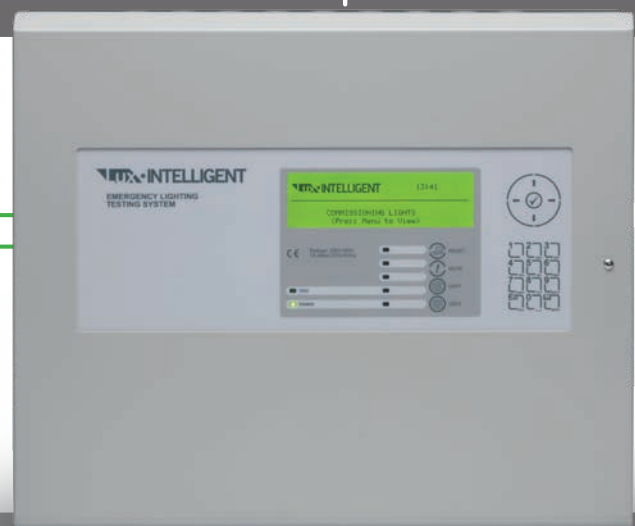
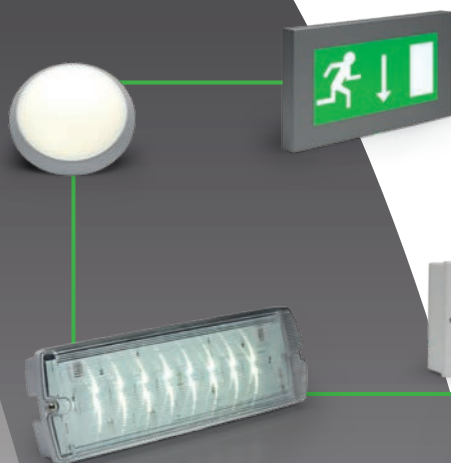


LUX INTELLIGENT

The Emergency Lighting
Test System from Advanced



A Visibly Better Testing System

LuxIntelligent is the latest version of Advanced’s legendary emergency lighting test system.

It makes emergency light testing and compliance easier and more cost effective on sites large and small, and comes with optional cloud-driven, mobile and desktop monitoring and management.

Our knowledge is unmatched. Emergency light testing was Advanced’s first product category and the foundation for what has become a leading international fire protection and life safety company, operating in over 80 countries worldwide.

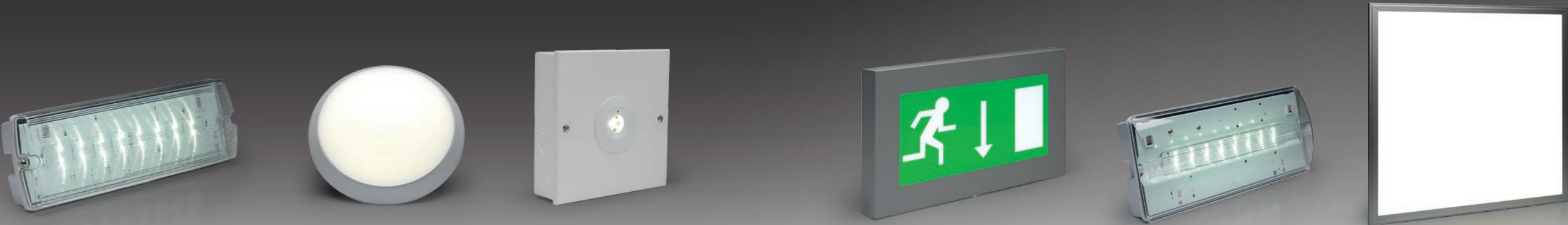
LuxIntelligent
makes life easy

Easy installation, management, testing and monitoring of emergency lighting to BS 5266-1, EN 50172 and beyond.



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One Panel – Many Options

For any type of installation, all you need is our one panel. A single panel can support up to 996 devices and be locally networked with up to 200 panels or an unlimited number via our LuxCloud service.

Our system can also interchangeably work as a hybrid in any of these scenarios and offers a huge amount of flexibility and scalability that will suit almost any requirement.

Retrofit

Do you have pre-existing emergency luminaires? No problem – our intelligent PLUs can be retrofitted to almost any existing luminaire. Just by adding our PLUs to your devices and a simple data cable, your system can become a centralised, automatic testing system without having to replace your existing devices.

Conversion

If you don't want the hassle of converting devices yourself, simply send them to us and we can convert your lights for you. Not only will we ensure your devices are returned to you ready to plug into your new system, we will also take over the warranty of the device for your peace of mind.

Ultra-Low Voltage

EasySafe is our next generation of emergency luminaires that require no mains power connection. They are fast to install and maintain, using a first-fix base and a 'twist & click' install method. EasySafe devices draw their power directly from the data cable and are perfect for anyone who needs minimal disruption during installation and maintenance, whilst also providing an energy-saving solution.

Standalone Devices

We have a range of high-quality standalone LED luminaires and exit signs that come pre-installed with our PLU devices. These reliable devices are made to order in our world-class UK manufacturing site and are ready to be installed straight out of the box.

Central Battery/Static Inverters

Our system works well alongside existing or new central battery or static inverter systems. Our PLUs and panel can monitor luminaires connected to either system type and provide centralised testing for all your devices as well as interlinking with central batteries via our addressable input/output unit or our 230V hold-off relays.

System Advantages

LuxIntelligent makes emergency light testing, management and compliance easy and cost effective.

Complete trust, easy management

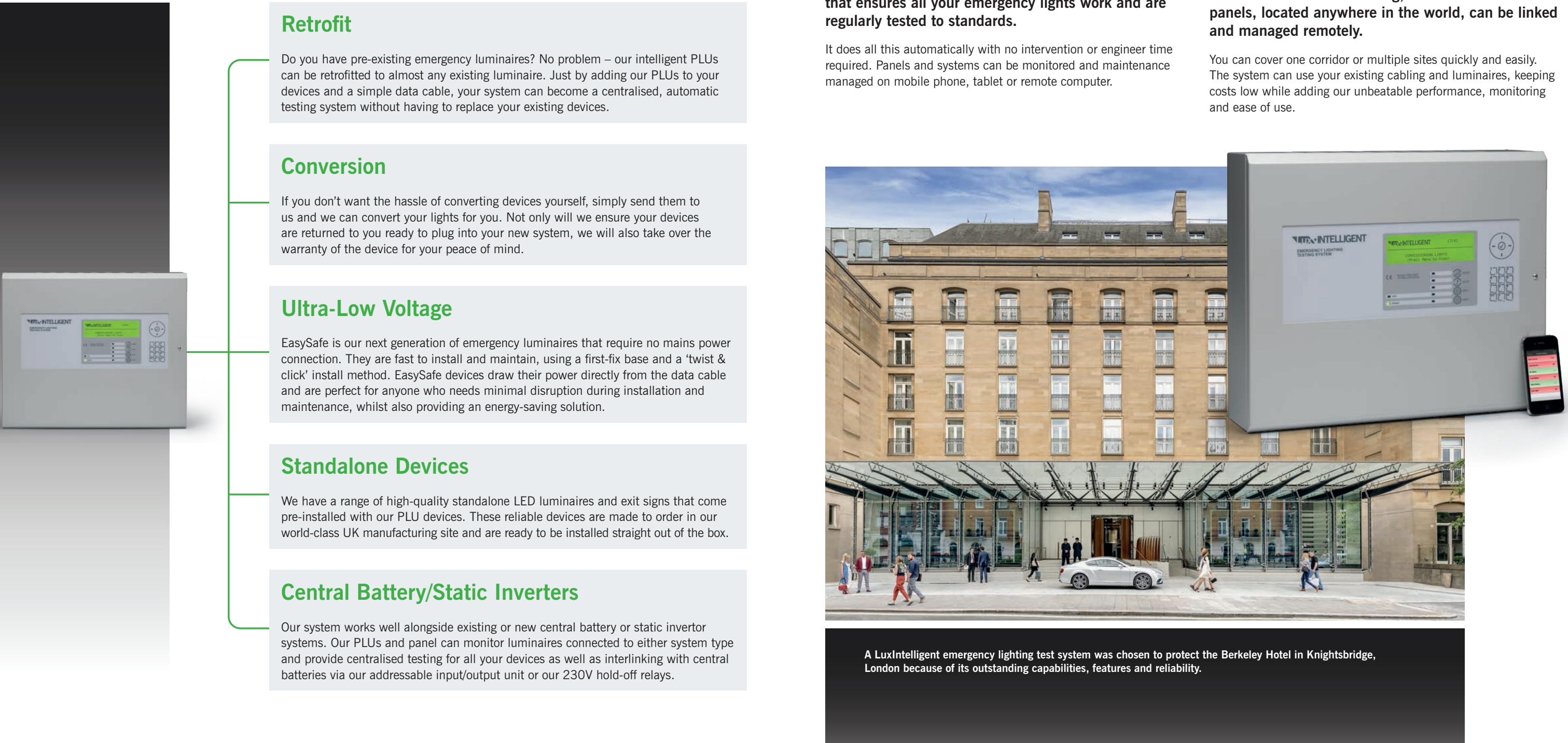
LuxIntelligent is an analogue addressable system that ensures all your emergency lights work and are regularly tested to standards.

It does all this automatically with no intervention or engineer time required. Panels and systems can be monitored and maintenance managed on mobile phone, tablet or remote computer.

Unlimited scaleable system

LuxIntelligent can be networked in two ways. A cabled network can support 200 panels, or with our 'cable free' cloud networking, an unlimited number of panels, located anywhere in the world, can be linked and managed remotely.

You can cover one corridor or multiple sites quickly and easily. The system can use your existing cabling and luminaires, keeping costs low while adding our unbeatable performance, monitoring and ease of use.



A LuxIntelligent emergency lighting test system was chosen to protect the Berkeley Hotel in Knightsbridge, London because of its outstanding capabilities, features and reliability.

Worldwide monitoring in your pocket

The LuxIntelligent cloud stores your test data securely and gives you live status, advisories, reports and monitoring on your smartphone, tablet or computer.

You can monitor all your sites, anywhere in the world down to device level, from one account and share the system elements and reports you want with engineers or maintenance staff.



More monitored lights

Each LuxIntelligent panel has up to four easily-wired lighting loops supporting up to 249 luminaires.

That's an unbeatable 996 per panel and 199,200 per standard network or an unlimited number with our cloud networking. It's easy to add panels and lights to your system as your site or requirement grows.

Convert your existing luminaires

LuxIntelligent allows you to keep your existing wiring and luminaires and convert them to LuxIntelligent's addressable protocol by adding our modules.

LuxIntelligent is suitable for most third-party lights, and Advanced is ICEL 1004 approved to carry out conversions.

Direct light level and voltage monitoring

LuxIntelligent modules ensure your lights are functioning correctly using fibre optics for direct light measurement and high-performance electronics to monitor appropriate voltage levels.

Live compliance and monitoring 3-ways

- On-board keypad and LCD screen for easy navigation, programming and maintenance
- Comprehensive PC management tool can be connected to panel directly via RS232. Also modem or GSM connections and LAN via serial to ethernet connectors
- Cloud service and LuxIntelligent mobile, tablet and desktop apps giving live status and current and historical reports, complete system data, faults and advisories



Making the Switch from Fluorescent to LED Emergency Lighting

Many emergency lighting installations have been in place for ten years or more and include old technology that can add thousands of pounds of unnecessary expense to a building's overall running costs.

Traditional fluorescent lighting consumes significantly more electricity than LED technology, while the typical lifespan of fluorescent lights is between 15-30% shorter than that of identical LED solutions, resulting in a greater number of bulb failures and replacements leading to higher overall maintenance costs.

Switching to LuxIntelligent's low-energy LED emergency lighting is quick, simple, and will on average deliver 20% energy efficiency savings compared with fluorescent alternatives. The versatile range of LuxIntelligent luminaires and exit signs can be integrated onto existing cabling and/or used alongside the LuxIntelligent emergency light testing panel to form an intelligent emergency lighting system.

LED lights

High life expectancy:

LED-based products have a predicted life expectancy of 50,000 to 70,000 hours at which point the luminaire may need to be replaced

Cost effective:

Lower power consumption than fluorescent lights

Battery backup:

Require smaller batteries to operate in an emergency

Fluorescent lights

Lower life expectancy:

Life expectancy of 7,000 hours and even less if used in combined emergency fittings

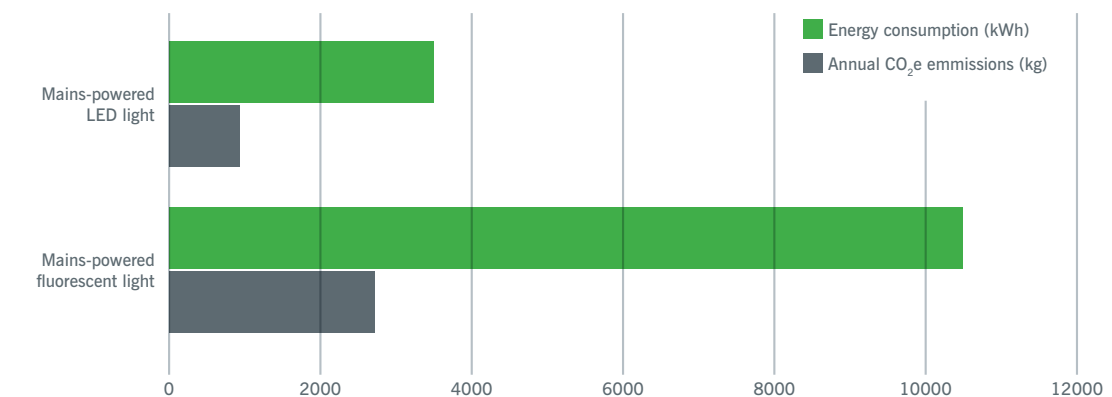
Higher power consumption:

Typically require more power and are less efficient

Battery backup:

Require larger batteries to operate in emergency

A greener solution: A 100 luminaire system



This graph shows the typical energy consumption and CO₂e emissions of an emergency light system with an installation of 100 luminaires. It compares traditional mains-powered fluorescent technology against a mains-powered LED equivalent on an annual basis.



The High-Performance Lighting Test Panel

LuxIntelligent is the emergency lighting test system that built a global business. You can't choose a better performing or more reliable panel.



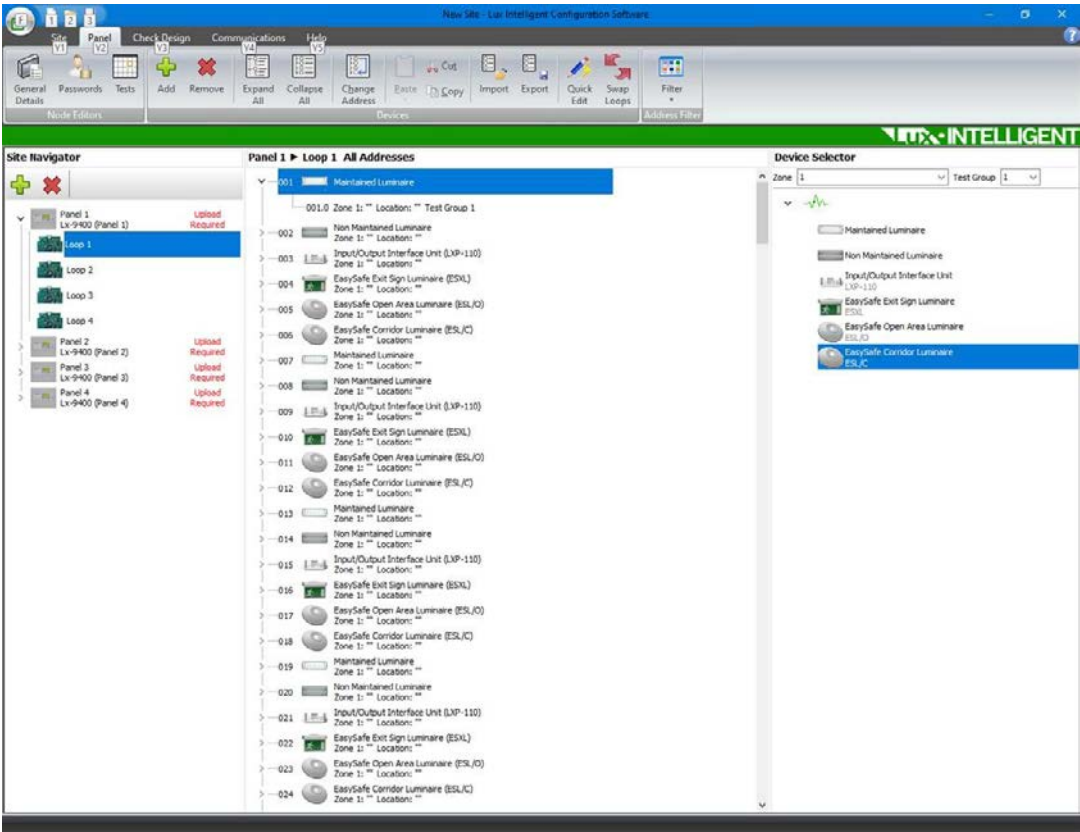
Technical features:

- Analogue addressable
- Up to four loops per panel
- Up to 249 luminaires per loop
- Panel easily networked into 200 node networks (standard networking). Cloud networking uses existing LAN, wired and wireless networks and allows an unlimited number of panels to be networked with no dedicated cabling between panels
- Easily installed often on existing wiring
- Compatible with most third-party luminaires, including most modern LED lights
- Easy conversion of existing lights with our addressable modules
- Available with complete range of addressable lights
- 5 Amp power supply
- Can work with and monitor central battery and static inverter systems
- LCD interface for on-board programming and management
- Optional on-board printer
- Autolearn and loop detection for trouble-free installation and configuration
- PC management software

Commissioning made simple

Our updated commissioning tool is easy to use and enables you to build both simple and complex emergency lighting systems.

However complex your system requirements, you can pre-plan the entire system in advance from the comfort of your home, saving valuable time when you get on site.



Loop/Network Wiring Specification

LuxIntelligent requires data cabling to be suitable for the nature and size of the installation. The lower quantity of lights and shorter loops results in a narrower (and less expensive) gauge of cable being required.

Radial vs loop (ring) circuit wiring

Regarding the wiring circuit used to connect devices to the LuxIntelligent panel, it is possible but **not recommended to use a Radial circuit**.

Radial circuits severely hinder identification of earth faults, continuity or short circuit issues. It is **highly recommended that loop (ring) circuits are always used**.

TOP TIP
In some instances where a radial circuit is suitable, such as running a radial down a stairwell, it is important to ensure that any drawings as fitted are clearly marked as to where the radial originates.

Signalling circuits

All cables are Belden twisted pair (or equivalent). Please note:

- 8762, 8760 & 8719 types are screened, twisted pair and are recommended where a high level of high frequency electrical noise is prevalent in the installation.
- 8205, 8461, 8471 types are unscreened, twisted pair and are suitable for use in environments where there is no risk of contamination by high frequency asymmetrical electrical noise.
- Where the installation requires cables with low smoke and fume emissions, please use Belden LSF cables, types 8762NH, 8760NH, 8719NH, 8205NH, 8461NH & 8471NH.

The table below quotes the recommended maximum runs for the specified load conditions. All distances are quoted in metres and the maximum circuit length should be no greater than 1500m unless stated.

Cable types are defined by their Belden equivalents (universally referenced).

Cable	Cable size		Voltage rating	Conductor Ω (per Pr)	Maximum Cable Run (in metres per installed number of PLU modules)								
	AWG	mm²			≤ 50	≤ 75	≤ 100	≤ 125	≤ 150	≤ 175	≤ 200	≤ 225	≤ 249
PLU (LXP) Radial / Loop													
8762 / 8205	20	0.5	300	71.6 Ω/km		1500	1200	1000	800	700	600	550	500
8760 / 8461	18	0.8	300	45.4 Ω/km				1500	1300	1100	950	850	750
8719 / 8471	16	1.3	600/300	28.6 Ω/km							1500	1350	1200
8720 / 8473	14	2.0	600/300	19.0 Ω/km									1500
I/O (LXP-110) Radial / Loop ⁵													
8762 / 8205	20	0.5	300	71.6 Ω/km	600								
8760 / 8461	18	0.8	300	45.4 Ω/km	950								
8719 / 8471	16	1.3	600/300	28.6 Ω/km	1500								
8720 / 8473	14	2.0	600/300	19.0 Ω/km	1500								

LuxIntelligent Panel

The LuxIntelligent addressable emergency lighting control system is designed to provide a simple yet powerful, reliable and cost-effective maintenance solution for testing your emergency lights and maintaining results data for inspection and audit purposes.

Emergency lighting is a requirement for non-domestic buildings and is embodied in British and European legislation. Employers, building owners and occupiers have a legal responsibility to test and maintain their emergency systems to the standards required by the Code of Practice for Emergency Lighting of Premises BS 5266-1 and also EN50172, Emergency Escape Lighting Systems.



It supports both maintained, non-maintained and slave luminaires in either self-contained, central battery or static inverter systems. It supports all of the Advanced LuxIntelligent range of fittings. On top of this, LuxIntelligent modules can be added to almost any luminaires to allow them to fully function on the LuxIntelligent system. The control panel has a dynamic event log of 1000 events as well as a separate log for recording test results. Records

of all automatic (and manual) tests are generated and can be downloaded by connecting to a computer and using the appropriate LuxIntelligent logger tool. The data is then transferred to a database on a PC for subsequent analysis listing and printing. Once the data is there, there is also the opportunity of transferring this information up to the LuxIntelligent cloud using the LuxIntelligent sync tool. Through the LuxIntelligent app it becomes very easy to share and use this information.

Key Features
Each panel can support 996 luminaires
Advanced graphical LCD user interface
Loop-powered communications
Dedicated RS232 port supporting various modes of access
5 Amp power supply and charger to EN54-4
Fit and forget panel, using your 'My LuxIntelligent' account to manage your emergency lighting
32 characters for zone text and 26 for each luminaire
Networks can contain up to 200 panels
400 individual tests can be spread across up to 50 test groups
Up to 200 zones available across each panel
1000 event and diagnostic log
24/7 monitoring, including cloud service and mobile app

Specification	Lx-9400	Lx-9800
Display	Backlit 260 by 64 graphical LCD	Backlit 260 by 64 graphical LCD
Controls	Alpha-numeric keypad, navigation keys, mute and reset	Alpha-numeric keypad, navigation keys, mute and reset
Enclosure/colour	Steel IP30/RAL 7035	Steel IP30/RAL 7035
Dimensions (H*W*D) mm	385 * 450 * 125	950 * 450 * 188
Weight	8.6Kg	25Kg
Temperature	-5°C to 40°C	-5°C to 40°C
Humidity	95% max	95% max
Cable entries (20mm knockouts)	18 top, 9 top rear, 2 bottom	18 top, 9 top rear, 2 bottom
Mains supply	220-240V, +10%, -15%, 47-63 Hz AC, 1A (max)	220-240V, +10%, -15%, 47-63 Hz AC, 1A (max)
Battery capacity	24V 4Ah (min), 24V 12Ah (max) Internal	4 x 12v, 4Ah (Min), 4 x 12v 38Ah (max) Internal
Charging current	2.4A, temperature compensated	2.4A, temperature compensated (*2)
Power supply	Seperate 24Vdc, 5A universal input, switched mode	Seperate 24Vdc, 5A universal input, switched mode (*2)
Number of loops	1 to 4	2 to 8
Devices per loop (total)	249	249
Protocols	PuLsE	PuLsE
Auxiliary supply output	24Vdc, 500mA	24Vdc, 500mA (*2)
Loop current	500mA	500mA
Event log	1000 event & diagnostic	1000 event & diagnostic
Number of zones	200 maximum, across 4 loops (1000 when networked)	200 maximum, across 4 loops (1000 when networked)
Number of test groups	50	50 per panel, 100 across enclosure
Number of scheduled tests	400	400 per panel, 800 across enclosure
On-board relays	2 * 1A 30V AC/DC (Fault)	4 * 1A 30V AC/DC (Fault)
Serial port	1 * RS232 on board for PC/modem/printer	2 * RS232 on board for PC/modem/printer
Integral modem (optional)	For connection to logging PC	For connection to logging PC

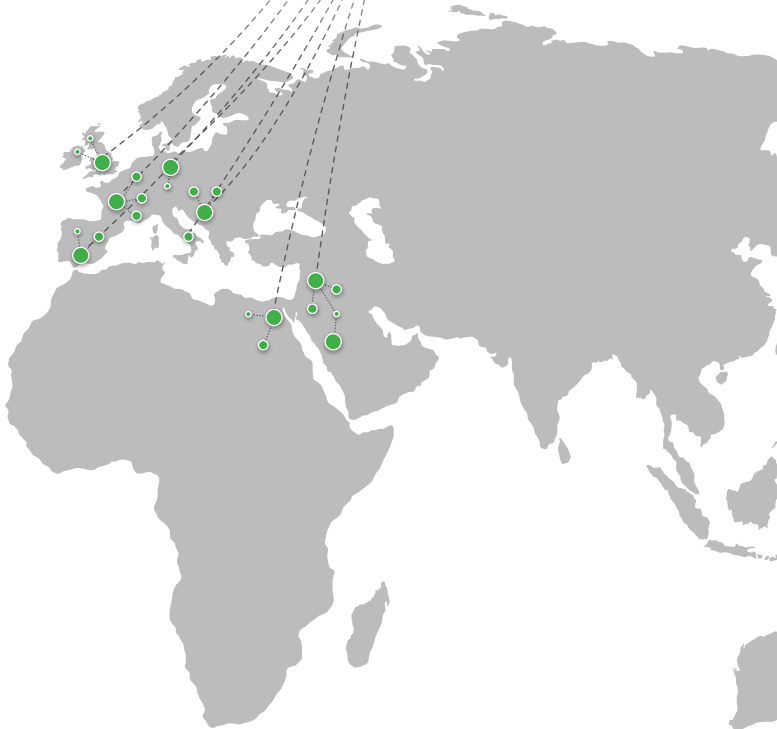
For part numbers and order options, please contact us directly.

Complete 24/7 Monitoring and Testing

LuxIntelligent gives users complete confidence that systems are tested with no intervention or engineer time required.

LuxIntelligent’s optional cloud storage, mobile and desktop apps give you unprecedented oversight and confidence in system monitoring and compliance. They make it easier and more cost effective to manage a single panel or an entire portfolio of buildings and sites.

All this is done automatically, with no intervention or engineer time required. Panels and systems can be monitored and maintenance managed on mobile phone, tablet or remote computer.



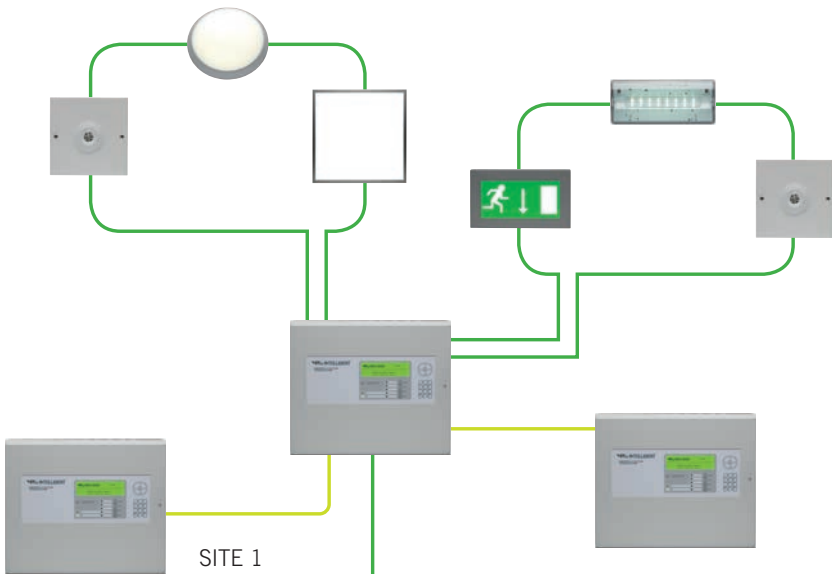
Example Cloud-Monitored Portfolio

LuxIntelligent allows you to network your panels via cable (200 panels) or your local LAN or wireless network and the cloud (unlimited) completely securely.

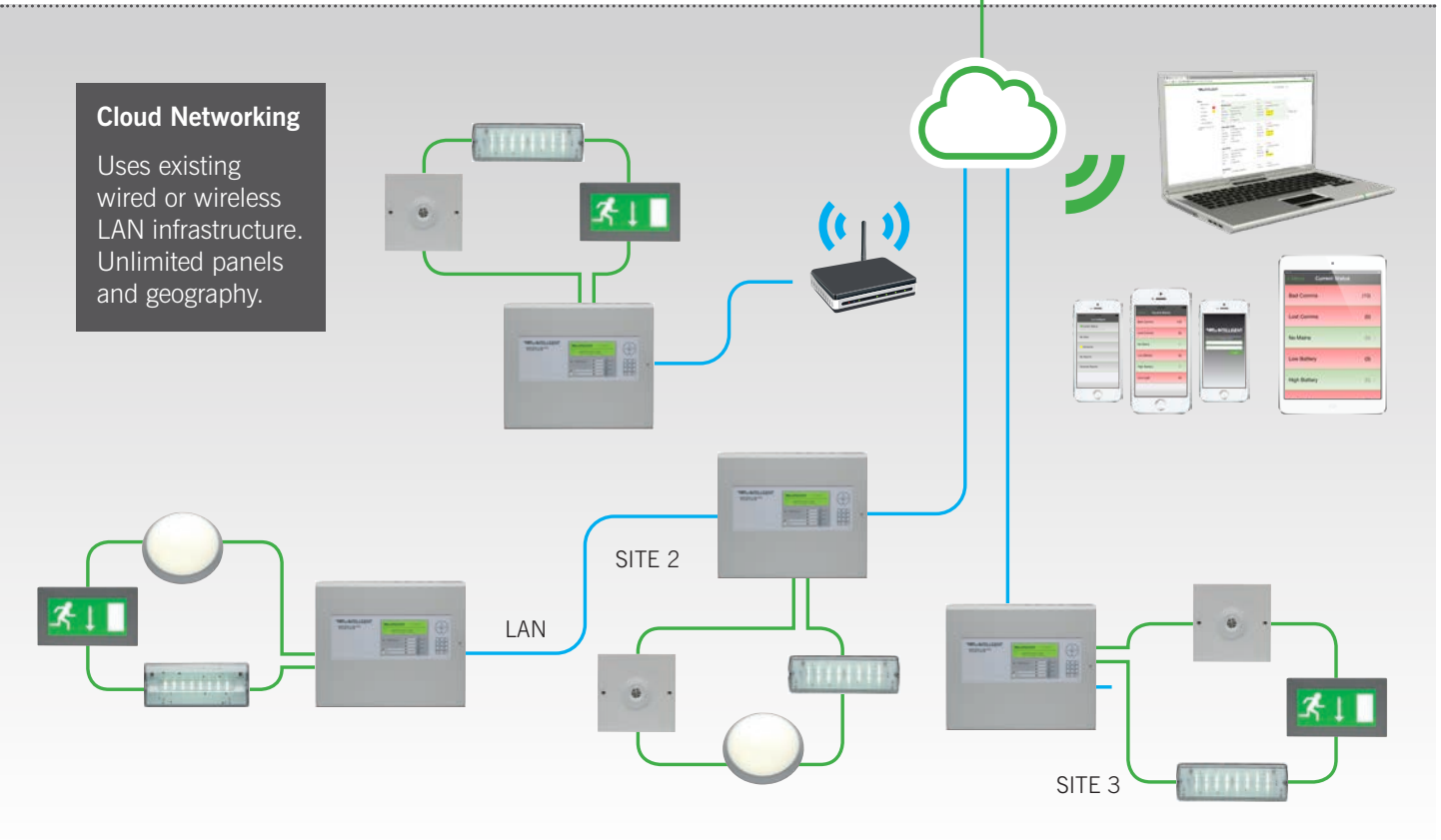
All panels can be monitored with your phone, tablet or desktop app allowing you to manage panels and sites all over the world from one remote location. This offers huge savings on maintenance and management times.

To interface with the cloud, LuxIntelligent uses a serial to LAN converter and PC software (not shown).

Standard Networking
Uses 2 core cable, up to 200 panels



Cloud Networking
Uses existing wired or wireless LAN infrastructure. Unlimited panels and geography.

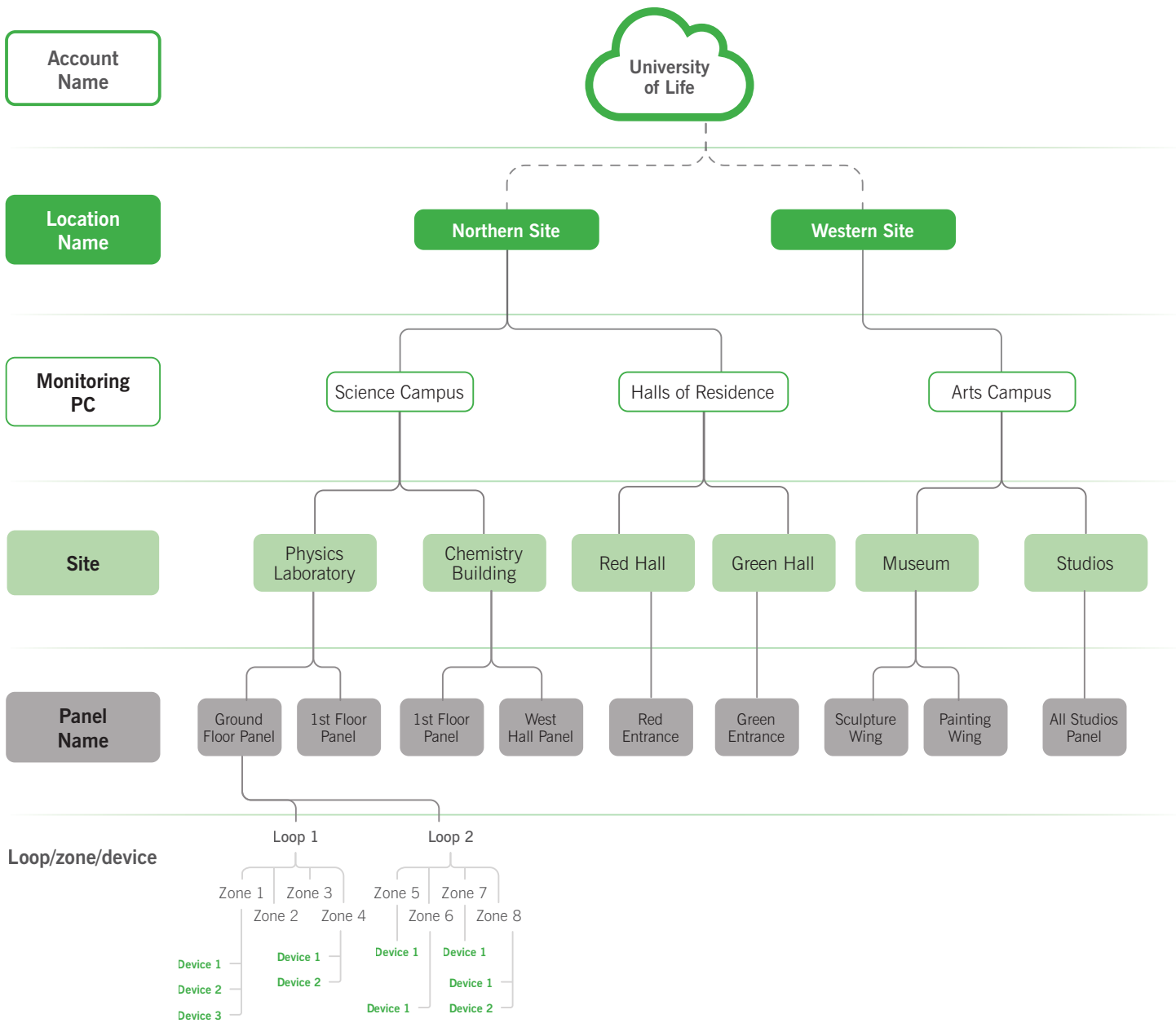


Cloud Naming Structure

Example one

When you have a large complex site, Lux Cloud makes structuring and organisation easy.

From separating areas by different geographical locations, to organising areas by departments or specific buildings; no matter how you choose to structure your site, you will always be able to drill down to the smallest of details and check the status of individual devices.

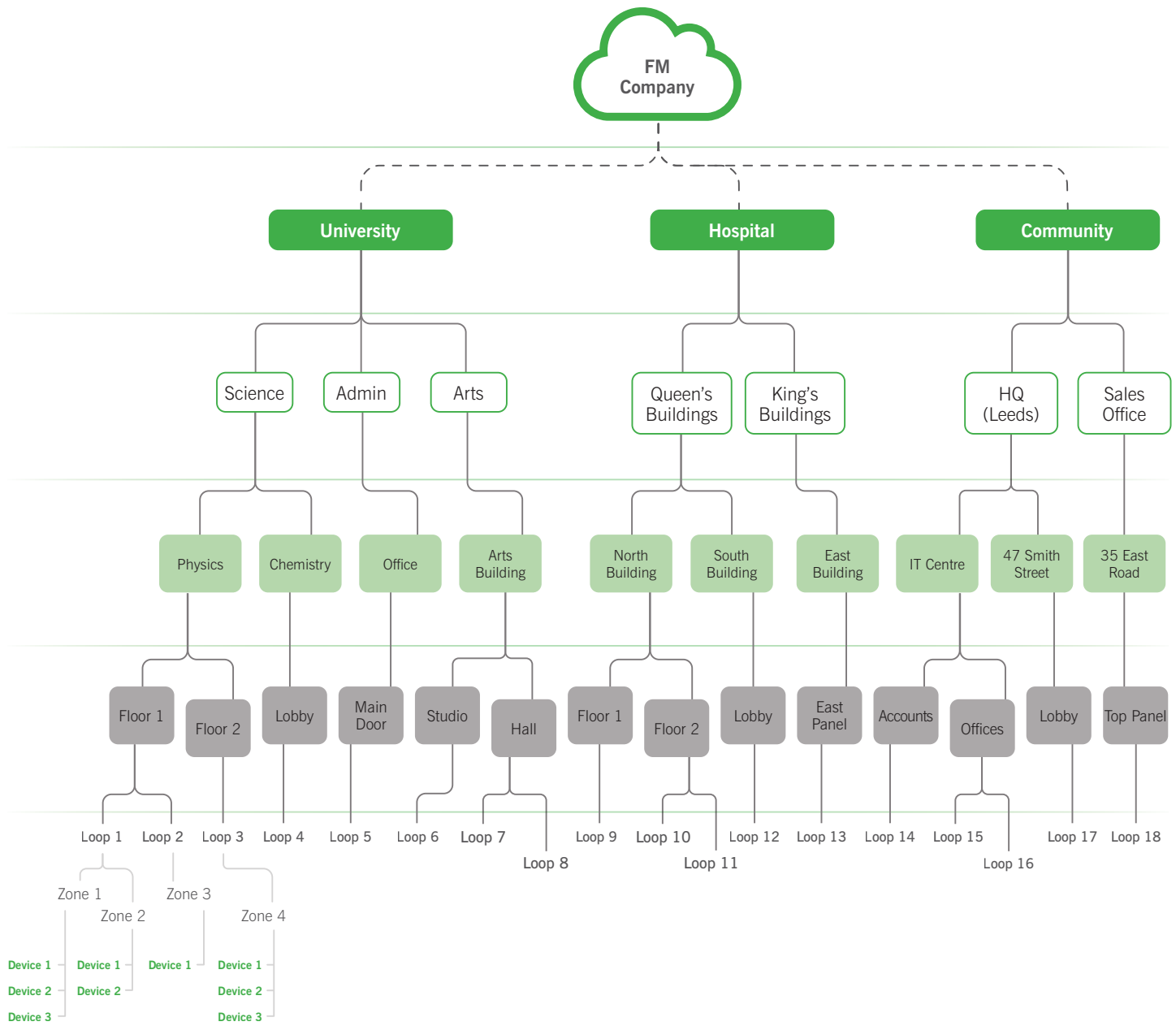


Cloud Naming Structure

Example two

Lux Cloud is perfect for remotely monitoring multiple sites.

You can easily keep tabs on separate sites whilst maintaining the level of detail needed to ensure the site is compliant. Maintenance reports can be generated that are site specific, so forwarding on required rectification works to the right people has never been easier.



Retrofit and Conversion

Retrofit

Our intelligent PLUs can be retrofitted to almost any existing luminaire.

Just by adding our PLUs to your devices and a simple data cable, your system can become a centralised, automatic testing system without having to replace your existing devices.

Conversion

If you don't want the hassle of converting devices yourself, simply send them to us and we can convert your lights for you.

Not only will we ensure your devices are returned to you ready to plug into your new system, we will also take over the warranty of the device for your ease of mind.

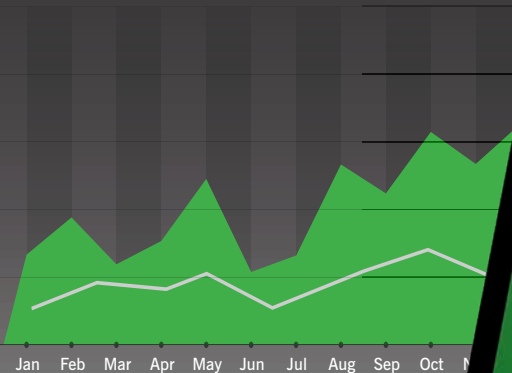
LuxIntelligent was chosen to replace an obsolete system at Plas y Brenin, the National Mountain Sports Centre in the heart of Snowdonia

We'll Show You The Savings



We're so confident LuxIntelligent's emergency light testing and monitoring features will save your engineers and managers time and money, that we've developed a calculator to show you the numbers.

Simply enter your details and calculate the savings for either a new installation or a retrofit at www.luxintelligent.com/savings



Pulse Light Modules

Pulse light units are a range of addressable modules designed for use with the LuxIntelligent emergency lighting test panel. The modules provide the ability to make a standard emergency luminaire into an addressable luminaire that can be automatically tested and monitored by the LuxIntelligent panel 24 hours a day and 365 days a year.

All the modules are loop powered, which means that even if the local power fails where the luminaires or devices are installed, the panel will still be able to monitor their condition. They do not use any power from any batteries installed with the luminaires.



The Lxp-302 modules provide control and monitoring of the luminaire AC mains power, battery condition and lamp status, giving actual battery voltage and light level measurements at the control panel. This device may be used for central battery and static inverter installations. The Lxp-302 module can be configured to monitor a luminaire operating as either a maintained or non-maintained luminaire.

The Lxp-110 module provides control of a central battery unit, whilst also being able to monitor fault conditions via a dry contact input.

The Lxp-111 module must be used in conjunction with the Lxp-302 module. It provides a light output based on the lamp current monitored. It is suitable for applications where it is not possible or convenient to monitor the actual light level directly, for example, tungsten lamps.

Installation

Typical wiring configurations are shown opposite.

Key Features

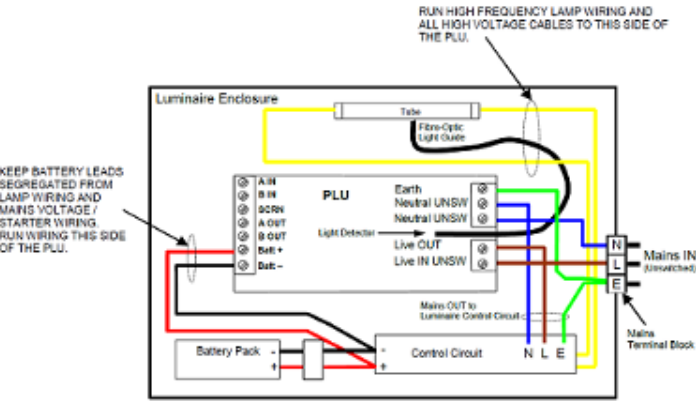
- Allows standard emergency luminaire to be used as an addressable luminaire
- Allows the monitoring of critical parameters
- Enables the automatic testing of emergency luminaires
- Fully supports all the features of the Lux Intelligent panels

Specification	Lxp-302	Lxp-110	Lxp-110
Dimensions (H*W*D)	130*42*20	130*42*20	130*42*20
Fixing centres	118mm	118mm	118mm
Temperature	65°C	65°C	65°C
Terminal size	0.35-2.5mm ²	0.35-2.5mm ²	0.35-2.5mm ²
Addresses	1-249	1-249	1-249
Battery range	1.2-12.0V ±2%	N/A	N/A
Relay output	250Vac(125VA)	N/A	N/A
Loop voltage	15-32Vdc	15-32Vdc	N/A
Current	1.7mA	1.7mA	N/A
Current (energised)	1.7mA	4.0mA	N/A
Current (on)	N/A	2.7mA	N/A

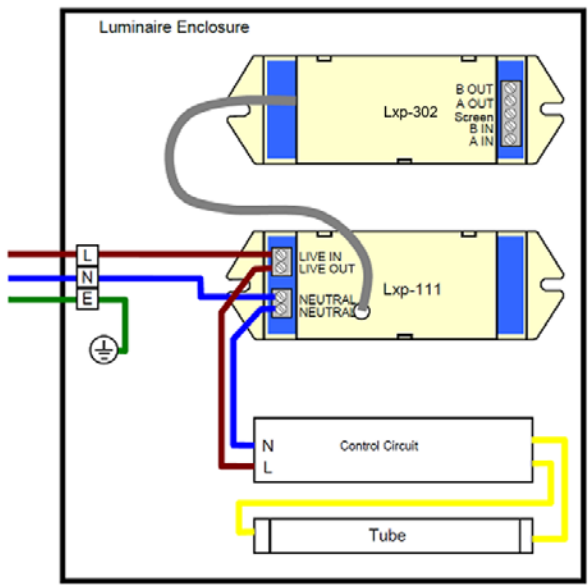
More Information

All pulse light modules communicate over a two-wire communication link. They all have two pairs of terminal chambers to allow loop in and loop out cabling. The Lxp-302 module is supplied with the necessary grommets for mounting of the fibre optics, whilst it is also possible for them to be supplied with the necessary clips for attachment to fluorescent tubes (append -T5 for T5 diameter tubes and -T8 for T8 diameter tubes, for example Lxp-302-T8).

Typical Lxp-302 Wiring Installation



Typical Lxp-111 Installation



For part numbers and order options, please contact us directly.

Intelligent Low-Voltage Emergency Lights

EasySafe is a new range of addressable, low-voltage emergency luminaires and exit signs that work with our proven, high-performing LuxIntelligent control panel.

- Up to 8 loop cards
- Network panels via LAN or LuxIntelligent cloud
- 50 EasySafe devices per loop card
- Maximum of 400 EasySafe devices per panel
- 199 additional standard LuxIntelligent devices per loop card
- Maximum of 1,592 additional standard LuxIntelligent devices
- Total of 1,992 devices per panel



- ★ Low-voltage
- ★ Fast installation
- ★ Self-testing/reporting
- ★ Addressable



Easy installation

EasySafe lights are quick and easy to fit and service with a simple 'twist and click' installation onto a first-fix base.

There is no need for a fully-qualified electrician, and devices can be swapped in and out safely and easily.

Add to your existing lights

Our low-voltage EasySafe devices are powered directly from the LuxIntelligent control panel, so a local power supply is not required.

They can sit alongside LuxIntelligent luminaires and exit signs using existing wiring to form one intelligent emergency lighting system.

Reliable and versatile

EasySafe lights are a low-voltage option within our existing emergency lighting system which is renowned for its quality and reliability.

The system offers true scalability. One LuxIntelligent panel can support up to 400 EasySafe devices alongside an additional 1,592 locally-powered devices.

Compliance made easy

It's never been easier to manage maintenance and compliance.

Test results and maintenance data are reported in our LuxIntelligent cloud platform and are available at the touch of a button via our cloud-connected LuxIntelligent control panel, PC or mobile app – wherever you are in the world.



EasySafe Downlighter

The EasySafe range of surface-mount luminaires offers a simple method of providing discrete emergency lighting in areas that require a robust surface-mounted, self-contained solution.

Available with a symmetrical wide angle lens or an asymmetrical 'corridor' lens for escape routes. The luminaire simply requires an addressable wiring connection to the LuxIntelligent panel to provide effective non-maintained emergency lighting with a 3-hour duration. The LED-Lite fully supports all features of the LuxIntelligent test system.

Operation

The EasySafe downlighter is supplied with integral non-maintained emergency lighting addressable control gear. The self-contained unit offers 3-hour emergency lighting duration from integral nickel-metal hydride batteries. The EasySafe downlighter incorporates a high-brightness green LED into the white polycarbonate bezel to provide battery charge and luminaire healthy indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply (monitored by the LuxIntelligent panel at source). The benefits of modern LEDs are well documented.

Installation

The EasySafe downlighter units are easily installed, base first, just like standard fire detectors. There is no local mains feed required, reducing costs from both labour and materials requirements. When the 'corridor' lens is specified and installed, the LED component can easily be rotated in situ, to align the distribution along the escape route.

EasySafe LED Downlighter



EasySafe LED Downlighter – Corridor Lens Version



EasySafe LED Downlighter Base



Key Features

- Fully compatible with LuxIntelligent test system
- Available as open area or 'corridor' options
- Reliable LED technology
- Powered from the LuxIntelligent data loop
- Excellent spacing values
- Discrete surface-mounted LED luminaire
- Robust construction
- Simple 'first fix' bases

Specification

Supply voltage	Low voltage (32V)
Quantity	Up to 50 EasySafe type luminaires per loop
Light source	3W white LED
Cable termination	14/16 AWG, 1.3/2.0mm 2
Body	PC/ABS 2950
Colour	White body (RAL9003) & grey base (Pantone 429)
Dimensions (H*W*D)	120 (diameter)* 43 (height) (mm)
Weight	0.229Kg (including batteries)

Spacing Data

Open area downlighter, open area to 0.5Lux

Mounting Height (m)	Spacing to wall (m)	Spacing between (m)
2.0	2.3	7.4
2.5	2.4	8.1

Corridor downlighter, 2m wide corridor

Mounting height (m)	Spacing 1 Lux axial to wall (m)	Spacing 1 Lux between (m)
2.0	4.5	13.0
2.5	2.35	12.7

Spare Parts

The following codes can be used for replaceable parts:

ESL/B	Standard downlighter replacement base
ESL/BP	Replacement downlighter replacement battery pack

For part numbers and order options, please contact us directly.

EasySafe Exit Luminaire

The EasySafe exit sign is a reliable, attractive product that offers excellent performance with long life and low energy benefits.

Its versatile design allows it to be both wall and ceiling mounted. The legends are available with a choice of directions and formats (European or ISO). Although smaller than conventional fluorescent exit signs, the EasySafe exit luminaire still provides a useful 25-metre viewing distance, in both mains and emergency modes. The EasySafe luminaire fully supports the self-testing features of the LuxIntelligent test system and complies with all the relevant requirements of EN60598.2.22. Since it is totally powered via the LuxIntelligent panel, it uses the LuxIntelligent I/O peripheral to monitor local power distribution boards to allow the lights to react in the event of power outages.

Operation

The luminaire is available only as a maintained fitting with low illumination under normal conditions making it useful in such applications as cinemas and theatres. In the event of a power outage, the illumination switches to maximum output, providing clear direction towards exits. The EasySafe luminaire uses state-of-the-art reflective screens to ensure the LEDs evenly illuminate the safety sign legend. Luminaires are supplied with integral maintained emergency control gear, which ensure that in the event of a power failure, the exit sign continues to operate with the same level of luminance for three hours from the internal NiMH battery.

Installation

The EasySafe luminaires are easily installed, base first, just like fire detection devices. The luminaire body simply clicks in place when required. A small screw can be used to fix the hanging angle, depending on wall or ceiling fixing. There is no local mains feed required, reducing both labour and material costs.

EasySafe Exit Luminaire



Mounting Bracket/Base



EasySafe Family



Key Features

- Fully compatible with LuxIntelligent test system
- Long life and low energy performance
- Sleek stylish design
- Fully complies with all aspects of EN60598.2.22
- Viewing distance 25m
- Low maintained luminance level ideal for use in cinemas and theatres

Specification

Supply voltage	Low voltage (32V)
Quantity	Up to 50 EasySafe type luminaires per loop
Light source	High output white LEDs
Cable termination	15/16 AWG, 1.3/2.0mm 2
Body	PC/ABS 2950
Colour	White body (RAL9003), grey base & bracket (Pantone 429)
Dimensions (H*W*D)	301 (L) * 212 (H) * 80 (D) (mm)
Weight	0.738Kg (including battery pack)
Batteries	4 AAA NiMH 4.8V 600mAH pack
Viewing distance	25m

For part numbers and order options, please contact us directly.

Light and Luminaire Range

LUX INTELLIGENT

LuxIntelligent can sit on your existing lighting system cabling and use your existing luminaires.

It is one of the few systems that can meet all your emergency lighting needs in one system and will work with standard and specialist lights.

LuxIntelligent modules convert most third-party standard and LED lights into addressable lights that work with the LuxIntelligent panel. Advanced is ICEL 1004 approved and can carry out conversions to the highest of standards.

More info at www.luxintelligent.com



Central Battery and Static Inverter

Our system is compatible with and works well alongside existing or new central battery or static inverter systems.

- For retrofit, our Intelligent PLUs and panel can easily be added to your existing luminaires for either system type. They provide centralised monitoring for all your devices and proof of compliance.
- For new systems or light fittings, we have a range of LuxIntelligent compatible 'slave' fittings that do not come with a localised battery back-up but are ready to be connected to the central battery system.
- We can easily integrate the central battery with our intelligent input/output interface to drive a range of different events.
- For static inverter systems, we also have 230V hold-off relays available that ensure any automatic switchover of power is timed correctly to reduce any risk of arcing between out-of-sync phases.



Please note that whilst LuxIntelligent can work alongside and is compatible with these systems, we do not supply any central battery or static inverter system.

LED-Lite Recessed

The LED-Lite range of recessed luminaires offers a simple method of providing discrete emergency lighting in areas that require a self-contained solution.

Available with a symmetrical wide-angle lens or an asymmetrical ‘corridor’ lens for escape routes, the luminaire simply requires a permanent 230 volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a 3-hour duration. This version is available in maintained version for such applications as ‘night lighting’ in hospital wards. This version comes complete with a robust remote enclosure which houses all the control components.

An alternative LED head is available that uses three 1W LEDs in a dichroic housing, complete with a ‘through hole sausage pack’ to allow installation into solid ceilings such as plaster. The LED-Lite fully supports all features of the LuxIntelligent test system.



Operation

The LED-Lite is supplied with integral non-maintained emergency lighting control gear. The self-contained unit offers 3-hour emergency lighting duration from integral nickel-metal hydride batteries. The LED-Lite incorporates a green LED to provide battery charge indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented.

Installation

The LED-Lite recessed units can be discretely mounted in a 45mm cut-out, whilst the larger three by 1W LED modules require a 72mm cut-out. When the ‘corridor’ lens is specified, the LED can easily be rotated to align the distribution along the escape route.

Key Features

- Available as open area or corridor versions
- Reliable LED technology
- Low power consumption
- Excellent spacing values
- Discrete recessed LED luminaire
- Fully compatible with LuxIntelligent test system
- Suitable for a mixture of ceiling types

Specification

Supply voltage	230 volt (220-240V) @50Hz
Supply current	Non-maintained: 40mA (9W max.)
Light source	3W white LED or 3 by 1W white LEDs
Body	Steel remote box or through-hole sausage pack
Cut-out diameter	45mm (3W LED) or 72mm (3 by 1W LEDs)
Dimensions (H*W*D)	285 * 95 * 40 (mm) (remote box)
Weight	1.0kg (3W LED) & 0.8kg (3 by 1W LEDs)

Spacing Data

Mounting height (m)	Open area lens		Corridor lens	
	Spacing (m) 0.5 Lux open area	Spacing (m) 1 Lux min. escape	Spacing (m) 0.5 Lux open area	Spacing (m) 1 Lux min. escape
2.0	6.9	6.6	N/A	10.0
2.5	7.2	6.9	N/A	10.8
3.0	7.8	8.0	N/A	11.9

Through-Hole Pack



Disymmetric Corridor Lens



For part numbers and order options, please contact us directly.

LED-Lite Surface

The LED-Lite range of surface mount luminaires offers a simple method of providing discrete emergency lighting in areas that require a robust surface-mounted, self-contained solution.

Available with a symmetrical wide-angle lens or an asymmetrical ‘corridor’ lens for escape routes, the luminaire simply requires a permanent 230 volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a 3-hour duration. The LED-Lite fully supports all features of the LuxIntelligent test system.



Operation

The LED-Lite is supplied with integral non-maintained emergency lighting control gear. The self-contained unit offers 3-hour emergency lighting duration from integral nickel-metal hydride batteries. The LED-Lite incorporates a high brightness green LED into the white polycarbonate bezel to provide battery charge indication. The luminaires will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented.

Installation

The LED-Lite units have a BESA rear entry and 20mm knock-outs for surface conduit entry. When the ‘corridor’ lens is specified, the LED can easily be rotated to align the distribution along the escape route.

Key Features	
Fully compatible with LuxIntelligent test system	
Available as open area or 'corridor' options	
Reliable LED technology	
Low power consumption	
Excellent spacing values	
Discrete surface mounted LED luminaire	
Robust construction	

Specification	
Supply voltage	230 volt (220-240V) @50Hz
Supply current	Non-maintained: 40mA (9W max.)
Light source	3W white LED
Cable entry	2*20mm entries, 1*BESA (rear)
Body	Steel back box with steel fascia plate
IP ratings	IP20 (at 25°C)
Dimensions (H*W*D)	195 * 195 * 40 (mm)
Weight	1.5kg

Spacing Data				
Mounting height (m)	Open area lens		Corridor lens	
	Spacing (m)	Spacing (m)	Spacing (m)	Spacing (m)
	0.5 Lux open area	1 Lux min. escape	0.5 Lux open area	1 Lux min. escape
2.0	6.9	6.6	N/A	10.0
2.5	7.2	6.9	N/A	10.8
3.0	7.8	8.0	N/A	11.9

Finishes
Available with black or grey enclosure.

Mor-LED

The Mor-LED bulkhead is a robust IP65 rated polycarbonate base combined with a clear fresnel lens housing 16 high-output white LEDs and constant current maintained drive circuit.

The luminaire provides 90 lumens and the lens generates a wide intensity distribution ideal for providing good luminance on an escape route. A deep (150mm) opal diffuser is available to provide double sided signage if required. The Mor-LED fully supports all features of the LuxIntelligent test system and complies fully with all the relevant requirements of EN60598.2.22.



Operation

The Mor-LED is supplied with integral maintained emergency lighting control gear. The non-maintained operation is achieved by excluding the switched live supply. The self-contained variants offer 3-hour emergency lighting duration from integral nickel cadmium batteries. The luminaires can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a loss of local mains supply. The benefits of modern LEDs are well documented. They are very energy efficient and offer very long life (typically over 50,000 hours).

They also operate at low temperatures (no cold starting problems) and do not create higher internal temperatures, therefore improving the life of the internal batteries as well as making them more suitable for use in cold store environments. They are ideal for low-maintenance applications offering four to five years of maintenance-free operation.

Installation

20mm drilling points are available at either end of the base as well as one on the rear.

Key Features

- Fully compatible with LuxIntelligent test system
- Long life LEDs (50,000 hours)
- IP65 rated bulkhead
- Low power consumption (less than 10W)
- Suitable for use in cold stores (down to -20°C)
- Fully complies with all aspects of EN60598.2.22
- Lens can be fitted with 100mm high self-adhesive signs

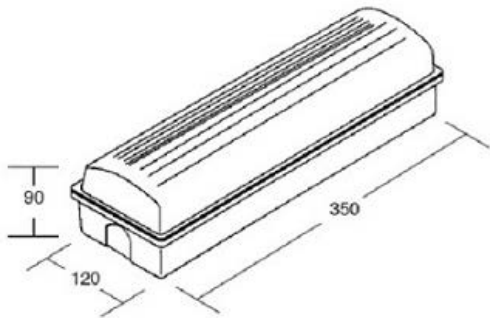
Specification

Supply voltage	230 volt (220-240V) @50Hz
Supply current	Maintained: 40mA (9.6VA max.)
	Mains only: 25mA (5.0VA max.)
Light source	16 white LEDs
Cable entry	20mm drilling points (polycarbonate)
Geartray	Hinged white painted steel
IP ratings	IP65 (at 25°C)
Dimensions (H*W*D)	350 * 120 * 90 (mm)
Weight	1.5kg (1.6kg with deep diffuser)

Spacing Data

Mounting height Hm (m)	Trans. to wall	Trans. to trans	Axial to trans.	Axial to axial	Axial to wall	
2.5	1.6	5.9	4.3	3.0	1.0	1 Lux min. at centre
4.0	1.1	4.7	3.6	2.6	0.4	
2.5	2.6	8.7	7.2	4.7	1.2	0.5 Lux min. (open)
4.0	1.9	8.5	7.0	4.5	0.6	

Dimensions



Deep Defuser



For part numbers and order options, please contact us directly.

Circu-LED

The Circu-LED offers a decorative, surface-mounted circular luminaire, incorporating high-output white LEDs providing ultra-long life and low power consumption.

The LED luminaires use an aluminium base (white as standard) and a twist on fire-retardant PMMA diffuser. The luminaire has a huge 1550 lumens output and is not prone to the issues often prevalent in the 28W T5 counterpart fittings. This makes it an ideal replacement for such areas as stairwells, where building owners may wish to use motion detectors to cut down on unnecessary lighting for areas not permanently occupied.



Operation

The range can be supplied as mains only or maintained emergency versions. Both versions are available with 1-10V dimming control as an option. All emergency versions provide 3-hour duration from integral high-temperature nickel cadmium batteries. Maintained versions can be used for standard switched mains lighting but will automatically provide emergency power in the event of loss of the local mains supply.

Installation

The luminaire has a 20mm entry at the centre of the back plate of the aluminium base.

Key Features

- Decorative circular LED luminaire
- Fully LuxIntelligent compatible
- Long life LEDs (50,000 hours)
- Low power consumption
- Standard and dimmable versions available
- Fully complies with all aspects of EN60598.2.22

Specification

Supply voltage	230 volt (220-240V) @ 50Hz (PF 0.92)
Supply power	Mains: 24W Maintained: 27.5W
Light output	1450 lumens (mains) 215 lumens (emergency)
Charge current	200mA (24 hour recharge period)
Light source	32 white LEDs
Construction	Aluminium base and PMMA diffuser
Cable entry	20mm entry (centre of back plate)
IP rating	IP 20 (at 25°C)
Dimensions	400mm diameter
Weight	2.6kg

Finishes

The Circu-LED is also available with a brushed silver body (see image right).



Spacing Data

	Mounting height Hm (m)	Fitting to wall	Fitting to fitting	
Large luminaire in emergency mode	2.5	2.9	6.1	1 Lux min at centre
	4.0	2.7	5.8	
	2.5	4.1	8.7	0.5 Lux min (open)
	4.0	4.4	9.8	

For part numbers and order options, please contact us directly.

Twin-LED

The Twin-LED projector luminaire provides a simple and efficient means of creating a high level of emergency illumination across a given area. The luminaire uses a unique lens system offering a high degree of optical control, resulting in high-intensity beam patterns across a working plane.



Operation

The standard luminaire mode of operation is as a non-maintained emergency unit. In the event of a power failure, the units will switch to emergency operation immediately, making them ideal for high-risk areas. They will operate the projectors for three hours. The two 3 Watt LED projector heads are powered by integral nickel cadmium (NiCd) rechargeable batteries that fully comply with the requirements of BSEN 60598-2-22. The emergency function fully supports all the features of the LuxIntelligent test system.

Installation

The projector heads can be remotely mounted away from the control box. The construction of the control box also allows for the mounting of the unit with the projectors on the underside. The luminaire has 20mm knock-outs in one end at the back for ease of cable entry.

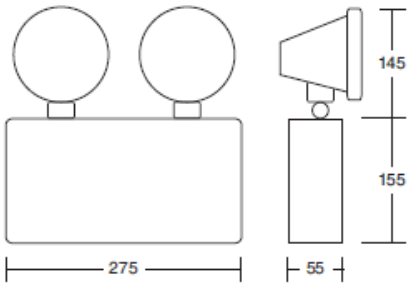
Key Features

- Ideal for high risk processes
- Energy-efficient LED solution
- Complies with BS EN 60598-2-22
- Full photometry available
- Wall-mounted at 2.5m can be spaced at 25m achieving 1 Lux centre line
- Fully compatible with the LuxIntelligent test system

Specification

Supply voltage	230 volt (220-240V) @ 50Hz
Supply power	2W
Light source	Two 3W LED heads (9 white LEDs each)
Light output	2 * 380 lumens
Recharge period	24 hours (14 hours to one hour duration)
Charging power (typical)	2W
IP rating	IP20
Ambient temperature	25°C
Insulation class	Class 1
Colour temperature	5000K
Dimensions (mm)	275 x 155 x 55 (W x H x D)
Total height (including heads, mm)	300
Weight	3.6kg

Twin-LED dimensions



TLED/NM3/P



For part numbers and order options, please contact us directly.

Exi-LED

The Exi-LED exit sign is a reliable, attractive product that offers excellent performance with long life and low energy benefits. Its slim but robust welded steel housing, available in a selection of finishes, provides a ‘picture frame’ appearance around the brightly lit exit legend.

These legends are available with a choice of directions and formats (European or ISO). Although smaller than conventional fluorescent exit signs, the Exi-LED still provides a useful 25-metre viewing distance, in both mains and emergency modes with 15 high brightness white LEDs and state-of-the-art reflector. The Exi-LED fully supports all features of the LuxIntelligent test system and complies with all the relevant requirements of EN60598.2.22.



Operation

The Exi-LED panel features matrix dot coating to ensure the LEDs evenly illuminate the safety sign legend. Standard luminaires are supplied with integral maintained emergency control gear, which in the event of a power failure, will ensure the exit sign continues to operate with the same sign luminance for three hours from the internal NiMH battery.

Installation

The Exi-LED mounts on the wall using simple keyhole slots or via the central BESA entry. The front cover simply hooks onto the back plate and is retained with a single fixture located centrally on the base.

Key Features

- Fully compatible with LuxIntelligent test system
- Long life and low energy performance
- Sleek stylish design
- Fully complies with all aspects of EN60598.2.22

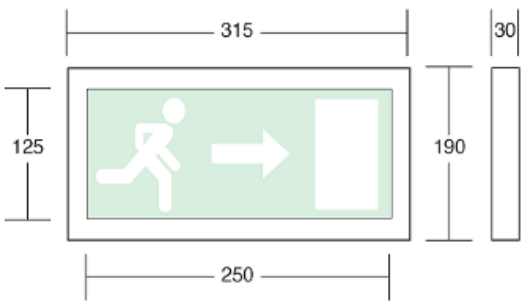
Specification

Operation	Maintained 3 hour
Light source	15 long-life white LEDs
Battery	2.4V 2.0Ah NiMH
Input voltage	230V +/-10% 50Hz
Charge current	100mA nominal
Recharge period	24 hours (14 hours for 1-hour duration)
Power	10VA
IP rating	IP20
Weight	1.7kg
Cable entry	Central rear BESA entry

Legends

- The standard Exi-LED is supplied with ISO format exit legends. Unless stated, the luminaire will be supplied with the arrow down direction.
- The legends are also available in the EC Signs Directive and should be ordered with the following codes appended.

Dimensions



For part numbers and order options, please contact us directly.

Blade LED

The Blade LED range of LED exit sign luminaires meets all the expectations of LED luminaires – long life, lower energy and a choice of attractive design solutions.

All variations are supplied with legend ‘screens’ mounted onto the face of an acrylic panel. The luminaires can be surface mounted, suspended or recessed. The recessed units look more conventional but still use the latest LED technology. The surface-mounted and suspended versions feature extruded aluminium housings for the LEDs and associated control gear, with separate kits available to convert a standard ceiling mounting luminaire into a suspended or wall-mounted variation.

Suspended and surface-mounted Blade LEDs are much smaller and more attractive than their conventional fluorescent counterparts, but still meet all the requirements, including achieving the 28-metre viewing distance. 15 high brightness white LEDs clearly and evenly illuminate the safety sign legends.



Operation

All units are supplied with integral maintained emergency lighting control gear, which can be configured to run in a non-maintained condition too. In the event of a supply failure, the exit signs will be illuminated for three hours. The luminaires support all the features of the LuxIntelligent range of emergency lighting test panels.

Installation

A range of mounting brackets are available to allow direct fixing to walls and ceilings for both surface and suspended versions, while the recessed version comes complete with adjustable arms to simplify installation into different thicknesses of supporting surfaces. The recessed unit is supplied with a visible ceiling plate.

Key Features

- Long life and low energy performance
- Fully compatible with LuxIntelligent test system
- Versatile stylish design
- Complies with EN60598.2.22

Specification

Supply voltage	230 volt (205-255V) @ 50Hz
Power	12VA
Light source	15 long life white LEDs
Battery	4.8V 1.1Ahr NiCd
Charge current	200mA nominal
Recharge period	24 hours (14 hours for 1 hour)
IP rating	IP20
Weight	2kg

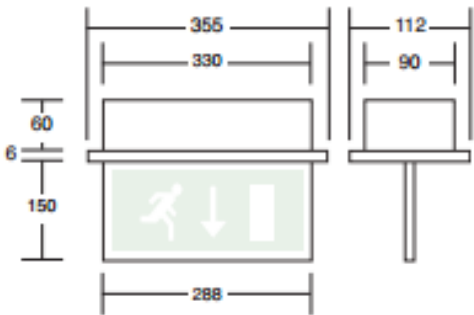
Legends

As standard, the Blade LED luminaire comes complete with EC format left/right direction arrows. Other directions can be ordered by appending the following codes to the product part number.

Finishes

The Blade LED is available in three finishes, white, silver and chrome. Please note these also apply to the fixing kits.

Dimensions



Recessed Version

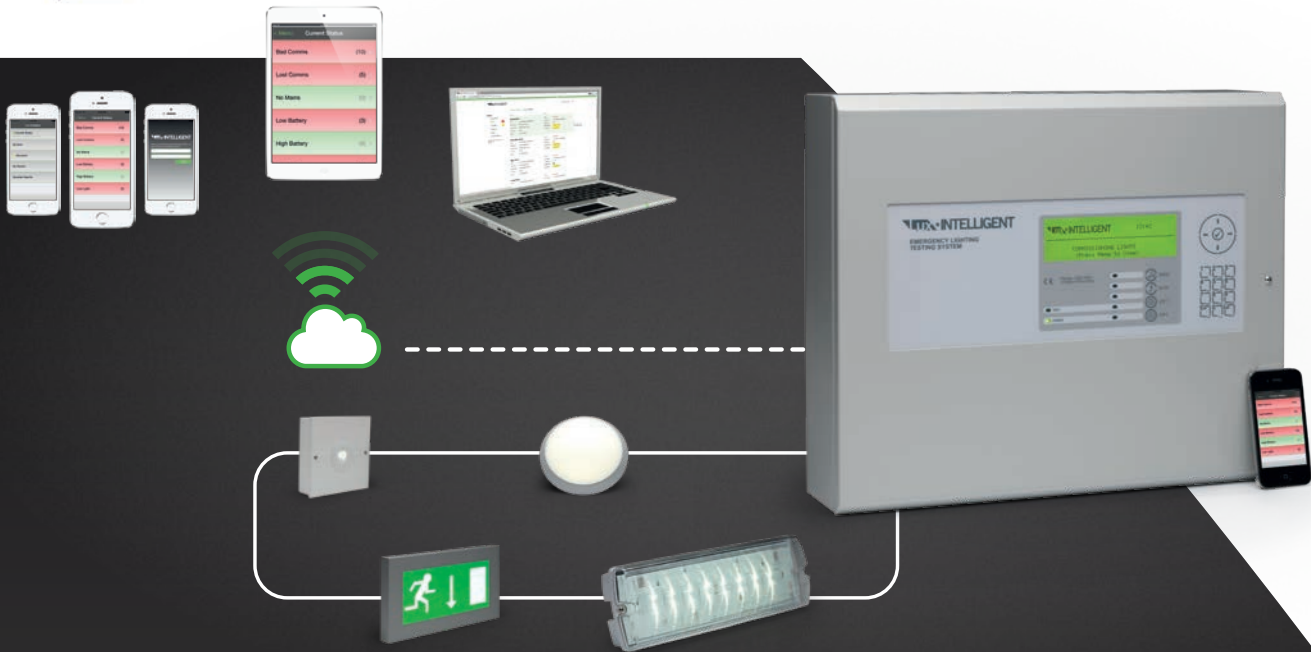


For part numbers and order options, please contact us directly.

System Summary

The table below highlights the key features of LuxIntelligent.

	LuxIntelligent by Advanced
Maximum loops per standard size panel	4
No. of mains-powered lights per loop	249
No. of mains-powered lights per panel	996
No. of low-voltage lights per loop	50
No. of low-voltage lights per panel	200
Total no. of supportable devices	996
Hybrid of low-voltage and mains-powered emergency lighting?	Yes
Compatible with central battery systems / static invertors?	Yes
Data cable voltage	32V DC
Remote cloud service?	Yes
Secondary interface panel required?	No
Separate stepdown transformer required?	No
Event memory	1000 events
Maximum networkable panels	200
Able to convert non-emergency lights to emergency lights?	Yes
Able to work with pre-existing emergency lights?	Yes
Light spacing between low voltage open-area devices – 2m height	7.40m
Light spacing between low voltage corridor lens devices – 2m height	13.00m
No. of low voltage corridor devices needed for 2m high, 500m long corridor?	39
Adjustable corridor lens alignment after installation?	Yes
Battery type	NiMH
Power consumption of luminaires whilst charging	0.4W
Battery supplied or sold separately?	Supplied with devices
Designed to comply with BS EN 60598-2.22 (4 year battery life)?	Yes
First fix, common base?	Yes
Adjustable emergency exit sign angle?	Yes



The best route to compliance for your emergency lighting

Our flexible training module on emergency light testing includes:

- ★ An overview of the 2016 update to BS5266-1
- ★ How to comply
- ★ How to be proactive

We can tailor the module to suit your requirements. For example, we can come to your offices and either fit the CPD around a working lunch, or spend longer with you to answer questions and cover the content in more detail.

As well as visiting your offices, we can also host both CPD and training sessions in one of our UK offices (Newcastle upon Tyne or Barnsley). Alternatively, we offer fully remote sessions via video conference.

Contact us to discuss your requirements and we will find a solution suited to you.

To make a booking or discuss your requirements, email:

sales@luxintelligent.com



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Advanced

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