



Phoenix Lighting

PLO70V1

## Installation Guide

AB8/3/E/M3

Self-contained Emergency Luminaire  
Maintained Operation

### EMC guidelines

THIS EQUIPMENT GENERATES AND USES RADIO FREQUENCY ENERGY, AND IF NOT INSTALLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES, MAY CAUSE, OR BE AFFECTED BY, INTERFERENCE. DESPITE THIS, INTERFERENCE MAY STILL OCCUR IN A PARTICULAR INSTALLATION, IF THIS IS THE CASE, THEN THE INSTALLER MAY TAKE SEVERAL MEASURES TO CORRECT THE PROBLEM;

- INCREASE THE PHYSICAL SEPERATION BETWEEN THE TWO PIECES OF EQUIPMENT THAT ARE INTERACTING.
- RE-ORIENTATE THE TWO PIECES OF EQUIPMENT, OR THEIR EXTERNAL WIRING
- ENSURE ANY EXTERNAL WIRING IS WELL SEGREGATED.
- ENSURE THEY DO NOT SHARE THE SAME POWER SUPPLY.

### Specifications

Model	AB8/3/E/M3
IP Rating	IP65
Battery Voltage	2.4 Vdc Nom
Duration	3 hours
Battery Format	1 x 2 cells (4.4AH Nickel-Cadmium)
Lamp	8W 12" T5
Ballast Lumen Factor	0.25
Rated lumen Output	80 lumens
Rated Supply Voltage	230-240 V~ 50/60 Hz
Supply current	70 mA rms (CosΦ=0.7) [Maintained operation]
Charging current	0.17-0.3 A
Discharge current	1.15 A Nominal
Ambient temperature range	0 - 25°C
Max continuous cell temp for 4 year battery life.	(Based on the ICEL1001 calculation method, the life is more than 8 years) 55°C
Standards	EN60598-2-22:1999, EN55015:1996, EN61547:1996
Dimensions	348mm x 106mm x 76mm
Fixing Centres	Various Fixing Points Available
Weight	1.22Kg

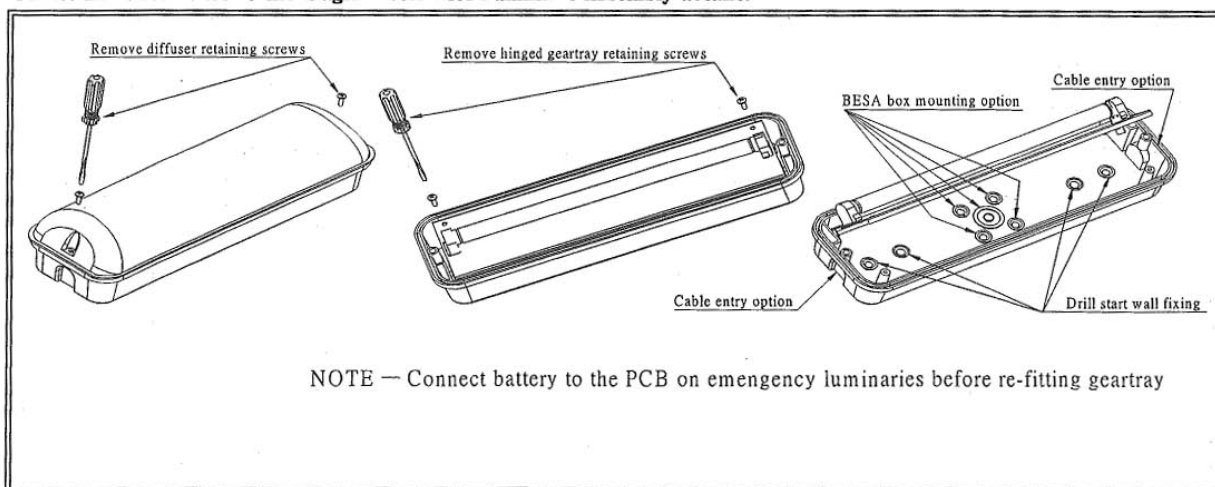
\* For technical assistance, contact:

Phoenix Lighting, 18-20 Grimrod Place, East Gillibrands, Skelmersdale, Lancashire, WN8 9UU

Telephone (01695) 733068 Fax (01695) 50227

**Mounting and wiring** (The luminaire is suitable for both Indoor and Outdoor applications)

Please make reference to the diagram below for Luminaire Assembly details.



The luminaire should be mounted using the fixing holes provided, on a sound flat surface. If the luminaire is to be used in a weatherproof application, Please ensure that all cable entry and fixing points are suitably sealed. Route the incoming cables around the outside of the body well away from the control gear, and make-off the conductors in the gear-tray mounted terminal block.

Connect to the terminals as follows;



Safety earth conductor

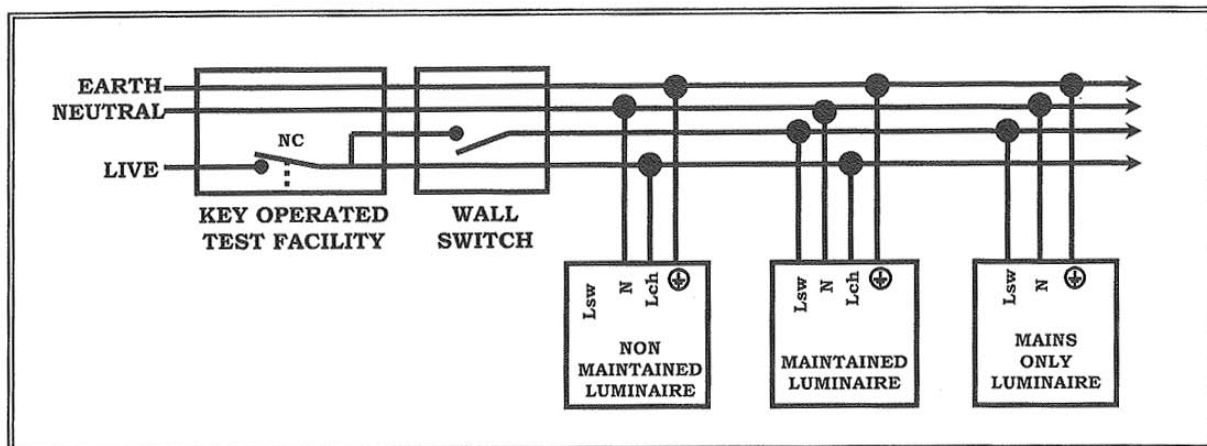
**Lch** Live charge conductor (Permanent Live supply)

**N** Neutral conductor

**Lsw** Live switched conductor (Switched Live supply)

**If Non-maintained operation is required, connect a permanent live supply to the Lch terminal only**  
(See the diagram below for further guidance.)

#### Typical wiring diagram (Mains & Emergency luminaires)



#### Commissioning (Emergency luminaires)

Follow the procedure below to establish that the luminaire is working as it should.

- Connect the batteries to the Printed circuit board using the flying plug and socket.
- The permanent live supply should be switched on, and the LED should light, this indicates the batteries are receiving charge.
- Turn On the normal lighting supply (if a Switched Live supply is present), the lamp should light.
- Leave the luminaire in this state for at least one hour before failing all live supplies. The lamp should light at reduced brightness.
- Restore the mains supply and leave the luminaire to fully charge the batteries, this will normally be complete in at most 24 hours. It is nevertheless advisable, to allow an initial charge of 48 hrs before putting the batteries into service for the first time.

**The date that this is carried out, must be marked in the space provided on the battery label.**

#### Periodic testing (Emergency luminaires) (Consult BS 5266-1:1999 for full details)

The luminaire must be checked periodically for correct operation, and to evaluate the remaining capacity in the battery at regular intervals during its life. Functional testing is facilitated by wiring a key operated "Test facility" (see \* above) in series with permanent live supply to all the emergency luminaires in one area, operating this control fails the supply and places the luminaires wired to it into the emergency mode, so that they can be inspected. (See the Typical wiring Diagram.)

- The LED charge indicator should be checked on a daily basis.
- The luminaire should be fully functionally tested once a month.
- The luminaire should be tested in the emergency mode for at least one third of its rated duration every six months.
- After three years, and annually thereafter, the luminaire should be tested to ensure it achieves its entire rated duration of emergency operation.
- Record the periodic testing of individual luminaires in the table below, and keep all records in a safe place.

**IF THE LUMINAIRE FAILS TO ACHIEVE ITS RATED DURATION, THE BATTERIES MUST BE REPLACED WITH NEW ONES, OF AN IDENTICAL TYPE, SEE THE LABEL ON THE BATTERY FOR THE ORDER REFERENCE.**

LUMINAIRE LOCATION				LUMINAIRE TYPE		INSTALLATION DATE	
MONTH	TEST Func/1hr/3hr	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE
JAN							
FEB							
MAR							
APR							
MAY							
JUN							
JUL							
AUG							
SEP							
OCT							
NOV							
DEC							

