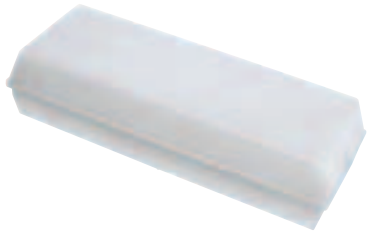
Silver-Scape RB 8 Watt / LED



Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
Fluorescent 8 W T5								
2.5	2.65	7.81	4.53	1.36	5.59	13.57	8.44	3.39
4.0	-	6.89	3.06	-	6.18	16.48	9.92	3.58
6.0	-	-	-	-	5.68	17.59	10.09	2.72
LED strip								
2.5	0.6	5.8	3.3	0.3	3.9	9.3	6.2	1.7
3.0	-	2.7	2.5	-	1.4	8.0	5.9	1.3
4.0	-	-	-	-	-	7.6	3.9	-

Full product details for Silver-Scape are available on pages 54 - 55.

Weatherforce B / WA 8 Watt (opal diffuser)



Mount Height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
2.5	2.2	6.4	5.6	1.9	3.2	8.5	7.3	2.8
4.0	0.7	5.9	5.2	0.4	3.0	9.1	7.8	2.6
6.0	-	-	-	-	-	-	-	-

Full product details for Weatherforce are available on page 58.

Weatherforce B / WA 8 Watt (clear prismatic difuser)

Mount Height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
2.5	1.4	4.5	4.2	1.3	2.6	7.2	6.1	2.3
4.0	-	2.9	3.0	-	1.9	7.2	6.2	1.6
6.0	-	-	-	-	-	-	-	-

Full product details for Weatherforce are available on page 59.

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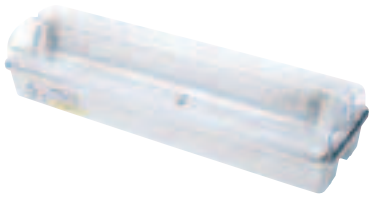
Day-Lite Ex-cel XXW 8 Watt / LED



Mount height (m)	Escape route (min. 1 lux) + normal risk				Anti panic (min. 0.5 lux) open area			
	▯↔▯	▯↔▯	▭↔▭	▭↔▯	▯↔▯	▯↔▯	▭↔▭	▭↔▯
Fluorescent 8 W T5 170 lumens								
2.5	2.9	8.5	4.7	1.6	4.6	12.3	6.4	2.5
4.0	-	7.8	3.9	-	4.2	12.6	6.8	2.0
6.0	-	-	-	-	-	-	-	-
Fluorescent 8 W T5 100 lumens								
2.5	1.65	6.0	3.55	0.5	3.3	9.7	5.2	1.7
4.0	-	2.7	0.5	-	1.0	9.5	5.5	0.7
6.0	-	-	-	-	-	-	-	-
LED strip								
2.5	-	4.3	2.4	-	4.2	8.5	4.2	1.3
3.0	-	4.9	1.0	-	4.9	10.0	4.1	-
4.0	-	-	-	-	-	6.7	2.1	-

Full product details for Day-Lite Ex-cel are available on page 59.

Camarque CLQ 28 Watt / 38 Watt

Mount height (m)	OPAL 28 W 2D Escape route (min. 1 lux) + normal risk	OPAL 38 W 2D Escape route (min. 1 lux) + normal risk
	○↔○	○↔○
2.0	6.0	8.1
2.5	6.3	8.4
3.0	6.5	8.7
4.0	6.5	8.9

Full product details for Camarque are available on pages 62 - 63.

Cordona CPW 28 Watt

Mount height (m)	CLEAR POLYCARBONATE 28 W 2D Escape route (min. 1 lux) + normal risk
	○↔○
2.5	7.9
3.0	8.0
4.0	8.1

Full product details for Cordona are available on page 64.

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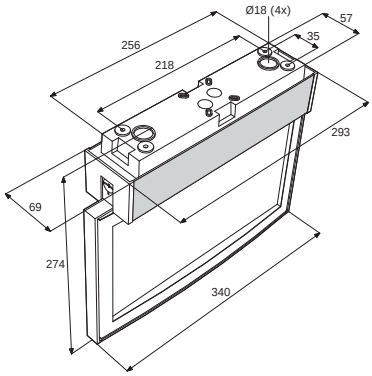
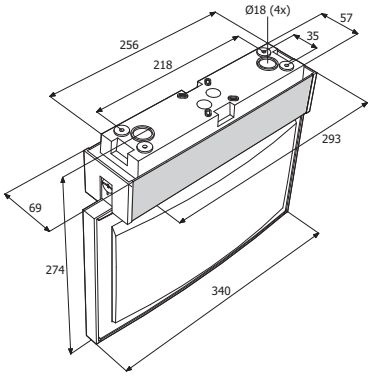
Accessories

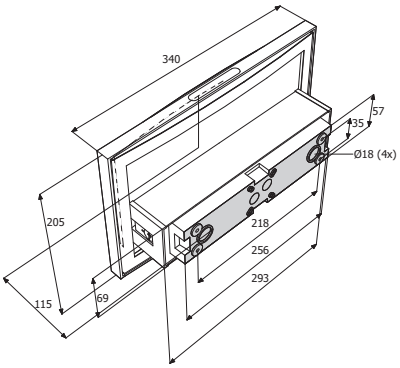
SER-M3-003 + SER-FE2D



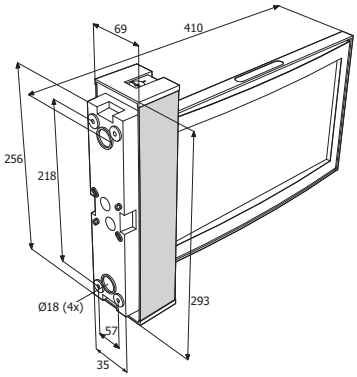
SER-M3-003 + SER-FS2D



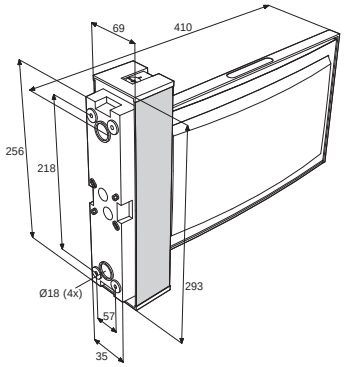
SER-M3-003 + SER-FB4



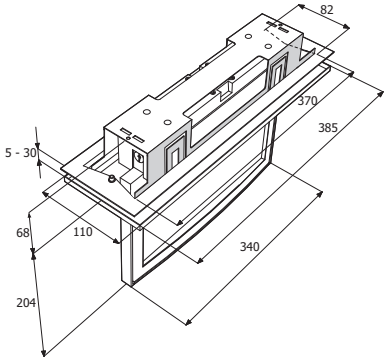
SER-M3-003 + SER-FE2D



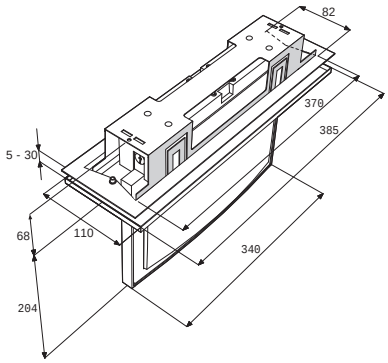
SER-M3-003 + SER-FS2D



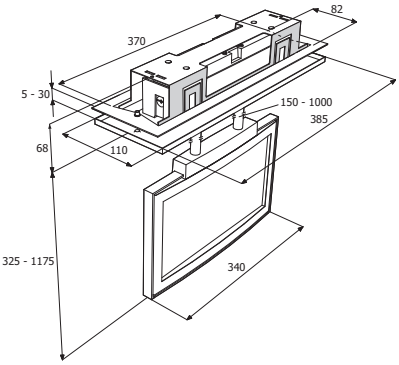
SER-M3-003 + SER-FE2D + SER-BZKIT



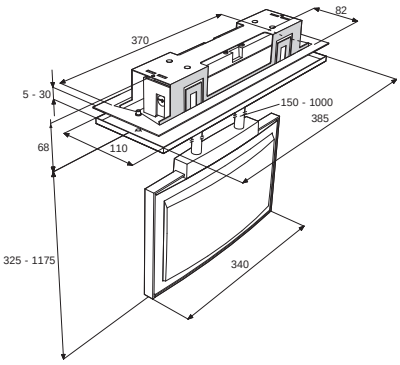
SER-M3-003 + SER-FS2D + SER-BZKIT



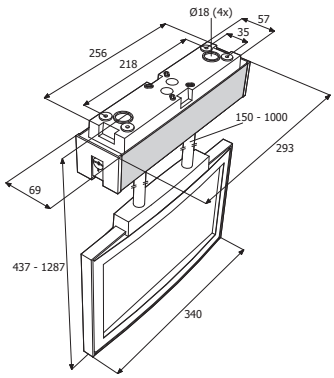
SER-M3-003 + SER-FE2D + SER-BZKIT + SER-RKIT



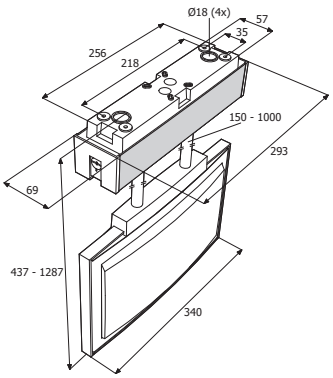
SER-M3-003 + SER-FS2D + SER-BZKIT + SER-RKIT



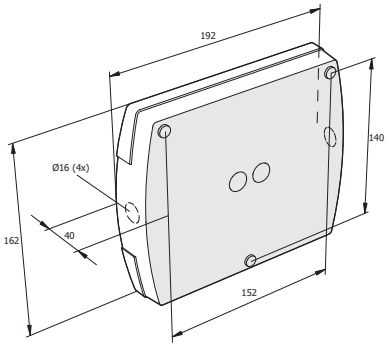
SER-M3-003 + SER-FE2D + SER-RKIT



SER-M3-003 + SER-FS2D + SER-RKIT



SERSAM / SERSEM



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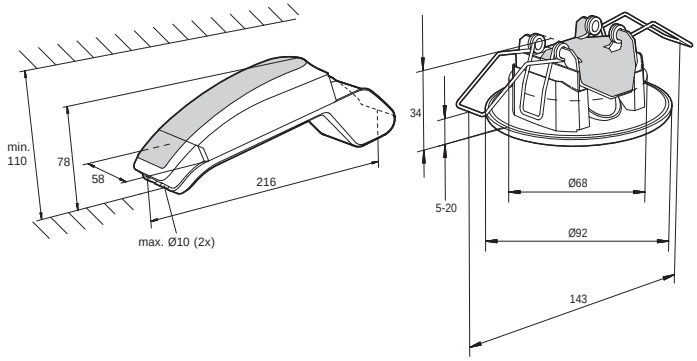
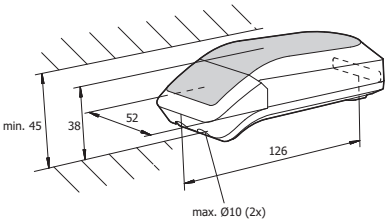
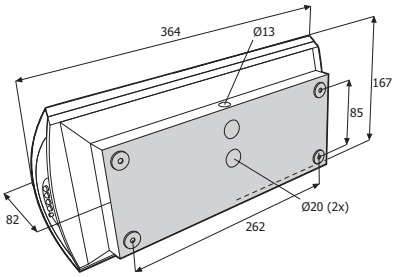
SER-DS / DW / DA



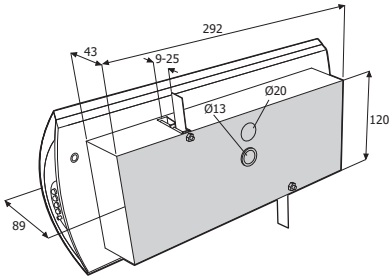
R230 CONTROL MODULE



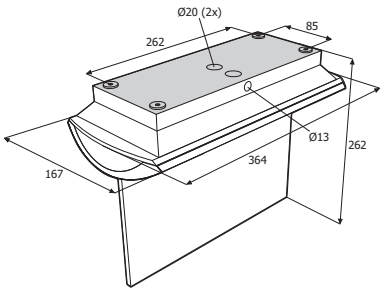
OH + XE



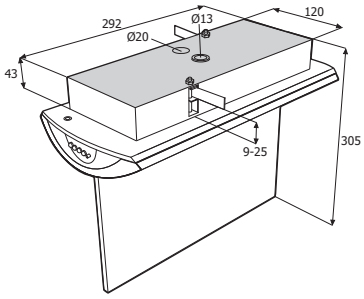
OZ + XE



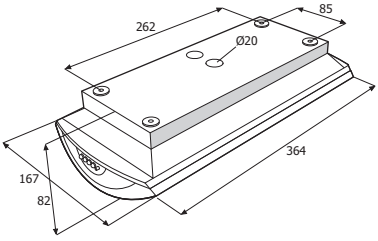
OHD + XE



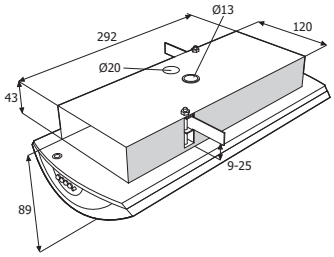
OZD + XE



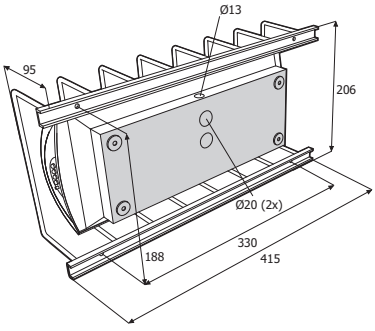
OH



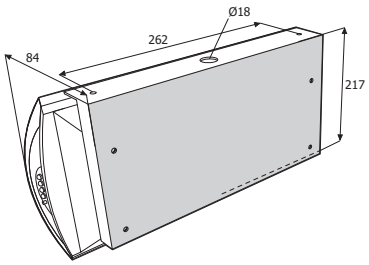
OZ



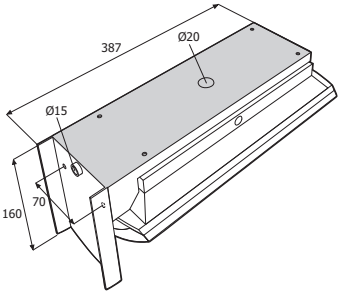
OH + OH/WG



OH + OH/BCM



OH + OH/BWM



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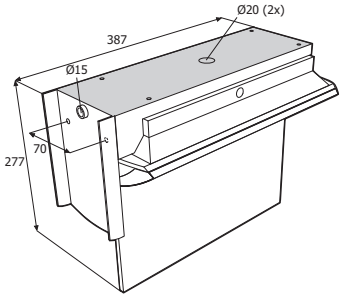
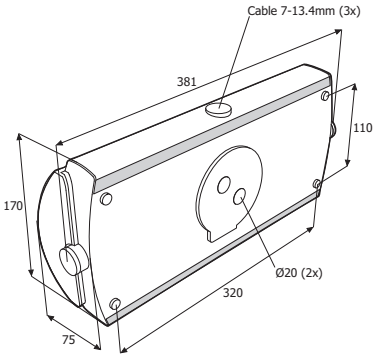
Accessories

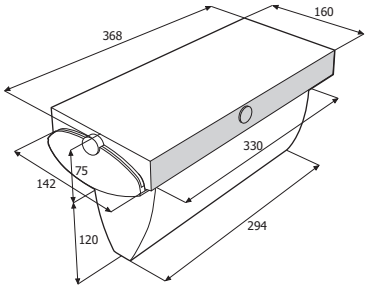
OHD + OH/BWM



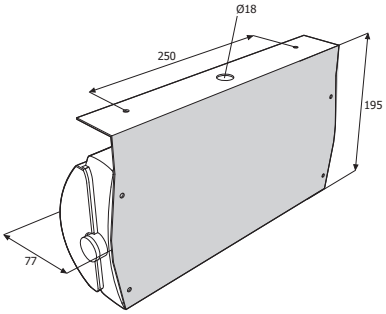
OW + XE



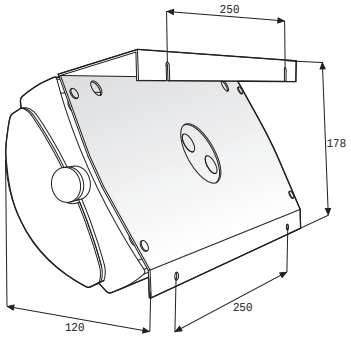
OW + OW/DSC + XE



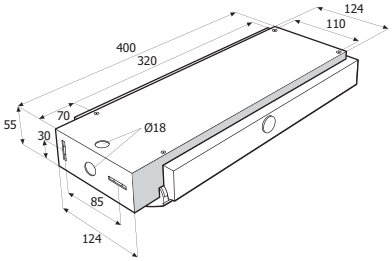
OW / STF + OW/BCM



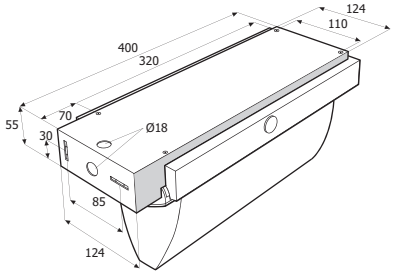
OW / STF + OW/BWA



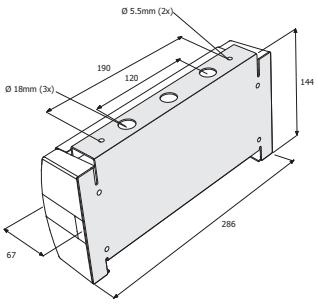
OW / STF + OW/BWM



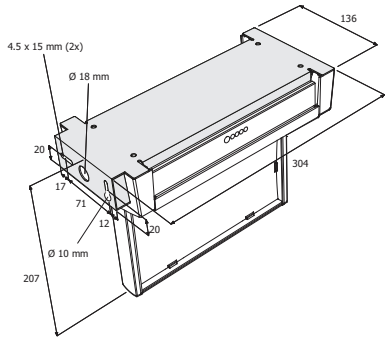
OW + OW/DSC + OW/BWM



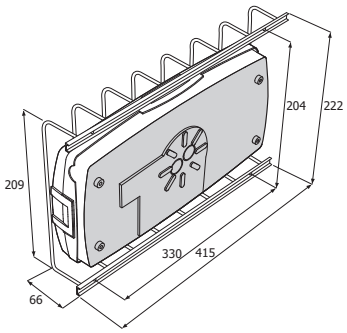
PX + PX/BCM



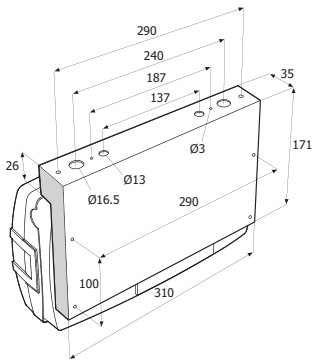
PX + PX/DSLKIT + PX/BWM



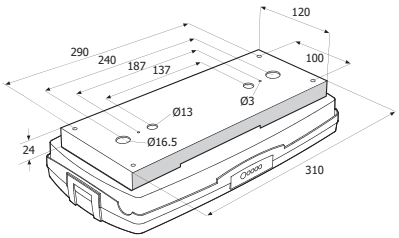
PLX + PL/WG



PLX + PL/BCM



PLX + PL/BPM



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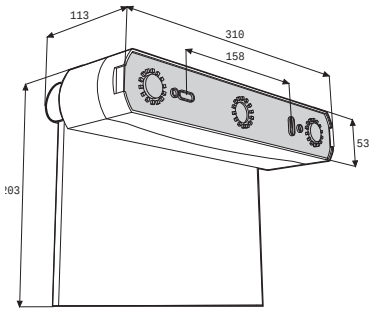
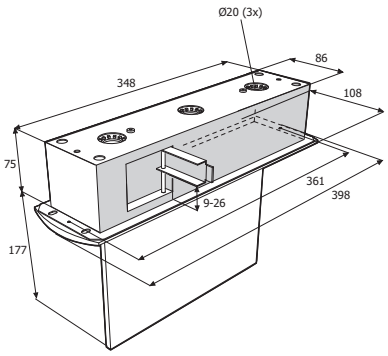
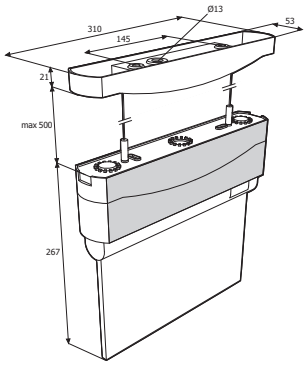
EM3 + EMH + ESS



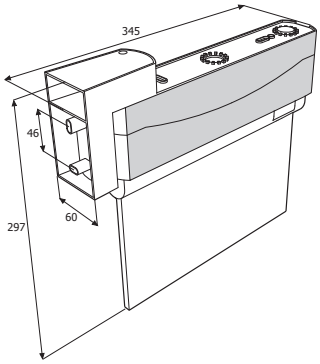
EM3 + EMF + ESS



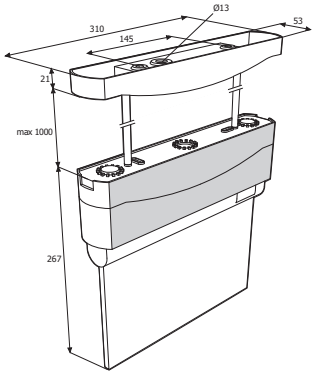
EM3 + EMS + ESS



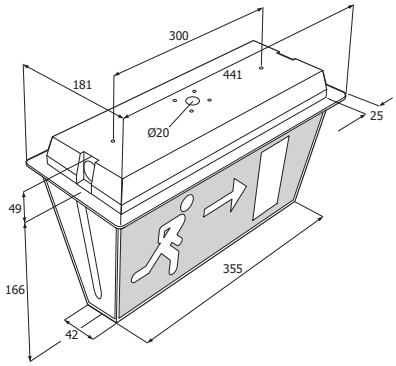
EM3 + EMV + ESS



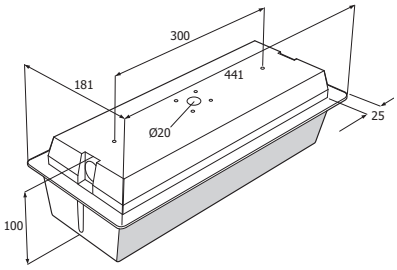
EM3 + EMR + ESS



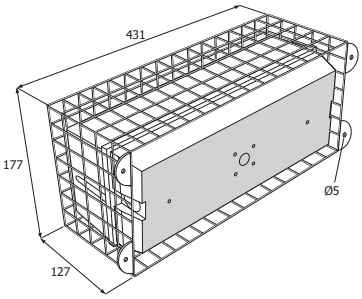
DV + BBZ



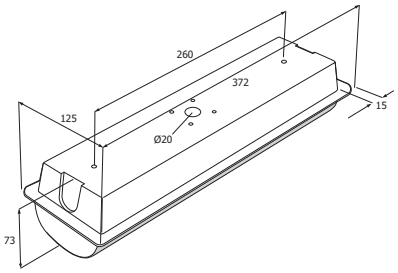
B / VA + BBZ



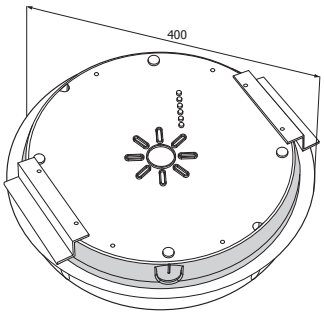
B / VA + BWG



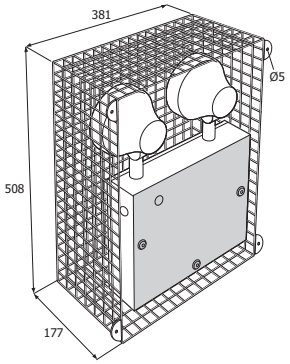
XXW + XTR



CPW/BZ



HV / HL + HLWG



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	Format	Self Assembly	Single sided				Double sided			Safety equipment signs	
			Down	Left	Right	Up	Down	Left/Right	Up	Extinguisher	Fire hose
Serenga SER	Screen printed (curved)	–	SER-SC012	SER-SC010	SER-SC011	SER-SC013	–	–	–	SER-SC802	SER-SC803
	Screen printed (normal)	–	SER-SN012	SER-SN010	SER-SN011	SER-SN013	–	–	–	SER-SN802	SER-SN803
Horizon OH	Screen printed	–	XE02H	XE03H	XE06H	XE05H	–	–	–	XLF802H	XLF803H
	Perspex screen printed	–	XE20HS	XE30HS	XE60HS	XE50HS	–	XE36HD	XE55HD	XLF802HS	XLF803HS
Aqualux OW / STF	Screen printed (back-lit)	–	XE02W	XE03W	XE06W	XE05W	–	–	–	XLF802W	XLF803W
	Self-adhesive (edge-lit)	–	RSE2W	RSE3W	RSE6W	RSE5W	RSE2W/RSE2W	RSE3W/RSE6W	–	–	–
Previx PX / PXR	Screen printed	–	XE02PX	XE03PX	XE06PX	XE05PX	–	XE03PX / XE06PX	–	–	–
Way-Fer PLX	Self-adhesive sticker	–	RSE2PL	RSE3PL	RSE6PL	RSE5PL	–	–	–		
	Perspex screen printed	–	XE02PL	XE03PL	XE06PL	XE05PL	XE022PL	XE036PL	XE055PL	–	–
Silver-Lite ARV	Screen printed	–	XE02A31	XE03A31	XE06A31	XE05A31	XE02/2A32	XE03/6A32	XE05/5A32	–	–
Endurance EM	Screen printed	–	ESS012	ESS010	ESS011	ESS013	EDS021	EDS020	EDS022	–	–
Navigator Compact VE / DVE	Screen printed	–	XE02V31	XE03V31	XE06V31	XE05V31	–	–	–	–	–
Navigator EE	Screen printed (white)	–	XE02E31	XE03E31	XE06E31	XE05E31	–	–	–	–	–
Navigator Performa EE	Screen printed (black)	–	XE02E4	XE03E4	XE06E4	XE05E4	–	–	–	–	–
Silver-Scape RB	Screen printed	–	XE02A31	XE03A31	XE06A31	XE05A31	XE02/2A32	XE03/6A32	XE05/5A32	–	–
Corniche NB	Screen printed	–	XE02NT31	XE03NT31	XE06NT31	XE05NT31	XE02/2NT32	XE03/6NT32	XE05/5NT32	–	–
Weatherforce DV	Double sided fitted	–	–	–	–	–	XE22	XE36	XE55	–	–
Weatherforce B / WA	Self-adhesive sticker	RSE120	RSE2120	RSE3120	RSE6120	RSE5120	–	–	–	–	–
Day-Lite Ex-cel XXW	Self-adhesive sticker	RSE23560X	RSE2X	RSE3X	RSE6X	RSE5X	–	–	–	–	–

The standard 'Signs Directive' format is shown above. Other legend formats with different arrow directions, HTM65 format (below), BS 5499 mixed 'image/word' and foreign language variants are available by special request.

	Format	Single sided					Double sided		
		Self Assembly	Down	Left	Right	Up	Down	Left/Right	Up
Serenga SER	Screen printed (curved)	-	SER-SCN12	SER-SCN10	SER-SCN11	SER-SCN13	-	-	-
	Screen printed (normal)	-	SER-SNN12	SER-SNN10	SER-SNN11	SER-SNN13	-	-	-
Horizon OH	Screen printed	-	XEN2H	XEN3H	XEN6H	XEN5H	-	-	-
	Perspex screen printed	-	XEN20HS	XEN30HS	XEN60HS	XEN50HS	XEN22HD	XEN36HD	XEN55HD
Aqualux OW / STF	Screen printed (back-lit)	-	XEN2W	XEN3W	XEN6W	XEN5W	-	-	-
	Self-adhesive (edge-lit)	-	RSEN2W	RSEN3W	RSEN6W	RSEN5W	-	-	-
Previx PX	Screen printed	-	XEN2PX	XEN3PX	XEN6PX	XEN5PX	-	-	-
Way-Fer PLX	Self-adhesive sticker	-	RSEN2PL	RSEN3PL	RSEN6PL	RSEN5PL	-	-	-
	Perspex screen printed	-	XEN2PL	XEN3PL	XEN6PL	XEN5PL	XEN22PLD	XEN36PLD	XEN55PLD
Silver-Lite ARV	Screen printed	-	XEN2A31	XEN3A31	XEN6A31	XEN5A31	XEN2/2A32	XEN3/6A32	XEN5/5A32
Endurance EM	Screen printed	-	ESSN12	ESSN10	ESSN11	ESSN13	EDSN21	EDSN20	EDSN22
Navigator Compact VE/ DVE	Screen printed	-	XEN2V31	XEN3V31	XEN6V31	XEN5V31	-	-	-
Navigator EE	Screen printed (white)	-	XEN2E31	XEN3E31	XEN6E31	XEN5E31	-	-	-
Silver-Scape RB	Screen printed	-	XEN2A31	XEN3A31	XEN6A31	XEN5A31	XEN2/2A32	XEN3/6A32	XEN5/5A32
Corniche NB	Screen printed	-	XEN2NT31	XEN3NT31	XEN6NT31	XEN5NT31	XEN2/2NT32	XEN3/6NT32	XEN5/5NT32
Weatherforce DV	Double sided fitted	-	-	-	-	-	XEN2/2DV32	XEN3/6DV32	XEN5/5DV32
Weatherforce B / WA	Self-adhesive sticker	-	RSEN2120	RSEN3120	RSEN6120	RSEN5120	-	-	-
Day-Lite Ex-cel XXW	Self-adhesive sticker	RSEN23560X	RSEN2X	RSEN3X	RSEN6X	RSEN5X	-	-	-

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Central power supplies

Our Central Power Supply Systems division offers a choice of reliable and high quality products which are designed to meet the relevant standards and specifications for both AC/AC and AC/DC applications. The 'EMEX Power' and 'EMEX TS' static inverters, 'EMEX 110' AC/DC and 'Compact Power' product ranges are manufactured in our Leeds facility, supported by an experienced engineering, sales, and commissioning team.

EMEX – AC/AC Static inverter range: 220-230 V 50/60Hz

Static inverters in this range are true passive stand-by emergency lighting units, designed and built to exceed current emergency lighting standards and technical requirements, something with which most UPS based central power products do not comply.

EMEX Power, EMEX TS static inverters and EMEX Mini power systems offer a low maintenance and extremely reliable central power supply solution with low running costs and a high degree of functionality to serve individual customer needs.

- Modular design, which makes maintenance or repair a simple task
- Manufactured in the UK
- Normal mains luminaires with electronic starters/high frequency ballasts may be driven by the system (glow wire starters cannot be used in accordance with BS EN 60598.2.22)
- Ideal for task lighting projects where normal (high) lighting levels are required to minimise business disruption
- High efficiency: Low running cost
  - This AC/AC type of system has been designed for an inherently long service life with associated significant cost benefits over alternative emergency lighting solutions
- Cost conservancy and design
  - Ventilation fan life is maximised, as they will only operate when required, during 'battery charge' or 'inverter active' cycles
  - Battery life conserved by a temperature compensated constant voltage charger circuit in conjunction with passive stand-by inverter operation
- Functional features include sub-circuit monitoring, final exit input, MCB monitoring, M/NM operation (user selectable), fire alarm input and two volt-free common alarm outputs
- MCB protection devices are used throughout the equipment, eliminating the need for fuse spares
- Digital display for battery and output metering V & I
- Fully compliant with EN 50171 and ICEL1009
- EMEX TS includes integral touch-screen with EMEX Test capability

EMEX110 – AC/DC Central Power Supply Systems: 110 V

The 'EMEX110' range is available where the user preference is for an AC/DC system powering slave luminaires fitted with compatible inverter modules. The 110 V range is suitable for medium to large premises, including schools, supermarkets and other commercial or local authority properties.

Structurally, the type enjoys the modular design and all the standard features of the EMEX range.

Emergi-Lite EMEX AC/AC CPS systems are now kitemark approved to EN 50171 (Kitemark reference KM 542294).

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EMERGI-LITE

EMEX Test

An optional innovative test facility is available for testing both the central power supply system and emergency lighting luminaires linked to it. The 'EMEX Test' hardware and software has been developed to produce an advanced, reliable and functional system at comparatively low cost.

Data communication to the luminaires being fed from the inverter is available in two forms depending on user choice. Either a Data Bus version utilising a single pair data cable or a line borne data signal imposed onto distributed AC power is available.

- Both the central power supply and luminaires are addressable
- Programmable: To perform timed tests during 'out of hours' periods for minimal disruption to everyday core business
- Any failure is recorded to a printable log file
- User interface: A standard PC with printer or door mounted touch-screen
- Networking facility: Up to 256 separate systems can be networked for testing from a single PC
- Remote access: Test results can be viewed remotely via computer network/internet
- A substation (MXC) is used to control up to 40 luminaires
- Additionally, any standard luminaire can be converted for use with substations using a small LTC interface module

Compact power AC/DC Central Power Supply Systems

Light and medium duty 24 V or 50 V for smaller premises or replacement work.

Full range of options available to suit site and customer requirements.

For a project assessment, design and quotation please contact a member of our internal Technical Sales or Field Sales Team. We will be able to offer the most suitable equipment for your local requirement.

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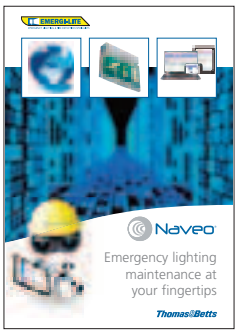
Literature

EMEX Central Power Supply Systems Catalogue

This catalogue delivers an in-depth appraisal of the range of EMEX Central Power Supply Systems manufactured by Emergi-Lite, including AC/AC static inverters, AC/DC systems and 110 V supply solutions, plus the accompanying luminaires available to complete emergency lighting provision.

This catalogue is available from Emergi-Lite on +44 (0)113 281 0600.

Naveo remote emergency lighting management and monitoring



Detailing the innovative Naveo central addressable testing solution with remote, cloud-based, reporting and monitoring. The brochure explains in full the clear benefits of specifying and installing Naveo to significantly reduce the burden of emergency lighting testing.

This brochure is available from Emergi-Lite on +44 (0)113 281 0600.

Log Book: Emergency Lighting

The Emergency Lighting Standard, BS 5266 part 8, calls for periodic testing over the life of the emergency luminaire. Records of the tests are required. The Emergi-Lite spiral bound Log Book is handy and robust for this purpose, and also provides some useful notes and advice on the standard and the test process.

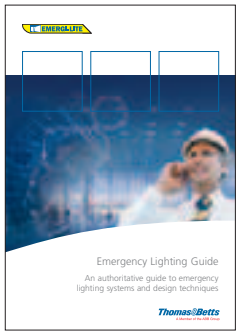
Order Code	Description	List Price	Price Code
YLB-EL906	Log book - Emergency Lighting	£15.00	C

Log Book: Fire Detection and Alarm Systems

This A4 booklet, spiral bound and with hard backing, provides general guidance and advice as a supplement to BS 5839-1:2002. Space is provided for recording component lists, systematic logs, for making detailed weekly test reports and noting any modifications to the system in place.

Order Code	Description	List Price	Price Code
YLB-FD906	Log book - Fire Detection	£15.00	C

Emergency Lighting Guide: An Authoritative Guide to Emergency Lighting



This guide provides key guidance on the various emergency lighting systems available, and their application and management in accordance with the latest BS EN and IEC standards.

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Product selection chart

		PLAN					INSTALL			MANAGE								RENEW		See Pages
		Low energy LED	Project-wide application	High ceiling application	In-built Self-Test	Choice of trims	Modular design	First-fix installation	Mounting options	External use	Night / security lighting	Light sensor	Low temperature	Long-life performance	Dimmable lighting	Low maintenance LED	Extended warranty (2yr+)	Retrofit LED geartray	Testing system upgrade	
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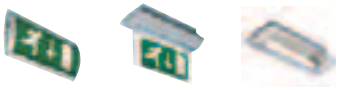
HORIZON		✔	✔		✔		✔	✔	✔		✔			✔		✔	✔	✔	✔	24 - 30
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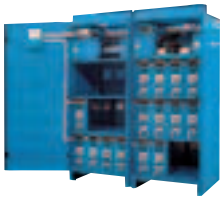

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