

ONCE A DAY - Visual inspection of battery charge LED.

ONCE A MONTH – Luminaires should be put into emergency lighting operation for a period not exceeding one quarter of the rated duration. Each luminaire should be inspected for satisfactory LED starting and stable operation. When the normal mains supply is re-instated, the luminaire battery charge indicator should be on.

ONCE A YEAR - Each unit should be energised from its battery for the full rated duration before completing the regular monthly test. General inspections should check the light sources. All individual LEDs should operate and appear to be similar colour and brightness.

NB: Failure to achieve rated duration after the corresponding recharge period indicates that the batteries have reached the end of their useful life and they should be replaced immediately. Batteries have a typical life expectancy of four to five years. Old batteries should be handled by specialist waste disposal experts, and under no circumstances should they be pierced or incinerated.

Installation Instructions TDF PROJECTOR LED TDF/LED/NM3

LUMINAIRE INSTRUCTIONS AND TEST PROCEDURES

230V ~ 50Hz; Class I; IP20

**Please retain these instructions for future
reference**

INTRODUCTION

Twin Décor Flood Projector LED emergency luminaires are designed to be wall mounted for use indoors. They are available in mains only or 3 hour non-maintained emergency operation.

SPECIFICATION

Supply Voltage: 220 - 240V A.C, 50Hz
Supply Current: <82mA
Nominal Power: 8.3W
Ambient temperature range: 0°C to 25°C
Environmental protection: IP20
Battery: Integral VLRA

TDF Projector LED luminaires use long life white LED's as a non-user replaceable light source, so the light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

INSTALLATION

The TDF LED luminaire must be installed in accordance with current building and wiring regulations by a qualified person, and suitable tests on the completed luminaire must be carried out to ensure compliance to relevant standards.

1. Detach front panel by unscrewing the two end crosshead screws. NB. The central crosshead screw is attached to the Earth cable, and does not need to be removed to detach front panel.
2. Fix main TDF LED luminaire case to mounting surface using screws through the keyhole slots.
3. Wire up the luminaire in accordance with wiring regulations. An unswitched 240V A.C. supply must be connected to the Live (L), Earth (E) and Neutral (N) terminals on the PCB.
4. Connect spade terminals from PCB to battery.
5. Replace front panel and securely reattach crosshead screws.
6. Aim the LED projector heads to illuminate the escape routes.
7. Check operation – restore A.C. supply. On emergency versions check the indicator LED is 'on'. Leave for 30 minutes, remove power and the LED's should illuminate for a few seconds.
8. Restore the A.C. supply and check LED's operate.

NB: At end of life, product must be recycled. Any batteries should be removed and returned to the producer or an accredited recycling centre. Light sources should be removed and sent to a RECOLITE centre. The luminaire enclosure should be sent to a LUMICOM centre. **Do not incinerate or send to land fill.**

OPERATION

The TDF LED luminaire should be connected to the mains supply for a minimum of 24 hours before operating in emergency as the batteries need to be fully charged before they will provide their full rated duration.

EMERGENCY OPERATION

NON-MAINTAINED - The light source is normally 'off' and battery charging (LED 'on') when the A.C. supply is healthy. Solid state circuitry automatically switches the light source on when the A.C. supply is interrupted.

MAINTAINED - The light source is normally 'on' (may be switched using switched supply). The battery is charging (LED 'on'). Light source will switch 'on' or remain 'on' if A.C. supply is interrupted.

MONITORING - Green indicator lamp (LED) normally continuously 'on'. Indicator goes out if A.C. supply or charger fails.

FAULT FINDING AND CORRECTIVE ACTION:

MONITORING LED NOT ILLUMINATED - A.C. supply is unhealthy. Battery not connected. Charger failed.

UNIT NOT MEETING REQUIRED EMERGENCY PERIOD - May need cycling: discharge then recharge for full 24 hours. Retest luminaire. Battery pack may need replacing if emergency duration still not met.

LIGHT SOURCE NOT FULLY ILLUMINATED - If fluorescent tube ends are blackened, replace tube. If individual LEDs are not operating the PCB may be damaged.

TESTING

RECOMMENDED ROUTINE TEST PROCEDURE:

The following test 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 period of testing, all tests should whenever possible, be undertaken at times of least risk, e.g. during daylight hours.