

## Luminaire Installation & Maintenance

Note: Suitable for indoor use

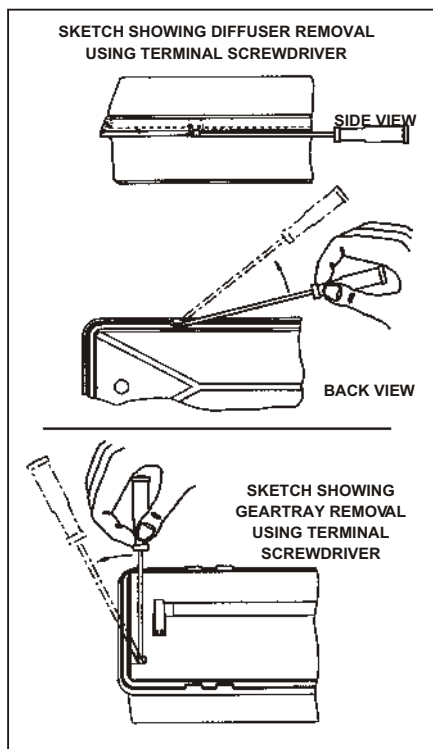
**Do Not Megger** - After installation. In accordance with IEE regulation 713-04-04 and ECA/LIF recommendations disconnect live and neutral wire from unit before insulation resistance check.

### Mounting and Wiring

To remove the diffuser, locate the two release notches on each side, insert a small screwdriver, and lever out to unclip one side, as shown. Then folding the diffuser away from the body the remaining two clips will be released.

To remove the gear tray, insert a small screwdriver into the slot at one end and lever out.

If product needs to meet IP65, use M20 cable glands NLPG251 WHI for 7-10.5mm cable or NLPG252 WHI for 8-13mm cable, use gasket for BESA mounting. Apply a thin layer of silicone grease (RS ORDER number 494-124) to seal and insert into groove. Ensure mounting fixings & glands are waterproof.



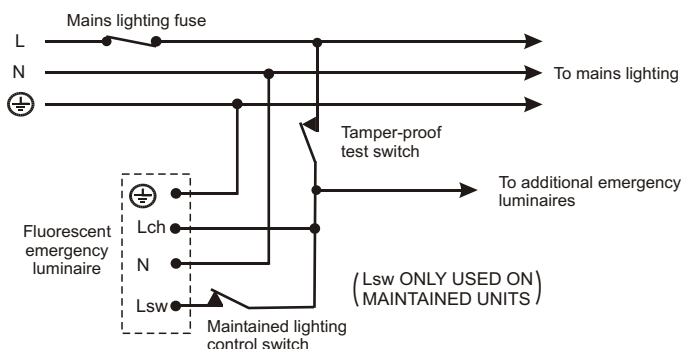
### Wiring connections to the terminal block

External cables must be connected using the cable entry provided.

When routing external cables inside the product they must be:

- kept as short as possible
- routed close to the housing
- kept as far as possible from the electronics

⊕ Earth - this luminaire **must** be earthed.  
 N Neutral  
 Lch 230-240V ~ unswitched live  
 Lsw 230-240V ~ switched live for switched operation



### Testing

The unit should be connected to an unswitched live supply which should be connected to the normal lighting sub-circuit in that location. After a 24-hour charge the LED indication should be checked to ensure that it is illuminated which indicates that the batteries are charging. Check that the lamp illuminates when the switched live is turned ON (maintained versions only). A short discharge should be performed to check that the units are operating correctly. This is carried out by interrupting the unswitched supply at the distribution board or by isolating the appropriate unswitched supply sub-circuit. The supply should then be restored and the LED indication checked. The testing regime as defined in BS 5266 should then be implemented. This is currently monthly as an operational test, twice annually extended tests for a third of the rated duration and after 3 years and subsequently annually a full rated discharge test. If any tests are not performed satisfactorily, they should be repeated after a full 24 hour recharge period. If the unit no longer meets the emergency duration the battery must be replaced. When the luminaire has been correctly installed and tested ensure that this information is passed on to the end-user.

### Date of commissioning

Date to be filled in on space provided on battery label by either installer or commissioning engineer.

### Battery Replacement

Performance of the luminaire is dependant on the use of the correct type of high temperature Nickel Cadmium batteries. Replacement battery part numbers as shown on the product name plate and the battery label. Battery life may be impaired if the luminaire is mounted in an ambient temperature of greater than 25°C. Store luminaire or batteries between 0 and 25°C. Replace with high temperature Nickel Cadmium batteries to manufacturers recommended part number. Connect red lead to + positive, black lead to - negative. Take care not to damage the battery sleeving. The batteries should be replaced when the rated duration is no longer achieved.

### Warning:

When disposing of batteries do not pierce, incinerate or short circuit (failure to comply with this may result in injury). The batteries contain cadmium and should therefore be disposed of in accordance with recognised disposal methods.

### Additional Notes on INSTALLATION FOR ELECTROMAGNETIC COMPATIBILITY (EMC)

The intended use of this product is to supply rated illumination for its specified duration in the event of a failure of the mains supply. During normal mains healthy conditions its batteries are charged and in the case of maintained units, the lamp may be operated from the 'Lsw' mains supply. When used as intended this product complies with EMC Directive (89/336/EEC) and the UK EMC regulations 1992 (SI 2372/1992) by meeting the limits set by the standards BS 5406 Pts 2 + 3 1988, EN50082-1 1992 and EN55015 1993.

Any modifications other than those in this installation leaflet or any other use of the product may cause interference and is the responsibility of the user, who should ensure compliance with the EMC and Low Voltage Directives.

System Mode	Maintained	Non-Maintained
Emergency Duration	3 hours	
Replacement Lamp	COLOUR WHITE F8W/35	
Rated Lumen Output (After Safety Cycling Tests)	60	
Battery	See Battery Label	
Recharge Period	24 hours (or 14 hours for 1 hour duration)	
Charging Current	250mA	
Charging Monitor	LED	
Input Voltage	230/240V 50/60Hz	
Power Consumption	20VA	8VA
Environment	0-25°C / IP65	

For continuous operation link terminals Lch & Lsw. The supply for self contained luminaires should be taken from the unswitched local light source. For maintained operation the supply must be taken from the same unswitched supply.

Month	Test	Signed	1st Year Date	Signed	2nd Year Date	Signed	3rd Year Date	Signed	4th Year Date	Signed	5th Year Date	
1	Operational											<b>EMERGENCY LIGHTING TEST RECORD SHEET</b> Date of Installation..... <b>INSTALLATION ENGINEERS TEST REPORT</b> Led charge indicator lights..... Full charge/Discharge test.....
2	Operational											
3	Operational											
4	Operational											
5	Operational											
6	Extended	1 hr Operation										<b>LUMINAIRE LOCATION</b> ..... Duration : 3 hours..... Luminaire type.....
7	Operational											
8	Operational											
9	Operational											
10	Operational											
11	Operational											<b>INSTALLATION ENGINEERS</b> Telephone..... Replacement lamp..... Replacement Battery.....
12	Extended	3 hr Operation										