

# RadiaLED® Rapid Range

Installation instructions for RadiaLED® bulkhead body and LED module



## WARNINGS AND CAUTIONS

- To avoid electric shock ⚠ or serious injury or property damage, isolate power before installing, removing or servicing the product
- It is recommended that this product is installed by an electrician or a competent person with sufficient experience to install this product
- To be installed in accordance with the local current wiring regulations and standards
- Any broken or damaged parts should be replaced as soon as possible

- JCC will not accept responsibility for claims arising from sub-standard installations; which will void the warranty
- Ensure that you have the tools and accessories required to complete the installation correctly
- This luminaire is suitable for indoor use or exterior use, wall or ceiling mounting
- Do not install in areas that are near to continual running water
- Do not carry out insulation tests with the LED module connected to the circuit

## INSTALLATION INSTRUCTIONS

ENGLISH

**Note: This instruction sheet is for installing the LED Bulkhead body and LED module -which are purchased separately- it requires the installer to connect the LED Module's wiring to the terminal block in the Bulkhead body in addition to the mains input wiring**

**Mains supply Input : 220-240V~ 50/60Hz Class 2 with earth provision EM versions Class I**

- Isolate power supply.
- Ensure that the body is installed in the correct orientation if wall mounted as indicated by the "THIS WAY UP" arrow inside the body(see fig.1.)This will ensure that the LED module is suspended correctly below the body when installing.(See fig.6.)
- Mains input cable entry options are in the centre of the body(see fig.2.)or 4 conduit entry point options on the side of the body(see fig.3.), you will need to drill a Ø20mm hole and use the supplied grommet(s) to maintain the IP rating of the fitting. It is recommended to drill this from the back of the body.
- To secure the body to the mounting surface you will also need to drill pilot holes of Ø4-6mm to accommodate the fixing screws. There are two mounting options: 4 x direct to the mounting surface or by using the option for BESA mounting in the centre of the body. The counter sunk molded fixing points are around the outside edge of the interior of the body adjacent to four conduit side entry points (see fig.3.) and in the centre for BESA mounting(see fig.2.)
- Connect the mains input into the terminal block in the body(see fig.4.) Terminal block is loop-in /loop-out to allow for continuous wiring.(Insulation tests can be carried out at this point) then suspend the LED Module from the security strap support(see fig.6.)
- Once insulation tests are complete, connect the wires from the LED module to the corresponding mains wires on the opposite side of the terminal block marked "output to driver"
- For DALI/1-10V versions connect dimming controls to the dimming control input by removing the driver terminal cover and connect to either DA+/DA- for DALI or 1-10V connect to 1-10Vdc +/- then refit driver cover

Wattage	CCT	CRI:Ra	Lumens	LpcW
8W	4000K	84	760	95
8W	3000K	84	760	95
12W	4000K	84	1250	104
12W	3000K	84	1250	104
16W	4000K	84	1600	100
16W	3000K	84	1600	100
24W	4000K	84	2360	98
24W	3000K	84	2360	98

Standard operation mode	Battery charging operation mode (initial charge 24hrs)	Parasitic Power
8W	12W(8W+4W)	0.5W
12W	16W(12W+4W)	0.5W
16W	20W(16W+4W)	0.5W
24W	28W(24W+4W)	0.5W

\* DALI/1-10V version lumen output -1070 Lumens

### MAINS INPUT

**L<sup>1</sup> = Unswitched Live**  
**L = Switched Live**  
 = **Earth(EM versions)**  
**N = Neutral**

### OUTPUT TO LED DRIVER(MODULE)

**L<sup>1</sup> = Unswitched Live**  
**L = Switched Live**  
 = **Earth(EM versions)**  
**N = Neutral**

- For emergency versions, the batteries are enclosed in the inverter and are already connected so do not require commissioning.
- Once you have completed all of the connections, fit LED tray into the body by aligning the 4 slots and press into place until clipped in.
- To fit the diffuser align the 4 captive screws in the diffuser with the holes in the body which have corresponding lugs for alignment(see fig.5.) Ensure that the screws are not over-tightened as this could damage the gasket and effect the IP rating.
- Turn on mains supply and test operation( allow 24hrs for the battery to charge before testing emergency operation)

Fig.1.

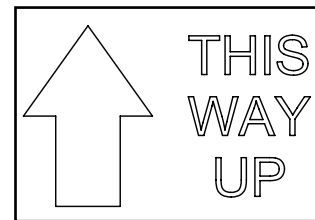
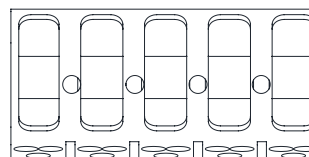


Fig.4.

OUTPUT TO LED DRIVER(MODULE)

L<sup>1</sup> L N



L<sup>1</sup> L N  
 MAINS INPUT

Fig.2.

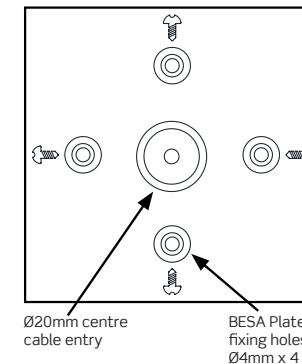


Fig.5.

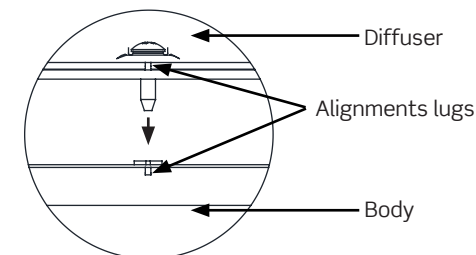


Fig.3.

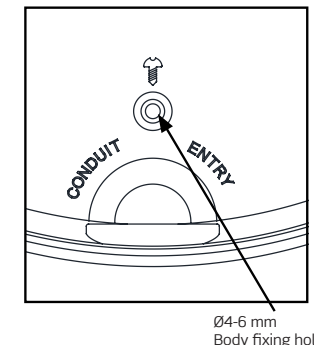


Fig.6.



## Emergency range routine inspection and test

All tests must be undertaken at times of least risk and in accordance with EN 50172:2004 as indicated below:

Weekly: Indicators of central power supply shall be visually inspected for correct operation.

Monthly: (in addition to the daily check) If automatic testing devices are used, the results of the short duration tests shall be recorded. Test shall be carried out as follows:

- a) Switch the luminaire over to emergency mode to operate from the batteries by simulating a failure of supply to the normal lighting for a period sufficient to ensure correct luminaire operation

**NOTE:** The period of simulation failure should be sufficient for the purpose of this clause whilst minimising damage to the system components e.g lamps. During this period, all luminaires and signs shall be checked to ensure that they are present, clean and functioning correctly. At the end of this test period, the supply to the normal lighting should be restored and any indicator lamp or device should be checked to ensure that is showing that the normal supply has been restored.

Annually: If automatic testing devices are used, the results of the short duration tests shall be recorded. For all other systems the monthly inspection shall be carried out and the following additional tests made:

- a) Each luminaire and internally illuminated sign shall be tested monthly as above but for its full duration in accordance with the manufacturer's information.
- b) The normal supply for the luminaire should be restored and any charge indicator lamp or device should be checked to ensure that it shows the normal supply has been restored. The charging arrangements should be checked for proper functioning.
- c) The date of the test and its results shall be recorded in the system logbook.

A copy of this report must accompany any fitting returned to the manufacturer for any reason.

## General Information

Our products are designed to comply with the requirements of UK law and the relevant industry national and international standards and should not be modified in any way. All emergency lighting systems should comply with the recommendations of BS5266-1: Code of Practice for the Emergency Lighting of Premises and be installed by competent engineers in accordance with the relevant wiring regulations. Before installing any type of Emergency Lighting always seek the advice and approval of the local Fire Prevention Officer (or equivalent authority).

## Maintenance

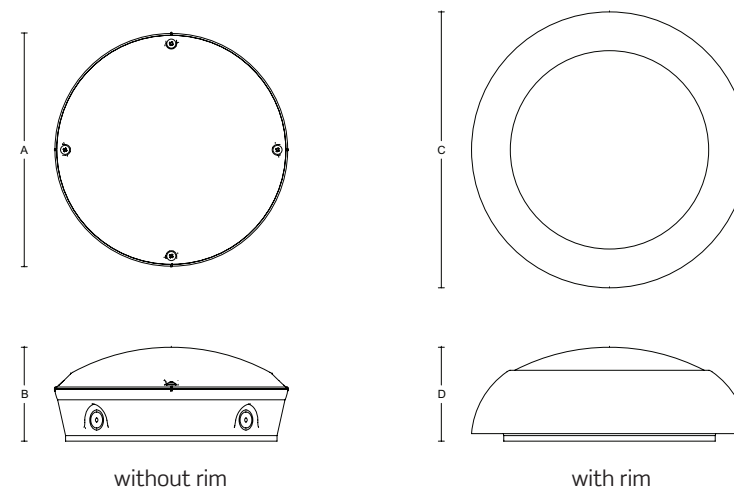
Failed or faulty light sources connected to this equipment should be replaced immediately. These units are designed especially for a long and trouble free life. Under normal conditions, will require no routine maintenance or service beyond the inspection and test regime of BS5266-1.

Both mains supply and battery protection fusing is incorporated internally. Should access to these or any other part of the circuitry be required this must be undertaken only by suitably qualified person. Special care must be taken when removing the cover to circuitry and battery. Only replacement components authorised by the company must be used. Disposal of replaced components should be in accordance with the component manufacturers instructions.

You can help protect the environment. Please remember to respect the local regulations: hand in the non-working electrical equipment to an appropriate waste disposal centre.

The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection service.

## Profile & Dimensions



Wattage	A	B	C	D
8W	Ø232.1	93.3	Ø274	93.3
12W/16W/24W	Ø301	98.3	Ø340	98.3

All dimensions in millimetres

## Emergency test record sheet

Month	Test Type	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Sign	Date	Sign	Date	Sign	Date	Sign	Date	Sign	Date
January	Functional										
February	Functional										
March	Functional										
April	Functional										
May	Functional										
June	Functional										
July	Functional										
August	Functional										
September	Functional										
October	Functional										
November	Functional										
December	3 hour										




## Photocell operation and settings

When ambient light level is below the “On” lux level selected, the sensor automatically switches on the luminaire at 100% brightness.

When ambient light level is higher than the “Off” lux level selected, the sensor automatically switches off the luminaire.


When set to disable, the sensor does not work.

On ↑ 		1	2	3	4	On@	Off@
	I	On	On	On	On	5Lux	25Lux
	II	On	On	On	-	10Lux	50Lux
	III	On	On	-	On	25Lux	75Lux
	IV	On	On	-	-	50Lux	100Lux
	V	On	-	On	-	100Lux	200Lux
	VI	On	-	-	-	150Lux	300Lux
	VII	-	On	-	-	200Lux	400Lux
	VIII	-	-	-	-	Disable	


## Microwave on/off operation and settings

### Detection Area

I: Up to 8m  
II: Up to 6m  
III: Up to 4m  
VI: Up to 2m

On ↑ 		1	2	
	I	On	On	100%
	II	On	-	75%
	III	-	On	50%
	IV	-	-	25%


### Hold Time

On ↑ 		3	4	5	
	I	On	On	On	5s
	II	On	On	-	30s
	III	On	-	On	1min
	IV	On	-	-	3min
	V	-	On	On	5min
	VI	-	On	-	10min
	VII	-	-	On	20min
	VIII	-	-	-	30min

Refers to the time period the lamp remains at 100% illumination after no motion detected.

### Daylight Sensor

I: 2lux (darkness operation only)  
II: 10lux (Darkness operation only)  
III: 25lux (twilight operation)  
IV: 50lux (twilight operation only)  
V: Disable\* (darkness operation only)

On ↑ 		6	7	8	
	I	On	On	On	2Lux
	II	On	On	-	10Lux
	III	-	On	-	25Lux
	IV	On	-	-	50Lux
	V	-	-	-	Disable

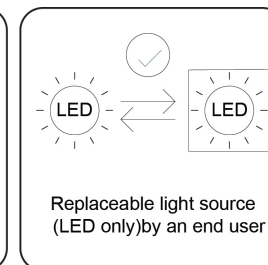
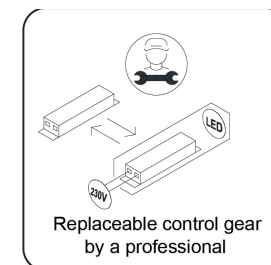
\*When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

## Important warranty information

This product is supported by a 2-year standard warranty which will extend to 5-years if registered within the first year of purchase. (2 year on batteries). Please register at [jcc.co.uk/warranty](http://jcc.co.uk/warranty) (Terms and conditions apply).


The installer will be asked to provide the following information, which is detailed on a label attached to the luminaire's chassis:  
Product Code/Date Code.

Note: Both the body and module must be registered to ensure that the warranty is extended.



## Microwave Dimming operation and settings - 8W/12W/16W /24W


### Detection Area

		<b>1</b>	<b>2</b>	
	I	On	On	100%
	II	-	On	75%
	III	On	-	50%
	IV	-	-	10%

Ø16m x 6m High max


Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

### Hold Time

		<b>3</b>	<b>4</b>	
	I	On	On	5s
	II	-	On	90s
	III	On	-	3min
	IV	-	-	10min


Refers to the time period the lamp remains at 100% illumination after no motion is detected.

### Daylight Sensor

		<b>5</b>	<b>6</b>	
	I	On	On	Disable
	II	-	On	50Lux
	III	On	-	15Lux
	IV	-	-	5Lux

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 50lux: twilight operation, 15lux, 5lux: darkness operation only.

### Corridor function (Stand-by period)

		<b>7</b>	<b>8</b>	
	I	On	On	0s
	II	-	On	30s
	III	On	-	10min
	IV	-	-	+∞

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of any occupancy. When set to "+∞", the low light is maintained until motion is detected -Step Dim Function. When set to "0s", the light will turn off after hold time.

### Stand-by DIM Level

This is pre-set at 20% and not adjustable