BRIGHT SOURCE

Register your Bright Source warranty online within 30 days to receive your extended warranty

Scan the QR code or visit

https://www.brightsourceuk.com

See website for more information on replacability and recycling

EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/GA0248QZ.
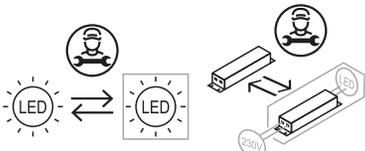
WHEN YOUR PRODUCT COMES TO THE END OF ITS LIFE OR YOU CHOOSE TO REPLACE IT, PLEASE RECYCLE IT WHERE FACILITIES EXIST - DO NOT DISPOSE WITH HOUSEHOLD WASTE.

CLEANING:

Clean this fitting only with a soft dry cloth.

Do not use any chemical or abrasive cleaners.

IF YOU EXPERIENCE PROBLEMS:

If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any ECl Lighting product, but may not be able to give specific instructions regarding individual installations.

BRIGHT SOURCE

INSTALLATION INSTRUCTIONS

A guide for qualified electricians

Pack contents:
1 x Base
1 x Diffuser

**Power & Colour Temperature Selectable
IP65 LED Bulkhead
243465 & 243489 & 243526 & 243694
243977 & 170006 & 170105 & 170129**

These instructions are provided as a guideline to assist you.

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION AND RETAIN FOR FUTURE REFERENCE

READ THIS FIRST:

Check the pack and make sure you have all of the parts listed on the front of this booklet. If not, contact the outlet where you bought this product.

This product must be installed by a competent person in accordance with the current building and IEE wiring regulations.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that this fitting is fit for the purpose for which you have intended it. Bright Source cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

This product is designed and constructed according to the principles of the appropriate British Standard and is intended for normal domestic service. Using this fitting in any other environments may result in a shortened working life, for example where there is prolonged periods of use or higher than normal ambient temperatures such as lighting public or shared spaces or in nursing /care home facilities.

Switch off the mains before commencing installation and remove the appropriate circuit fuse or lock off MCB.

Suitable for outdoor use.

This product is suitable for use in living areas, and Bathroom Zone 2 and outsides of zones.

If being fitted in a bathroom a 30mA RCD must be used.

Bathroom Zones Diagram

ZONE 2 | ZONE 1

ZONE 2

60cm radius from tap

ZONE 0

225cm

240cm | 60cm

This product is designed for permanent connection to fixed wiring: this must be a suitable circuit (protected with the appropriate MCB or fuse).

This product is suitable for installation on surfaces with normal flammability e.g. wood, plasterboard and masonry. It is not suitable for use on highly flammable surfaces (e.g. polystyrene, textiles).

Before making fixing hole(s), check that there are no obstructions hidden beneath the mounting surface such as pipes or cables.

The chosen location of your new fitting should allow for the product to be securely mounted (e.g. to a ceiling joist) and safely connected to the mains supply (lighting circuit).

When making connections ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This product is double insulated, do not connect any part to Earth.

This product is not intended to be used by children and persons with sensory, physical and/or mental impairments that would prevent them from using it safely.

You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out, these tests are specified in the current IEE wiring and building regulations.

LAMP REPLACEMENT:

The light source is designed to last the lifetime of the luminaire.

The light source contained in this luminaire shall only be replaced by the manufacturer, service agent or a similar qualified person.

CAUTION, RISK OF ELECTRIC SHOCK.

INSTALLATION:

Choose the location for your new fitting according to the conditions listed opposite.

1) Unscrew gear tray screw and allow the gear tray to rest on its hinge.

2) Drill holes in the back of your fitting for your fixing screws, take care and drill gently to ensure a clean hole through. Use a drill bit sized appropriately to your fixing screws (not supplied).

3) Using the back of your fitting as a template, mark the position of your fixing holes on your mounting surface.

4) Prepare the holes in your mounting surface as appropriate for your fixings.

5) Pierce the rubber grommet in the back of your fitting making a hole just large enough to make a tight fit around the incoming mains cable.

6) Thread the cable through the grommet and offer the fitting to the ceiling / wall.

7) Secure the fitting in place. Note, if protection against ingress of moisture is required, the heads of screws must be covered with a silicone or similar sealant.

8) Check that the grommet is still correctly fitted in the cable entry hole and around the incoming cable.

9) Make the electrical connections to the terminal block according to the markings:

10) Set power to the desired option by selecting appropriate switch setting on the driver:

9W / 14W / 18W options

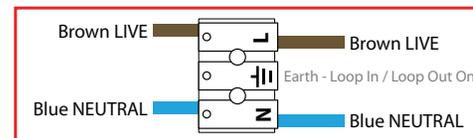11) Set colour temperature to the desired option by selecting appropriate switch setting on the driver.

DL	Daylight	6000K
CW	Cool White	4000K
WW	Warm White	3000K

12) Replace gear tray and secure in position.

13) Offer the diffuser onto the top of the fitting and tighten securely making sure the gasket is correctly fitted in place.
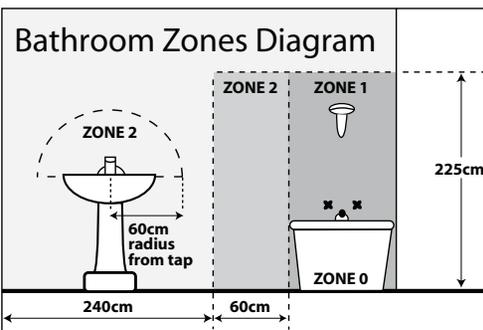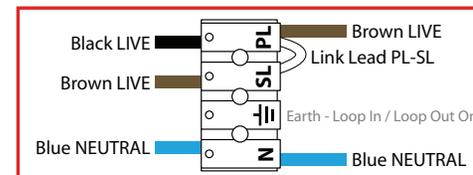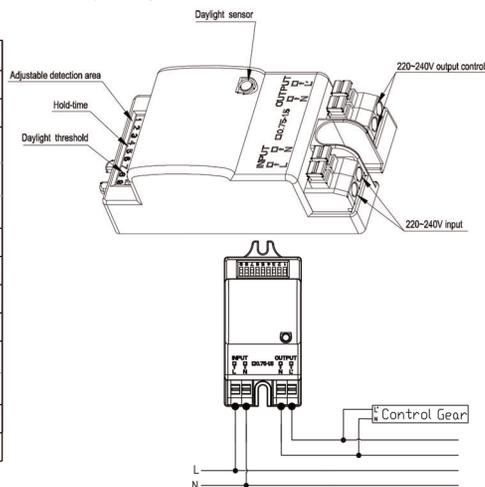
14) Restore the power and switch on.

An Earth connection is not required for the operation of these Class II luminaires. The addition of the Earth terminal provides a loop-in/loop out facility which allows connectivity through to other Class I luminaires in the same lighting circuit.

NOTE: In warm white (3000K) and daylight white (6000K) operation only one set of LEDs will illuminate, in cool white (4000K) both sets of LEDs will illuminate.

Standard version

Brown LIVE — L — Brown LIVE
Earth - Loop In / Loop Out On
Blue NEUTRAL — N — Blue NEUTRAL

Emergency version

Black LIVE — PL — Brown LIVE
Link Lead PL-SL
Brown LIVE — SL
Earth - Loop In / Loop Out On
Blue NEUTRAL — N — Blue NEUTRAL

Microwave Movement Sensor:

This product is fitted with a microwave movement sensor. Please see below detailed operating instructions.

Technical Specifications:

Operating voltage		220 ~ 240V AC 50/60Hz
Rated load		400W (Capacitive load) 800W (Resistive load)
Stand-by power		≤0.5W
Sensitivity	Ceiling mounted height: 3m	100% / 75% / 50% / 25% / 10%
	Ceiling mounted height: 6m*	100% / 75% / 50%
	Wall mounted height: 2m	100% / 75% / 50% / 25% / 10%
Hold-time		5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor		2Lux / 10Lux / 25Lux / 50Lux / Disable
Microwave frequency		5.8 GHz ±75MHz
Transmitting power		1mW Max.
Detection range	Ceiling mounted height: 3m	3- 6m (radius)
	Wall mounted height: 1.5-2m	12-15m
Detection angle		360⁰ (Ceiling) / 120⁰ (Wall)
Working temperature		-20⁰C ~ 60⁰C

*50%, 75%, 100% detection sensitivity is workable when installed at 6m mounting height. Only 10%, 25% sensitivity is not able to detect motion signal.

Settings:

1. Sensitivity

Sensitivity can be adjusted by selecting the combination on the DIP switches for different applications.

I –100%
II – 75%
III – 50%
IV – 25%
V – 10%

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	○	○	●	25%
V	○	○	○	10%

2. Hold-time

Hold-time refers to the time period that the light remains 100% on if no more movement is detected.

I – 5s
II – 30s
III – 90s
IV – 3min
V – 20min
VI – 30min

	4	5	6	
I	●	●	●	5s
II	○	●	●	30s
III	●	○	●	90s
IV	○	○	●	3min
V	●	●	○	20min
VI	○	○	○	30min

3. Daylight sensor

Different daylight threshold can be preset on DIP switches. Light will always turn on upon movement if daylight sensor is disabled.

I – 2Lux
II – 10Lux
III – 25Lux
IV – 50Lux
V – Disable

	7	8	9	
I	●	●	●	2Lux
II	●	○	○	10Lux
III	○	●	●	25Lux
IV	○	○	○	50Lux
V	○	○	○	Disable*

*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

Trouble shooting:

Malfunction Cause Remedy	Cause	Remedy
The light will not come on	Incorrect light-control setting selected	Adjust daylight threshold setting
	Faulty lamp	Replace lamp
	No power supply	Check power to sensor
The lamp is always on	Continuous movement in the detection zone	Check detection area setting
The lamp is on without any identifiable movement	The sensor is not mounted for reliably detecting movement	Securely mount enclosure
	Movement occurred, but not identified by the sensor (Movement behind wall, movement of small object in immediate lamp vicinity etc.)	1. Reduce sensitivity. 2. Check the movement behind walls to avoid facilities such as water pipe, fan, which may mis-trigger the sensor.
The lamp will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small.	Check detection area setting

Care and Safety:

We recommend cleaning with a soft dry cloth. Do not use solvents or abrasive cleaners as these could damage the finish.
For your safety, always switch off the power supply before cleaning.