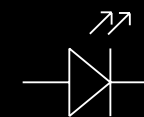


# EMERGENCY | ONE-LED SOLO | NON MAINTAINED LED LAMP AND DRIVER KIT



one  
LUX

## Product description

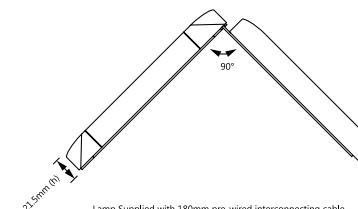
- > Self-contained LED emergency luminaire
- > Low profile SELV hinged design driver and battery enclosures to fit through 42mm mounting hole
- > Symmetrical output lamp design gives 8m spacing whilst retaining sufficient light output on call points in corridors
- > Constant power output – maintains spacing throughout rated duration
- > Features innovative manual 'push to test' facility
- > Non-maintained 2-cell 1.5W constant power output

## Properties

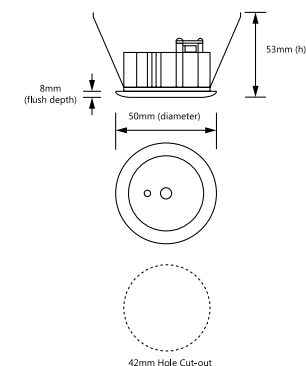
- > SELV enclosure incorporating insulated terminals
- > Battery compartment incorporates 2 x 4Ah high temperature Nickel Metal Hydride (NiMH) cells
- > Driver complies with: EN61347-1, EN61347-2-7, EN55015, EN61000-3-2, EN61547
- > Luminaire conforms to EN60598-2-22
- > Suitable for installations to EN50172
- > Constant current battery charger
- > 1 or 3-hour autonomy versions
- > Manual test with built in 'push to test' via surface of luminaire
- > Deep discharge protection (DDP) to protect cells from over discharge
- > Pre-wired for simple installation
- > Access to push-terminals if ordering driver separately
- > Built-in green charge indicator LED on lamp head

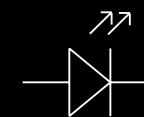
Common Technical Data	
Input Supply Voltage	230V +/- 10%
Supply Frequency	50/60 Hz
Maximum Spacing (1 lux)	8m
Battery Type	2.4V 4Ah 18700 NiMH
Changeover Threshold (Vrms)	Falling >144V Rising <204V
Maximum Ambient Temperature	35°C
Battery Charge Time	24 Hours
Earth Leakage Current	<0.5mA
IP Rating	IP20
Recommended Cut-out Size	42mm
Weight	90g

Model Number	Standard Pack Quantities	Weight
OLS/NM3	10	3.0kg



Lamp Supplied with 180mm pre-wired interconnecting cable.










## TECHNICAL INFORMATION

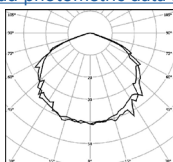
Model Number	Input Characteristics - Charging Mode			
	Circuit Watts	Input Current	Inrush Current	Power Factor
OLS/NM3	3.5W	30mA	4.5A	0.44

Model Number	Battery & Emergency Output Characteristics							
	Rated Duration	Battery Type	Battery Volts (Range)	Rated Capacity	DDP Voltage	Charge Current	Charging Method	Uout Max (open Circuit)
OLS/NM3	3 hours	NiMH	2 - 2.8V	4Ah	1.8V (min)	0.14 - 0.21 A	Constant Current	12V

Mounting Height (Meters)	Distance Table for Even Escape Routes - Based Upon 2m Width of Escape Route					
	Axial/Wall 	Axial/Axial 	Axial/Transverse 	Transverse/Transverse 	Transverse/Wall 	
2.00	2.97 m	7.47 m	7.36 m	7.50 m	2.97 m	
2.50	2.98 m	8.20 m	8.07 m	8.24 m	3.09 m	
3.00	3.00 m	8.64 m	8.53 m	8.56 m	3.11 m	
3.50	2.83 m	8.80 m	8.71 m	8.82 m	3.04 m	
4.00	2.91 m	8.88 m	8.83 m	9.00 m	2.91 m	

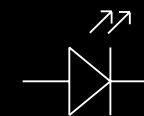
This Spacing Table is based upon the following parameters:

[Download photometric data as ldt file](#)



Please be aware that these are a minimum guide in accordance with BS/EN 1838. Local risk assessment by a competent person should be carried to ensure the emergency lighting system meets the requirements of the building and its occupants. Photometric data file can be obtained using the adjacent download link.

- > Maintenance factor: 0.9
- > Ballast lumen factor: 1.00
- > Minimum illuminance on centre line: 1 LUX
- > Minimum illuminance on half of escape route width: 0.5 LUX
- > Diversity on the centre line maximum 40:1



## INSTALLATION

### Disclaimers

This product and its associated accessory products have been manufactured and designed to comply with the requirements of EN60598-2-22 in addition to the standards detailed on page 1 of this document. Operation beyond the parameters specified in this document and the associated standards may result in reduced performance and ultimate premature failure, with the warranty made void. The specifier should be aware of the environment to which the luminaire and these components are used and follow the luminaire manufacturer's specifications. Installation should be in line with the following guides. Please contact our Technical department if you are in any doubt.

### Precautions

This product should be installed as per the following guidelines, electric shock or damage to the product may result if incorrectly installed. The luminaire should be installed by a qualified and competent electrician. If the luminaire is to be mounted in an external location, consider the battery as temperatures below 0°C may be frequent in cold months. In this case, the design life of 4 years will be compromised and more frequent battery replacements may be needed. Likewise, if the luminaire is situated in a hot environment where the temperature is maintained at 25°C or above.

### Trade mark features and Glossary of terms

- > Constant power output. This product has been designed to monitor and regulate the discharge from the battery as well as the current delivered to the lamp in emergency mode. This carefully designed feature ensures that the designed maximum spacing is maintained throughout the 3 hour emergency lighting period and battery life is optimised.
- > Non-Maintained operation. One-LED SOLO is designated a non-maintained luminaire. This means that by design the main LED light will only operate upon mains supply failure; it is a dedicated emergency luminaire and cannot be operated as a standard light source.

### Installation notes

Wire Preparation: maximum strip length 10mm (recommended 6mm)  
Min/max Conductor sizes: 0.2 - 1.5 mm<sup>2</sup>.

One-LED SOLO must be installed in accordance with the current wiring and building regulations. It is recommended that a 42mm cut-out is provided to insert the luminaire. The mains connections should be made to the 3-pole grey terminals marked 'LIVE', 'EARTH' and 'NEUTRAL'. Please note the cable size range for the terminal block is 0.2mm<sup>2</sup> - 1.5mm<sup>2</sup>. This product requires a permanent supply (via test key switch where required) as per the adjacent specifications table. Restrain and protect the terminations by affixing the cord restraint and terminal cover provided.

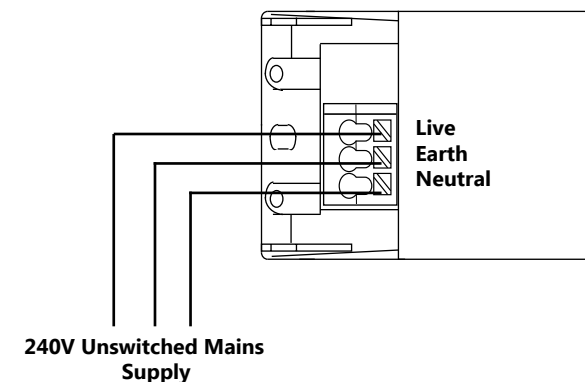
### Commissioning

Once the luminaires are installed, the mains supply should be instated and remain un-interrupted for a minimum of 24 hours. The supply should then be removed and all luminaires checked for a minimum of 3-hours duration. The label on the battery box must be initialled and dated by the commissioning engineer.

### Testing

Regular testing must be carried out and recorded in accordance with BS EN 50172. To facilitate monthly checks, a discrete green charge indicator and manual push-to-test feature are incorporated into One-LED SOLO. Depressing the facia at the point shown in the illustration will operate the lamp in the emergency mode for as long as it is pressed. This feature allows regular testing to be carried out with minimal inconvenience to the building occupants. Please take care to avoid looking directly at the LED when under test. Finger contact with the power LED should also be avoided. For commissioning and the annual full-rated duration test, it is recommended that the supply is isolated via conventional methods such as isolation of the circuit at the MCB or via key test.

### Wiring illustration



### Push-to-test illustration

