

10. Lift the driver enclosure to access the terminal blocks.
11. Trim the flex (by others) to the required length ensuring that there is sufficient to make all connections without any strain. Some excess can be taken up within the housing. Feed the flex through the gland in the driver enclosure and make connections to the terminal blocks in the

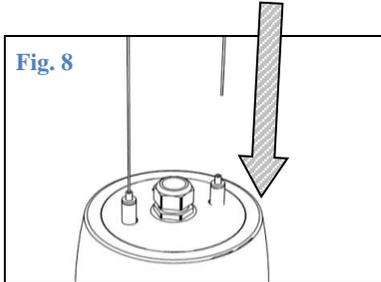


Fig. 8

same manner as in the ceiling housing. Secure the flex in the cable clamp. (fig.9)

WARNING! ONLY CONNECT OUTPUT TERMINAL AND LUMINAIRE TERMINAL BLOCK. NEVER WIRE MAINS DIRECTLY INTO LUMINAIRE!

Please note that the earth fixing on the top surface of the driver enclosure must line up above the terminal block to ensure a correct fit.

12. Refit the driver enclosure and secure simply by tightening the cable gland.
13. To fit the optic, remove the collar by rotating see fig. 10
14. Place the refractor into the shade ring and refit collar. Tighten using the supplied screws to secure the refractor in place (fig. 11)

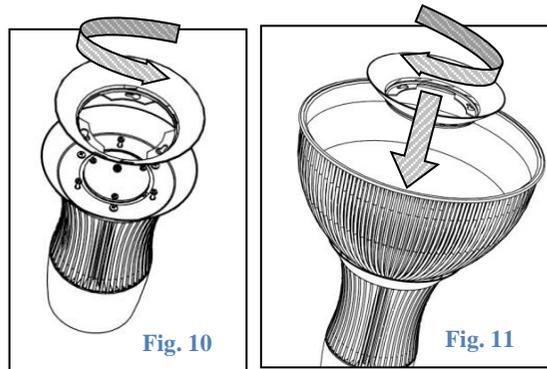


Fig. 10

Fig. 11

TECHNICAL SUPPORT

Tel: 0161 331 5700

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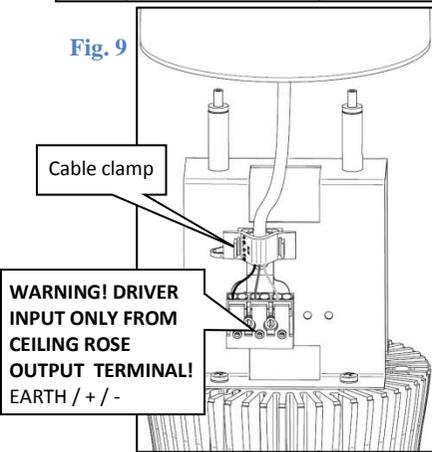


Fig. 9

WARNING! DRIVER INPUT ONLY FROM CEILING ROSE OUTPUT TERMINAL! EARTH / + / -

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

GENERAL INFORMATION

- 1) A qualified electrician, in accordance with IEE wiring regulations, should carry out connection to mains wiring.
- 2) This unit **MUST BE EARTHED.**
- 3) Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
- 4) Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid
- 5) Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
- 6) The EchoLED luminaire must be suitably positioned to avoid high temperatures.
- 7) Temperature range for the luminaire is 0 - 25°C.
- 8) All mains supply cables connected to EchoLED luminaire must be kept as short as possible and should be of a HAR approved heat resisting type.
- 9) Supply cables and lamp circuit cables should be physically segregated, and all LED drive/indicator cabling kept as far away as possible from any other lamp wiring.

Whitecroft
lighting

Echo 280 LED

Emergency, DALI and 6000Lm Installation Leaflet



PK/ILECHOLED/EMCOB

June 2019 - Rev 03



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

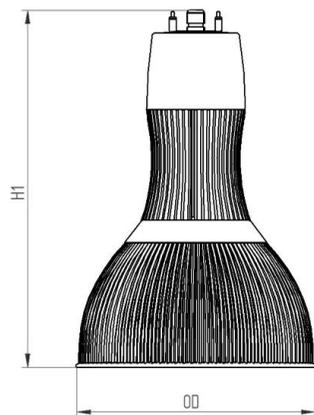
Registered Office: As above

SPECIFICATION

EchoLED is a suspended luminaire available in a silver anodised finish with a variety of lumen packages and DAL dimming as an option.

It is available with 3 different refractor/ reflector options - Opal, Clear and Spun Aluminium.

Dimensions (mm)	H1	OD	Weight
EchoLED	443	315	7kg



Each Echo LED EM luminaire is shipped in two separate packages:

1. Ceiling rose/housing and Suspended body
2. Refractor/reflector.

Before commencing installation, check contents of all cartons to ensure that all components are present and in good condition.

- 1) Ceiling rose
 - a) 1 x Ceiling rose sub assembly
- 2) Suspended body
 - a) 1 x EchoLED EM suspended body
 - b) 1 x Suspension kit
 - c) 1 x Installation leaflet
- 3) Optic
 - a) 1 x refractor/reflector

INSTALLATION SEQUENCE

In order to fit this luminaire, the correct sequence of assembly must be observed.

1. Remove the ceiling rose from its packaging. Remove the four cover retaining screws and lift off the cover. The cover is retained on safety cords. Keep the screws safely until required. (fig.1)
2. Fix the wire suspension mounting cups to the ceiling on centres as indicated. (fig.2 Further detail fig.5)

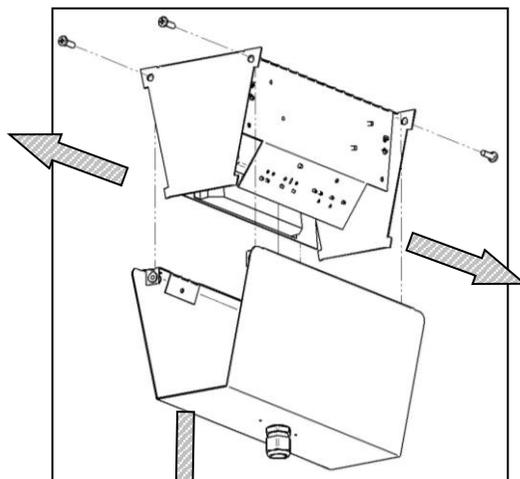


Fig. 1

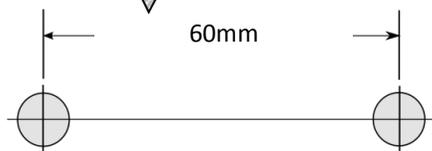


Fig. 2

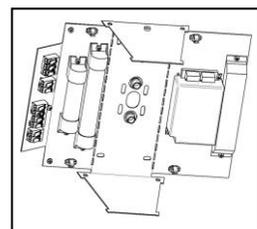


Fig. 3

3. Spread the sides of the gear tray apart only enough to allow access to fixing holes and fix it over the suspension cups so that they project through the two holes either side of the BESA cut-out in the centre. Several fixing holes are provided. (fig. 3)
4. Make incoming mains and dimming (where required) connections to terminal blocks indicated. Make outgoing connections using 3-core flex (by others) to terminal blocks indicated. Maximum length is 3.3metres. (fig.4)
5. Attach wire suspension cables using the retaining covers. (fig.5)

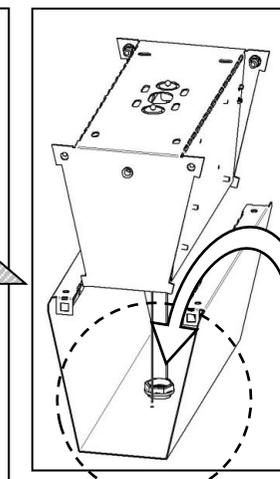


Fig. 6

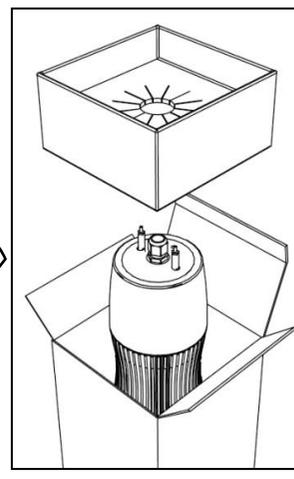


Fig. 7

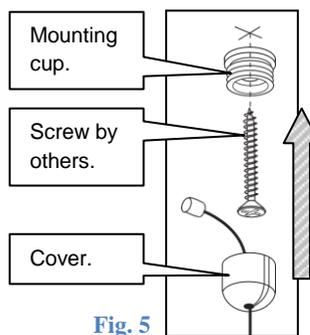


Fig. 5

6. Working from inside, pass the suspension wires down through the small holes in the ceiling rose cover. (fig. 6)
7. Tighten the cable gland to secure the flex making sure that there is sufficient slack. Bend the gear tray sides back together and refit the outer cover using the M5 screws removed earlier.
8. Unpack the suspended body. (fig.7)
9. Push the ends of the suspension wires into the clutch mechanisms mounted in the top of the suspended body and set the height of the fitting as required. (fig.8)

Fig. 4 EMERGENCY DALI / EMPRO

