

## TECHNICAL SUPPORT

Telephone: 0161 331 5700  
E-mail: [technical@whitecroftlight.com](mailto:technical@whitecroftlight.com)  
<http://www.whitecroftlighting.com>

**WARNING: TO AVOID INJURY, KEEP FINGERS CLEAR OF SPRINGS WHEN REMOVING LAMP HEAD FROM CEILING**

### Specification – FLE31/32

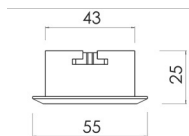
Supply Voltage: 230Vac  $\pm$  10% 50/60 Hz  
Supply Current: 30mA @ 230V ac  
Ambient Temperature: 0°C to +35°C  
Max Case Temp (tc): 65°C  
Conductor size: 0.5 – 1.5mm<sup>2</sup>  
Weight of Control Gear: 250g (incl. battery)  
Weight of Lamphead: 50g  
IP Rating of Luminaire: IP65 optic/front face  
IP20 back of lamphead & control gear  
Average Lumen output: 150lm

### Specification – FLE31/32 CB

Central Supply Voltage: 93-265V dc/ac 50/60Hz  
Central Supply Current: 30mA @ 230V ac  
Central supply o/p current: 350mA  
Ambient Temperature: 0°C to +45°C  
Max Case Temp (tc): 75°C  
Conductor size: 0.5 – 1.5mm<sup>2</sup>  
Weight of Control Gear: 54g  
Weight of lamphead: 50g  
IP Rating of Luminaire: IP65 optic/front face  
IP20 back of lamphead & control gear  
Average output (Lumens) 150 lm

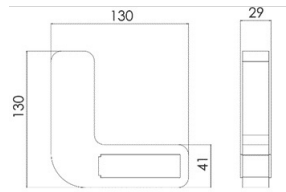
For Photometry refer to  
[www.whitecroftlighting.com](http://www.whitecroftlighting.com)

Lamphead details.

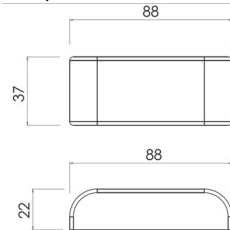


Please note: All images shown are for illustration purposes and should be used only for reference.

FLE31/32 module details.



FLE31/32 CB module details.



### GENERAL INFORMATION

- 1) A qualified electrician, in accordance with IEE wiring regulations, should carry out connection to mains wiring.
- 2) Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
- 3) Cleaning of lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid.
- 4) Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.

### SAFETY INFORMATION

The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.24m is not expected. Batteries have a typical life expectancy of four to five years. Old batteries should be handled by a specialist waste disposal experts, and under no circumstances should they be pierced or incinerated.

Whitecroft  
lighting

## Florin E3 IP65 Installation Leaflet



## Whitecroft Lighting Limited

Burlington Street, Ashton-under-Lyne, Lancashire OL7 0AX  
Telephone +44 (0)161 330 6811 Facsimile: +44 (0)161 331 5855

Registered No. 3848973 England

Registered Office: As above

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## General Description

Florin E3 is a range of stand-alone LED emergency lighting kits incorporating driver and battery pack in a plastic housing. The lamphead assembly, connected via a 270mm wiring loom, contains a high-power white LED and indicator LED for emergency use only.

The LED control gear has reinforced insulation between the supply and the battery circuit, and a battery charger with short circuit protection that will continue to operate when the short is removed.

## Batteries (where applicable)

The luminaire includes a 6.4V 18650 Lithium Iron Phosphate 1.8Ah rechargeable battery pack for 3 hour operation. When the luminaire no longer meets 3 hours duration replace the batteries, observing the battery polarity. **Permanent damage to the control gear will occur if they are reversed.**

## Relevant Standards

EN 61347-2-7	Lamp control gear
EN 61347-2-13	LED control gear
EN 60598-2-22	Luminaire

## IMPORTANT:

Please ensure that the information contained in this leaflet is passed on to the user/maintenance engineer.

Mark the luminaire with the date of commissioning in the space provided on the label.

When the supplies are connected, the mains connector cover should be screwed into place to prevent electric shock. If the cable assembly between the lamphead and the LED control gear is damaged, it shall only be replaced by a replacement cable assembly from Whitecroft Lighting.

The battery is replaceable by a qualified electrician only. The LED is non-replaceable. Contact Whitecroft Lighting in the unlikely event of a failure.

## Operation – integrated battery versions

Upon connection of a permanent mains supply the indicator LED lights green to show the battery is receiving charge. Following an initial charging period of 24 hours the unit will be capable of providing 3 hours emergency duration.

## Operation – central battery

When power is supplied to the Driver Supply inputs, the high-power LED will light.

## Installation

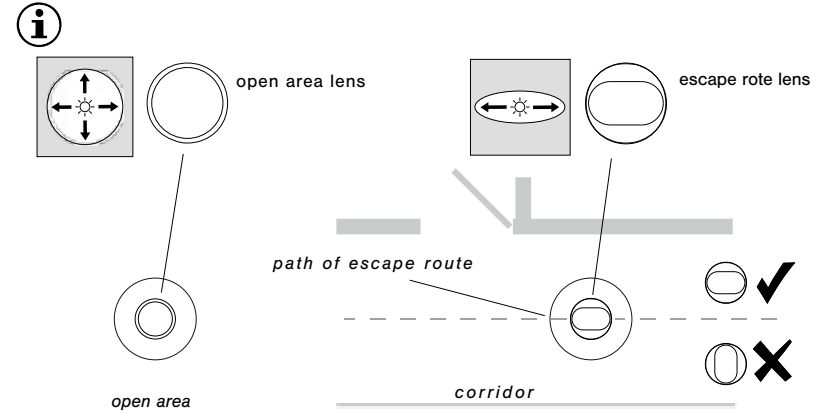
The luminaire must be installed by a qualified person in accordance with the current building and wiring regulations. Luminaires comply with the EMC directive in both modes of operation, mains and emergency.

A Ø45mm hole should be cut in the ceiling prior to installation. This product is suitable for ceiling thicknesses of 10-25mm. Where installing into thin or soft ceiling tiles, an additional pattress may be required to ensure that the lamphead fits securely. This should be a support panel, to be fitted behind the ceiling, cut from suitable sheet material with a hole drilled to match the luminaire installation aperture (by others).

The minimum ceiling void is 100mm based on 10mm ceiling tile.

## To Install

1. Remove the mains supply clamp/cover from the incoming mains connector by undoing the 2 screws.
2. Feed the permanent mains supply cable through the cut-out in the ceiling and connect to the terminal block as follow:  
L - Live  
N - Neutral  
⊕ - Earth (not required for FLE31/32 CB)
3. Replace the cable clamp/cover and tighten the 2 screws.
4. Fill in the commissioning date on the module label.
5. Feed the emergency control gear through the ceiling and fix the lamphead assembly into the ceiling using the 2 springs.



For best photometric performance ensure that the long axis of the escape route lens in line (parallel) with the path of the escape route as shown above.

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