

rayLUX URBAN

illuminators installation guide

This installation guide provides instructions for installing the RAYLUX URBAN series of White-Light illuminators.

Installation Steps

1. Feed cable through bracket solution
2. Mount Illuminator
3. Mount PSU
4. Connect Illuminator to PSU
5. Connect Photocell to PSU

Set Up Steps

1. Locate unit(s) as advised in lighting design
2. Position unit to provide illumination down onto a scene
3. If using UBA48 or UBA32 model, adjust the horizontal angle via Adaptive illumination™
4. Tighten all fixings

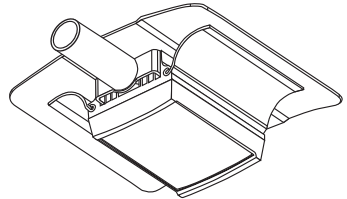
Package Contents

1. Illuminator
2. Power Supply (PSU)
3. Illuminator cable (5m)
4. Photocell cable (5m)

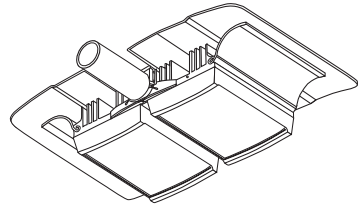
GOLDEN RULES:

1. Ensure PSU lid orientation has warning label in line with main input glands
(see PSU diagram, right)
2. Ensure operating voltage is correct for unit being installed
3. Ensure PSU is fully water tight

Overview

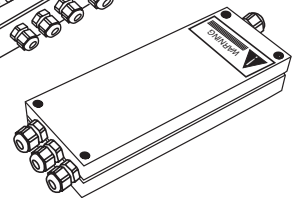
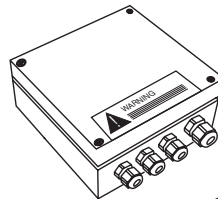


UBF Range

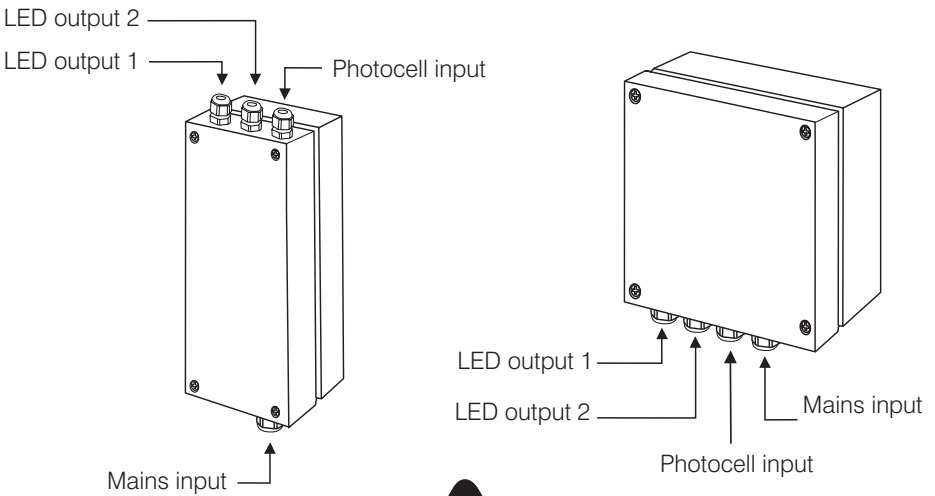
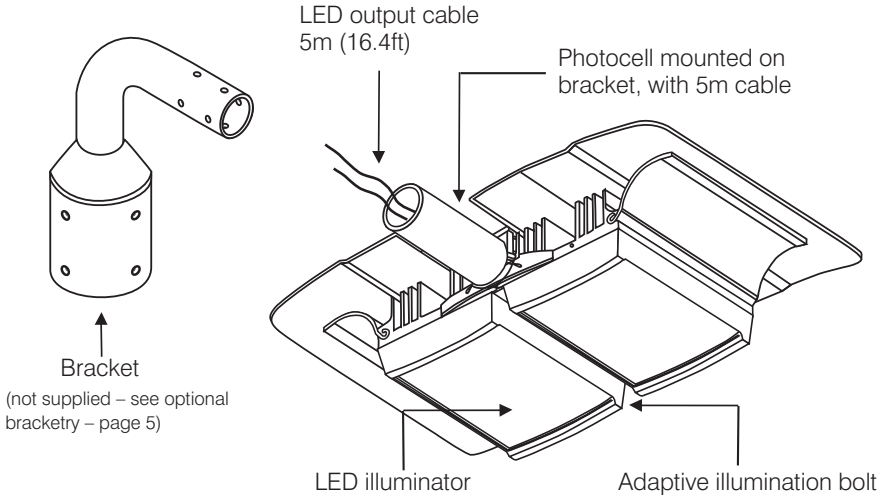


UBA Range

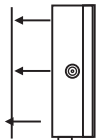
RAYLUX URBAN illuminators



PSU



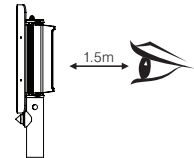
Isolate mains before
removing cover



Mount PSU to
flat surface or
inside column



Install in a well
ventilated area



Do not continually
stare at lamp

Installation

1 Feed cables through bracket solution – see page 5

2 Mount and secure illuminator Typically Column Mounted.

3 Mount PSU – Suitable for inside most general lighting columns (excluding UBA48) can also be mounted externally. If external ensure glands are facing down.

4 Connect Illuminator to PSU: Installers can extend or reduce lead length using appropriate cable and weather proof box. Contact RayLED.

5 Connect Photocell to PSU.

CAUTION: Red = +ve
Black = -ve
(polarity sensitive)

LED output 1

LED output 2

Photocell input

(UBA48 Model only)

LED output 1

LED output 2

Mains input

Photocell input

Mains input

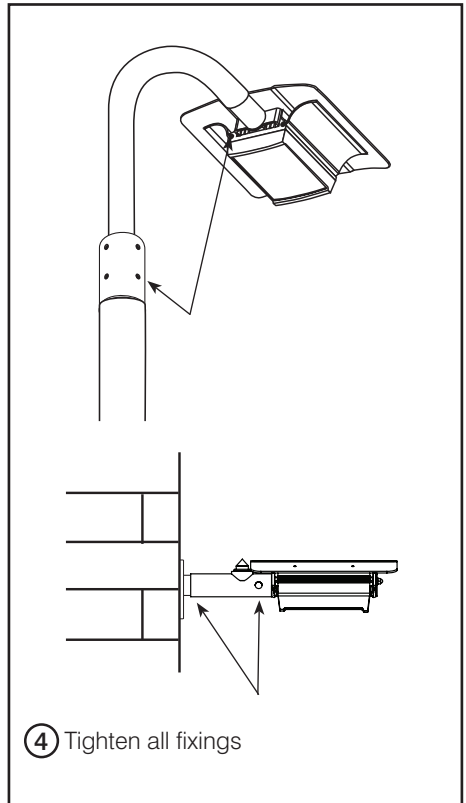
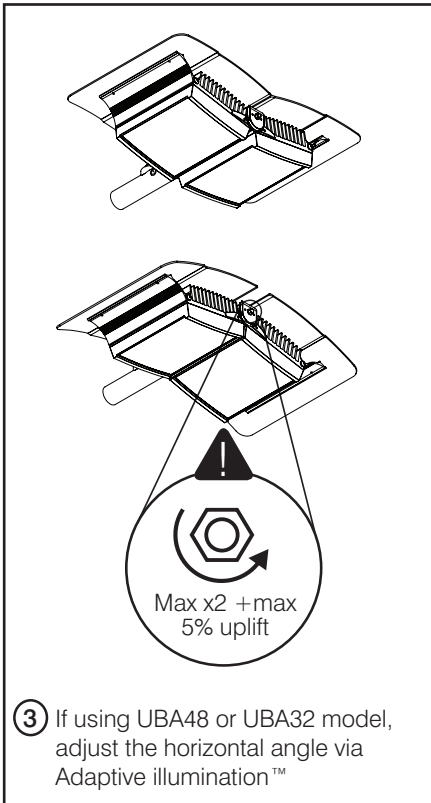
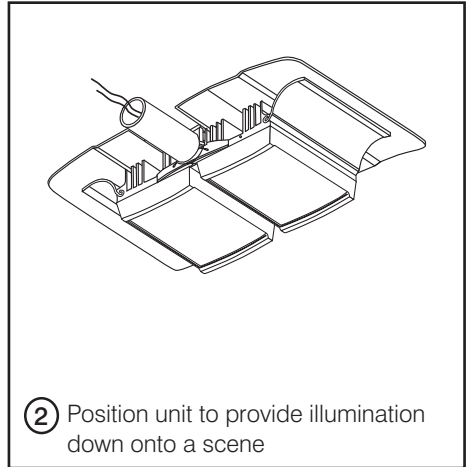
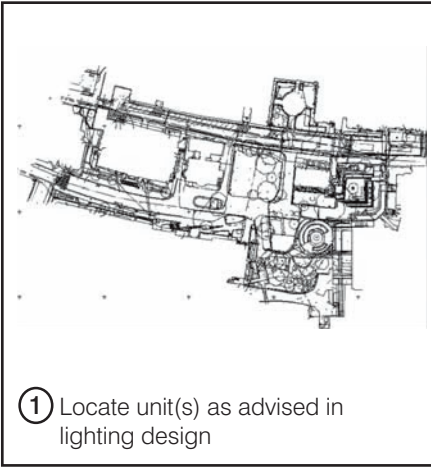
4 PSU connections.

Column

5 UBA48 PSU needs to be mounted to a wall or pole and then connected to the mains. For all other Urban models, the slimline PSU will be mounted inside the column and connected to the mains.

CAUTION: Ensure cable glands and PSU lid are water tight by tightening the fixings

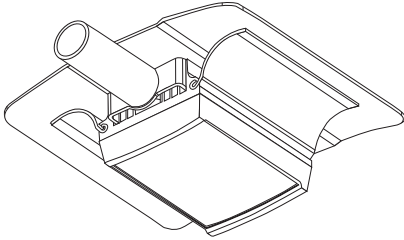
Set Up



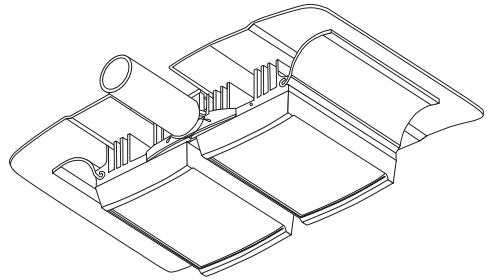
⚠ CAUTION: Do not fully loosen AI bolt.
Note: Power adjust available if required (see PSU diagrams, pages 8-9)

Technical Drawings (Not to scale)

Standard Bracketry



UBF Range

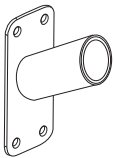


UBA Version

- Tube outreach 125mm
- o/d (outside diameter) 33.7
- i/d (inside diameter) 28

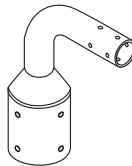
Optional Bracketry

Wall Bracket



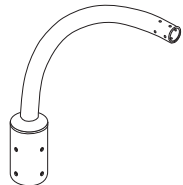
- Finished in Silver
- o/d (outside diameter) 42.4
- i/d (inside diameter) 34.4

Top Stub Bracket



- Arm o/d 42.4, i/d 39.4
- Bracket Cup o/d 88.9, i/d 84.9
- Fits 76 Spigot
- Twin Version Available

Hockey Bracket



- Arm o/d 42.4, i/d 39.4
- Bracket Cup o/d 88.9, id 84.9
- Fits 76 Spigot
- Twin Version Available

Technical Specifications

URBAN Series

	UBA48	UBA32	UBF24	UBF16	UBF8
Consumption	<80W	<50W	<40W	<25W	<15W
Lumen Output*	4700	3100	2350	1600	800
Colour Temp**	6500K	6500K	6500K	6500K	6500K
CRI**	74 - 80+	74 - 80+	74 - 80+	74 - 80+	74 - 80+
Temp	-50°C to +50°C	-50°C to +50°C	-50°C to +50°C	-50°C to +50°C	-50°C to +50°C
Colour	Silver other RAL options available	Silver other RAL options available	Silver other RAL options available	Silver other RAL options available	Silver other RAL options available
Angles	Various	Various	Various	Various	Various
Bracket***	Side Entry	Side Entry	Side Entry	Side Entry	Side Entry
IP	IP66	IP66	IP66	IP66	IP66
Weight (inc. PSU)	5kg	4kg	3kg	2.5kg	1.5kg

OPERATING VOLTAGE: All RayLED units are supplied complete with a dedicated (Universal 100-240V AC auto sensing) current controlled PSU c/w adjustable photocell, power and telemetry input.

Note: Full independent photometry available on request.

* Lumen output depends upon final lens selection. Lumen output shown based on average between 10 and 50 degree angles.

** Cool White as standard - Warm White options available. CRI published reflects range between Cool and Warm White.

*** See page 5 for optional bracketry.

PSU Specifications

URBAN Series PSU

	UBA48	UBA32	UBF24	UBF16	UBF8
Input	AC-100-240 universal<80W	AC-100-240 universal<40W	AC-100-240 universal<40W	AC-100-240 universal<20W	AC-100-240 universal<10W
Fuse	2.5A antisurge	2.5A anti-surge	2.5A anti-surge	1A anti-surge	1A anti-surge
Typical Output (Standard)	4.2A @ 14V	2.8A @ 14V	2.1A @ 14V	1.4A @ 14V	0.7A @ 14V
Adjustable Power	10% - 100%	10% - 100%	10% - 100%	10% - 100%	10% - 100%
Weight	1.85kg (4.1 lbs)	0.7kg (1.5 lbs)	0.7kg (1.5 lbs)	0.7kg (1.5 lbs)	0.7kg (1.5 lbs)
Dimensions L x W x D	160x160x81mm (6.3x6.3x3.2")	248x78x55mm (9.7x3x2.1")	248x78x55mm (9.7x3x2.1")	248x78x55mm (9.7x3x2.1")	248x78x55mm (9.7x3x2.1")

Power Supply Features

STANDARD PSU

- Input: Universal 100-240V
AC auto-sensing
- Output: Low Voltage
(~14V Current Controlled)
- -50 to +50 C
- IP67
- Telemetry (Volt Free)
- Integrated Photocell (Adjustable)
- Power Adjustable

OPTIONAL PRO PSU (UBA48 ONLY)

As above plus:

- 12V (1amp) DC Output
- Photocell Following Contact
- Allows Pro IQ module to be fitted

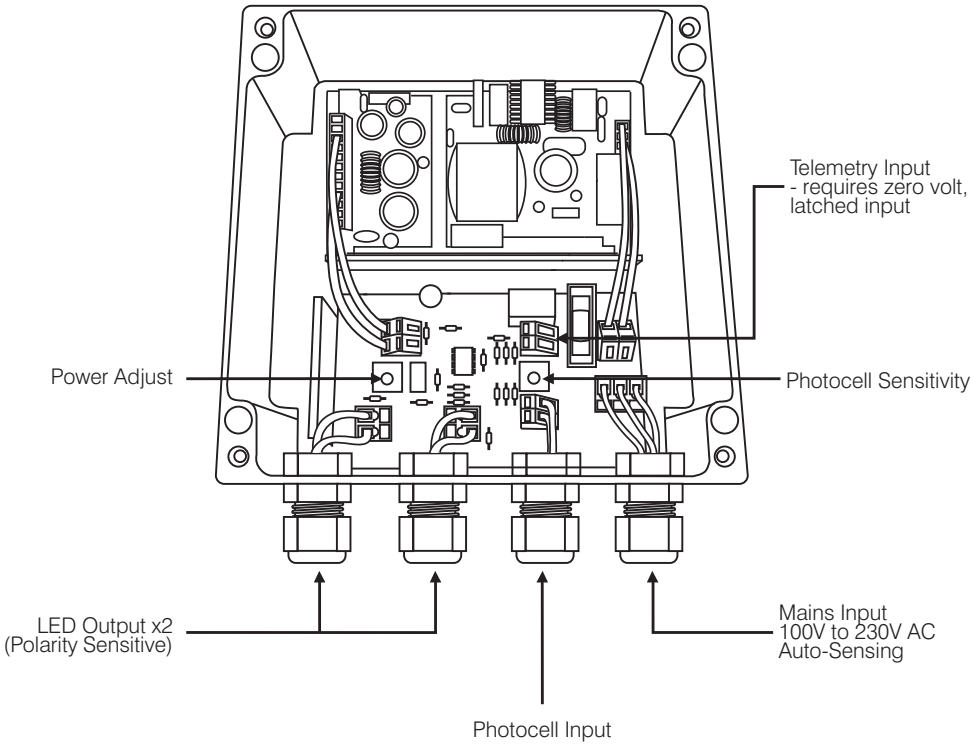
PRO SERIES PSU PLUG IN MODULE: (UBA48 ONLY)

PRO IQ

- Remote Illumination Adjust
(Dim and Boost)
- Energy Saving Setting
- Deterrent setting
- Timer options

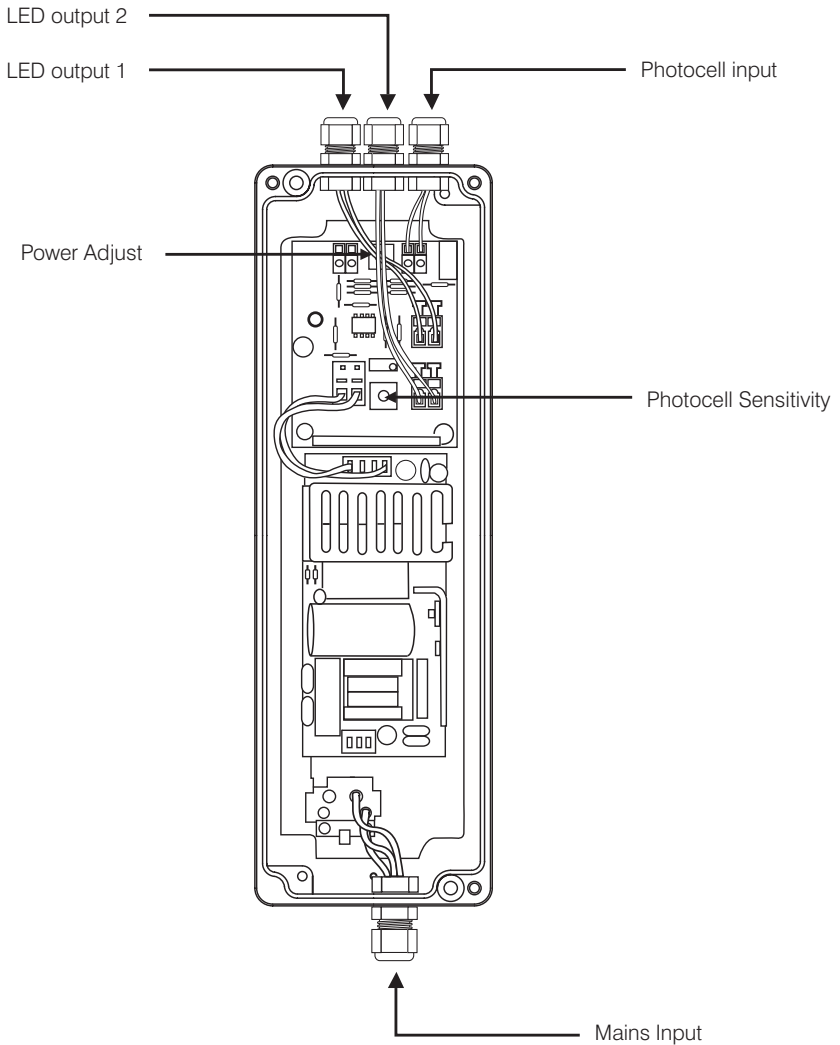
Power Supply Diagrams (Not to scale)

STANDARD PSU URBAN UBA48 Model



SLIMLINE PSU

URBAN UBA32, UBF24, UBF16, UBF8 Models



Trouble Shooting

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

Step 1: Basics

- Check polarity of WHITE-LIGHT Lamp connection
red= +ve, black=-ve
- Check telemetry link is in
- Check photocell is working
- Check power setting pot fully clockwise
- Check mains input
- Check fuse intact

If OK...

Step 2: Lamp Test

Check voltage of lamp o/p approx 14V

Check current of lamp – see instructions for correct current setting

To check lamp current (this must be done while both LED panels are connected to the PSU) remove +ve LED from both lamp supply cables and connect multimeter set to 10A current in line with the lamp. [One lead of multimeter in common (COM), other lead into 10A socket of multimeter; set multimeter to 10A readings]. Refer to PSU Specifications for correct current settings, see pages 7.

Step 3: Contact RayLED for further assistance

Note down:

- Model, Angle version + any options
- Serial Number of illuminator and PSU