

# LED Bulkhead Round Installation Instructions



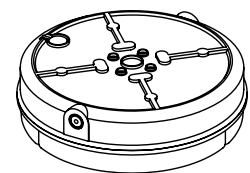
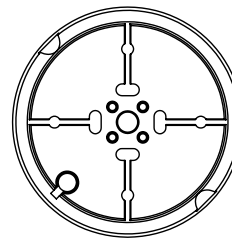
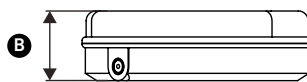
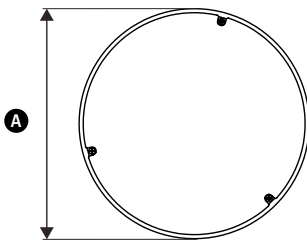
**Please read these instructions carefully before installation**  
Leave a copy for the user/maintenance engineer for future reference

## Important Safety Information

- It is recommended that this fitting is installed, inspected and maintained by a qualified Electrician.
- Installation should be carried out in accordance with the latest edition of the IET Wiring Regulations (BS 7671) and the latest Building Regulations. If in doubt, consult a qualified electrician.
- This product is designed for connection to a 220-240V~50/60Hz mains supply.
- Before commencing any installation or maintenance work, ensure electricity is disconnected / isolated.
- Ensure that all electrical connections are tight with no loose strands including factory made connections.
- This luminaire is suitable for indoor and outdoor use.
- Please note the IP rating of this luminaire when deciding the location for installation.
- This product is non-dimmable.
- This luminaire is suitable for use in ambient area temperatures of -10°C to +40°C (Standard Luminaire)  
0°C to +40°C (Emergency Luminaire)
- The luminaire body and diffuser are made from Polycarbonate material. Always ensure that the product is suitable for the intended installation area.
- Do not carry out insulation resistance tests with the luminaire connected to the circuit.
- MCBs may require to be uprated to allow for increased inrush current.
- This product contains a light source of energy efficiency class F.
- The Light Source and Control Gear contained in this luminaire shall only be replaced by the manufacturer or his service agent or similar qualified professional person.

## LED Bulkhead Range / Round

Part No.	Option	Electrical Classification
LXBHR14LEDNW/WO	Standard	Class II <input type="checkbox"/>
LXBHR14LEDNW/WO/MWS	Microwave Sensor	Class II <input type="checkbox"/>
LXBHR14LEDNW/WO/EM3	Emergency	Class II <input type="checkbox"/>
LXBHR14LEDNW/WO/EM3/MWS	Emergency and Microwave Sensor	Class II <input type="checkbox"/>
LXBHR14LEDNW/BO	Standard	Class II <input type="checkbox"/>
LXBHR14LEDNW/BO/MWS	Microwave Sensor	Class II <input type="checkbox"/>
LXBHR14LEDNW/BO/EM3	Emergency	Class II <input type="checkbox"/>
LXBHR14LEDNW/BO/EM3/MWS	Emergency and Microwave Sensor	Class II <input type="checkbox"/>

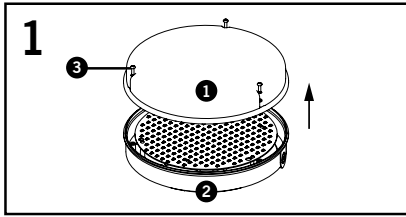


## Technical Specifications

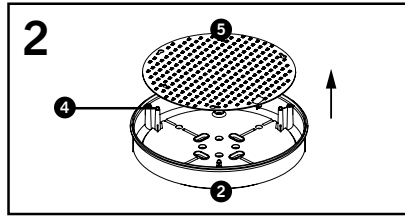
Part No.	Description	Microwave Sensor	Emergency EM3	Power (W)	Measurement (AxBmm)	Lumen Output	IP Rating	Power Factor	CRI Ra	Colour Temperature
LXBHR14LEDNW/WO	Round Bulkhead White/Opal	No	No	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/WO/MWS	Round Bulkhead White/Opal	Yes	No	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/WO/EM3	Round Bulkhead White/Opal	No	Yes	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/WO/EM3/MWS	Round Bulkhead White/Opal	Yes	Yes	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/BO	Round Bulkhead Black/Opal	No	No	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/BO/MWS	Round Bulkhead Black/Opal	Yes	No	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/BO/EM3	Round Bulkhead Black/Opal	No	Yes	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K
LXBHR14LEDNW/BO/EM3/MWS	Round Bulkhead Black/Opal	Yes	Yes	14	282 x 85	1200 Lm	IP65	> 0.50	> 80	4000K

# Important Installation Information

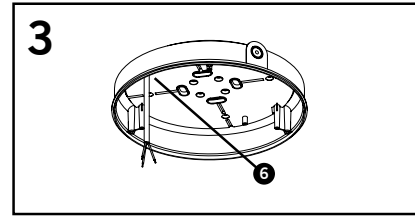
Select a suitable mounting position and use the correct fixings for the type of surface. Ensure that there is adequate free air ventilation around the luminaire at all times. Do not install this product onto damp or newly plastered walls or ceilings. Isolate the mains power supply before commencing installation.



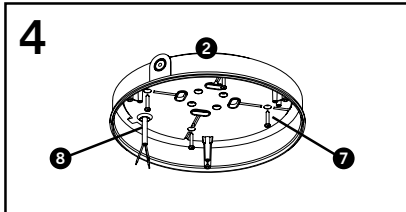
Remove the front diffuser **1** from the base **2** by removing the three diffuser fixing screws **3** and pulling away from the base tray.



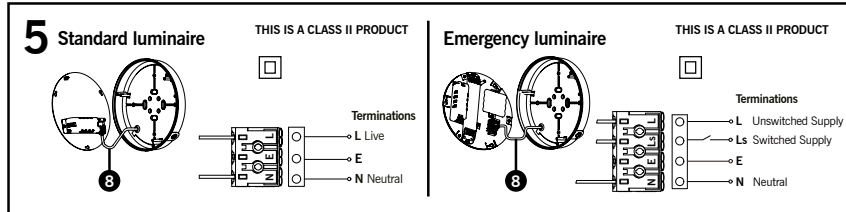
Loosen but do not remove the gear tray retaining screws **4**. Adjust the position of the gear tray to align the hole in the keyhole slots with the retaining screws. Remove the gear tray **5** from the base **2**.



Select a suitable cable entry point provided **6** or drill out a hole in the base.

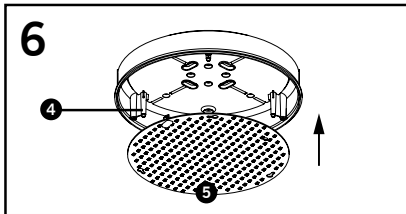


Position and fix the base **2** to a suitable solid surface using the screws provided **7**. Feed the supply cable **8** into the luminaire through a previously selected hole ensuring that the aperture is smooth or use a grommet where possible.

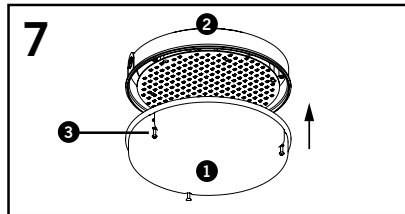


Terminate the supply cable **8** into the terminal block mounted on the underside of the gear tray ensuring that the correct polarity is observed. All conductors must be fully sleeved and insulated.

For Emergency luminaires – Ensure that the luminaire has a continuous live supply to **L** (Unswitched live). The "Maintained" emergency luminaire can be "switched" via connection **Ls** (Switched Supply). Ensure battery cells cable is connected



Dress any cables away from the edges of the luminaire and re-align the gear tray **5**. Refit the gear tray using the retaining screws **4**.



Re-fit the front diffuser **1** to the base **2** using the three diffuser fixing screws **3**. Restore the mains power supply, switch on and test for satisfactory operation.

## Microwave Sensor Settings

Detection range - Up to 8m when wall mounted at 2m height. 5m in any direction when ceiling mounted at 2.5-5m height when set to 100% sensitivity.

For luminaires with a microwave sensor option, adjust the sensor to the desired settings using the DIP switches as follows:

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

- i) Range up to 100%
- ii) Range up to 75%
- iii) Range up to 50%
- iv) Range up to 10%

	1	2	
i)	●	●	100%
ii)	●	○	75%
iii)	○	●	50%
iv)	○	○	10%

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

- i) 5 seconds
- ii) 90 seconds
- iii) 5 minutes
- iv) 15 minutes

	3	4	
i)	●	●	5s
ii)	●	○	90s
iii)	○	●	5min
iv)	○	○	15min

**Daylight Sensor:** The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The light will always turn on when movement is detected if the daylight sensor is disabled.

- i) Disable
- ii) 50 lux darkness operation only
- iii) 10 lux twilight operation only
- iv) 2 lux twilight operation only

	5	6	
i)	●	●	Disable
ii)	●	○	50Lux
iii)	○	●	10Lux
iv)	○	○	2Lux

## Emergency Luminaire Connection and Testing

1. The Emergency luminaire requires an unswitched live supply L in addition to the switched live supply Ls.
2. Ensure that the battery cells supply cable is connected to the Emergency module before mains power is restored.
3. Once installed, the batteries must be charged for a minimum of 24 hours before carrying out a full discharge and commissioning test to check that they are charging correctly and that the maintained 3-hour discharge duration is being achieved. The date should be noted on the battery.
4. The Green LED Indicates that the batteries are charging.
5. Emergency luminaires should be routinely inspected and tested in accordance with current **BS 5266** guidelines. Refer to **BS 5266 & BS EN 50172** for full Emergency Lighting requirements and testing procedures
6. A log report must be completed and kept for the periodic test procedure. A copy of the Emergency test record sheet is included with this product. Further copies can be requested at sales@luxna.co.uk
7. A completed copy of the Emergency test record sheet must accompany any product returned to the manufacturer.

**Batteries:** The battery inside an emergency product is a consumable replaceable item. The battery has a normal operating designed service life of 4 years and must be replaced in a timely manner to ensure that the integrity of the emergency lighting system is maintained. The batteries actual service life can be shortened by several variable factors including (but not limited to): Type of installation environment, Room temperature, Number of charge/discharge cycles, power supply interruptions etc. The product should be tested and maintained regularly according to the details within the instruction manual. Should the battery fail to provide the minimum rated discharge duration of 3 hours at any time during the products service life, it must be replaced.

**Emergency luminaires must not be installed in areas where the ambient area temperature is above or below the recommended operating temperature range 0°C to +40°C**

**Warranty:** This product is protected by guarantee in the UK and EU for a period of 5 years warranty from the date of purchase against any defects in materials or workmanship. Should this product fail during the warranty period it will be repaired or replaced with the same or equivalent product free of charge, subject to providing the original receipt/invoice or proof of the original date of purchase and return of the faulty unit. If in our sole discretion, we are unable to repair or replace a defective product, we will refund the purchase price of the product. The warranty is invalid if in our judgment the product fails due to incorrect installation not conforming to our product instructions or installation within an improper working environment. The warranty will not apply if the product fails due to damage in storage, shipment, accident or misuse. Modification to the product in any way or removal of the batch number will void the warranty. Luxna Lighting does not accept responsibility for any installation, labour or travel costs which may be associated with the replacement or return of any faulty products. Our maximum liability under the terms of this warranty is limited to the purchase price of the product. Your statutory rights are not affected. Luxna Lighting reserves the right to alter product specifications without prior notification. Terms and conditions are also subject to change without prior notice.