

# GREEN BROOK

ELECTRICAL

## Installation & Operating Instructions For Corvus Range Emergency IP65 LED Non-corrosive Luminaires (Maintained or Non-Maintained) Part Nos: ACPLEDS5EM, ACPLEDT5EM, ACPLEDS6EM & ACPLEDT6EM



### IMPORTANT

This product should be installed by a competent person and in accordance with the current IET Wiring Regulations.  
If in doubt, consult a qualified electrician.

### SAFETY INFORMATION

- Please read these instructions carefully before installation and keep safe for future reference.
- Always turn off the supply before commencing work.
- This appliance must be earthed.

### Specification:

Part No	Wattage	Size	Lumens	Length (mm)	Width (mm)	Height (mm)	Clips Qty	Fixing Centres (mm)
ACPLEDS5EM	30W	Single	3300	1532	85	78	12	950
ACPLEDT5EM	2 x 30W	Twin	6600	1532	104	78	12	950
ACPLEDS6EM	40W	Single	4400	1794	85	78	12	1000
ACPLEDT6EM	2 x 40W	Twin	8800	1794	104	78	12	1000

### Operating Conditions:

These Luminaires are suitable for a temperature range of to -20°C to 40°C.

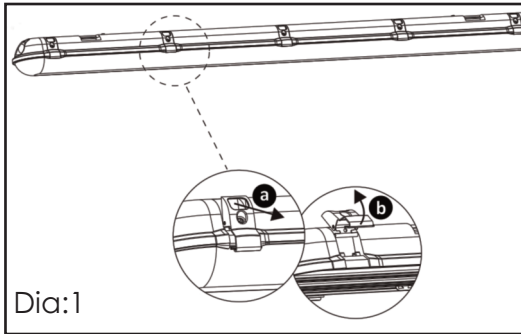
### INSTALLATION & OPERATION

***Do not drill the body for mounting purposes.***

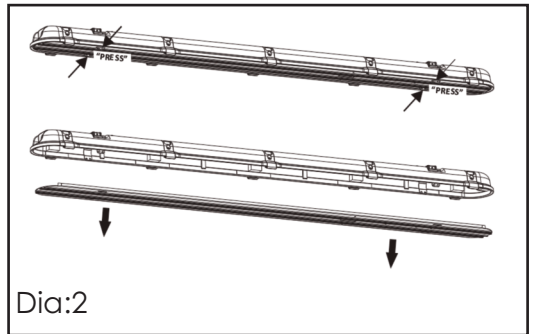
Drilling the body will invalidate the warranty, ONLY use the fixing methods provided. Please ensure that the rated voltage and frequency of the luminaire is compatible with the supply.

***Disconnect the power supply before installation.***

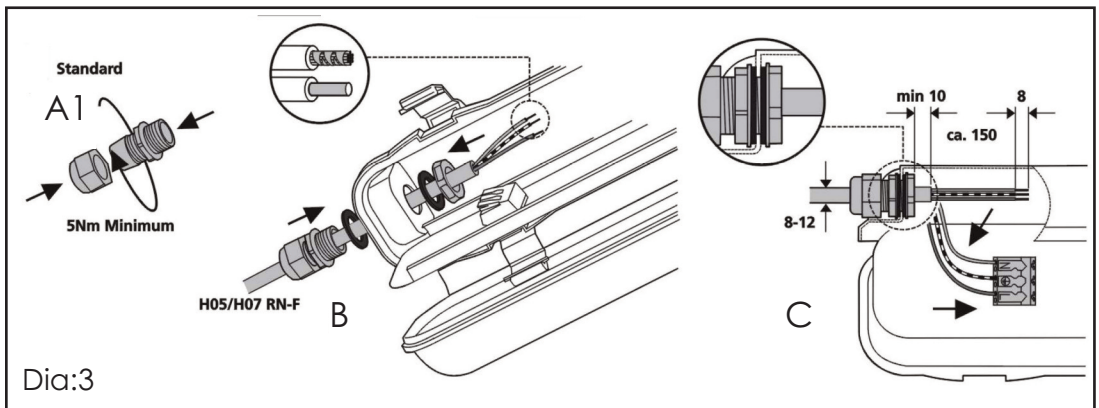
1. Undo clips to remove diffuser. See Dia:1.



2. Press clips to remove gear tray. Take care not to touch the LED lamp. Dia:2.



3. Insert the installation cable, through the gland. See Dia:3 Connect the cable to the terminal block. Pay attention to the correct polarity. Use H05RN-F 3G1mm<sup>2</sup> wire.



**Connect the supply to the terminals as below: -**

Class I: This product must be earthed.

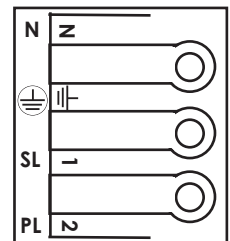
Terminal (SL): This is the switched live supply and can be used to illuminate the lamp either via a separate switched LIVE or by using a link wire between PL and SL for permanent illumination.

Terminal (PL): This is the live supply to the charging circuit and must be permanent and unswitched. Connect this only for non-maintained lights (SL not required).

Terminal (E): This is for the earth and must be connected.

Terminal (N): This is the neutral supply and must be permanent.

Colour code: Brown=Live    Blue=Neutral    Green/Yellow=Earth  
 Conductor Size 1.0mm<sup>2</sup> - 2.5mm<sup>2</sup> Solid or Stranded.  
 Ensure that no strands of bare wire have escaped the terminals.



4.

5.

N  
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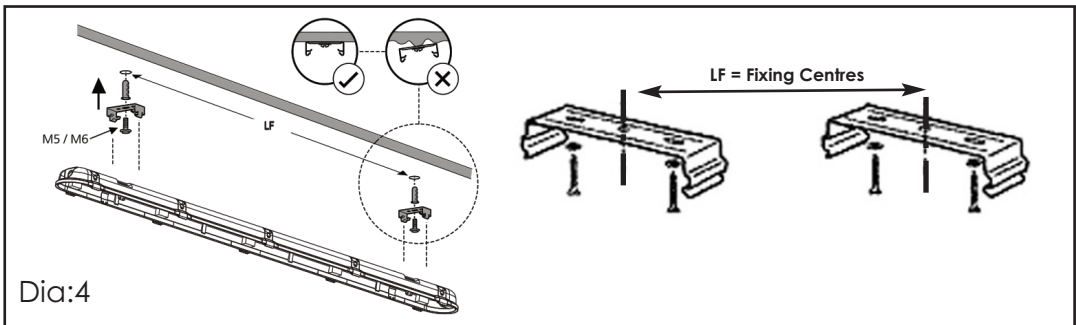
**Please note:** The emergency luminaire contains a battery cell pack which is supplied DISCONNECTED from the main circuit for component protection purposes and for user safety whilst packed, in transit or being installed/inspected.

- Mark the current date on the battery pack.
- Connect the battery pack to the control board.

### WARNING

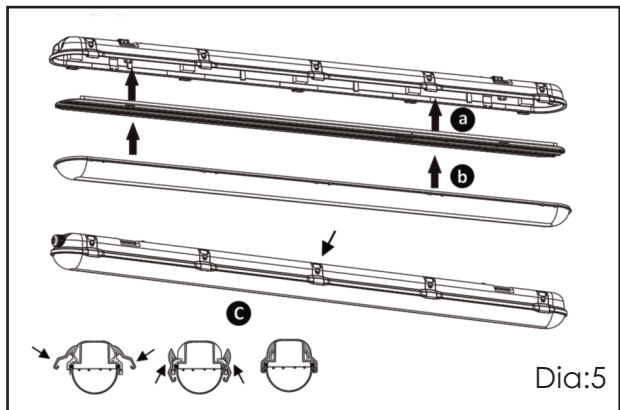
- The battery cell pack must be RECONNECTED before the mains power is switched on.
- Failure to comply with these installation instructions may result in irreparable damage to the main circuit.
- **DO NOT CARRY OUT A 'HIGH-VOLTAGE INSULATION TEST' ON THIS UNIT.**

- The fixing centre points for this luminaire are located on the mounting bracket. Choose a suitable location and fix the mounting brackets, using the wall plugs, screws and washers provided.



If suspended the supplied suspension clips must be used with a suitable cable suspension system, capable of bearing the weight of the luminaire. The luminaire can also be wall mounted.

- Fit the LED tray into the base unit, Put on the diffuser and fix it with the clips. All clips should be used. See Dia:5.



### Note:

- **In case of damages, disconnect the fitting from the power supply. Do NOT try to repair. Consult a qualified electrician.**
- **Do NOT look at directly at the LED light.**
- **If the diffuser gets broken please change it as soon as possible, Never use the fitting without a cover.**
- **These diagrams are for illustration only, and may vary slightly from actual product.**

## COMMISSIONING & TESTING

- Switch on the mains supply and check to ensure that the green LED battery charging indicator is illuminated.
- Allow a brief time for initial partial charging and then isolate the permanent live supply. Check to ensure the lamp is then illuminated from the battery cell pack supply, replace fuse.
- After a further 60 hours on a continuous charge, and only at a safe and appropriate time, mains failure should be simulated to ensure that full duration rating is achieved. Thereafter the re-charge time is 24 hours.

## MAINTENANCE

- Servicing should only be carried out after the luminaire has been made electrically safe.
- Cleaning should be carried out at regular intervals to ensure that dirt does not accumulate to an extent that will impair the electrical and / or thermal safety of the luminaire. Regular cleaning will also ensure that the optical performance is maintained.
- Battery packs should be replaced when the luminaire fails to meet its rated duration.
- The disposal of components from the luminaire may require consultation with local authorities. The disposal of batteries is subject to Local Authority Regulations, and the By-Laws Department for disposal of toxic waste should be consulted for specific guidance. Battery cell packs must not be incinerated.
- Do not dispose with household waste, subject to conditions in the WEEE directive.

## ROUTINE INSPECTION & TEST PROCEDURE

All tests should be undertaken during daylight hours at times of minimum risk and be in accordance with the recommendations of BS 5266 Part 1.

**DAILY** - Check that the green LED battery charging indicator is illuminated and every lamp in a maintained system is functioning correctly.

**MONTHLY** - In addition to the daily check, a functional test through simulation of mains supply failure should be carried out to confirm lamp is illuminated from the battery cell pack supply. This test need only be for approximately 30 seconds. It should not exceed one quarter of the rated luminaire duration.

**SIX MONTHLY** - In addition to the monthly test, the lamp should be illuminated from the battery cell pack supply for a continuous period of at least one hour.

**THREE YEARS** - In addition to the monthly tests the lamp should be illuminated from the battery cell pack supply for the full rated duration of the luminaire(three hours).

**ANNUALLY THEREAFTER** - As above, i.e, check that the luminaire operates for the full rated duration.

At the end of each test period the mains supply should be restored and a check made to ensure the green LED battery charging indicator is illuminated.

Battery cell packs should be replaced once the rated duration can no longer be met.

## EMERGENCY RECESSED LIGHT TEST RECORD SHEET

LUMINAIRE TYPE/REF: \_\_\_\_\_

DATE OF INSTALLATION: \_\_\_\_\_

LOCATION: \_\_\_\_\_

### 1st Year 2nd Year 3rd Year 4th Year 5th Year

Month	Test	Signed Date	Signed Date	Signed Date	Signed Date	Signed Date
<b>1</b>	FUNCTIONAL					
<b>2</b>	FUNCTIONAL					
<b>3</b>	FUNCTIONAL					
<b>4</b>	FUNCTIONAL					
<b>5</b>	FUNCTIONAL					
<b>6</b>	FUNCTIONAL					
<b>7</b>	FUNCTIONAL					
<b>8</b>	FUNCTIONAL					
<b>9</b>	FUNCTIONAL					
<b>10</b>	FUNCTIONAL					
<b>11</b>	FUNCTIONAL					
<b>12</b>	THREE HOUR					
	FUNCTIONAL					

## TECHNICAL INFORMATION

Rated voltage:	220 - 240V AC ~ 50Hz
IP Rating:	IP65
Classification:	Class 1
Construction:	Polycarbonate Grey body & clear frosted diffuser
Temperature Range:	-20°C to 40°C
SDCM:	<6
Ballast Type:	LED Driver
Battery Type:	Ni-Cd 6V, 2Ah
Charge Time:	At least 24 Hrs
Emergency Duration:	More than 3 hours
Conforms To:	BS EN60598-1, BS EN60598-2-1 & IEC 60598-2-22

\*Standard Deviation Colour Matching

### NOTE: Product & Packaging Disposal

*When disposing of this item and its packaging please follow local regulations and use an appropriate waste disposal centre. See GreenBrook website for further details.*

#### GUARANTEE

Your GreenBrook ACP Emergency Luminaire is guaranteed for 3 years from the date of purchase. This is in addition to your statutory rights.

*Please keep these instructions for future reference.*

**INSTALLER** - Please pass instruction manual onto the owner of the unit.



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