

# TEST RECORD SHEET

Luminaire location:

Installer:

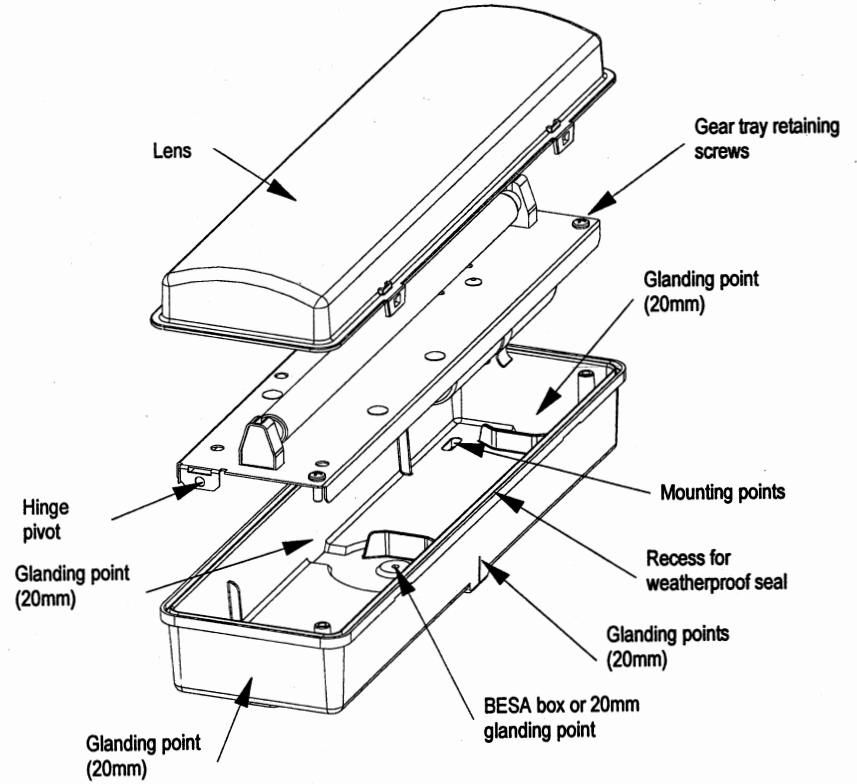
Engineer:

Date:

Product Type:		Mode:		Duration:		Full re-charge time:		Lamp Size:	
Month	Test	YEAR 1		YEAR 2		YEAR 3		YEAR 5	
		Signature	Date	Signature	Date	Signature	Date	Signature	Date
1	Functional								
2	Functional								
3	Functional								
4	Functional								
5	Functional								
6	Functional								
7	Functional								
8	Functional								
9	Functional								
10	Functional								
11	Functional								
12	1 Hour duration								
	3 Hour duration								

# SELF CONTAINED 8 WATT FLUORESCENT EMERGENCY LUMINAIRE

Installation and operating instructions

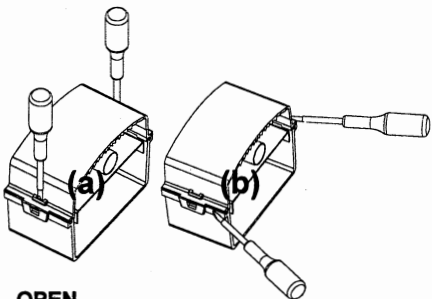


This publication is issued to provide outline information only and is not deemed to form part of any offer or contract. Our policy is one of continued improvement and we reserve the right to vary details without prior notice.

## INSTALLATION

The installation of this product must be done in conjunction with this leaflet and should only be carried out by a qualified electrician. Before installation ensure the electrical supply is isolated.

- 1. REMOVE LENS** - gently lever off in four positions using method (a) or (b) and lift off lens. Store in a scratch free environment.



- 2. OPEN GEAR TRAY** - Unscrew two retaining screws and hinge open. If required, the assembly can be removed by gently bowing the housing end walls to release the hinge pivot from the aperture tray. See figure 1 below.

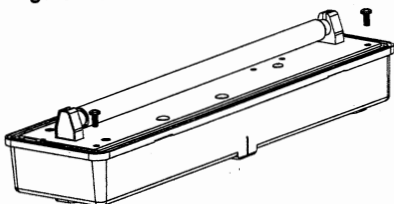
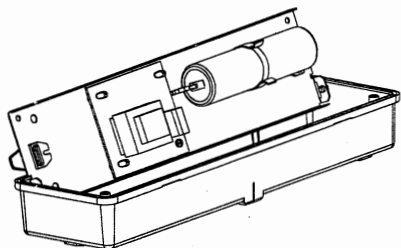


Figure 1 - Gear tray assembly (NM version shown & no wiring shown for clarity)



wiring shown for clarity)

- 3. FIX HOUSING** - onto wall or ceiling either directly or via a conduit box, orientated so that the unit monitoring LED will be visible. Re-fit the gear tray if removed.

- 4. ISOLATE THE AC SUPPLY AND CONNECT UNIT** - An un-switched AC supply input must be used for the emergency Non-Maintained circuit.

**MAINTAINED UNIT ONLY** - Continuous illumination, provided by the maintained circuit, can be switched on and off. Wire in supply as shown in the wiring diagrams, figure 2.  
NOTE : - Earth connection must be made to terminal block as marked.

- 5. MARK BATTERY** - with installation / commissioning date.

- 6. CONNECT BATTERY** - lead to terminal marked 'BATT' on the PCB.  
**NOTE LUMINAIRE IS NOW LIVE.**

- 7. CLOSE GEAR TRAY ASSEMBLY** - Refit gear tray retaining screws.  
**DO NOT OVER TIGHTEN**

- 8. REPLACE THE LENS** - Push firmly onto base ensuring all four snap action latches lock into position.

- 9. CHECK OPERATION** - Restore AC supply. Check that the monitoring LED is illuminated. Leave for approximately 30 seconds and then isolate supply. The lamp should illuminate or stay illuminated for a few seconds depending on form of operation and battery status.

- 10. RESTORE THE AC SUPPLY** - Check the monitoring LED is illuminated.

**CAUTION – DO NOT MEGGER after installation.**

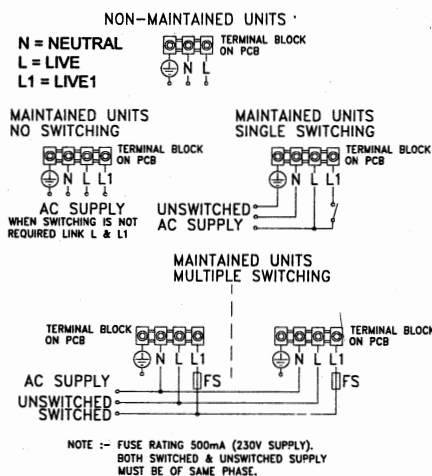


Figure 2

## OPERATION

Two alternative modes are available

**NON-MAINTAINED** - Lamp normally off and battery on automatic charge when AC supply healthy. Solid state circuit automatically switches on lamp when AC supply is interrupted.  
**MAINTAINED** - Emergency lamp normally on, fed from alternative supply which can be switched if required, and battery on automatic charge. Lamp will remain on if AC supply is interrupted.  
**MONITORING** - LED indicator normally continuously lit. LED Indicator goes out if AC supply or charge fails.

**BATTERY** - Replaceable sealed rechargeable battery pack. Nominal design voltage 1.2V/cell. Replacement battery part number as shown on battery label.

**INPUT** - AC supply as marked. Terminal block rated for 6mm<sup>2</sup> conductors.

**PROTECTION** - Input and battery protection provided via fusible links.

**ENVIRONMENT** - Ambient temperature rating 0-25 °C. Suitable for indoor use. Please consult the supplier if equipment is to be installed where room temperature regularly exceeds 25 °C (77 °F), or when relative humidity normally exceeds 50 % or in environments with unusually high chemical contamination.

## FAULT FINDING

**CORRECTIVE ACTION IF TEST IS NOT SATISFACTORY :-**

**INDICATOR LED NOT ILLUMINATED -**

(I) AC supply interrupted and should be restored.  
(II) Unit track fuse blown and should be replaced with an axial fuse. (Fuse value is marked on the printed circuit board.)

(III) Battery not connected. Check connection.

**UNIT NOT MEETING REQUIRED EMERGENCY DURATION PERIOD -**

(I) Possibly operating outside units temperature limits.

(II) May need cycling, discharge-recharge for 24 hours. Re-test, if emergency duration has improved, repeat.

(III) Battery pack may need replacing. Re-order, quoting battery reference number marked on pack label.

**LAMP NOT FULLY ILLUMINATED ( in mains failure )** - If tube ends blackened replace tube.

**NO LIGHT OUTPUT AT ALL ( in mains failure )** - Ensure supply is disconnected before disturbing wiring and visually check wiring connections, correcting as necessary.

## TESTING & TESTING

### TESTING -

Once the luminaire has been installed a twenty-four hour charge cycle should be carried out. After this period the LED indicator should be checked to ensure the batteries are on charge.

A short discharge test should be carried out to check correct performance of the luminaire by isolating the un-switched supply. After restoration of the supply the luminaire should be checked again to confirm the LED indicator is illuminated.

### COMMISSIONING -

The following procedure is designed to ensure the continued protection of your premises and occupants.

Because of the possibility of a failure of the normal lighting supply occurring shortly after a capacity self-test of the emergency luminaire or during the subsequent recharge period, all tests should wherever possible be undertaken at time of minimum risk. Therefore it is important that the emergency luminaires are commissioned alternately or in groups that minimise the risks as outlined above. After any test or restoration of the supply check that the LED is illuminated.

A test regime conforming to that of the requirements of the current BS5266 should then be implemented. In summary the recommendations are :-

- Daily test - visual inspection of the indicator LED shows healthy.
- Monthly test - An operational test of 30 seconds by simulating normal supply failure to confirm correct functioning of the luminaire.
- Twice a year - An operational test of one third of the rated duration.
- After 3 years - An operational test of the fully rated duration.
- Every subsequent year - Repeat the 3 year test.

On completion of commissioning, the drawings of the emergency lighting installation should be retained on the premises and maintained as necessary.

It is also a requirement that a copy of the luminaires operational status and description of the performance be retained in the site log book.

### RATED LUMEN OUTPUT

The total output of the emergency lights operating in the emergency mode will be as below. Figures quoted are minima measured at the end of duration, however, normal component tolerances means that these values may be adjusted by +/- 20%.  
**CAUTION** - The values are provided only to check correct luminaire operation. Determination of escape route lighting levels can only be achieved utilising full photometric data. Please consult the supplier.

FITTING TYPE	TOTAL LIGHT OUTPUT ( @ 3 hour values )
NM (2 cell)	90 Lumens (BLF 0.22)
M (2 cell)	80 Lumens (BLF 0.22)