



URBAN-X Mini Installation Guide

- Lightweight and durable design
- Excellent efficiency >110lm/W
- The luminaires are Class 1 for insulation
- Intelligent driver programs
- 5-year warranty
- The luminaires are suitable for use Outdoors and Indoors

Safety Warnings



Eye Safety:

Caution – EN62471 Risk Group 2 Classification - Possible hazardous optical radiation emitted from this product. May be harmful to eyes, do not stare at the lamp. Hazard Distance is 1,480mm.



Warning: High Voltage product

All Electrical Installation work to be performed by a suitably qualified person in line with the local regulations.

Risk of electric shock - isolate mains before removing cover.

Mechanical Installation:

Ensure unit is mounted securely to prevent risk of injury and the supply cord is installed as per the instructions.

Box Contents

- Urban-X Mini luminaire
- Fixing Grub screws Qty 2
- Cable gland and nut (if supply cable not fitted)

Installation Steps

Connection of Supply Cable to the inside of the Unit. For models without a supply cable see section (1). For models with a supply cable see section (2).

Important Information:

The unit must be fitted with the cable gland supplied with the product. This is a combination cable and ventilation gland. Without this gland, the product will not function properly. Failure to use this gland may cause damage to the unit and will void the warranty.

A suitably rated 3 core cable (5 core for use with DALI) must be used.

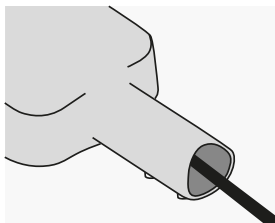
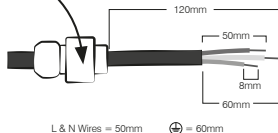
Conductor size CSA: 0.75mm² to 1.0mm²

Cable O/D: Min 4.5mm to Max 10mm

(1) Connection procedure

- Remove cover plate (5 screws)
- 3 Core Mains supply cable
 - Prepare suitable 3 core mains cable as shown. Ensure cable gland is tightened in correct position. Feed cable and gland through the mounting spigot and secure tightly with nut ~3.5Nm (22mm spanner required).
- Terminate mains supply wires to terminal block
 - (L) Live - (N) Neutral - (⊕) Earth
- Fit the cable through the restraining clip and tighten on to base plate. Clip out excess cable tie tail.
- Replace the cover plate
 - You must use the screws supplied with the product
 - Torque to 4Nm to ensure the environmental seal
- **DALI connection (when used):**
 - The additional cores should be stripped to 8.5mm - 9.5mm and suitably terminated
 - Connect directly to the driver terminals labelled DA(BL) Blue. The connection is non-polarity sensitive

1.5Nm (20mm spanner required)



(2) Mechanical installation

- Mount unit on appropriate support spigot of size 34-42mm Diameter
- Secure unit on spigot with supplied grub screws. Ensure spigot is fully engaged and tighten grub screws to torque 17Nm (5mm hex)
- For Outdoor applications the supply cable should be suitably protected from the environment e.g. inside conduit or a lighting column

WARNING:

If the factory fitted cable is damaged it must be replaced by a suitably qualified person to avoid a hazard. The light source contained in this luminaire shall only be replaced by the manufacturer or a nominated representative.

Functionality

The unit responds when power is supplied to the internal LED driver. If the unit has a Photocell fitted this acts as an on/off switch for the power reaching the internal LED Driver. *(For Photocell On/Off Lux Levels please see the specification table)*

Driver Programs *(these will be marked on the driver)*

The unit will function according to one of the following factory-set programs;

- | | |
|-----------------------------------|---|
| ID1 - Soft Start: | 100% output for duration of night (5 second soft start). |
| ID2 - Timer Dimming: | 100% power (5 second soft start) for 5 hours from power up, then 50% power until the next cycle. |
| *ID3 - Active Dimming 50% | |
| *ID4 - Active Dimming 25%: | 100% output (5 second soft start) from power up, then dims to either 50% (ID3) or 25% (ID4) power, around the midpoint of the night and up to a maximum of 6 hours after, then back to 100% if it's still dark.
This program would typically require the use of an inbuilt or remote photocell to monitor the hours of darkness. |
| ID5 - Event Trigger: | The luminaire will operate at 100% for 30 minutes and then switch off until re-activated |
| Custom: | A customer specific program. |

- * Not suitable for locations where the length of night is 23 hours or greater. For the first 3 nights the luminaire is on at 100% power from sunset to sunrise whilst the system learns the length of nights. Unit does not compensate for variations within local time zones. Unit does not compensate for international clock changes.

DALI control

- The LED driver is DALI compatible allowing further control functionality and simultaneous control of multiple luminaires.

ATC

- The unit has inbuilt automatic thermal control which protects the unit in high temperature installations by turning the LEDs down to prevent damage to the product

Urban-X Mini Specifications:

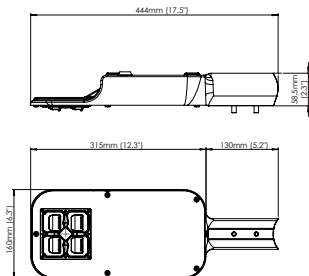
All units can be supplied with or without a photocell unit.

All units can be supplied with or without a supply cable.

Nema socket options available.

Model Type	Urban-X Mini 20	Urban-X Mini 30	Urban-X Mini 40
Operating Temperature	-30°C to 60°C (-22°F to 140°F)		
Power Output (Lumens)	2,200	3,300	4,400
Consumption	20W	30W	40W
Input (nominal)	220-240V AC (50-60Hz)		
Surge Protection	Photocell fitted: 2kV No Photocell fitted: 8kV		
Weight (Excluding Cable)	2kg (4.4lbs)		
Photocell Switching (If fitted)	On at 55 Lux ; Off at 28 Lux		
Environment	IP66		
Impact Protection	IK08		
Dimensions (L x W x H)	444 x 160 x 58.5mm (17.48 x 6.3 x 2.3") (Height 81mm/ 3.1" with photocell fitted)		
Optional Cable Length	8M (26ft) or 12M (39ft)		

Product Dimensions



Model shown without photocell fitted

Urban-X Mini Troubleshoot

Ensure all tests are undertaken by a qualified, trained engineer. Ensure safe working practices are followed at all times.

- Check mains input
- Check all mains wiring connections are correct
- Check photocell is working (if fitted)
- Check Driver Program
- Check luminaire physical alignment
- If DALI controlled check DALI communications and connections
- Call Raytec for further assistance