

**EMERGENCY LIGHTING TESTING**

Months 1 to 11 inclusive – Function Test, interrupt the permanent/UnSwitched supply and check the luminaire operates in Emergency mode at reduced output

Month 12 (Annual) – As months 1 to 11 but for a full 3hr duration

Luminaire Ref / Location: .....	In Case of difficulty, contact the Installation Engineers:- Tel: .....	
LHBCx11Exx/LHBCx22EXX	Duration 3hr	Lamp Type - LED

**INITIAL USE AND ROUTINE TESTING**

From initial install the downlight will require up to 24hr for the batteries to be fully charged and provide the rated 3hr duration in Emergency mode. Then following subsequent Emergency use, from full discharge will take approx. 14hr to fully recharge batteries.

It is important that the luminaire is routinely tested to ensure the batteries are conditioned and also to fully comply with BS5266. A function test should be conducted every month with an annual test of the full 3hr duration. Records can be kept on the adjacent table.

It is recommended that batteries are replaced every 4 years to ensure the optimum charging cycle is maintained.

Month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Function										
2	Function										
3	Function										
4	Function										
5	Function										
6	Function										
7	Function										
8	Function										
9	Function										
10	Function										
11	Function										
Annual	Full Test										

**LED INDUSTRIAL CERES HIGHBAY**



**NOTE** – To comply with regulations, installation must be carried out by suitably qualified competent person and in accordance with the current IEE Wiring Regulations (BS7671) and Building Regulations. A copy of the instructions must be left for the user/maintenance engineer for future reference.

**For non-UK, please refer/consult local requirements**  
**ENSURE ELECTRICAL SUPPLY IS DISCONNECTED/ ISOLATED BEFORE COMMENCING INSTALLATION**

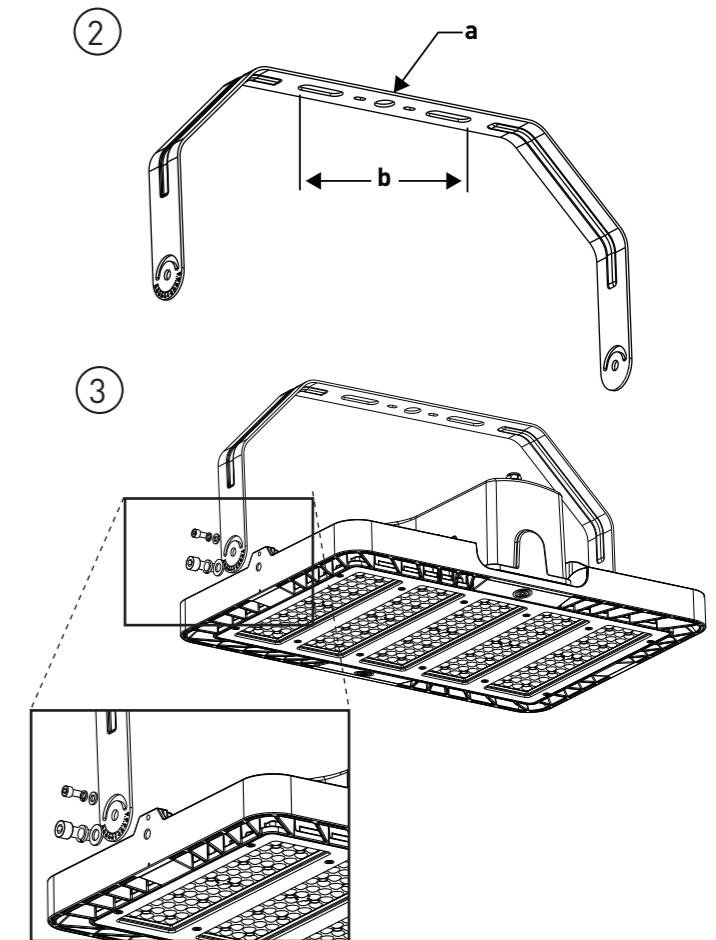


**ASSEMBLY AND INSTALLATION**

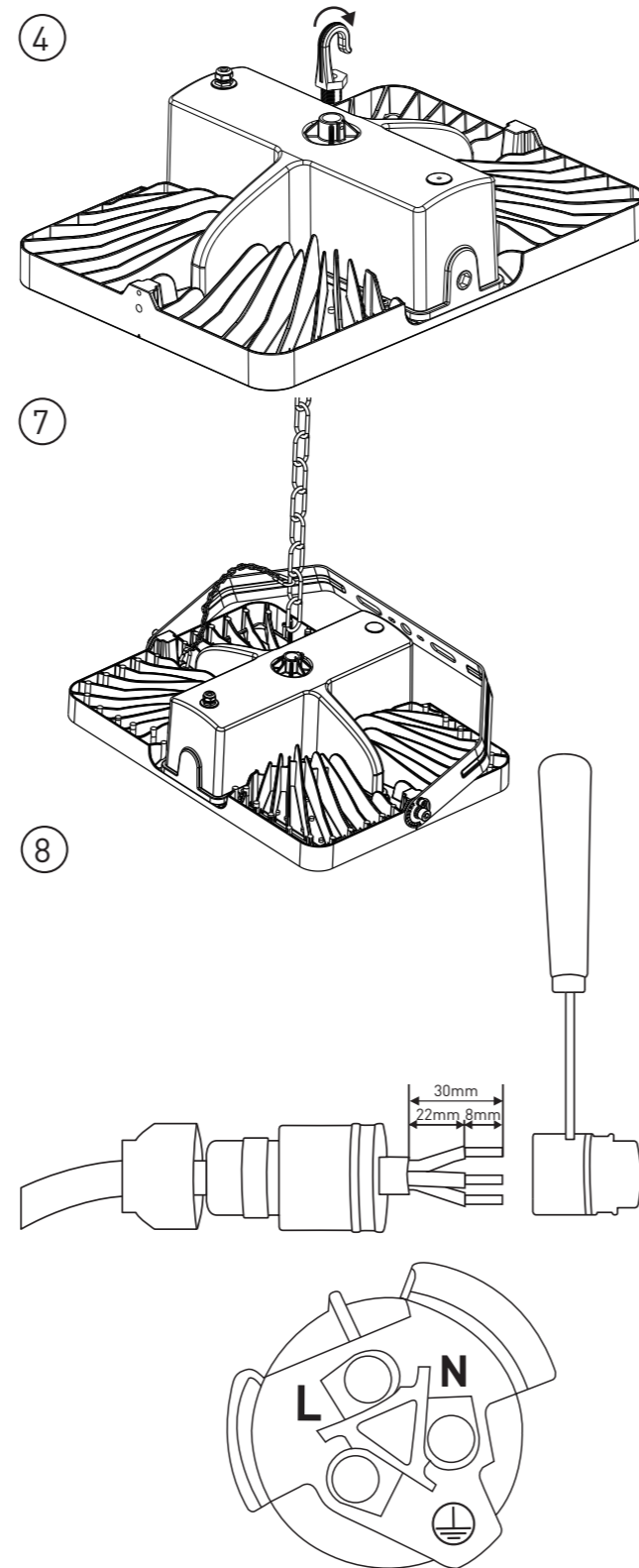
- Suitable for use with mains voltage 110-240V AC
- This product is pre-wired, with no user serviceable components. Opening the luminaire may void the IP65 rating and warranty

**SUGGESTED METHOD OF INSTALLATION**

1. Identify a suitable location for installation.
2. Trunking:- This can be mounted using the central 20mm hole **(a)**  
  
For surface installation:- Use suitable fixing through fixing points **(b)**
3. The main housing is assembled to the bracket as shown. Larger bolt and washers are used for main fixings. Smaller bolt and washers are used for tilt adjustment slot



4. For chain suspension:-Install the central suspension hook by rotating clockwise into central hole on rear of product
5. Mount the hook onto chain or wire as required. Use the locking screw to secure the chain/wire in the hook
6. Ensure all fixings are secure
7. An optional safety chain is also provided, should the primary fixing method fail. This chain is to be fixed to the luminaire at the point shown, with the other end of the chain free for fixing at a suitable point, determined by the installer



**ELECTRICAL CONNECTION**

**8. Fixed output versions:-**

- Connect pre-wired cable to power supply, observing correct polarity  
Live – Brown  
Neutral – Blue  
Earth – Green/Yellow

**9. For Dimmable versions:-**

- This product is supplied with 2 pre-wired cables with IP65 connectors, suitable for H05RN-F cable, 1-2.5mm<sup>2</sup>, connect supplied connectors as marked
- Input power – 3 core connection for Live, Neutral and Earth
- Dimming control – 2 core connection for DALI L – L, DALI N – N
- Connect power as shown, ensuring terminals are secure and seals are correct

**10. Turn on power and operate as required**

**For Sensor version:-**

- For commissioning and installation, refer to sensor instructions supplied

**TECHNICAL INFORMATION**

Range	Code	L70 Life	Rated Voltage	Power	PF	Weight	Emergency Duration	Luminaire Lumens
Ceres Standard	LHBC11Sxx	50,000hrs	110-240V AC	100W	>0.9	9.8kg	N/A	11,000
	LHBC11Exx	50,000hrs	220-240V AC	100W	>0.9	10.4kg	3HR	11,000
	LHBC22Sxx	50,000hrs	110-240V AC	200W	>0.9	12.5kg	N/A	22,000
	LHBC22Exx	50,000hrs	220-240V AC	200W	>0.9	13.1kg	3HR	22,000
Ceres Extra	LHBCX9Sxx	70,000hrs	220-240V AC	64W	>0.9	9.2kg	N/A	8,800
	LHBCX9Dxx	70,000hrs	220-240V AC	64W	>0.9	9.8kg	N/A	8,800
	LHBCX11Dxx	70,000hrs	220-240V AC	80W	>0.9	9.8kg	N/A	11,000
	LHBCX11Exx	70,000hrs	220-240V AC	80W	>0.9	10.4kg	3HR	11,000
	LHBCX16Dxx	70,000hrs	220-240V AC	115W	>0.9	9.8kg	N/A	16,000
	LHBCX22Dxx	70,000hrs	220-240V AC	160W	>0.9	13.3kg	N/A	22,000
	LHBCX22Exx	70,000hrs	220-240V AC	160W	>0.9	13.1kg	3HR	22,000
Ceres Ultra	LHBCX27Dxx	70,000hrs	220-240V AC	195W	>0.9	12.5kg	N/A	27,000
	LHBCU11Sxx	100,000hrs	220-240V AC	80W	>0.9	9.8kg	N/A	11,000
	LHBCU16Sxx	100,000hrs	220-240V AC	115W	>0.9	12.5kg	N/A	16,000

**United Kingdom Warranty**

For other territories and for further information, please see [www.luceco.com](http://www.luceco.com) for details

Products are protected by guarantee for a period of 5 year warranty, from date of purchase against defects in material and workmanship (unless otherwise stated). Should a product fail to perform as described within the warranty period it will be repaired or replaced with the same or equivalent product by Luceco, free of charge provided that you: (1) return the product to us with shipping charge prepaid, (2) provide us with proof of the original date of purchase and (3) quote our return authorization number. Repaired or replaced products will be returned to you with shipping charges prepaid. Replacement products may be refurbished or contain refurbished materials. If in our sole discretion, we are unable to repair or replace a defective product, we will refund the purchase price of the product.

This warranty will not apply if in our judgment, the product fails due to damage in shipment, handling, storage, accident, abuse or misuse, or if it has been used in a manner not conforming to our product instructions, has been modified in any way, or has any serial number removed or defaced. Repair or attempted repair will void this warranty. Our maximum liability under the terms of this warranty is limited to the purchase price of the product covered by the warranty.

The warranty is given under English Law. If any part of this warranty is deemed unenforceable (including any provision in which we exclude our liability to you) the enforceability of any other parts of the warranty will not be affected. These terms do not reduce your statutory rights.

For Non-UK please contact Local Luceco Office for details. THESE TERMS AND CONDITIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**Eventually, you may want to replace this fitting;**

**Environmental Protection W.E.E.E (Wheellie Bin Symbol for EU ONLY)**

This symbol is known as the "crossed-out" wheellie Bin Symbol. When this symbol is marked on a product or battery, It means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.