

EMERGENCY LUMINAIRE 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
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	Functional										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	Three Hour										
	Functional										

TECHNICAL INFORMATION

Power Rating:	230V/240V AC - 50Hz
Colour Temp:	6500K
Power Consumption:	Maintained 5.4W
Lamp type:	LED Non-replaceable
Lumen Output	Battery 590 lm (Emergency mode)
Battery Life at 20°C:	> 4 years
Class Type:	1
Operating Temp Range:	0°C - 40°C
Emergency Light Response Time (S):	1 second
Battery Type:	Ni-Cd 3.6V / 6000mAh
Battery Operating Temp Range:	0°C - 45°C
Charge Time:	24 hours
Knockouts:	20mm
Product Weight:	1630g
Conforms To:	BS EN60598-2-22

GUARANTEE
Your GreenBrook IP65 Twin Spot is guaranteed for 3 years from the date of purchase.
This is in addition to your statutory rights.

PLEASE KEEP THESE INSTRUCTIONS SAFE FOR FUTURE REFERENCE

EMC



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GREEN BROOK ELECTRICAL

Installation & Operating Instructions for 'Phoenix' Range IP65 Twin Spot - ELTSLED65NM

SAFETY

This unit should be fitted by a qualified electrician in accordance with the appropriate national/IET wiring regulations. Switch off mains supply before installation and maintenance.

This product must not be modified. Any modification will negate any Safety Mark Approvals and may render the product unsafe. GreenBrook accepts no responsibility for modified products. This product must be installed in accordance with these instructions. This fitting should not be installed in close proximity to any external source of heat or covered with any heat insulating material, air flow around the fitting should not be restricted. Note any minimum distances to adjacent surfaces. This unit should be connected to the lighting supply circuit, or fused at a maximum of 5A.

GENERAL DESCRIPTION

This unit is a non-maintained (NM suffix), self-contained emergency luminaire. To confirm model type, check the data provided on the fitting and packaging.

ELTSLED65NM Non-maintained: Incorporates two 54 LED lamps which are illuminated only under mains failure conditions, with self test function.

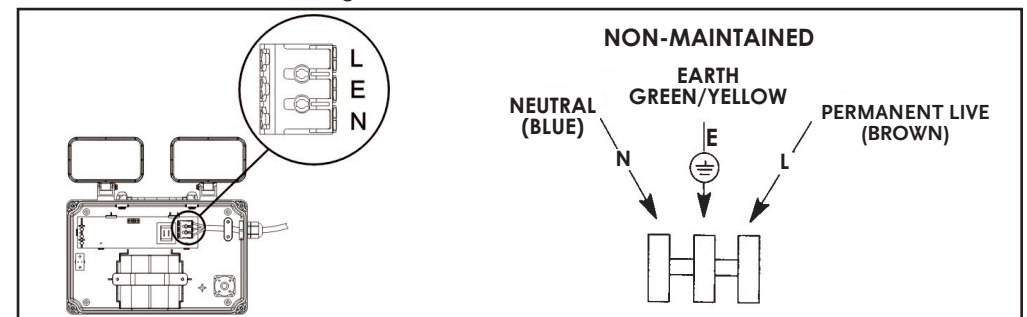
INSTALLATION INSTRUCTIONS

Follow these instructions carefully to ensure safe and reliable operation. Retain this leaflet for future reference. The emergency luminaire should be connected to a stable and permanent mains supply of the correct rated voltage and frequency as stated on the product specification label. This may be from the lighting supply circuit, or fused at a maximum of 5A. To facilitate testing a fused spur box can be included in the unswitched permanent live supply.

Class I. This product must be earthed.

All switching etc, shall comply with BS 5266 Part 1. Unless specifically permitted, emergency luminaires should not be connected or controlled by any energy management device. Before commencing installation, ensure that the electricity supply is disconnected. Surge suppressors may be required at the point of connection to the supply wiring when installing luminaires to MICC cable.

- Undo the four cover retaining screws and remove the front cover.
- Select and remove a knock out corresponding with the conduit and / or cable run and secure a suitable bush within the hole to prevent damage to the incoming cable.
- Mount the case in position on a suitable surface ensuring an adequate airflow will be maintained around it, or secure to wall using the four hole dimensions on the back case.



4. Bring the cable into position and make the correct electrical connections as follows:

Note: The ELTSLED65NM uses screwless terminals.

Class I. This product must be earthed.

Terminal (L): This is the live supply to the charging circuit and must be permanent and unswitched.

Terminal (\equiv 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 Space Size 1.0mm² - 2.5mm² Solid or Stranded.
Ensure that no strands of bare wire have escaped the terminals.

5. Mark the battery cell pack with the date of installation and connect the battery.
6. Refit the front cover, taking care to ensure that no wires are trapped and that all fastenings are secure.
7. To adjust the position of the lamp heads, loosen the axis screws before positioning so as not to cause excess strain on the lamp fixings.

WARNING

The battery cell pack must be *CONNECTED* before the mains is switched on. Failure to comply with these installation instructions may result in irreparable damage to the main circuit.

DO NOT HIGH-VOLTAGE INSULATION TEST THIS UNIT, OR THE LIGHTING SYSTEM WITH THIS UNIT CONNECTED.

Please note once unit is installed the battery should be kept charged, failure to do so will reduce the battery life.

When unit is commissioned the battery label should be dated with the commissioning date and record sheet completed for the first test. Failure to do this may invalidate the warranty.

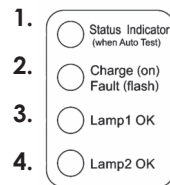
COMMISSIONING & TESTING

Switch on the mains supply, check that 'Charge ON', 'Lamp 1' and 'Lamp 2' green LED indicators are lit.

Allow a brief time for initial partial charging and then isolate the permanent live supply by removing the fuse from the fused spur box. Check to ensure the lamps are illuminated from the battery cell pack supply. 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 recharge time is 24 hours.

Function of LED Indicators

1. Auto test indicator
2. Failure/charging indication
3. Lamphead 1 indicator
4. Lamphead 2 indicator



Audible Alarm

- **Battery failure:** One repeated beep
- **Illumination Failure:** Repeated two beep cycle
- **Auto test failure:** Repeated three beep cycle

Auto Fault Monitoring

When connected to the mains supply and a system fault is detected, the audible alarm will sound continuously for the first 10 minutes and the failure/charging indicator will flash. After 10 minutes the alarm will beep once every minute for the next hour. After the first hour it will beep every twenty minutes upto twenty four hours. After this the alarm will cease and the fault indicator will flash only.

Auto-test Switch

- **Manual Test:** Press the button on the PCB for 3 seconds, the emergency light will come on for 5 minutes to check illumination.

Auto-test Switch

- **Manual Test:** Press the button on the PCB for 3 seconds, the emergency light will come on for 5 minutes to check illumination.
- **Auto Test:** Press the button for 1 second, this initiates the 'Auto Test' sequence. The emergency light will light automatically once every 90 days for test duration of 1 hour. If the fitting fails to light for 1 hour the audible alarm will give a three beep sequence as mentioned in the audible alarm section above. If the 1 hour test is satisfactory the fitting will return to normal operation.

MAINTENANCE

Servicing should only be carried out after the luminaire has been made electrically safe.

Lamps should be replaced at set intervals for maximum system integrity, use only lamps of the correct type and rating and follow the lamp manufacturers instructions.

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, regardless all batteries must be replaced after 4 years service.

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 three green LED battery charging / lamp failure indicators are illuminated.

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

SIX - MONTHLY - In addition to the monthly test, the lamps 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 lamps should be illuminated from the battery cell pack supply for the full rated duration of the luminaire. (180 minutes).

ANNUALLY THEREAFTER - As above, i.e, Check that the luminaire operates for the full rated duration (180 minutes).

At the end of each test period the mains supply should be restored and a check made to ensure that all three green LED battery charging/lamp failure indicators are illuminated.