

## INSTALLATION & SAFETY INSTRUCTIONS



MODEL: BHMWEM14

These instructions are for guidance only  
Read these instructions fully before using the fitting.  
Retain these instructions for future reference.

**LIGHT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN**

### General safety instructions

- Ensure mains power is disconnected & switched off when installing the fitting.
- Never look directly into the LED light source. The light emitted can contain the colour blue.
- To clean: Ensure that the fitting is disconnected from the mains and cannot be unintentionally reconnected.
- Place only upon level and stable surfaces.
- Do not use in areas in which there is a danger of explosion.
- Do not use near flammable materials.
- Do not place in water or other liquids.
- Never operate with wet hands.
- Never cover the equipment.
- Never operate when the casing is open, or when the wiring casing is missing or damaged, or when the protective screen is defective.
- Never spray this unit, and never attempt to clean it with a steam pressure cleaner as this can damage the insulation and seals.
- Never attempt to repair this unit yourself. Repairs should only be carried out by a qualified electrician.
- If the supply cable is damaged, stop using the unit immediately & consult a qualified electrician.
- If diffuser is broken, stop using the unit immediately & consult a qualified electrician.

### Manufacturer

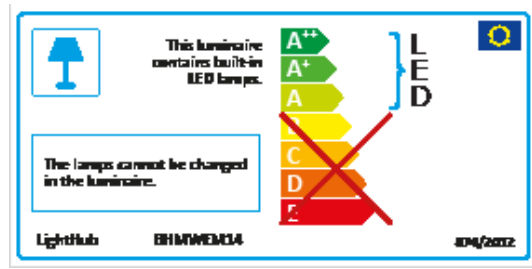
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Please contact us if you any  
questions or queries regarding the  
product

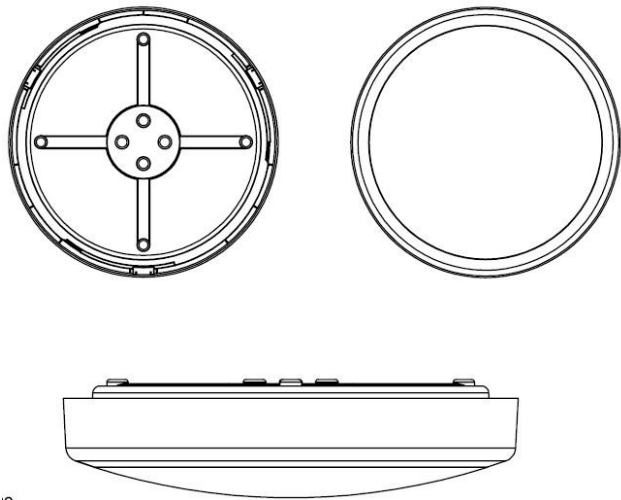


|                 |                   |
|-----------------|-------------------|
|                 | BHMWEM14          |
| Wattage         | 14W               |
| Lumens          | 1000 lm           |
| LED Life        | 40,000 hrs        |
| LED Colour Temp | 4000K             |
| Voltage         | 220-240V AC       |
| Operating Temp  | -20°C to +40°C    |
| CRI             | >80               |
| IP Rating       | IP54              |
| Dimmable        | No                |
| LED Beam Angle  | 120°              |
| H x W x D       | 320 x 320 x 120mm |
| Guarantee       | 3 Years           |
| Class           | II                |



## Recommendations

- Installation should be carried out in accordance with the latest IEE (BS7671) Regulations & the latest Buildings Regulations. Please consult a qualified electrician.
- Guidance on the installation of Emergency lighting in the UK is available from the BSI, regulation: BS 5266-1:2016.
- Please ensure the mains supply is switched OFF before installing and working on this fitting.
- This unit is Class II rated and earth is not required.
- To maintain the IP rating of the unit, a suitable gland should be used for the cable entry and/or fire retardant silicon sealant should be used to effectively seal the hole.
- Not suitable for use with dimmers.
- The fitting is suitable for use in ambient temperatures of -20 to +40 degrees C. If the fitting is installed in locations where the temperature may vary beyond these temperatures or reach these limits for prolonged periods, the battery life may be shortened and should be tested more regularly.
- High voltage insulation test equipment must not be used on this fitting and may cause irreparable damage.
- It is recommended that 100mm of air space is left around the unit.
- This unit has no replaceable parts.
- The battery must be charged for 24 hours before the fitting can be commissioned.

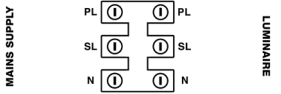


## Installation Instructions

1. Ensure the electrical supply is switched OFF before working on this fitting.
2. Remove the diffuser from the base by turning anti-clockwise and pulling away from the base.
3. 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,
5. Select a suitable cable entry point provided or by drilling into the base.
6. Position and fix the base to suitable solid surface using the fixings provided.
7. Feed the supply cable into the luminaire through the cable entry hole, using the provided grommet to retain the IP rating of the fitting. If you have cut your own hole, a suitable grommet should be fitted and the hole should be sealed using fire retardant silicon sealant.
8. Secure the supply cable using the cable clamp in the base of the fitting.
9. **Non-Maintained Operation:** The fitting only illuminates in the event of a power failure. Supplied from a Permanent Live only. In the event of a power failure, the fitting fails over to the battery pack.

Permanent Live (PL) - Brown

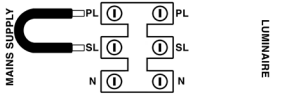
Neutral (N) - Blue



10. **Maintained Operation:** The fitting functions as a normal light and is switched or permanently on. To use as a normal switched light, connect a Permanent Live feed and the switch to Switched Live terminal. For an unswitched circuit, connect the Permanent Live and insert the supplied loop between Permanent & Switched Live. In the event of a power failure, the fitting fails over to the battery pack.

Permanent Live (PL) - Brown & Insert a Loop to Switched Live (SL).

Neutral (N) - Blue



11. Connect the 4 PIN connector from the battery to the battery charging unit.
12. Refit the gear tray by aligning the holes in the keyhole slots with the retaining screws on the base. Adjust the gear tray so the retaining screws now are aligned with the slots of the keyhole slots. Retighten the retaining screws.
13. Re-fit the diffuser by placing over the base and turning anti-clockwise until it locks into position.
14. Switch on the power supply and check the battery charging LED indicator is illuminated.
15. When first installed, allow for 24 hours minimum to obtain full battery charge.
16. After the charging period, disconnect the mains supply to ensure that the fitting illuminates in emergency mode for at least 3 hours.


### WARNING:

This luminaire **MUST** be disconnected before it is installed, subjected to any high voltage or subjected to insulation resistance testing. Otherwise irreparable damage will occur to luminaire components.

Microwave Sensor DIP Settings

Set the settings for the Microwave sensor using the DIP switches mounted on the sensor:

- Detection Area - Adjusts the range of the sensor between 4-6m.
- On Time - How long the light will stay on for once activated. Use the 5s setting during setup.
- Daylight Settings - Darkness level at which sensor becomes active.

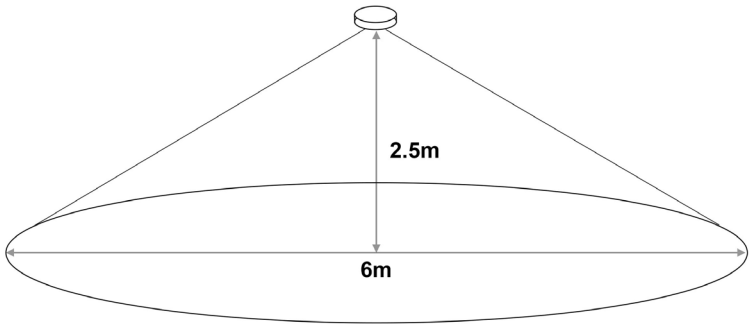


| DETECTION AREA |    |    |      | ON TIME |    |    |        | DAYLIGHT SETTINGS |    |    |          |
|----------------|----|----|------|---------|----|----|--------|-------------------|----|----|----------|
| 1              | 2  | 3  |      | 4       | 5  | 6  |        | 7                 | 8  | 9  |          |
| ON             | ON | ON | 100% | ON      | ON | ON | 5 s    | ON                | ON | ON | 2 lux    |
| -              | ON | ON | 75%  | -       | ON | ON | 30 s   | ON                | ON | -  | 10 lux   |
| ON             | -  | ON | 50%  | ON      | -  | ON | 90 s   | -                 | ON | -  | 25 lux   |
| -              | -  | ON | 25%  | -       | -  | ON | 3 min  | ON                | -  | -  | 50 lux   |
| -              | -  | -  | 10%  | ON      | ON | -  | 20 min | -                 | -  | -  | Disabled |
|                |    |    |      | -       | -  | -  | 30 min |                   |    |    |          |

Installation Position Considerations

The fitting should be suitably positioned so that the detection range is correct for the occupied area of the space to be illuminated. The following diagram shows the detection area of the sensor when installed at around 2.5m high. The diameter of the detection area at ground level is about 6m. The diameter of the detection area will decrease if the fitting is mounted lower than 2.5m.

- Avoid placing fitting near heating or ventillation ducts.
- Avoid shiny or metallic surfaces opposite the sensor where possible.
- Avoid direct sunlight.




Cleaning

Before cleaning the fitting, disconnect the power cable and allow the fitting to cool down sufficiently. Clean with a dry or slightly moist, clean, lint-free cloth and a mild detergent if required. Do not use cleaners that contain abrasives or solvents.

Maintenance

- Check power cable and housing of the fitting for damage before use. If the diffuser is damaged, unit must be replaced immediately.
- Clean any dirt from the housing or the diffuser immediately, it could potentially cause overheating.



Correct Disposal of this product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Testing Instructions

- Emergency light fittings must be inspected and tested regulay in accordance with local codes of practice. For safety reasons, tests should be carried out during daylight hours.
  - The mininium recommended test schedule is as follows:  
After installation, allow minimum 24 hours to ensure full battery charge. Then interrupt the supply and check after 3 hours that the fitting is still illuminated.
1. Daily check that the charge indicator LED is working
  2. Every month, interrupt mains for a short period and check that fitting lights
  3. Six-monthly, check 1 hour duration
  4. At the end of year 3 and subsequently every year, check 3 hour duration: batteries must be replaced when they can no longer support 3 hour duration.
  5. Complete the record sheet on installation and retain in a maintenance file
  6. Update the file with ongoing test records for inspection by a fire officer or other duly authorised person.

INSTALLATION & MAINTENANCE RECORD

INSTALLER:

LOCATION:

TYPE:

INSTALLATION TEST DURATION DATE:

| Month | Test  | 1st Year |      | 2nd Year |      | 3rd Year |      | 4th Year |      | 5th Year |      |
|-------|-------|----------|------|----------|------|----------|------|----------|------|----------|------|
|       |       | signed   | date | signed   | date | signed   | date | signed   | date | signed   | date |
| 1     | short |          |      |          |      |          |      |          |      |          |      |
| 2     | short |          |      |          |      |          |      |          |      |          |      |
| 3     | short |          |      |          |      |          |      |          |      |          |      |
| 4     | short |          |      |          |      |          |      |          |      |          |      |
| 5     | short |          |      |          |      |          |      |          |      |          |      |
| 6     | short |          |      |          |      |          |      |          |      |          |      |
| 7     | short |          |      |          |      |          |      |          |      |          |      |
| 8     | short |          |      |          |      |          |      |          |      |          |      |
| 9     | short |          |      |          |      |          |      |          |      |          |      |
| 10    | short |          |      |          |      |          |      |          |      |          |      |
| 11    | 1hr   |          |      |          |      |          |      | ██       | ██   | ██       | ██   |
| 12    | 3hr   | ██       | ██   | ██       | ██   | ██       | ██   |          |      |          |      |