

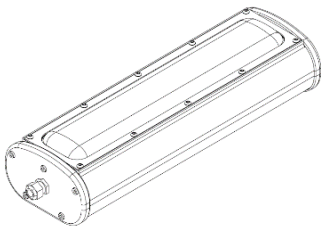
URBAN

Linear Range - Installation Guide

This installation guide provides instructions for installing URBAN series of industrial luminaires.

Text in *italics* is specific for emergency variants.

Overview



- 1 Safety Instructions
- 2 Installation
- 3 Maintenance
- 4 Technical Specification

Important information

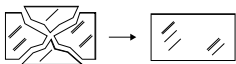
The URBAN series of industrial luminaires are specialist devices, for use in specific operating environments.

The units must be installed in accordance with these instructions and must be installed by suitably qualified personnel.

If you have any queries about the installation or the certification of the unit – please contact Raytec for immediate assistance and advice.

1. Safety instructions

1. Read this leaflet carefully before commencing to install the URBAN unit and retain it for future use. Installation can only be carried out by suitably qualified personnel.
2. Externally the URBAN unit housing is constructed from marine grade aluminium and polycarbonate outer optic, stainless steel brackets/fasteners and silicone gaskets, internally there are many non metallic components. The end user must ensure that these materials are suitable for the environment the URBAN unit will be installed in.
3. Plastic components may be cleaned with water containing a small amount of detergent, followed by a clean water wash. Chemicals/ oils that come into contact with plastic parts may cause stress cracking and premature component failure.
4. When the unit is installed correctly and in accordance with these installation instructions it will not harm humans or animals.
5. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.



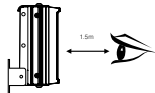
Replace any cracked protective shield
Order SPX-BKT-RL-G2 from Raytec Ltd



Isolate mains before
removing cover



Install in a well
ventilated area



Eye Safety - Risk Group
1 to IEC 62778

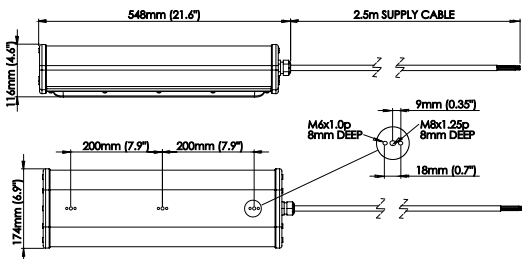
2. Installation

Mounting URBAN Unit

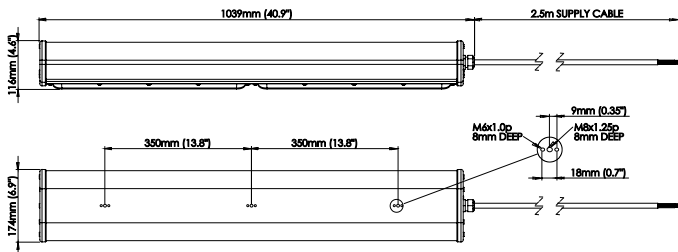
1. It is recommended that a **MINIMUM** of 2 fixing points must be used, the fixing points must be suitable for the conditions of use. The URBAN product is supplied with eye bolts to allow the product to be suspended.

Dimensional Diagrams

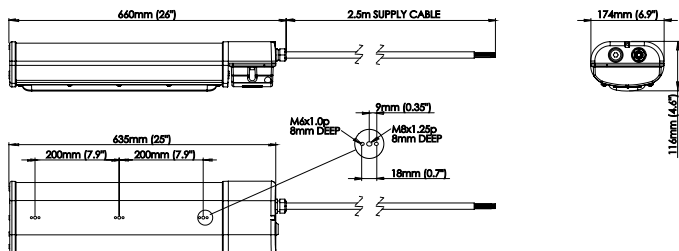
WL84



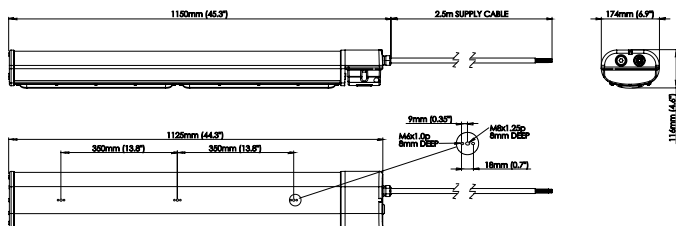
WL168



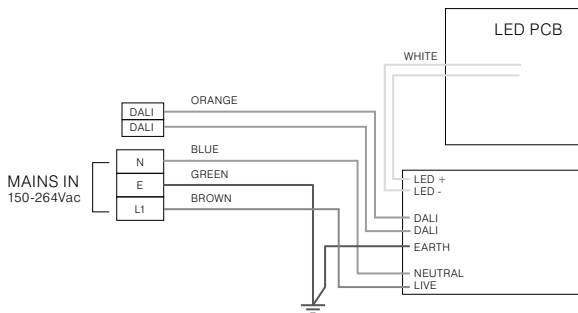
WL84 Emergency



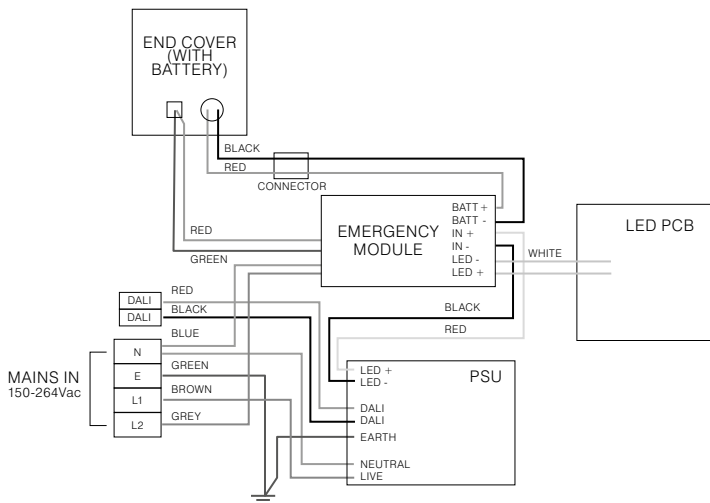
WL168 Emergency



Wiring Diagram – Standard Version



Wiring Diagram – Emergency Version



2. The standard product is supplied with 2m of H07RN-F flex for terminating into a suitable plug, connector or terminal box. The mains supply cable on a standard product is 5 core and is identified as

Green/Yellow - Earth)
Brown - Live
Blue - Neutral
Grey - DALI polarity free
Black - DALI polarity free

On an emergency version the product is supplied with 6 core (numbered cores) H07RN-F flex. The cores are identified as

Green / Yellow - Earth
1 - Live Switched
2 - Neutral
3 - Live Permanent
4 - DALI (polarity free)
5 - DALI (polarity free)

NC Variant Only

3. The NC variant is supplied without cable. For this variant remove the end cap (with the cable gland fitted) by loosening and removing the 5xM6 screws. Slide the geartray out of the body of the luminaire far enough to reveal the terminal blocks. Route cable through the terminal block and terminate as required. A separate gland insert is supplied if using 2 cables or loop in/ loop out. Tighten gland to 2Nm.
4. Once wired and gland tightened slide the geartray back into the body of the luminaire ensuring no trapped cables. Ensure gasket is seated correctly and refit the screws (ensuring the nylon washers are fitted under the screw heads). Tighten screws to 3Nm.
5. If the unit is opened for any reason, disconnect mains – On emergency luminaires there may be more than one mains supply
6. The battery connector is located in the compartment that contains the battery, the battery is disconnected after final manufacturing testing. When installing the product the battery will need to be reconnected. Once reconnection is complete replace terminal enclosure cover. Ensure gasket is located neatly in channel and no wires are trapped between cover and body. Tighten screws to 3Nm.

URBAN Intelligent Emergency Operation Guide

The Emergency version is equipped with a self-test functionality according IEC62034.

- 28 days after power-up the driver will perform a functional test of 30 seconds.
- Every 6th test (after half a year) will be a duration test. This test will run until the battery is fully discharged and the driver will verify if the capacity of the battery is sufficient to provide 3hrs emergency time.
- A duration test will only be performed if the battery is fully charged AND when the external lamp driver is off for 2 hrs. I.e.: in an office, the duration test will generally take place in the nightly hours. A 24/7 lighting situation will be detected as such if the lighting has been on for at least 72 hrs. In that case the duration test will be performed once its timer has elapsed.
- Generally, in case of a failure, an error will be indicated by the LED status indicator. See below for details.

LED Status Indicator

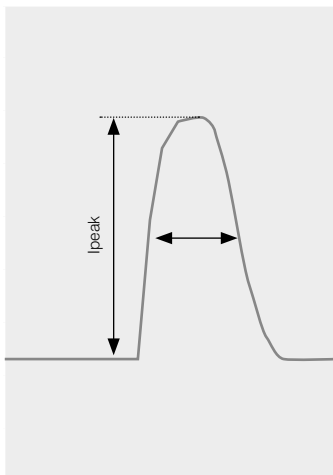
LED indicator (colour / flashing)	Error condition	Cause	Solution
Green / no flashing		System OK, battery fully charged	
Off		Mains off, EM mode, Rest mode, test in progress	
Green / slow 0.25s on, 1.25s off		System OK, battery is charging	
Green / fast 0.25s on, 0.25s off		System OK, recently tested (< 5 days, Australia mode only)	
Red / no flashing	Battery voltage too high or too low	No battery connected	Connect battery
		Wrong or bad battery connected	Replace battery
		Battery pack replaced with different type	Reset the driver
Red / fast 0.25s on, 0.25s off	Output voltage too low or too high	Wrong LED load connected	Connect right load and perform functional test
	No load connected or output shorted	Wrong connection	Connect right load and perform functional test
Red / slow 0.25s on, 1.25s off	Failed test due to battery	Battery end of life Charger failure	Replace battery and perform duration test Replace driver
Red-green / fast Fast flashing: on-time = 0.25s, off-time = 0.25s Slow flashing: on-time = 0.25s, off-time = 1.25s		DALI device identification	
Green / short on-time = 50ms, off-time = 0.95s		Battery detection	

4. Technical Specification

Input Voltage	150-264V AC
Input Current (230Vac, full load)	0.13A
Consumption	36W WL84 STD / 72W WL168 STD <i>39W WL84 EM / 75W WL168 EM</i>
Power Factor (230Vac, full load)	>0.92
Mains Frequency	50/60Hz
Inrush Current (I_{peak} @50%)	20A, $\Delta t < 300\mu s$
Total Harmonic Distortion (230Vac, full load)	<10%
IP Rating	IP66/67
Weight (std)	5Kg WL84 STD, <i>7kg WL84 EM</i> 8kg WL168 STD, <i>9kg WL168 EM</i>
Dimensions	See previous pages for line diagrams
Ambient Range	-40°C to +40°C <i>-20°C to +40°C (EM versions)</i>

Inrush Current Typical Curve

Max number of fittings allowed per MCB
(Based on 230V)



MCB Type	Rating	
B	10A	18
B	16A	30
B	20A	37
B	32A	60
C	10A	30
C	16A	50
C	20A	60
C	25A	78

Disclaimer

The information provided in this document was accurate at the time of its creation. However, due to the evolving nature of our products and continuous improvements, there may be changes or updates that occur after its publication. For the most current and detailed information about our products, please contact our sales team at sales@raytecled.com



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