Blade-LED - obsolete

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



Features

- Long life and low energy performance
- Recessed, suspension and surface mount versions available
- Fully compatible with LuxIntelligent test system
- Complies with EN60598.2.22
- 28m viewing distance

Specification

Supply voltage	230Volts (205-255V) @ 50Hz
Supply power	4.5W
Charge supply (typical)	1.7W
Light source	15 long life white LEDs
Colour temperature	4500K
Battery	4.8V 0.9Ah NiCd
Charge current	200mA nominal
Recharge period	24 hours (14 hours for 1 hour)
IP rating	IP20
Weight	Less than 3kg

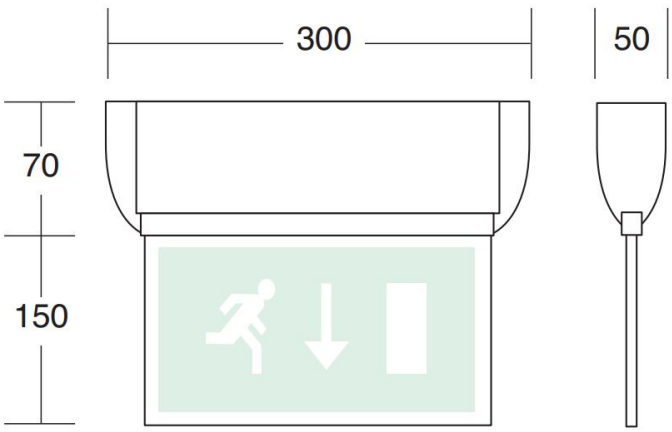
Order Codes

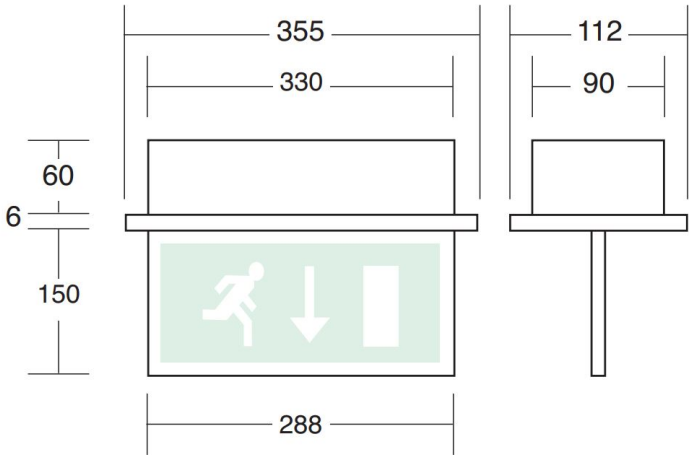
BLED/M3/P:	Surface Blade-LED 3 hour maintained double sided emergency luminaire (white finish) - Reversible Arrow Right or Left
BLED/M3/P/R:	Recessed Blade-LED 3 hour maintained double sided emergency luminaire (white finish) - Reversible Arrow Right or Left
BLED/WB/W:	Blade-LED white wall mounting bracket
BLED/WSK/W:	Blade-LED white wire suspension kit
/AD	Add suffix "AD" for Arrow Down legend
/AU	Add suffix "AU" for Arrow Up legend
/ISO	Add suffix "/ISO" for ISO standard running man - comes as EC format running man as standard

Colour options available - white, chrome and black









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Circu-LED - obsolete

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 1920 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.

The Circu-LED luminaire range supports all the features of the LuxIntelligent range of emergency lighting test panels and also fully complies with the requirements of EN60598.2.22.

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 provides 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.



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

Light Source	White LEDs (2800lm)
Colour temperature	4500K
Light output	1920 lumens (mains) 410 lumens (emergency)
Construction	White aluminium base with twist-on PMMA diffuser
Geartray	Integral to base
Dimensions	395mm (dia) x 113mm (H)
Cable entry	20mm hole (centre of back plate)
IP rating	IP20
Ambient temperature	25°C
Insulation class	Class I
Supply voltage	230V ~ 50Hz
Supply power	22.7W (mains) 26.1W (emergency)
Charge power (typical)	3.5W (emergency)
Battery	1 x 6.0V 2.0Ah NiCd
Weight	1.3kg (mains) 3.4kg (emergency)

Order Codes and Options

ULED/M3/P	Circu-LED Luminaire, Surface Mount, Maintained, Addressable - 0.40M Diameter
ULED/230	Circu-LED Luminaire, Surface Mount, Mains Only, Non-Addressable - 0.40M Diameter
ULED/M3/P/MW	Circu-LED Luminaire, Surface Mount, Maintained, Addressable - 0.40M Diameter (with Microwave Detector)

More Information

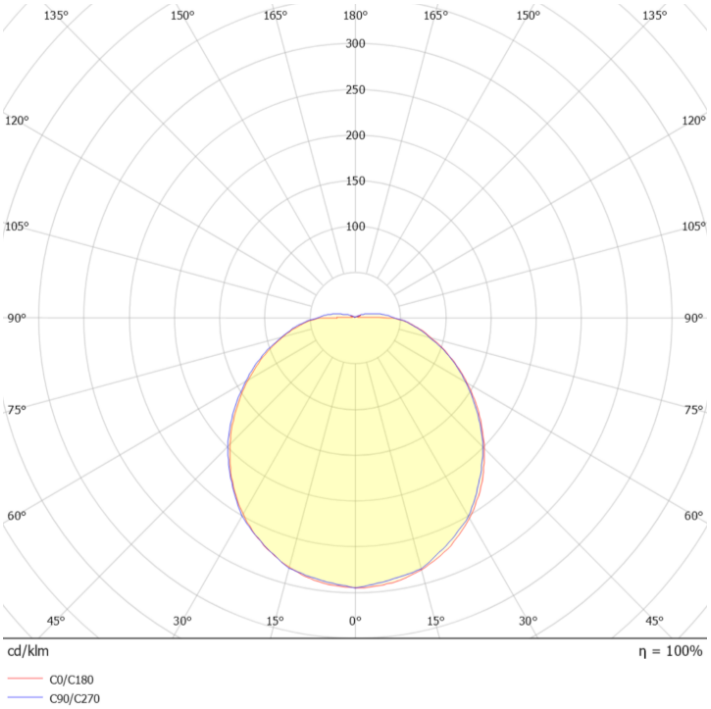
Spacing Data

	Mounting Height (m)	Fitting to Wall	Fitting to Fitting
1 Lux min at centre	2.5	4.2	10.7
	4.0	4.8	12.5
0.5 Lux min (open area)	2.5	5.2	11.6
	4.0	5.4	13.0

Finishes



Light Output Curve



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Exi-LED - obsolete

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 3 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.



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 one-hour duration)
Power	10VA
IP rating	IP20
Weight	1.7kg
Cable entry	Central rear BESA entry

Order Codes and Options

ELED/M3/P:	Exi-LED wall mounted 3 hour exit sign with white finish
ELED/M3/P/SG:	Exi-LED wall mounted 3 hour exit with textured silver/grey finish
ELED/M3/P/WH:	Exi-LED wall mounted 3 hour exit with textured white finish

More Information

Legends

The standard Exi-LED is supplied with ISO format exit legends. Unless stated, the luminaire will be supplied with the arrow down direction. For other variants, the following codes should be added to the full product code:

/AR Arrow Right

/AL Arrow Left

/AU Arrow Up

The legends are also in available in the EC Signs Directive and should be ordered with the following codes appended.

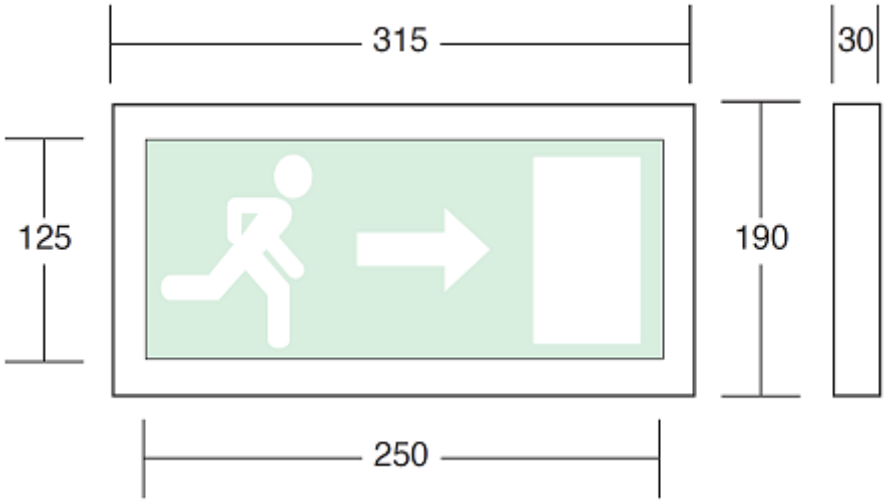
/ECAD EC Format, Arrow Down

/ECAR EC Format, Arrow Right

/ECAL EC Format, Arrow Left

/ECAU EC Format, Arrow Up

Dimensions



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Mor-LED - obsolete

The Mor-LED bulkhead is a robust IP65-rated polycarbonate base combined with a clear fresnel lens housing 16 high-output white LEDs and a constant current maintained drive circuit. The luminaire provides 150 lumens and the lens generates a wide intensity distribution ideal for providing good luminance on an escape route. We are also able to offer a high output variant that produces 800 lumens, suitable for areas such as treatment rooms. 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, thereby 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 4 to 5 years of maintenance-free operation. 20mm drilling points are available at either end of the base as well as one on the rear.



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 -20C)
- Fully complies with all aspects of EN60598.2.22
- Lens can be fitted with 100mm high self-adhesive signs
- 150 Lumens output as standard
- High output 800 Lumens variant available

Specifications

Supply voltage	230 Volt (220-240V) @50Hz
Supply power	3.0W
Charge power (typical)	1.2W
Light source	16 white LEDs
Colour temperature	4600K
Cable entry	20mm drilling points (polycarbonate)
Construction	White polycarbonate base & optical grade, UV stabilised lens
Geartray	Hinged white plastic
IP ratings	IP65 (at 25°C)
Dimensions (H*W*D)	350 * 120 * 65 (mm)
Weight	1.1kg (1.2kg with deep diffuser)
Battery	1 x 3.6V 1.5Ah NiCd
Luminaire lumens (mains & emergency)	150lm
Luminaire lumens (high output version emergency)	800lm

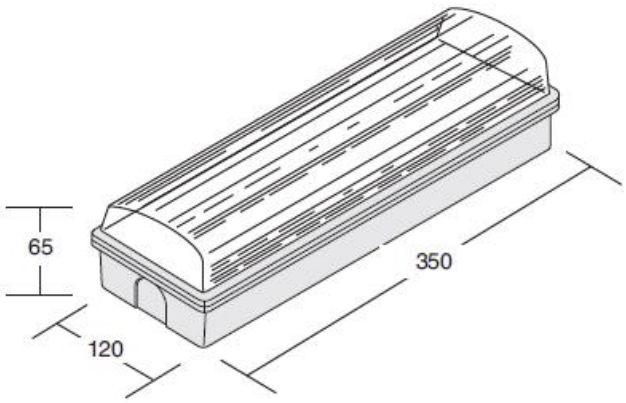
Order Codes and More Information

RLED/M3/P	Mor-LED IP65 Bulkhead, Surface Mount, Maintained, Addressable
RLED/NM3/P/FR	Mor-LED IP65 Bulkhead, Surface Mount, Non-Maintained, Addressable
RLED/SL/B	Mor-LED Semi-Recessing Bezel (120mm x 350mm bulkhead)
RLED/DDS	Mor-LED IP65 Deep Double Sided Diffuser for Escape Sign Conversion (including Adhesive Legends)*
LEG-001	Mor-LED, Self Adhesive Escape Sign - EC Arrow (Adjustable Direction)**

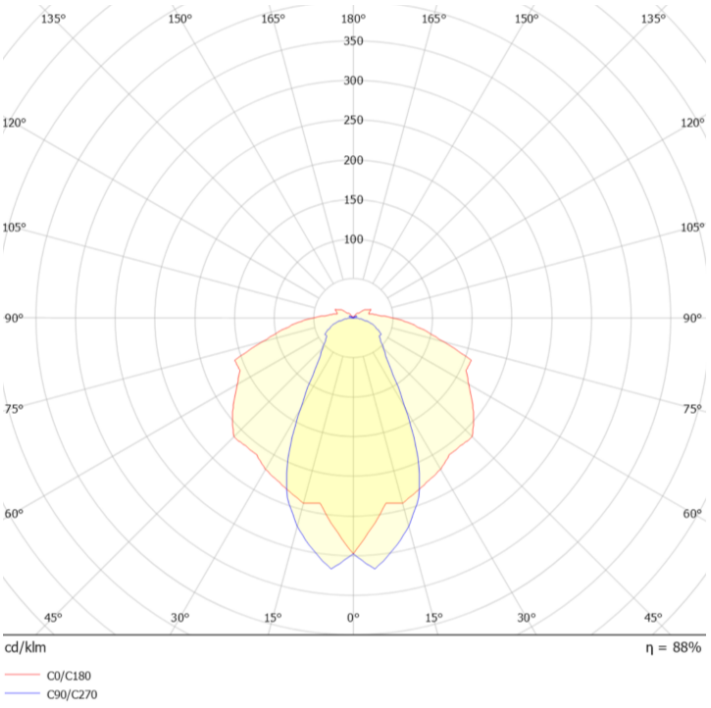
*RLED/DDS = 32m viewing distance / **LEG-001 = 25m viewing distance

Mounting Height (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 area)
4.0	1.9	8.5	7.0	4.5	0.6	

Dimensions



Light Output Curve



Deep Double-Sided Diffuser



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Panel-LED - obsolete

The Panel-LED is the latest in LED reliability and low energy lighting applications. The Panel-LED is only 12mm thick and drops into a standard 600mm square tile opening in exposed -T ceilings. They provide an aesthetically pleasing high output uniform light source with a colour temperature of 4500K (White). The front face of the Panel LED operates with an even luminance distribution and provides glare-free illumination on the working plane.

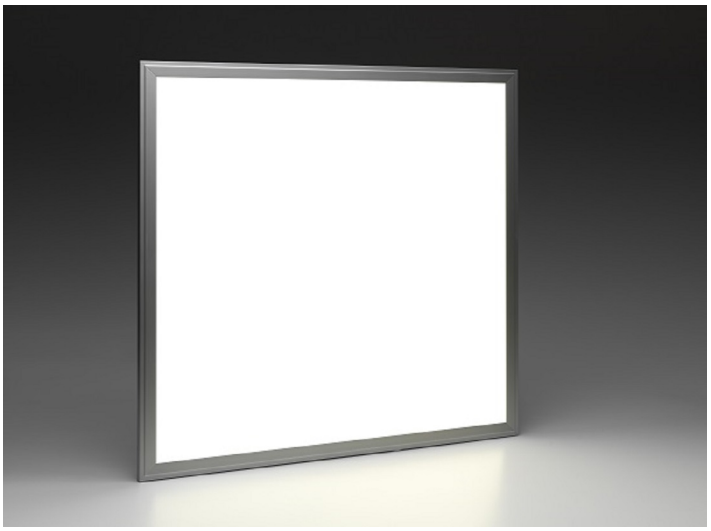
The Panel-LED luminaires are driven by 230Volt 50 Hertz small electronic drivers which are power-factor corrected. They can be supplied as standard mains-only luminaires and are also available as full emergency units. Dimming controls are also an option. The emergency option fully supports all the features of the LuxIntelligent test system and complies fully with all applicable requirements of EN60598.2.22.

Operation

The Panel-LED is supplied with all the standard emergency equipment housed within a galvanised remote metal housing. In the event of a power failure, the luminaire continues to operate for a further 3 hours from the nickel-metal hydride batteries. Maintained versions can be used for standard mains lighting and will automatically provide emergency lighting in the event of a loss of normal mains supply.

Installation

The Panel-LED drops into a standard 600mm square tile opening in exposed T ceilings. The luminaire is also available with dimming control options.



Features

- Low-energy high-light output
- Long-life LEDs (50,000 hours)
- Simple installation into suspended ceilings
- Fully complies with all aspects of EN60598.2.22
- Fully compatible with LuxIntelligent test system

Specification

Supply voltage (into driver)	110-254 Volts @50Hz
Power supply	47W (max. 50W)
Light source/output	LED (4* 150 LED strips), 4250 lumens
Battery	6V (5 Cell) NiMH 3 & 2 cell pack
Recharge period	24 hours (14 hours 1 hour duration)
Typical efficiency	82 Lm/W
Colour temperature	4500K
Dimensions (mm)	595 (Sq) x 12 (H)
Remote box dimensionsions	360 x 160 x 45 (mm)
Weight	5.85Kg (EM version) 4.7kg (mains only)
IP rating	IP54 (of panel)

Order Codes and Options

PLED/M3/P:	Panel-LED 3 hour maintained luminaire
PLED/230:	Panel-LED mains-only luminaire
PLED/230/Dim:	Panel-LED mains-only luminaire with dimming control
PLED/M3/P/Dim:	Panel-LED 3 hour maintained luminaire with dimming control

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LED-Lite Surface - obsolete

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, or as a 20 degree high-level beam version for highlighting key areas; 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. IP65 weatherproof versions also available for outside usage.

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.



Features

- Fully compatible with LuxIntelligent test system
- Available as open area, 'corridor' or 'high-level' lens options
- IP42 as standard with IP65 weatherproof versions available
- Low power consumption
- Excellent spacing values
- Discrete surface-mounted LED luminaire
- Robust construction

Specification

Supply voltage	230 Volt (220-240V) @50Hz
Supply power	1.5W
Light source	3W white LED
Cable entry	2*20mm entries, 1*BESA (rear)
Body	Steel back box with steel fascia plate
IP ratings	IP42 (IP65 available on request)
Ambient temperature	0 to 40°C
Dimensions (H*W*D)	195 * 195 * 40 (mm)
Weight	1.5kg
Battery	2.4V 1.8Ah NiCd
Lumens (emergency)	160lm

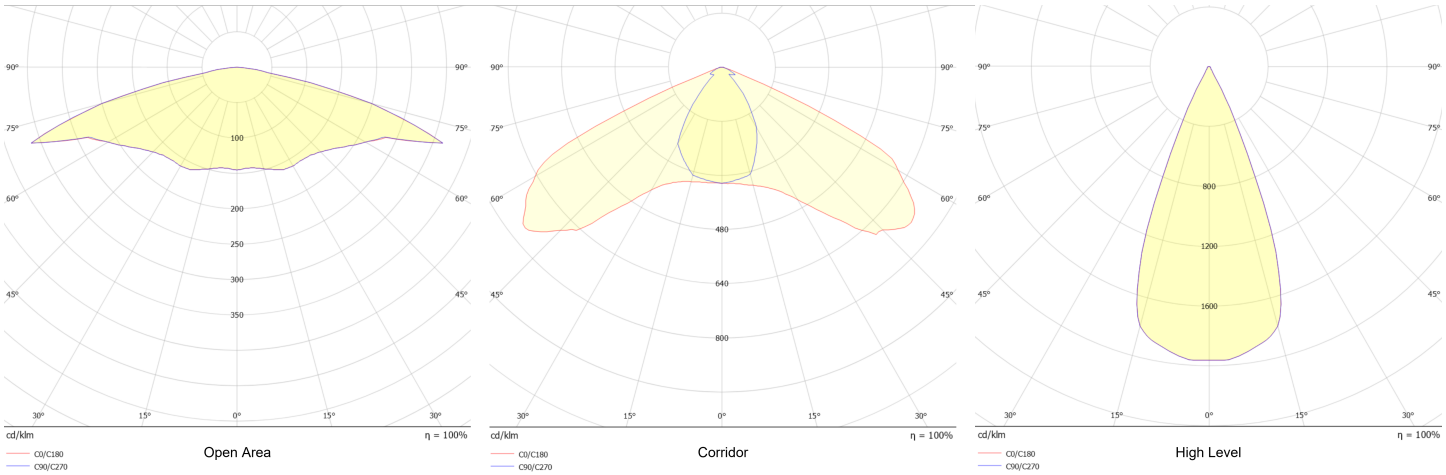
Order Codes and Options

LLED3/NM3/P/SUR	LED-Lite Downlighter, Surface Mount, Addressable, Non-Maintained, Open Area Lens (White Surface Mount Box)
LLED3/NM3/P/SUR/C	LED-Lite Downlighter, Surface Mount, Addressable, Non-Maintained, Corridor Lens (White Surface Mount Box)
LLED3/NM3/P/SUR/HL	LED-Lite Downlighter, Surface Mount, Addressable, Non-Maintained, High Level Lens (White Surface Mount Box)
/BK	Add suffix for black finish
/WP	Add suffix for IP65 Weather Proof version
/HO	Add suffix for High Output version

More Information

	Open Area Lens		Corridor Area Lens		High-Level Lens	
Mounting Height (m)	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux
2	9.8	8.9	n/a	11.9	n/a	n/a
2.5	9.4	8.2	n/a	12.9	n/a	n/a
3	8.7	7.5	n/a	13.1	n/a	n/a
3.5	8	6.8	n/a	13.4	n/a	n/a
4	5.9	4.8	n/a	14.5	n/a	n/a
6	6.4	4.5	n/a	13.2	5.2	n/a
8	n/a	n/a	n/a	11.1	7.3	n/a
10	n/a	n/a	n/a	9.8	8.9	n/a
12	n/a	n/a	n/a	7.8	10.1	n/a

Light Output Curves



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LED-Lite Recessed - obsolete

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 or a narrow 20 degree high level beam for highlighting points of emphasis, the luminaire simply requires a permanent 230 Volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a 3-hour duration. It is available in a 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 flame-retardant pack' to allow installation into solid ceilings such as plaster. The LED-Lite fully supports all features of the LuxIntelligent test system. IP65 weatherproof versions available for outside usage.

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. When the 'corridor' lens is specified, the LED can easily be rotated to align the distribution along the escape route.



Features

- Available as open area, corridor or high-level lens versions
- IP65 weatherproof versions available
- 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 power	1.5W
Light source	3W white LED
Colour temperature	4500K
Body	Steel remote box
IP Rating	IP42 (IP65 available on request)
Ambient temperature	0 to 40°C
Cut-out diameter / minimum void depth	45mm / 175mm
Dimensions (H*W*D)	285 * 95 * 40 (mm) (remote box)
Weight	1.0kg (3W LED)
Battery	2.4V 1.8Ah NiCd
Lumens (emergency)	160lm

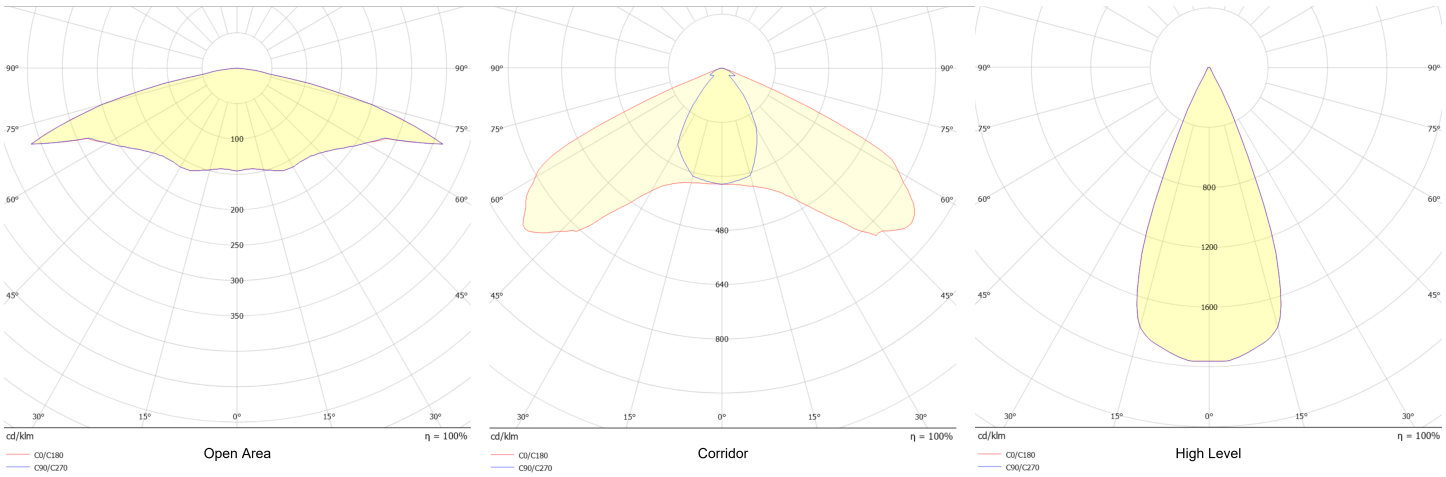
Order Codes and Options

LLED3/NM3/P/REM	LED-Lite Downlighter, Recessed, Addressable, Non-Maintained, Open Area Lens (White Body)
LLED3/NM3/P/C/REM	LED-Lite Downlighter, Recessed, Addressable, Non-Maintained, Corridor Lens (White Body)
LLED3/NM3/P/HL/REM	LED-Lite Downlighter, Recessed, Addressable, Non-Maintained, High Level Lens (White Body)
/TH	Replace "/REM" for suffux TH for a through-hole pack instead of a remote metal housing
/BLK	Add suffix for black version
/WP	Add suffix for IP65 Weather Proof version
/HO	Add suffix for High Output version

More Information

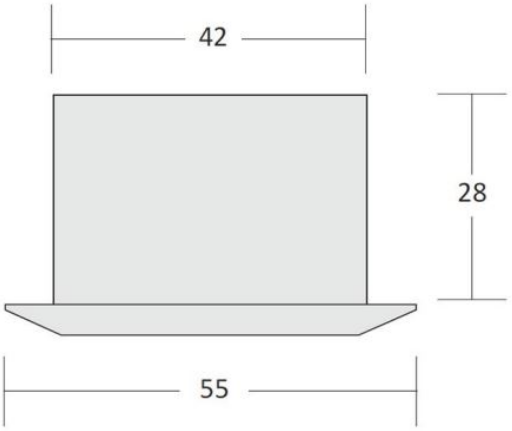
	Open Area Lens		Corridor Area Lens		High-Level Lens	
Mounting Height	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux	Spacing (m) min 0.5 lux	Spacing (m) min 1 lux
2	9.8	8.9	n/a	11.9	n/a	n/a
2.5	9.4	8.2	n/a	12.9	n/a	n/a
3	8.7	7.5	n/a	13.1	n/a	n/a
3.5	8	6.8	n/a	13.4	n/a	n/a
4	5.9	4.8	n/a	14.5	n/a	n/a
6	6.4	4.5	n/a	13.2	5.2	n/a
8	n/a	n/a	n/a	11.1	7.3	n/a
10	n/a	n/a	n/a	9.8	8.9	n/a
12	n/a	n/a	n/a	7.8	10.1	n/a

Light Output Curves



Downlighter in Black Dimensions





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Panel-LED (Round) - obsolete

This round recessed low-energy, long-life LED luminaire provides an aesthetically pleasing uniform light source with a colour temperature of 4500K (White).

The round Panel-LED luminaires are driven by 230 Volt 50 Hertz small electronic drivers which are power-factor corrected (0.9). They can be supplied as standard mains only luminaires and are also available as full self-contained emergency fittings. The emergency option fully supports all the features of the LuxIntelligent system and complies fully with all applicable requirements of EN60598.2.22.

Operation

The round Panel-LED is supplied with all the standard equipment housed within the luminaire itself. In the event of a power failure, the luminaire continues to operate for a further 3 hours from the nickel cadmium batteries. Maintained versions can be used for standard mains lighting and will automatically provide emergency lighting in the event of a loss of normal mains supply.

Installation

The round Panel-LED comes complete with spring fixings for ease of recessing into ceiling tiles or plasterboard ceilings and is supplied with a flying green LED for confirmation of charging.



Features

- Low-energy luminaire
- Long-life LEDs (50,000 hours)
- Simple installation into suspended ceilings
- Suitable for plasterboard ceilings
- Full compliant with EN60598.2.22
- Fully compatible with LuxIntelligent test system

Specification

Supply voltage (into driver)	110-254 Volts @ 50 Hz
Supply power	15W
Light source/output	LED, 1280 lumens
Battery	6V (5 Cell) NiCd 3 & 2 cell pack
Recharge period	24 hours (14 hours 1 hour duration)
Typical efficiency	85 Lm/W
Colour temperature	4500K
Dimensions (mm)	240 x 20 (dia x h)
Weight	1.5kg
IP rating	IP40

Order Codes and Options

PLED/230/R:	Panel-LED round recessed mains only luminaire
PLED/M3/?P/R:	Panel-LED round recessed addressable maintained 3 hour emergency luminaire

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Twin-LED - obsolete

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, or the return of power. The two 3 Watt LED projector heads are powered by integral nickel cadmium (NiCd) rechargeable batteries that fully comply with the requirements of BS EN 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.

Spacing

When wall mounted at 2.5m high, the Twin-LED can be spaced 25 metres apart to achieve 1 Lux on a corridor centre line. Full photometric files available on request.



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 25 metres achieving 1 Lux centre line
- Fully compatible with LuxIntelligent test system
- IP65 variant available

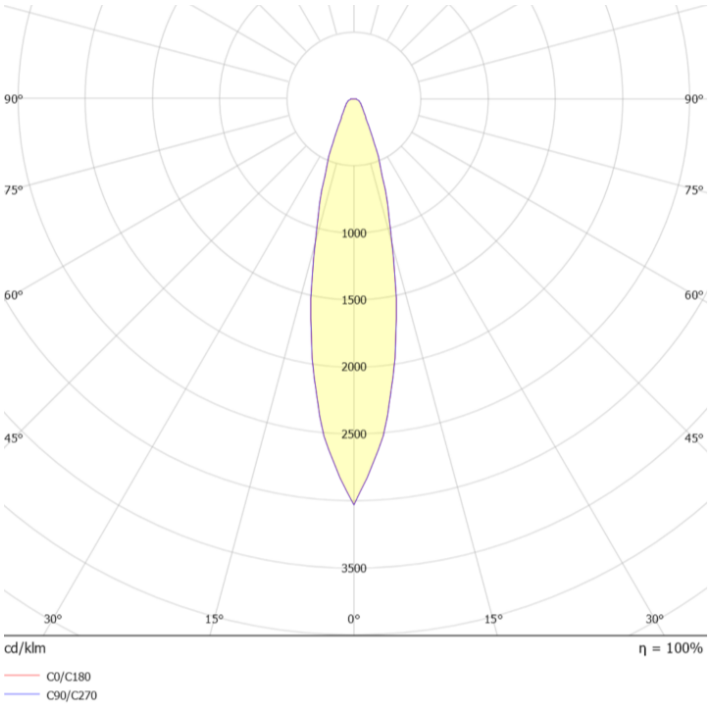
Order Codes and Options

TLED/NM3/P	Twin-LED Spotlights, Wall Mount, Non-Maintained, Addressable
TLED/NM3/P/WP	Twin-LED Weatherproof Spotlights, Wall Mount, Non-Maintained, Addressable, IP65

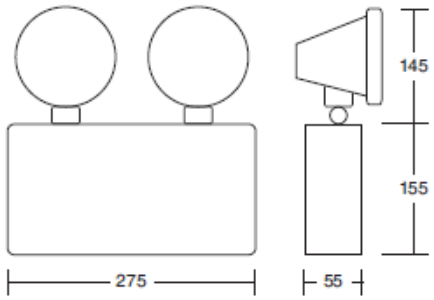
Specification

Supply voltage	230V (220-240V) @ 50Hz
Supply power / Charging power	2.9W
Light source	Two 3W LED heads (9 white LEDs each)
Light output	2 * 380lm
Recharge period	24 hours (14 hours to one hour duration)
IP rating / Insulation / Ambient Temperature	IP20
Insulation Class	Class II
Ambient Temperature	25°C
Colour temperature	5000K
Dimensions (mm)	275 x 155 x 55 (W x H x D)
Total height (including heads, mm)	300
Weight	3.6kg
Battery	3.6V 4.0Ah NiCd

Light Output Curve



Dimensions



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Round-LED IP65 - obsolete

The Round-LED range provides both mains and emergency lighting from a well designed luminaire with a white polycarbonate base and opal polycarbonate diffuser, sealed to IP65, making it suitable for both interior and external applications. The luminaire has a unique lever to release the diffuser which can be secured with the supplied locking screw to increase tamper/vandal resistance. Internally, the removable steel geartray has 54 white high output long life LEDs mounted upon it reveals access to the control gear and terminal blocks.

The Round-LED range supports all the features of the LuxIntelligent range of emergency lighting test panels and also fully complies with the requirements of EN60598.2.22. It also meets with the current Part L energy targets offering over 60 lumens per Watt.

Operation

The luminaire can be supplied in both mains only or maintained emergency versions (non-maintained can be achieved by excluding the normal switched mains live supply). Both versions can be supplied with dimming control as well microwave presence detectors. All emergency versions provide 3 hour duration from the integral high temperature (NiMH) batteries. Maintained versions can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of local mains supply.

Installation

The luminaire has 20mm drilling points on the base for cable entry.



Features

- Versatile circular LED luminaire
- Long life LEDs (50,000 hours)
- Fully LuxIntelligent compatible
- Low power consumption
- Standard and emergency versions available
- IP65 luminaire
- Fully complies with all aspects of EN60598.2.22

Specification

Light Source	54 x white LEDs (2200lm)
Colour temperature	4500K
Construction	White polycarbonate base & opal polycarbonate diffuser
Geartray	Hinged white painted steel fixed via 3 screws
Dimensions	330mm (Dia) x 126mm (H)
Cable entry	20mm drilling points
Light output	1410 Lumens (mains) 350 Lumens (emergency)
IP rating	IP65
Ambient temperature	25°C
Insulation class	Class II
Supply voltage	230V ~ 50Hz
Supply power	13w (mains) 17w (emergency)
Battery	1 x 6.0V 2.0Ah (NiCd)
Weight	2.8kg (mains) 3.4kg (emergency)

Order Codes

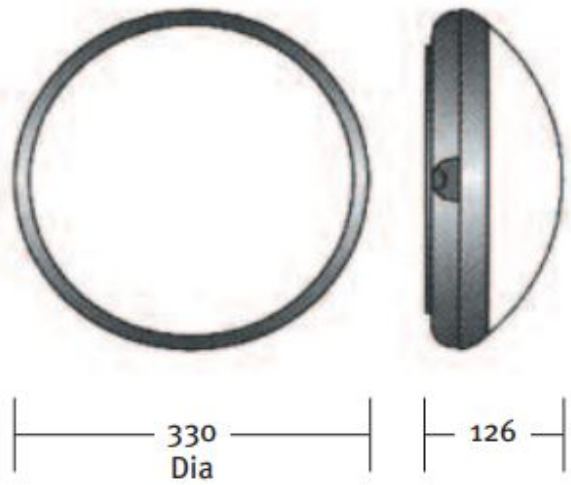
Order Codes and Options

RNLED/AC	Round-LED IP65 Luminaire, Surface Mount, Mains Only, Non-Addressable - 0.33M Diameter
RNLED/AC/DALI	Round-LED IP65 Luminaire, Surface Mount, Mains Only, Non-Addressable - 0.33M Diameter (with DALI Driver)
RNLED/AC/MW	Round-LED IP65 Luminaire, Surface Mount, Mains Only, Non-Addressable - 0.33M Diameter (with Microwave Detector)
RNLED/M3/P	Round-LED IP65 Luminaire, Surface Mount, Maintained, Addressable - 0.33M Diameter
RNLED/M3/P/DALI	Round-LED IP65 Luminaire, Surface Mount, Maintained, Addressable - 0.33M Diameter (with DALI Driver)
RNLED/M3/P/MW	Round-LED IP65 Luminaire, Surface Mount, Maintained, Addressable - 0.33M Diameter (with Microwave Detector)

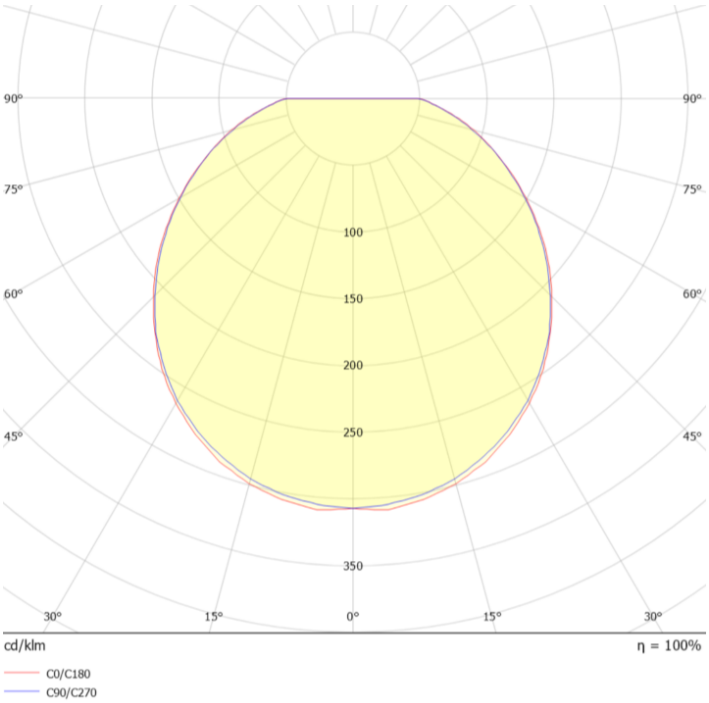
Spacing Data

Mounting Height (M)	Spacing (M) Min. 0.5 Lux Open Area	Spacing (M) Min. 1 Lux Escape
2.0	10.7	7.7
2.5	11.6	7.9
3.0	12.5	8.1
4.0	12.5	8.4

Dimensions



Light Output Curve



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Weather-LED - obsolete

Weather-LED luminaires provide attractive and robust solutions for providing lighting to areas such as walkways, tunnels, storage areas and car parks and are fully compatible with both existing and new LuxIntelligent systems.

Weather-LED is available in a choice of three covers: standard, eyelid and crossblade. The eyelid and crossblade covers are cast aluminium for additional robustness - see photos below for examples.

The enclosure is sealed to IP65 and houses a geartray, electronic driver and multi-circuit LED board. The polycarbonate lens provides excellent photometric performance (1750 luminaire lumens).

The robust cast aluminium & polycarbonate enclosure is vandal resistant and provides protection to IP65/IK10. Suitable for ambient temperatures of up to 35°C (25°C for emergency versions), the units are ideal for both interior and exterior environments.

Operation

Weather-LED luminaires are available as a Maintained emergency operation. All versions provide a 3-hour duration from integral high temperature nickel cadmium (NiCd) batteries.

By being Maintained luminaires, they can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of normal mains supply.

The benefits of the modern white low power LEDs include long life (typically 50,000 hours+), excellent energy efficiency, and low operating temperatures which improves the life of the internal batteries.

Weather-LED luminaires are fully comply to the requirements of EN60598.2.22



Features

- Decorative circular LED luminaire
- Fully addressable and compatible with LuxIntelligent systems
- IP65 rating
- Multiple covers available
- Long-life LEDs (50,000 hours)
- Low power consumption
- Standard and microwave sensor versions available
- Fully complies with all aspects of EN60598.2.22
- 1750lm under mains operation
- 280lm under emergency operation

General Details & Specification

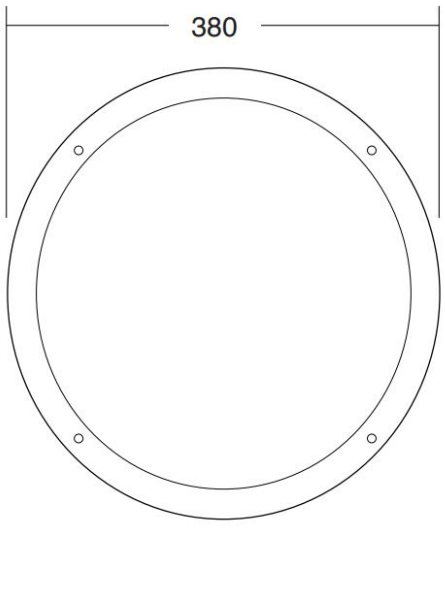
Product	Weather-LED
Light source	Multi-circuit LEDs
Construction	Cast aluminium body (incl. EYE or CDB covers) with polycarbonate opal lens

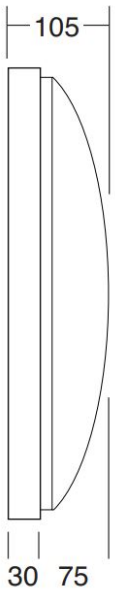
Geartray	White PCB fixed keyhole slots
Dimensions	360mm (diameter) x 100mm max (H)
Cable entry	20mm conduit in back
Light source	Surface-mounted white LEDs (2500lm max.)
Colour temperature	4500K
Luminaire lumens (mains)	1750lm (1400lm EYE version)
Luminaire lumens (emergency)	280lm (224lm EYE version)
IP rating	IP65
Ambient temperature (Ta)	35C (25C emergency)
Insulation class	Class I
Supply voltage	230V 50Hz
Supply power	22.0W (21.4W EYE version)
Charge power (typical)	3W
Battery	5 x 2Ah NiCd sub-C cells
Weight	3.9kg

Spacing Data (does not apply to eyelid cover)

Mounting height (Hm (m))	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape
2.0	10.7	7.5
2.5	11.3	7.6
3.0	12.3	7.8
4.0	12.5	8.2

Dimensions and Back Panel







Eyelid Cover



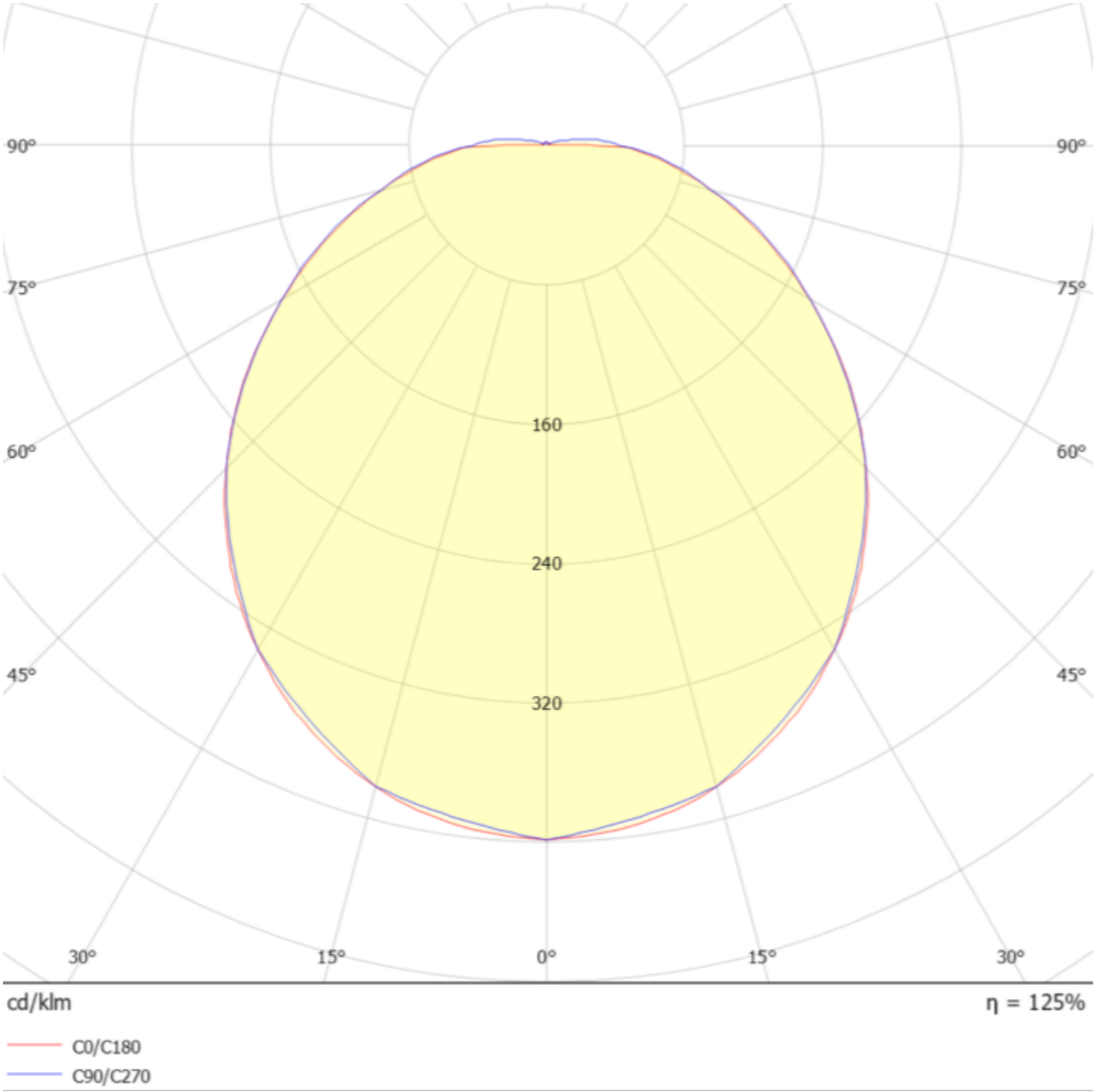
Crossblade Cover



Options and Order Codes

WLED/M3/P	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire
WLED/M3/P/MW	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire with Microwave Sensor
WLED/M3/P/EYE	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire with Eyelid Cover
WLED/M3/P/EYE/MW	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire with Eyelid Cover & Microwave Sensor
WLED/M3/P/CBD	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire with Crossblade Cover
WLED/M3/P/CBD/MW	Weather-LED IP65 Circular LED, Maintained 3 Hour Emergency Luminaire with Crossblade Cover & Microwave Sensor

Light Output Curve



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Escape-LED - obsolete

The Escape-LED range provides excellent viewing distances of 36 metres using long life, low energy LEDs as a light source.

The benefits of the modern white low-power LEDs include long life (typically 50,000 hours+), excellent energy efficiency(>100lm/W) and low operating temperatures which improves the life of the internal batteries.

Escape-LED exit sign luminaires feature epoxy-coated steel enclosures with screen printed opal polycarbonate legend panels, enclosing integral rechargeable batteries and a PCB fitted with advanced wide-angle white LEDs and an efficient driver circuit.

Operation

The Escape-LED range is supplied with Maintained operation as standard, providing 3-hour duration from integral high temperature Nickel Cadmium (NiCd) batteries, and is fully compatible with new and existing LuxIntelligent addressable systems. (Non-maintained operation is available by excluding a switched live supply).

Pictogram legend panels complying with the Safety Signs Regulations are supplied as standard but ISO sign formats are also available. The luminaire offers bright and even luminance across the legend panel, ensuring maximum visibility in the event of an emergency. It fully complies with BS EN 60598.2.22.



Features

- Excellent 36-metre viewing distances
- Robust design with an epoxy coated steel body
- Fully complies with EN60598.2.22
- Supports all the features of the LuxIntelligent range of testing panels
- Long lasting (50,000+ hours) and low power LEDs
- 385mm (L) x 185mm (W) x 71mm (H)

General Specification

Product	LED Bulkhead and Exit Sign
Light Source	16 x white LEDs
Luminaire lumens	N/A
Sign viewing distance	36m
Construction	Epoxy-coated steel body with screen printed Polycarbonate legend panel
Geartray	Integral to base
Dimensions	385mm (L) x 185mm (W) x 71mm (H)
Cable Entry	200mm knock-outs

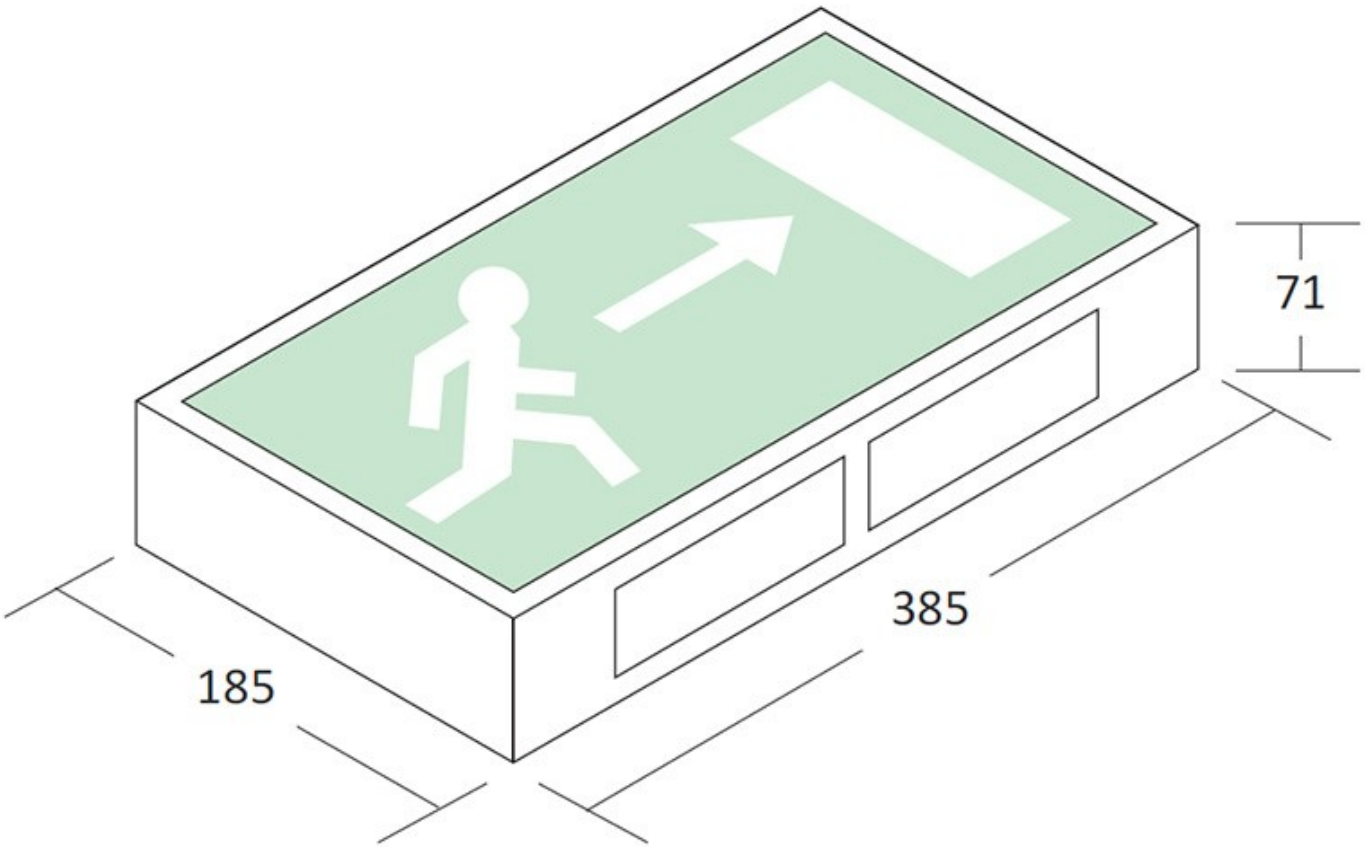
Operational Specification

Light source	16 x white LEDs
Colour temperature	4500K
Luminaire lumens	N/A

Lumens (emergency)	N/A
IP rating	IP20
Ambient temperature (Ta)	25°C
Insulation class	Class I
Supply voltage	230V ~ 50Hz
Supply power	3.0W
Charge power (typical)	1.7W
Battery	1 x 3.6V 1.5Ah NiCd
Weight	1.6kg

Order Codes

ESC-LED/M3/P	Escape Exit LED Maintained metal boxed single sided addressable Exit sign Arrow Down
ESC-LED/M3/P/AL	Escape Exit LED Maintained metal boxed single sided addressable Exit sign Arrow Left
ESC-LED/M3/P/AR	Escape Exit LED Maintained metal boxed single sided addressable Exit sign Arrow Right
ESC-LED/M3/P/AU	Escape Exit LED Maintained metal boxed single sided addressable Exit sign Arrow Up
/ISO	Add suffix "/ISO" for ISO Style Running Man Legend (EC Format as standard)



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Mor-LED High Output (800lm / 50 lux) - obsolete

The Mor-LED High Output bulkhead is a robust IP65-rated polycarbonate base and polycarbonate fresnel lens. Mor-LED High Output luminaires provide 800 lumen output as standard, with the fresnel lens creating cost effective opportunities to minimise the number of luminaires required within an installation.

Mor-LED luminaires can be surface mounted or semi-recessed and are ideal for exterior and industrial applications where higher illuminance levels are required.

The luminaire provides 800 lumens and the lens generates a wide intensity distribution ideal for providing good luminance on an escape route. 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. They are ideal for low-maintenance applications offering 4 to 5 years of maintenance-free operation and provide an excellent solution to anywhere with a high lux requirement such as 50 lux in an emergency in a treatment room.



Features

- Fully compatible with LuxIntelligent test system
- High output 800 Lumens
- Long-life LEDs (50,000 hours)
- IP65-rated bulkhead
- Low power consumption
- Suitable for use in cold stores (down to -20C)
- Fully complies with all aspects of EN60598.2.22
- Lens can be fitted with 100mm high self-adhesive signs
- Suitable for 50 lux minimum requirements like treatment rooms

Specifications

	Maintained	Mains Only
Light source	2 x LED strip PCBs	
Colour temperature	4500k	
Luminaire lumens (mains)	-	800lm
Luminaire lumens (emergency)	800lm	-
IP rating	IP65	
Ambient temperature (Ta)	25°C	
Insulation class	Class I	
Supply voltage	230V +/- 10% ~50Hz	
Supply current	25mA	40mA
Supply power (mains)	5W	8W
Charge power (typical)	4W	-
Battery	7.2V 3.0Ah NiCd	-
Weight	1.4kg	1.0kg

Order Codes

RLED/NM3/P/HO	Mor-LED IP65 High Output Bulkhead, Surface Mount, Non-Maintained, Addressable (800 Lumens in Emergency)
RLED/SL/B/HO	Mor-LED High Output Semi-Recessing Bezel (120mm x 350mm x 90mm bulkhead)

(Luminaire can be used as maintained or non-maintained)

More Information

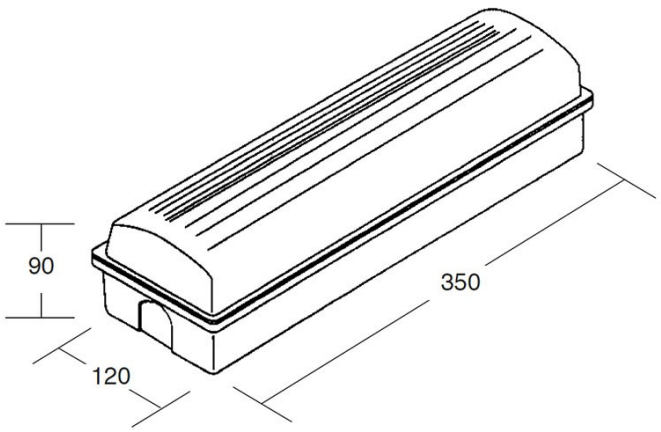
1 lux minimum at centre line (escape route)

Mounting Height (M)	Trans. to wall	Trans. to trans.	Axial to trans.	Axial to axial	Axial to wall
2.5	5.0	11.4	10.1	9.5	4.1
4.0	7.9	16.6	14.9	15.1	5.9
8.0	10.6	20.1	18.6	19.9	8.8
10.0	8.8	19.5	18.1	18.4	6.6
12.0	7.3	15.8	14.6	14.7	5.4

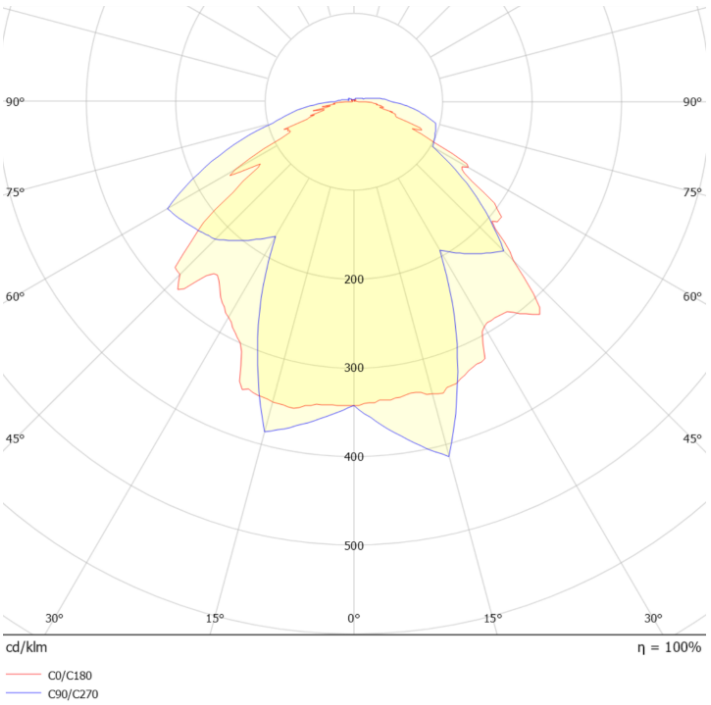
0.5 lux minimum (open area)

Mounting Height (M)	Trans. to wall	Trans. to trans.	Axial to trans.	Axial to axial	Axial to wall
2.5	5.7	12.2	11.0	10.7	4.4
4.0	8.0	17.0	15.8	17.5	6.5
8.0	11.0	22.4	22.1	21.9	9.0
10.0	9.8	23	22.6	22.3	7.1
12.0	7.6	23.9	23.4	22.9	5.7

Dimensions



Light Output Curve



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LED-Lite High Output - obsolete

The LED-Lite High Output 270 lumen range of recessed and surface mount 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 or a narrow 20 degree high level beam for highlighting points of emphasis, the luminaire simply requires a permanent 230 Volt supply (and addressable wiring) to provide effective non-maintained emergency lighting with a 3-hour duration. It is available in a 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. The LED-Lite High Output range fully supports all features of the LuxIntelligent test system. IP65 variants available for outside usage.

Operation

The LED-Lite High Output range 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 High Output range 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.

Installation

The LED-Lite recessed units can be discretely mounted in a 45mm cut-out or we also offer a surface mountable unit that contains all the necessary control gear within a wall or ceiling mountable box. Additionally when the 'corridor' lens is specified, the LED can easily be rotated to align the distribution along the escape route.



Features

- High output 270lm variant of our standard LED-Lite range
- 700mA driver for greater spacing and height requirements
- Available as open area, corridor or high-level lens versions
- Available as recessed and surface mount options
- IP65 variants available
- Reliable LED technology with low power consumption
- Excellent spacing values
- Discrete recessed LED luminaire
- Fully compatible with LuxIntelligent test system

Specification

Supply voltage	230 Volt (220-240V) @50Hz
Supply power	3.0W
Light source	3W white LED
Colour temperature	4500K
Body	Steel remote box
IP Rating	IP42 (IP65 available on request)
Ambient temperature	0 to 40°C
Cut-out diameter / minimum void depth	45mm / 175mm
Dimensions (H*W*D)	285 * 95 * 40 (mm) (remote box) 195 * 195 * 40 (mm) (surface mount)
Weight	1.2kg (recessed) 1.7kg (surface mount)
Battery	6V 4Ah NiCd (1 x 2 cell stick & 1 x 3 cell stick)
Lumens (emergency)	270lm

Order Codes and Options

LLED3/NM3/P/SUR/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED Open Area Lens (In White Surface Mount Box) 700mA High Output
LLED3/NM3/P/SUR/C/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED Corridor Lens (In White Surface Mount Box) 700mA High Output
LLED3/NM3/P/SUR/HL/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED High Level Lens (In White Surface Mount Box) 700mA High Output
LLED3/NM3/P/REM/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED Recess mount with remote metal housing Open Area Lens 700mA High Output
LLED3/NM3/P/C/REM/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED Recess mount with remote metal housing Corridor Lens 700mA High Output
LLED3/NM3/P/HL/REM/HO	LED-Lite Addressable Non-Maintained 3Hr 3W LED Recess mount with remote metal housing High Level Lens 700mA High Output
/BLK	Add suffix for black version
/WP	Add suffix for IP65 Weather Proof Version

Spacing Data

LED-Lite High Output with Open Area Lens

	Escape Route (1 lux)		Open area (0.5 lux)	
Height	Luminaire to Wall (m)	Luminaire to Luminaire (m)	Luminaire to Wall (m)	Luminaire to Luminaire (m)
2.0	4.1	12.5	4.7	12.5
2.5	3.8	12.2	4.5	13.4
3.0	3.4	11.6	4.2	13.2
3.5	3.1	10.9	3.9	12.9
4.0	2.5	10.2	3.6	12.2
6.0	n/a	n/a	n/a	n/a
8.0	n/a	n/a	n/a	n/a
10.0	n/a	n/a	n/a	n/a
12.0	n/a	n/a	n/a	n/a

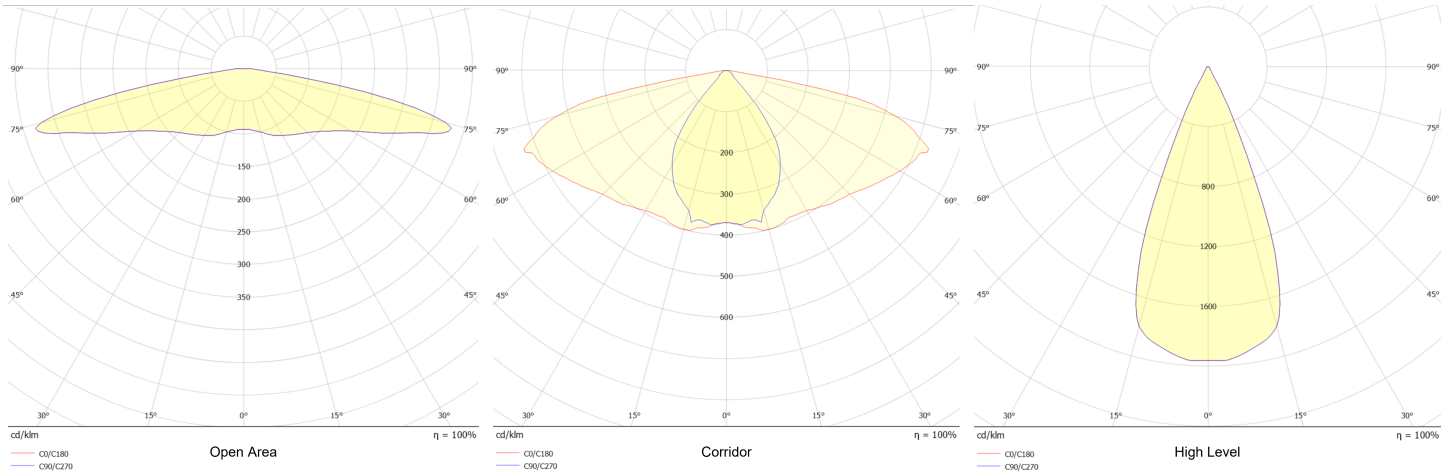
LED-Lite High Output with Corridor Lens

	Escape Route (1 lux)		Open area (0.5 lux)	
Height	Luminaire to Wall (m)	Luminaire to Luminaire (m)	Luminaire to Wall (m)	Luminaire to Luminaire (m)
2.0	5.7	14.2	n/a	n/a
2.5	6.2	15.5	n/a	n/a
3.0	6.3	16.6	n/a	n/a
3.5	6.4	17.5	n/a	n/a
4.0	6.4	17.7	n/a	n/a
6.0	5.7	18.0	n/a	n/a
8.0	3.8	16.6	n/a	n/a
10.0	n/a	n/a	n/a	n/a
12.0	n/a	n/a	n/a	n/a

LED-Lite High Output with High Level Lens

	Escape Route (1 lux)		Open area (0.5 lux)	
Height	Luminaire to Wall (m)	Luminaire to Luminaire (m)	Luminaire to Wall (m)	Luminaire to Luminaire (m)
2.0	n/a	n/a	n/a	n/a
2.5	n/a	n/a	n/a	n/a
3.0	n/a	n/a	n/a	n/a
3.5	n/a	n/a	n/a	n/a
4.0	n/a	n/a	n/a	n/a
6.0	3.2	6.9	2.8	6.1
8.0	3.9	8.7	3.6	7.7
10.0	4.5	10.2	4.2	9.2
12.0	5.1	11.5	4.7	10.6

Light Output Curves



Surface Mount Downlighter Downlighter in Black





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Refined-LED - obsolete

The Refined-LED range offers decorative surface-mounted circular luminaires incorporating high output white LEDs within a ‘sealed’ polycarbonate light source enclosure, minimising loss of efficacy due to dirt.

The mains driver and emergency lighting gear is installed in the back of the housing away from internal heat sources. The main luminaire housing is installed by twisting onto the first fix ring.

The Refined-LED range offers an exceptional opportunity to design contemporary lighting installations with aesthetic luminaires specifically designed to offer mains-only or maintained emergency lighting with integral microwave presence detectors for switching the mains operation where required. Refined-LED luminaires comply with EN60598.

Standard Refined-LED luminaires provide 2100 Luminaire Lumens at 25 Watts (84lm/W). The luminaires are available with standard mains drivers or with integral 3 hour duration maintained emergency gear that is fully compatible with any LuxIntelligent system.

Mains and emergency versions may be specified with an integral microwave presence detector to switch the mains lighting. Sensitivity, ‘on’ time and ambient light levels can be selected during installation. The LuxIntelligent emergency lighting version uses integral high temperature nickel cadmium batteries. Maintained versions can be used for standard switched mains lighting, but will automatically provide emergency lighting in the event of a complete loss of normal mains supply



Features

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

Specification

Dimensions	360mm diameter x 65mm deep
Supply voltage	230V (220-240V) @ 50Hz
Supply power	Mains: 25W Maintained: 27W
Light output	2100 lumens (mains) / 230 lumens (emergency)
Charge power (typical)	1.9W
Light source	4000K surface mount white LEDs (3480 lumens)
Construction	Polycarbonate housing & steel first fix ring
Insulation class	Class II
Cable entry	Through first fix steel ring
IP rating	IP 20 (at 25°C)
Dimensions	400mm diameter
Weight	2.6kg (mains) / 3.5kg (emergency)
Battery (maintained)	1 x 6.0V 2.0Ah NiCd

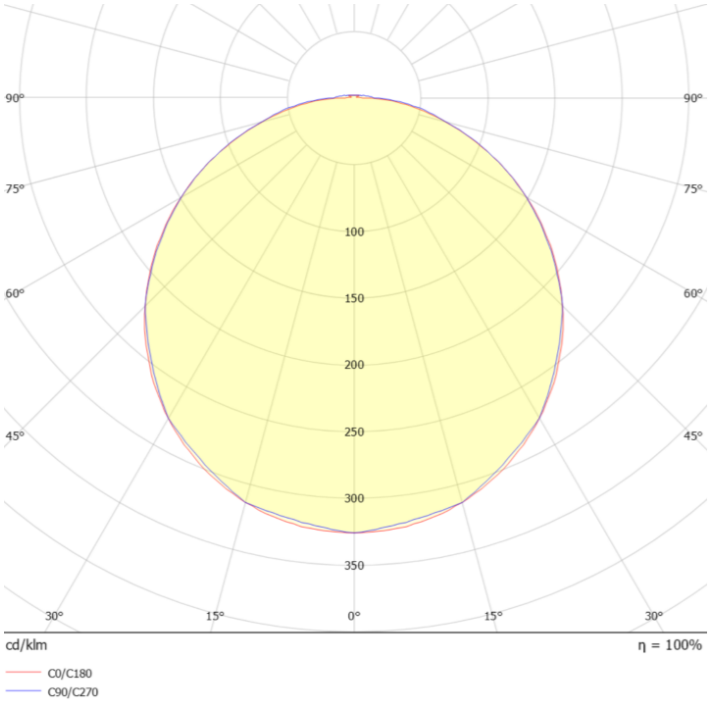
Order Codes

RFLED/230	Refined-LED Circular Luminaire, Surface Mount, Mains Only, Non-Addressable
RFLED/230/MW	Refined-LED Circular Luminaire, Surface Mount, Mains Only, Non-Addressable (with Microwave Detector)
RFLED/M3/P	Refined-LED Circular Luminaire, Surface Mount, Maintained, Addressable
RFLED/M3/P/MW	Refined-LED Circular Luminaire, Surface Mount, Maintained, Addressable (with Microwave Detector)

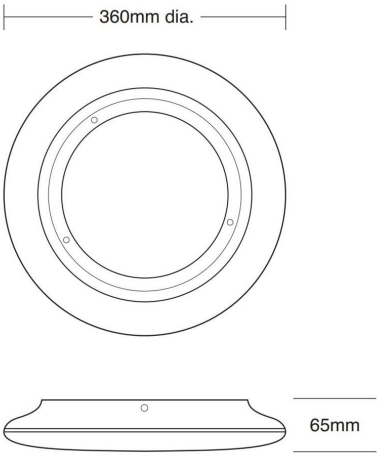
Spacing Data

	Mounting Height (m)	Fitting to Wall	Fitting to Fitting
1 Lux min at centre	2.5	4.7	11.2
	4.0	5.0	12.9
0.5 Lux min (open area)	2.5	5.7	12.2
	4.0	6.0	13.6

Light Output Curve



Dimensions







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Cine-LED - obsolete

Cine-LED escape luminaires provide a simple solution to discrete escape signage. They are available as both maintained and non-maintained variations and come with an opal downlight panel to illuminate directly below the luminaire. In an emergency, the escape sign is illuminated with high quality LEDs.

The Cine-LED escape luminaires are constructed in black epoxy coated galvanised steel and are designed to reduce unwanted light emission. This makes them suitable for many applications such as theatres, cinemas, school halls and photography rooms.

The black opaque exit legend is hidden unless illuminated, making it idealnot just for exit directions, but also for customised warnings only applicable under certain conditions, for example 'Do Not Enter' (get in touch for specific requirements).

The luminaire fully complies with EN60598.2.22 but please note, the legend/pictogram itself is available in European Signs Directive format (pictured right) and ISO 7010 running man but they are**not** fully compliant to BS 5499 Pt 4 or ISO 7010. Ultimately, the premises where these escape signs are fitted need to meet the requirements of the Regulatory Reform (Fire Safety) Order 2005 which is done by carrying out a fire-risk assessment. If the responsible person or persons conducting this risk assessment decide that a green on black sign is acceptable because of the reduced light levels in a particular area, then provided this is documented and regularly reviewed, this would mean that the premises are deemed to meet the requirements of the Regulatory Reform Order.

The luminaire fully supports all the features of the LuxIntelligent range of emergency lighting test panels when ordered as an addressable unit.



Features

- Low light emissions when not required
- Uses LEDs to illuminate escape sign
- Complies with EN60598.2.22
- Fully supports LuxIntelligent testing panels
- Available in EC or ISO standard running man
- Available in mains only and 3 hour maintained or non-maintained

Specification

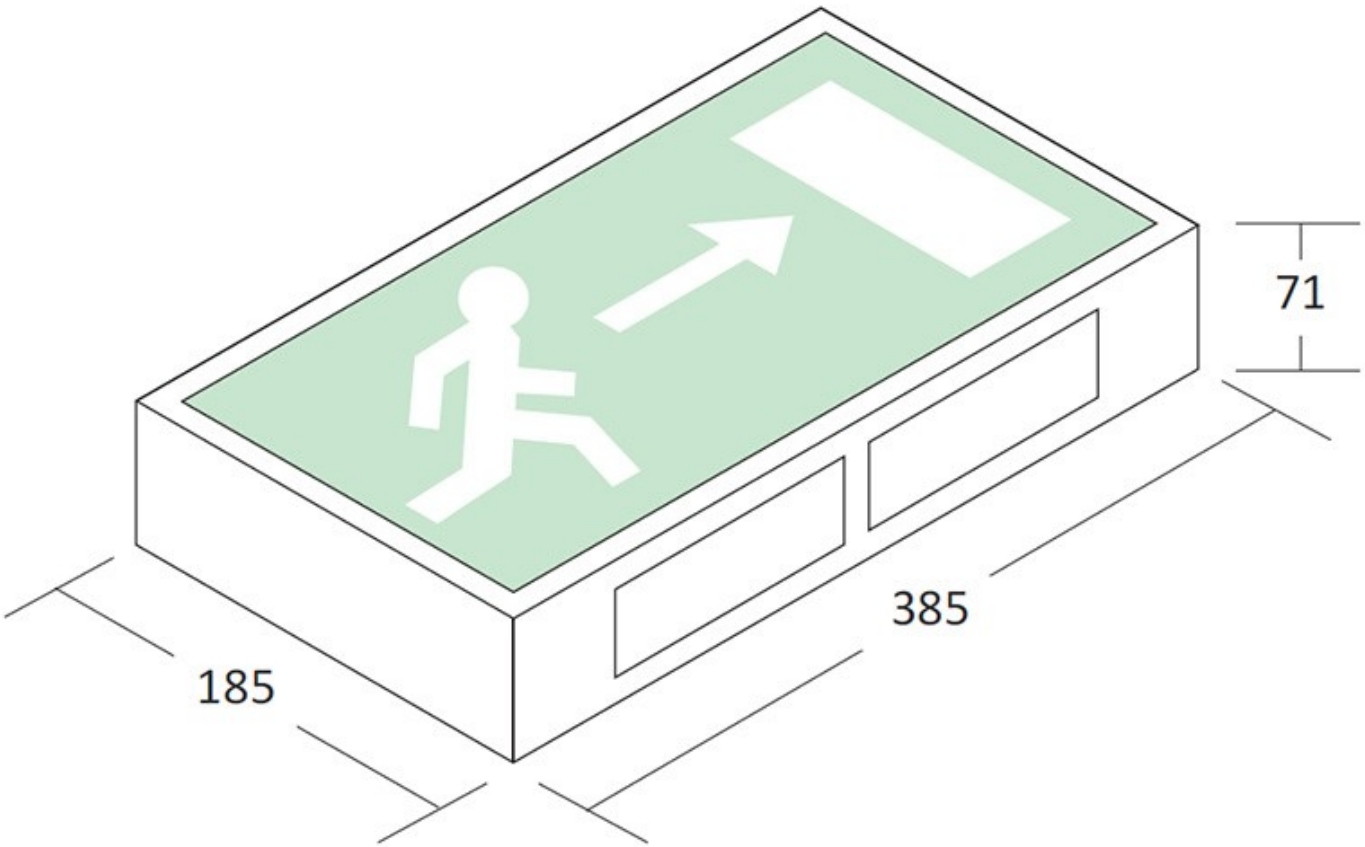
Light source	16 x white LEDs (4500K)
Sign viewing distance (when lit)	36M
Construction	Epoxy coated steel body with screen printed polycarbonate legend panel
Geartray	Integral to base
Dimensions	385mm (L) x 185mm (W) x 71mm (H)
Cable entry	20mm knock-outs
IP rating	IP20
Ambient temperature (Ta)	0 to 25C
Insulation class	Class I
Supply voltage	230V ~50Hz
Supply power	3.0W (2.4W mains only)
Charge power (typical)	1.7W
Battery back-up	1 x 3.6V 1.5Ah NiCd
Weight	1.6kg (1.4kg mains only)

Order Codes

CNLED/230/AD	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Mains Only, Singe Sided - EC Arrow Down
CNLED/230/AU	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Mains Only, Singe Sided - EC Arrow Up
CNLED/230/AR	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Mains Only, Singe Sided - EC Arrow Right
CNLED/230/AL	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Mains Only, Singe Sided - EC Arrow Left
CNLED/NM3/AD	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Non-Maintained, Singe Sided - EC Arrow Down
CNLED/NM3/AU	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Non-Maintained, Singe Sided - EC Arrow Up
CNLED/NM3/AR	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Non-Maintained, Singe Sided - EC Arrow Right
CNLED/NM3/AL	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Non-Maintained, Singe Sided - EC Arrow Left
CNLED/M3/AD	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Maintained, Singe Sided - EC Arrow Down
CNLED/M3/AU	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Maintained, Singe Sided - EC Arrow Up
CNLED/M3/AR	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Maintained, Singe Sided - EC Arrow Right
CNLED/M3/AL	Cine-LED Escape Sign, Wall Mount, Non-Addressable, Maintained, Singe Sided - EC Arrow Left
CNLED/NM3/P/AD	Cine-LED Escape Sign, Wall Mount, Addressable, Non-Maintained, Singe Sided - EC Arrow Down
CNLED/NM3/P/AU	Cine-LED Escape Sign, Wall Mount, Addressable, Non-Maintained, Singe Sided - EC Arrow Up
CNLED/NM3/P/AR	Cine-LED Escape Sign, Wall Mount, Addressable, Non-Maintained, Singe Sided - EC Arrow Right
CNLED/NM3/P/AL	Cine-LED Escape Sign, Wall Mount, Addressable, Non-Maintained, Singe Sided - EC Arrow Left
CNLED/M3/P/AD	Cine-LED Escape Sign, Wall Mount, Addressable, Maintained, Singe Sided - EC Arrow Down
CNLED/M3/P/AU	Cine-LED Escape Sign, Wall Mount, Addressable, Maintained, Singe Sided - EC Arrow Up
CNLED/M3/P/AR	Cine-LED Escape Sign, Wall Mount, Addressable, Maintained, Singe Sided - EC Arrow Right
CNLED/M3/P/AL	Cine-LED Escape Sign, Wall Mount, Addressable, Maintained, Singe Sided - EC Arrow Left

Add suffix "/ISO" for ISO 7010 running man instead of Europeans Signs Directive (EC) style running man

Dimensions



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Twin-LED IP65 Weatherproof - obsolete

The Twin-LED IP65 Weatherproof 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, or the return of power. The two 3 Watt LED projector heads are powered by integral nickel cadmium (NiCd) rechargeable batteries that fully comply with the requirements of BS EN 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.

Spacing

When wall mounted at 2.5m high, the Twin-LED can be spaced 25 metres apart to achieve 1 Lux on a corridor centre line. Full photometric files available on request.



Features

- IP65 Weatherproof
- 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 25 metres achieving 1 Lux centre line
- Fully compatible with LuxIntelligent test system
- IP20 variant available

Order Codes and Options

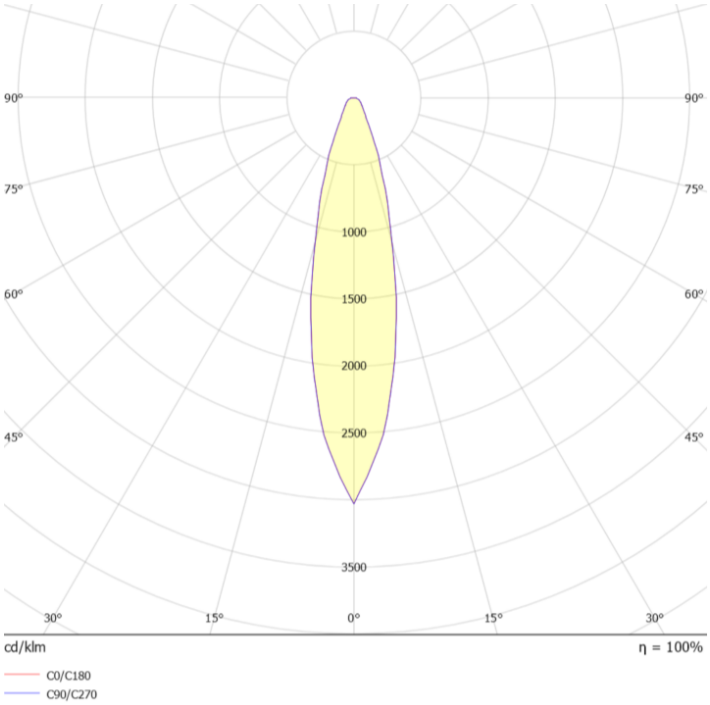
TLED/NM3/P/WP	Twin-LED Weatherproof Spotlights, Wall Mount, Non-Maintained, Addressable, IP65
TLED/NM3/P	Twin-LED Spotlights, Wall Mount, Non-Maintained, Addressable

Specification

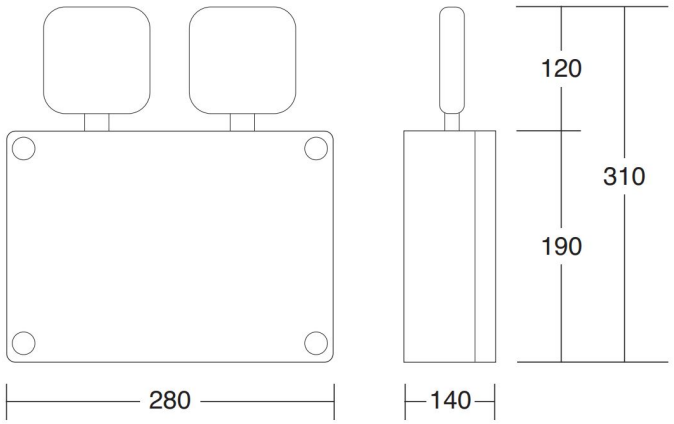
Supply voltage	230V (220-240V) @ 50Hz
Supply power	6W

Light source	Two 3W LED heads (5 white LEDs each)
Light output	2 * 520lm
Recharge period	24 hours (14 hours to one hour duration)
Charging power (typical)	2.5W
IP rating	IP65
Ambient temperature	25°C
Insulation class	Class II
Colour temperature	5000K
Dimensions (mm)	280 x 190 x 140 (W x H x D)
Total height (including heads, mm)	310
Weight	3.6kg
Battery	7.2V 4.5Ah NiCd

Light Output Curve



Twin-LED IP65 Weatherproof Dimensions



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Amenity-LED Square - obsolete

The Amenity-LED Square luminaire provides an attractive but robust solution for providing lighting to walkways, tunnels, storage areas and car parks. It is fully compatible with both existing and new LuxIntelligent systems.

The enclosure is sealed to IP65 and houses a geartray with HF electronic driver and multi-circuit LED board. The polycarbonate lens and halo-effect side band provide excellent photometric performance (1420 luminaire lumens).

The robust cast aluminium and polycarbonate enclosure is vandal resistant and provides protection to IP65. Suitable for ambient temperatures of up to 35°C (25°C for emergency versions), the units are ideal for interior and exterior environments.

Operation

The Amenity-LED Square luminaires are available with mains only or maintained emergency operation. All emergency versions provide 3-hour duration from integral high temperature nickel cadmium (NiCd) batteries.

Maintained versions can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of normal mains supply. (Non-maintained operation is available by excluding a switched live supply).

The benefits of the modern white low power LEDs include long life (typically 50,000hours+), excellent energy efficiency (>100lm/W), low operating temperatures therefore improving the life of the internal batteries, and good operation at low ambient temperatures.

These luminaires incorporate high quality mains drivers and separate state of the art emergency gear, and they fully comply with the requirements of EN60598.2.22



Features

- Decorative square LED luminaire
- Fully addressable and compatible with LuxIntelligent systems
- IP65 rating
- Robust cast aluminium construction
- Long-life LEDs (50,000+ hours)
- Low power consumption
- Fully complies with all aspects of EN60598.2.22
- 1420lm under mains operation
- 245lm under emergency operation

Options & Order Codes

AMLED/230/SQ	Amenity-LED IP65 Square Luminaire, Surface Mount, Mains Only, Non-Addressable
AMLED/M3/P/SQ	Amenity-LED IP65 Square Luminaire, Surface Mount, Maintained, Addressable
AMLED/230/RN*	Amenity-LED IP65 Circular Luminaire, Surface Mount, Mains Only, Non-Addressable
AMLED/M3/P/RN*	Amenity-LED IP65 Circular Luminaire, Surface Mount, Maintained, Addressable

**refer to Amenity-LED Round datasheet for more information*

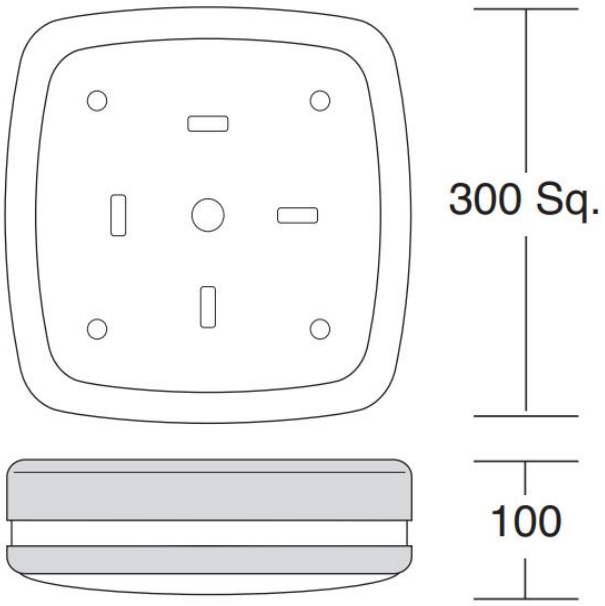
General Details & Specification

Product	Amenity-LED Square
Luminaire LED lumens	2000lm
Construction	Cast aluminium body with polycarbonate opal lens
Geartray	White PCB fixed via 2 screws
Dimensions	300mm (square) x 100mm (H) / 20mm cable entry in rear
Light source	Surface mounted white LEDs (2000 lumens) - 4000K
Luminaire lumens (mains)	1420lm
Luminaire lumens (emergency)	245lm
IP rating	IP65
Ambient temperature (Ta) / insulation class	25°C / Class I
Supply voltage	230V ~ 50Hz
Supply power / charge power	19.2W / 3.5W (16.4W mains only)
Battery	1 x 6.0V 2.0Ah NiCd
Weight	Approx. 3.7kg (2.9kg mains only)

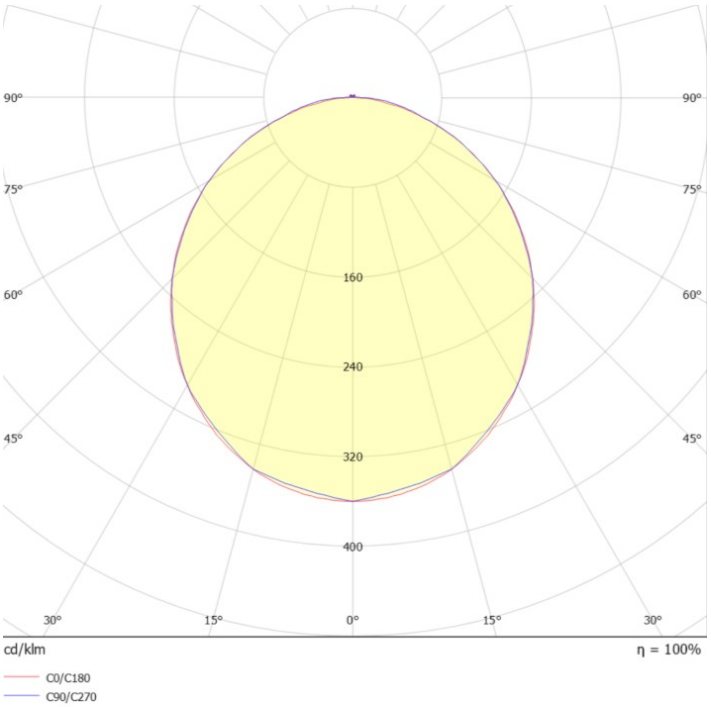
Spacing Data

Mounting height (Hm (m))	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape
2.0	10.7	7.5
2.5	11.3	7.6
3.0	12.3	7.8
4.0	12.5	8.2

Dimensions (mm)



Light Output Curve



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Amenity-LED Round - obsolete

The Amenity-LED Round luminaire provides an attractive but robust solution for providing lighting to walkways, tunnels, storage areas, car parks and are fully compatible with both existing and new LuxIntelligent systems.

The enclosure is sealed to IP65 and houses a geartray with HF electronic driver and multi-circuit LED board. The Polycarbonate lens and halo-effect side band provide excellent photometric performance (1250 luminaire lumens).

The robust Cast Aluminium and Polycarbonate enclosure is vandal resistant and provides protection to IP65. Suitable for ambient temperatures of up to 35°C (25°C for emergency versions) the units are ideal for interior and exterior environments.

Operation

The Amenity-LED Round luminaires are available with mains only or maintained emergency operation. All emergency versions provide 3-hour duration from integral high temperature nickel cadmium (NiCd) batteries.

Maintained versions can be used for standard switched mains lighting but will automatically provide emergency lighting in the event of a complete loss of normal mains supply. (Non-maintained operation is available by excluding a switched live supply).

The benefits of the modern white low power LEDs include long life (typically 50,000hours+), excellent energy efficiency (>100lm/W), low operating temperatures therefore improving the life of the internal batteries, and good operation at low ambient temperatures.

These luminaires incorporate high quality mains drivers and separate state-of-the-art emergency gear, and they fully comply to the requirements of EN60598.2.22



Features

- Decorative square LED luminaire
- Fully addressable and compatible with LuxIntelligent systems
- IP65 rating
- Robust cast aluminium construction
- Long-life LEDs (50,000+ hours)
- Low power consumption
- Fully complies with all aspects of EN60598.2.22
- 1250lm under mains operation
- 235lm under emergency operation

Options & Order Codes

AMLED/230/RN	Amenity-LED IP65 Circular Luminaire, Surface Mount, Mains Only, Non-Addressable
AMLED/M3/P/RN	Amenity-LED IP65 Circular Luminaire, Surface Mount, Maintained, Addressable
AMLED/230/SQ*	Amenity-LED IP65 Square Luminaire, Surface Mount, Mains Only, Non-Addressable
AMLED/M3/P/SQ*	Amenity-LED IP65 Square Luminaire, Surface Mount, Maintained, Addressable

**refer to Amenity-LED Square datasheet for more information*

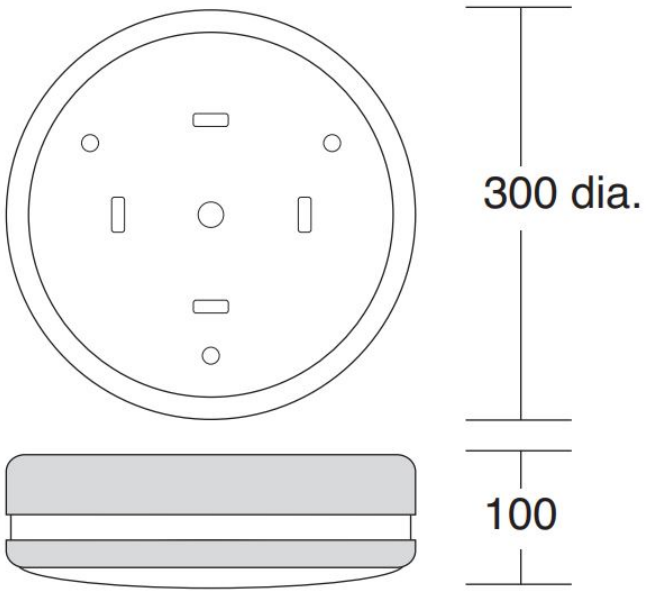
General Details & Specification

Product	Amenity-LED Round
Luminaire LED lumens	2000lm
Construction	Cast aluminium body with polycarbonate opal lens
Geartray	White PCB fixed via 2 screws
Dimensions	300mm (diameter) x 100mm (H) / 20mm cable entry in rear
Light source	Surface mounted white LEDs (2000 lumens) - 4000K
Luminaire lumens (mains)	1250lm (1175lm with tri-guard)
Luminaire lumens (emergency)	235lm (200lm with tri-guard)
IP rating	IP65
Ambient temperature (Ta) / insulation class	25°C / Class I
Supply voltage	230V ~ 50Hz
Supply power / charge power	19.2W / 3.5W (16.4W mains only)
Battery	1 x 6.0V 2.0Ah NiCd
Weight	Approx. 3.5kg (2.8kg mains only)

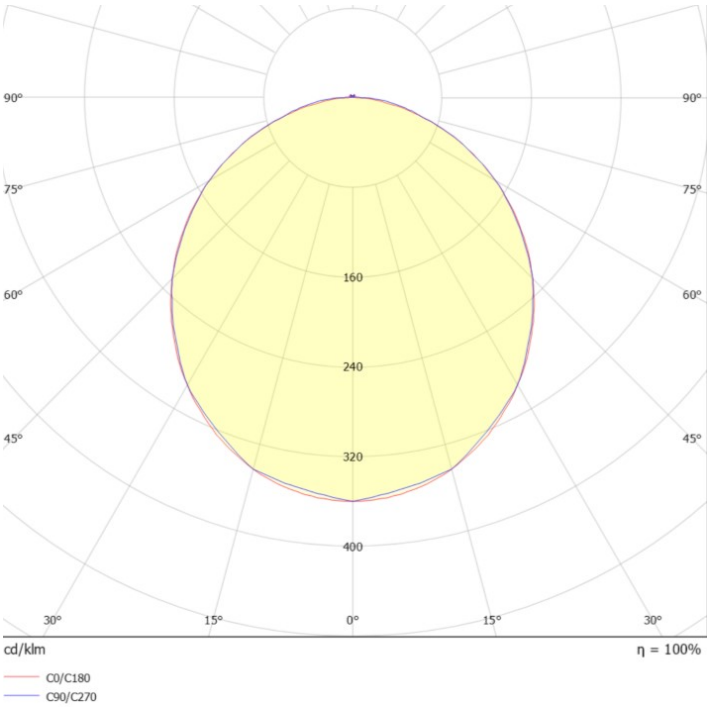
Spacing Data

Mounting height (Hm (m))	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape
2.0	10.7	7.5
2.5	11.3	7.6
3.0	12.3	7.8
4.0	12.5	8.2

Dimensions (mm)



Light Output Curve



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Vapour-LED IP65 Non-Corrosive - obsolete

The Vapour-LED is a linear, IP65, non-corrosive, vapour-proof luminaire that fully supports all features of the LuxIntelligent test system and complies fully with all the relevant requirements of EN60598.2.22.

The Vapour-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 metal hydride batteries (NiMH). 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. They are ideal for low-maintenance applications offering 4 to 5 years of maintenance-free operation and provide an excellent solution to anywhere with a high lux requirement.

Utilising bespoke led modules, these long-life/low maintenance luminaires are ideally suited for interior and exterior lighting applications where energy efficiency and low maintenance costs are of prime importance. The Vapour-LED luminaires provide a low energy, long life alternative to conventional linear fluorescent luminaires. The Vulcan LED luminaire is more tolerant to temperature extremes than fluorescent equivalents and is ideally suited to areas where access would be difficult for regular lamp replacement schedules.

The IP65 rated enclosure is suitable for surface or suspended installation. The sealed polycarbonate enclosure utilises stainless steel clips making the complete luminaire ideal for food preparation areas. The high transmission opal diffuser is optimised for a wide photometric distribution and the Vapour-LED IP65, non-corrosive, vapour-proof LED luminaires provide excellent general illuminance with very low energy consumption and LED's exceeding 50,000 hours continuous use.



Features

- Fully compatible with LuxIntelligent test system
- High output 535 Lumens in Emergency Mode
- 4550 Lumens in Mains Operation
- Low power consumption, long-life LEDs (50,000+ hours)
- IP65-rated
- Non-corrosive / vapour-proof

Specifications

Light source	High power LED on aluminium heat sink
Construction	Poly carbonate enclosure and special opal diffuser
Dimensions	1500mm (L) x 110mm (W) x 75mm (H)
Light source	Two rows LED modules (53W)
Luminaire lumens	4550lm mains / 535lm emergency
IP rating	IP65
Environmental rating	Ta25
Insulation class	Class I
Supply voltage	230V 50Hz
Supply power	53W
Battery	6V 4AH NIMH (2C + 3C)
Weight	4.0KG

Order Codes

VPLED/M3/P	Vapour-LED IP65 Non-Corrosive Luminaire, Vapour Proof, Surface Mount, Maintained, Addressable
VPLED/230	Vapour-LED IP65 Non-Corrosive Luminaire, Vapour Proof, Surface Mount, Mains Only, Non-Addressable

More Information

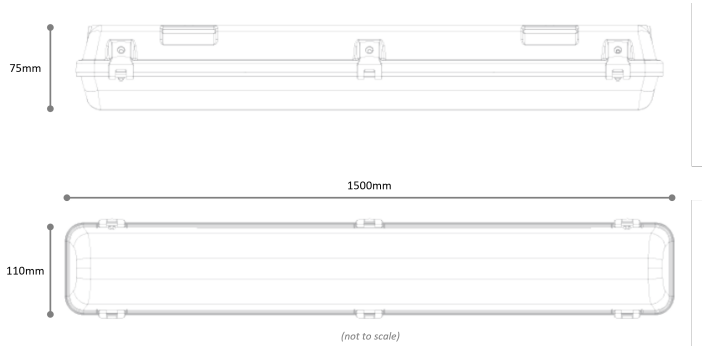
1 lux minimum at centre line (escape route)

Mounting Height (M)	Trans. to wall	Trans. to trans.	Axial to trans.	Axial to axial	Axial to wall
2.5	4.8	12.1	10.9	4.2	10.3
4.0	5.5	14.3	12.9	4.9	12.5
8.0	5.1	16.1	14.5	4.6	14.6
10.0	3.5	15.5	14.0	3.2	14.1
12.0	0.0	13.7	12.3	0.0	12.6

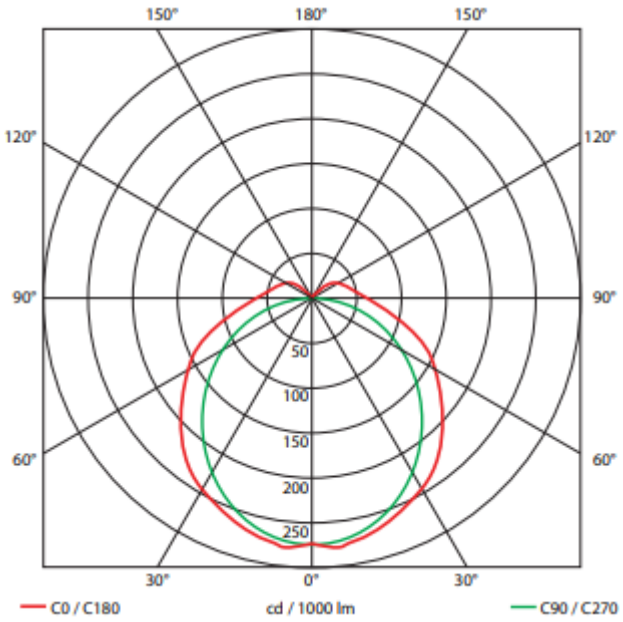
0.5 lux minimum (open area)

Mounting Height (M)	Trans. to wall	Trans. to trans.	Axial to trans.	Axial to axial	Axial to wall
2.5	6.1	15.0	13.5	5.1	12.5
4.0	7.1	18.0	16.2	6.2	15.4
8.0	8.1	22.1	19.9	7.2	19.7
10.0	7.7	22.8	20.5	7.0	20.5
12.0	6.9	22.7	20.4	6.2	20.6

Dimensions



Light Output Curve



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