

TECHNICAL SUPPORT

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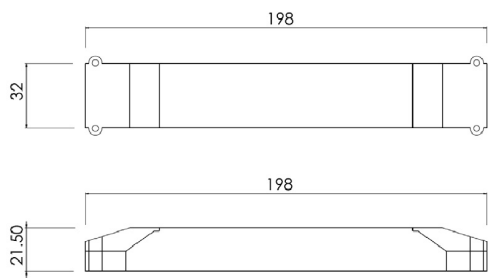
WARNING: TO AVOID INJURY, KEEP FINGERS CLEAR OF SPRINGS WHEN REMOVING LAMP HEAD FROM CEILING

Specification – FLH31/EP

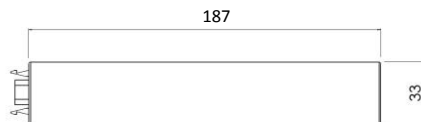
Supply Voltage: 230Vac \pm 10% 50/60 Hz
Supply Current: 35mA @ 230V ac
Ambient Temperature: 0°C to +35°C
Max Case Temp (tc): 60°C
Conductor size: 0.5 – 1.5mm²
Weight of Control Gear: 410g (incl. battery)
Weight of Lamphead: 50g
IP Rating of Luminaire: IP40 optic/front face IP20 back of lamphead & control gear
Average Lumen output: 280lm

For Photometry refer to
www.whitecroflighting.com

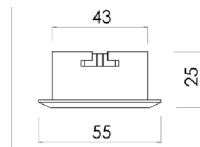
Gear module details.



Battery details.



Lamphead 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.

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

Whitecroft
lighting

Florin E3 High Output COMEPS Installation Leaflet



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Registered No. 3848973 England

Registered Office: As above

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General Description

Florin E3/EP High Output is a stand-alone DALI LED emergency lighting kit incorporating driver and battery pack in separate plastic housings. The lamphead assembly, connected via a 500mm 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 basic insulation between the mains supply and the DALI circuit. Note the battery charger has short circuit protection that will continue to operate when the short is removed.

Batteries (where applicable)

The luminaire includes a 2.2Ah rechargeable LiFePO₄ 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.

The battery lead should only be connected at the time of commissioning.

When the supplies and battery leads are connected, all white covers 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

Upon connection of a permanent mains supply the indicator LED lights 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.

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 patrix 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 175mm based on 10mm ceiling tile.

To Install

- 1.Remove the mains supply clamp/cover from the control gear by undoing the 2 screws.
- 2.Feed the mains supply cable through the cut-out in the ceiling and connect to the control gear terminal block as follows:
L – Un-switched Live
N – Neutral
Lin – Switched Live (required for maintained operation)
Da & Da – DALI bus
- 3.Replace the cable clamp/cover and tighten the 2 screws.
- 4.Connect the battery and fill in the commissioning date on the battery label.
- 5.Feed the emergency control gear through the ceiling and fix the lamphead assembly into the ceiling using the 2 springs.

Automatic Commissioning

Please note there is no need to do a manual test on this product.

If in the unlikely event a manual test needs to be undertaken please ensure it has completed the commissioning phase as per the table below.

Do not connect the batteries until there is a **reliable** permanent mains supply present as a mains interruption will rest the commissioning test clock.

The commissioning test will start when the permanent supply and batteries are connected.

Commissioning phase table

Stage	Hours	Status	LED Indication
1	upto 24	Battery charging	Flashing green
2	3	Discharge test	Flashing green
3	24	Battery charging	Flashing green
4	0	Commissioning complete	Constant green
Total	51		

TEST

COMEPS (DALI) luminaire local bi-colour LED indicator status

Green LED	Permanently on	System OK/mains operation mode
	Slow flash	Duration test/commissioning
	Fast flash	Function test
Red LED	Permanently on	LED luminaire fault
	Slow flash	Battery/test failure
	Fast flash	Battery charging failure

Slow flash – a flash every 2 seconds, Fast flash – a flash every 0.5 second

Note that start times of the tests are set automatically to ensure random testing of the units. As a consequence, tests may occur at any time, and caution should be exercised in situations where this may be inconvenient, such as hotels and hospitals.

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