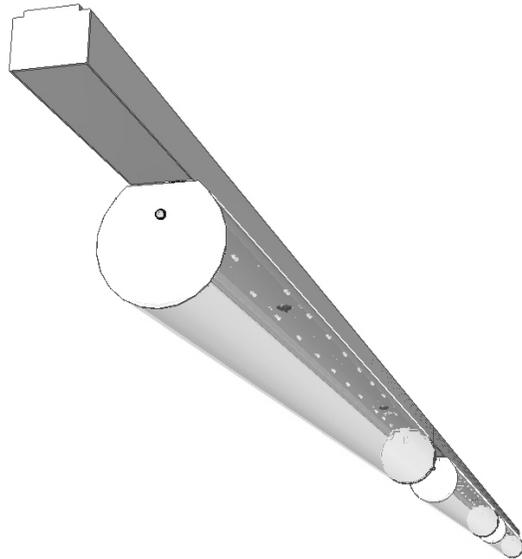




Inspiration



INSTALLATION INSTRUCTIONS

PK/INSPLEDLEAFLET

November 2020 - Rev E

Whitecroft Lighting Limited

Burlington Street, Ashton-under-Lyne, Lancashire OL7 0AX

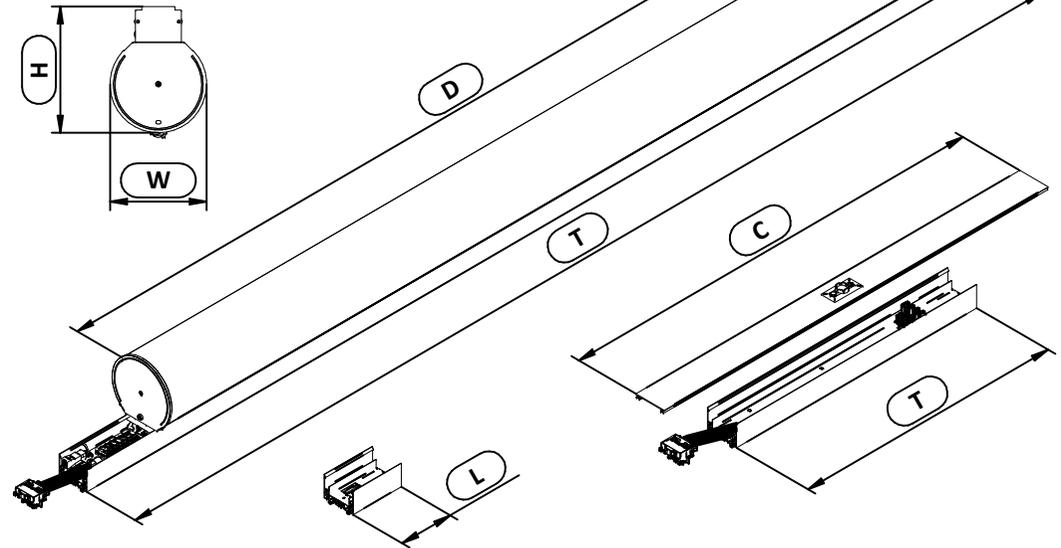
Telephone +44 (0)161 330 6811 Facsimile: +44 (0)161 331 5855

Registered No. 3848973 England Registered Office: As above



DIMENSIONS

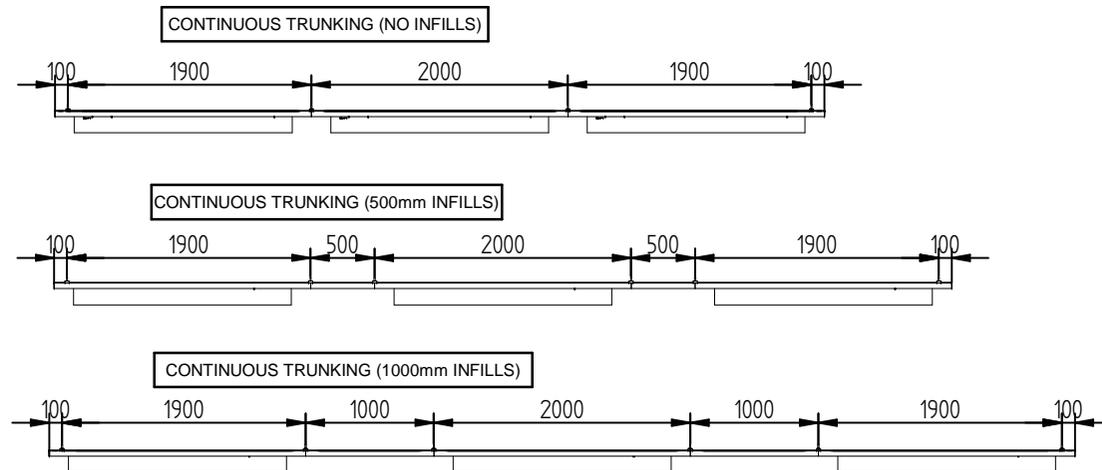
Luminaire Dimensions (mm)						
Description	Trunking Length (T)	Diffuser Length (D)	Width (W)	Height (H)	Weight Std	Weight Em
Fitting (All Types)	2000	1700	128	166	8 Kg	8.5 Kg



Rear Cable Entry Infill Dimensions (mm)				
Description	Length (L)	Width	Height	Weight
Access Block	100	61	41	0.2 Kg

Infill Dimensions (mm)					
Description	Trunking Length (T)	Cover Length (C)	Width	Height	Weight
500mm	500	800	61	41	1.5 Kg
1000mm	1000	1300	61	41	3 Kg

TYPICAL ROW CONFIGURATION & SUSPENSION CENTRES



INSTALLATION

1 - Remove the luminaires & infill components from packaging & inspect the contents for damage. NB Package contains a separate jointing kit - These should be set aside & retained for later use.

2 - Mark out the suspension centres as required making reference to the recommended configuration details on page 2 .

3 - For suspended versions, fix the ceiling collar supplied with the suspension kit using a suitable fixing. NB Ensure the ceiling system is of adequate strength to support the weight of the luminaire system. Fit suspension wire to ceiling collar, thread wire through the suspension clutch in support bracket & level to approximate required height.

4 - For surface mount options, remove the clutch mechanism from the support bracket by removing retaining screw from the underside of bracket & fix direct to the ceiling surface using a suitable fixing (not supplied).

5. For continuous IP44 options take the gaskets and peel off the self adhesive backing and use the centre section of the gasket for support to fix to one end of the trunking. Fig 2. Once in place pull out the centre section and discard. Make sure there is only one gasket per joint.

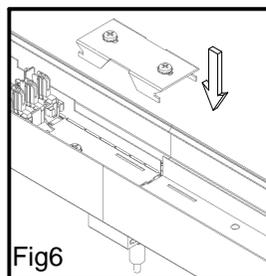
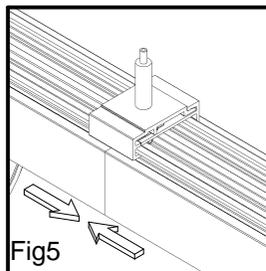
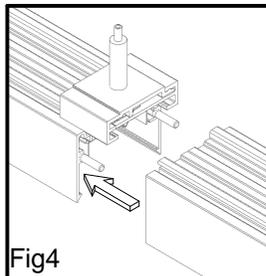
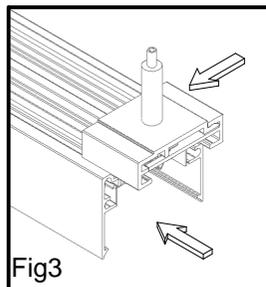
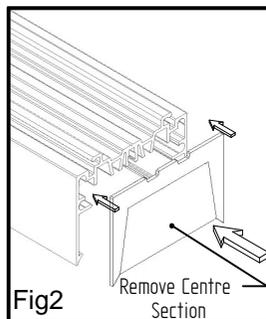
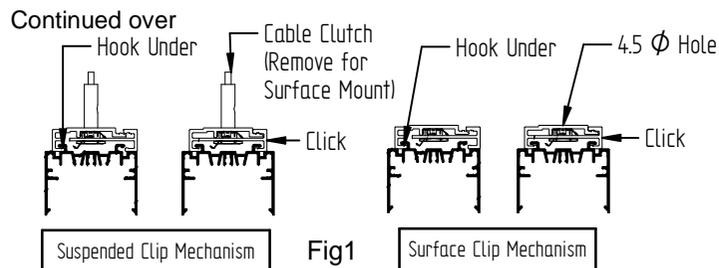
6 - Suspend the first luminaire in a row from two suspension brackets. Secure the suspension bracket on to the trunking by squeezing either side of bracket until clicked into position. Fig 1 & 3

7 - Fit the alignment pins supplied with the jointing kit at the joint junction into ports indicated by gently tapping with hammer until secure. For IP44 options just tap the pins through the gasket. Fig 4

8 - Suspend the next luminaire or infill section from the jointing pins previously fitted & at the suspension point at the opposite end to the joint. Draw together the luminaires to close the gap & slide suspension bracket over joint. Fig 4 & 5

9 - From the underside of the trunking fit the supplied jointing bracket into slots on trunking & secure via the screws & washers provided, tightening screws alternately until joint is closed. Fig 6

10 - Continue sequentially as above until full row is complete.



INSTALLATION CONTINUED

11 - Should cable entry be required from the rear of the trunking system, then a separate rear entry infill section will be required. Fit the rear entry infill by following steps 7 to 9 overleaf. On the IP44 cable entries a grey gland is used. A small slit should be made in the centre of the gland and the cable inserted to ensure a water tight seal. NB Suspension of the extended rear entry infill is not required & should not be attempted as it will be self supporting from adjacent luminaire. Refer to Fig 7 for correct suspension positioning.

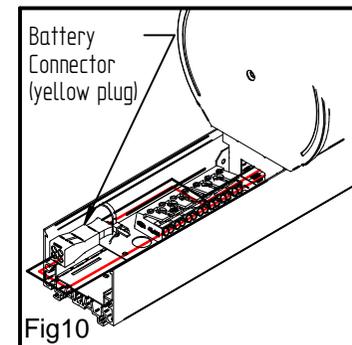
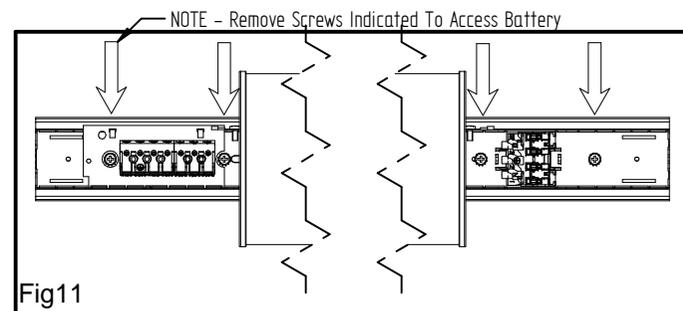
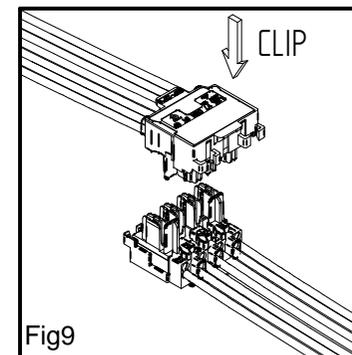
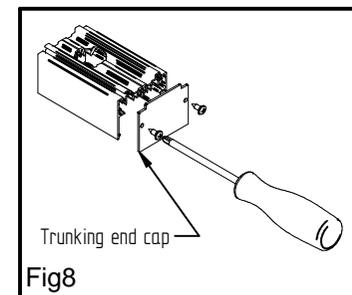
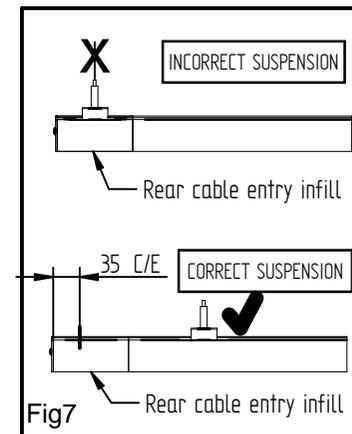
12 - Fit endcaps (supplied separate) to each end of trunking using the fixings provided. On IP44 options the gasket is pre-fitted to the endcap and the screw will be pushed through the gasket into the trunking. Take note of orientation of the endcaps when power feed is via end, ensuring cable entry hole variant is fitted at appropriate end. Fig 8

13 - Clip together the continuous wiring loom plugs situated between luminaires & infills by aligning pins & firmly snapping together. Fig 9

14 - If luminaire is an emergency variant then connect battery cables via the 2 way plug at the power feed end of the luminaire. Fig 10. Note commission date on label situated on the rear face of the trunking.

15 - Should access be required to the battery for replacement or maintenance purposes then removal of luminaire assembly from trunking will be required as described below:-

- i) - Remove infills between luminaires & independently support the trunking weight at 2 points.
- ii) - Disconnect loom plugs between luminaires. Fig 9
- iii) - Remove jointing brackets at each end of luminaire. Fig 6
- iv) - Remove 2 screws indicated below at each end. Fig 11
- v) - Disengage clip from centre of trunking by pulling down vertically (use of flat bladed tool between trunking & luminaire assembly may be necessary)
- vi) - Allow geartray & diffuser assembly to hang from trunking.
- vii) - Disconnect battery cables & 2 fixing screws to remove



WIRING DETAILS

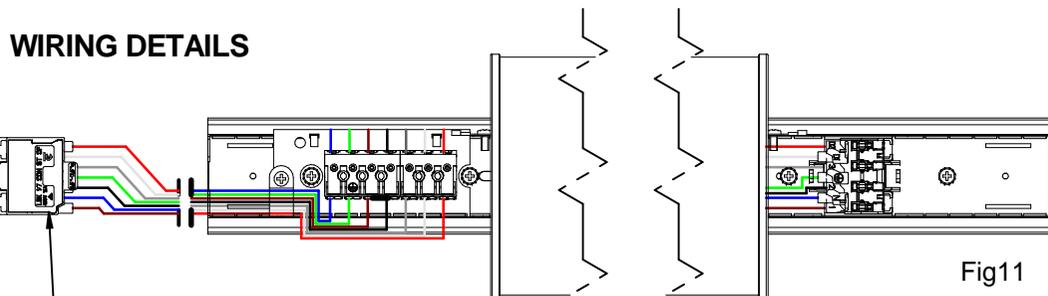


Fig11

NOTE - Disconnect & remove the loom lead from the terminal blocks at the start of row luminaire only!

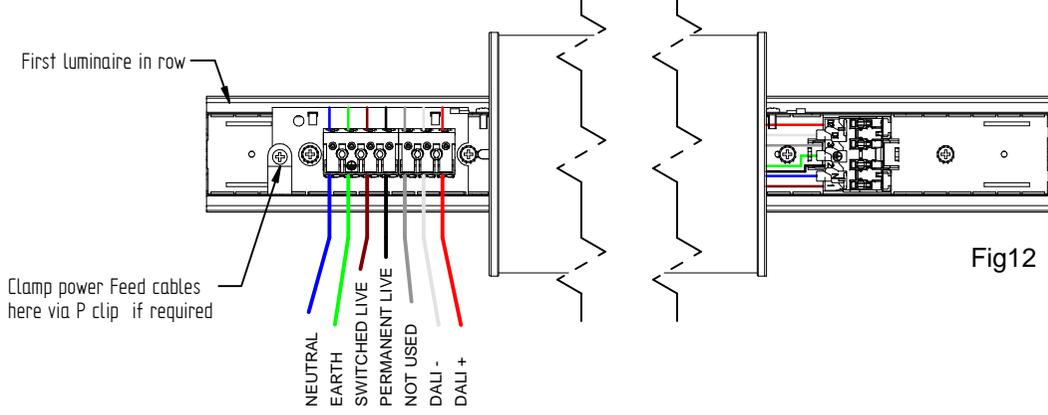


Fig12

First luminaire in row

Clamp power Feed cables here via P clip if required

NEUTRAL
EARTH
SWITCHED LIVE
PERMANENT LIVE
NOT USED
DALI -
DALI +

1 - Disconnect & remove the flying lead loom from the terminal blocks at the start of row power feed luminaire only & discard . NB Retain P Clip & fixing for later use. Cables are removed from terminal blocks by depressing levers on the top of the terminal blocks. Fig 11

2 - Connect a suitable lead (max 2.5mm sq) to the terminal blocks as detailed in Fig 12 .Clamp cable via supplied P Clip or suitable 20mm endcap mounted cable gland - NB Ensure cables are not routed on top of terminal blocks

FINAL ASSEMBLY

1 - Attach nearest earth lead to infill covers at row ends & between luminaires & then fit cover to trunking by pushing up vertically whilst supporting the rear of the trunking until clipped into position. Fig 13 . Unused earth leads should be tucked away before fitting infill cover.

2 - Undertake final levelling of system via clutch mechanism on support brackets if suspended

3 - Apply power & test for correct operation of system.

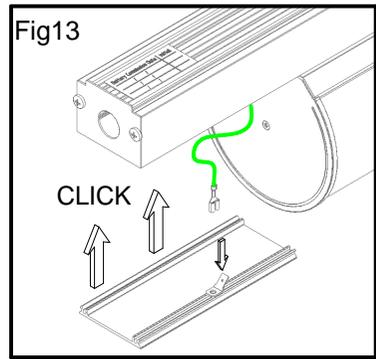


Fig13

CLICK

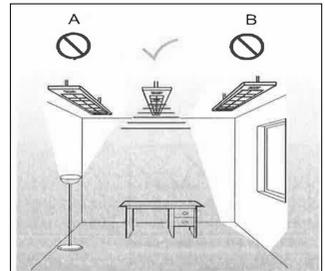
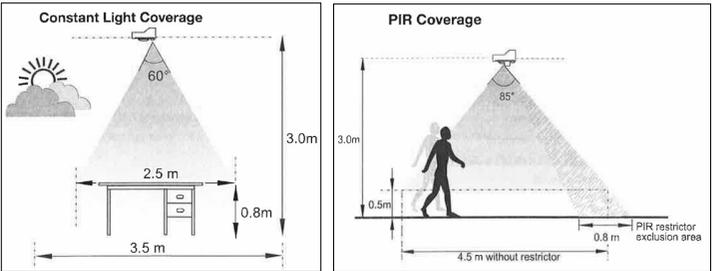
COMD1 SENSOR DETAILS

When using Sensors Note:

Sensors can only be installed between fittings by using a sensor cover / infill and can only be used on DALI systems.

To calculate DALI load for the number of sensors and dali switch required, See Further Information at the bottom of this page.

Detection cone for the sensors must be considered when placing more than one sensor in a room.

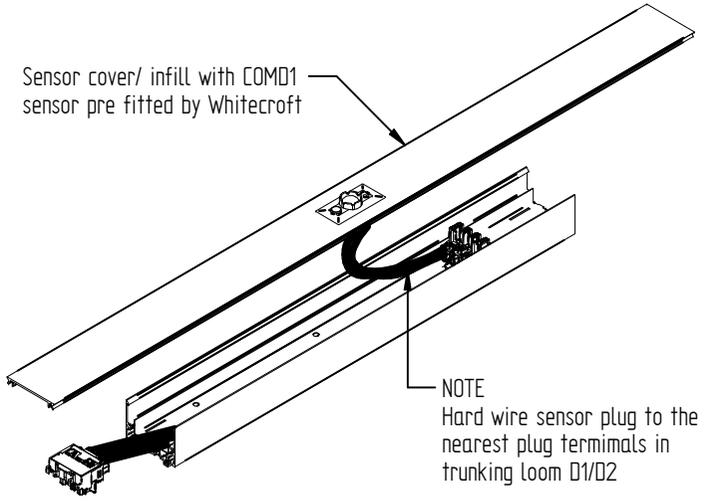


WARNING:

Do not mount sensor in direct line of artificial light source e.g. lamps, uplight

Do not mount sensor in direct sun light.

Isolate mains before installing sensor.

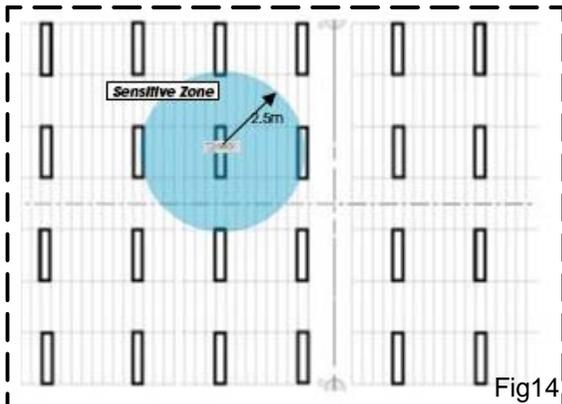


NOTE
Hard wire sensor plug to the nearest plug terminals in trunking loom D1/D2

FURTHER INFORMATION

For maximum number of fitting on a MCB Type please contact Technical Support

ORGANIC RESPONSE SENSOR DETAILS



Organic response motion detection coverage = 2.5M radius at luminaire height of 2.7M as detailed in Fig 14. One sensor fitted per luminaire.

The installed system relies on peer to peer communication between neighbouring sensor nodes to allow the luminaires to operate as a system and must therefore be installed within the spacings indicated in Fig 15

For further information regarding the configurable sensor parameters please refer to website for more details.

Fig14

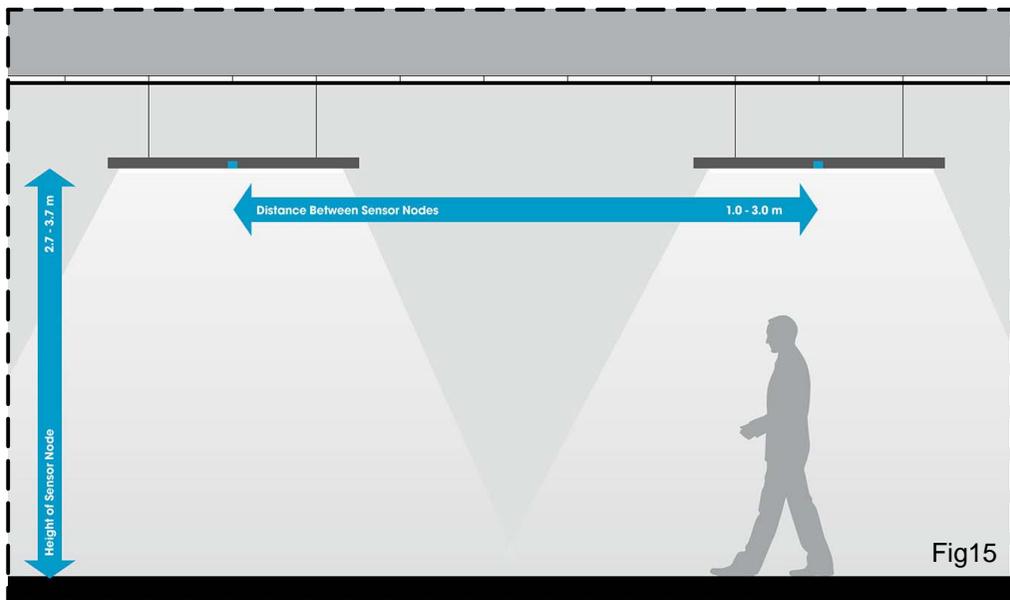


Fig15

DALI CONNECTION - OR3 COMECS

DALI connection cables on COMECS emergency Organic Response luminaires are configured for external remote emergency monitoring systems as detailed in Fig16a.

Should the requirement be for the COMECS Organic Response luminaires to be connected to a Whitecroft Organic Response Portal emergency monitoring system then 2 pin yellow plugs should be swapped as detailed in Fig 16b.

Fig 16a

External emergency monitoring system

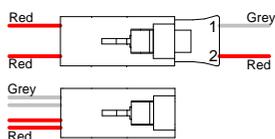


Fig 16b

Portal emergency monitoring system

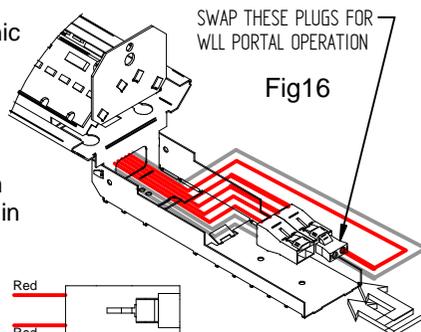


Fig16

SPECIFICATION:

Lamp type:	LED
Output:	3800 / 4300 / 4750 / 5300lm nominal
Colour Temp:	4000°K - Ra80
Materials: Body:	Mild steel finished White RAL9003
Trunking:	Extruded Aluminium finished White RAL9003
Endcaps:	White injection moulded Polycarbonate
Diffuser:	Satine finish extruded Polycarbonate
Control gear:	Fixed output / DALI
Emergency:	Integral 3hr / COMECS
Controls:	Organic Response / COMD1
Supply:	220-240V 50/60Hz AC
Ambient Temperature:	0-25°C
Terminal block type:	Push-wire / piano-key max cable size 0.5 - 2.5mm ²
Ingress protection:	IP40 / IP44
Wattage:	Refer to datasheet



Electrostatic
Sensitive Device



High Voltage
LED's

GENERAL INFORMATION

1. A qualified electrician, in accordance with IEE wiring regulations should carry out connection to mains wiring.
2. Observe ESD precautions during installation.
3. This unit must be EARTHED.
4. Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
5. Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid
6. Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
7. Luminaire body will become hot under normal operating conditions. Allow to cool before undertaking any necessary maintenance work.
8. Batteries used in this luminaire are replaceable by a qualified electrician
9. The light source contained within this luminaire shall only be replaced by the manufacturer, his agent or a similar qualified person

FURTHER INFORMATION

TECHNICAL SUPPORT
Telephone: 0161 331 5700
E-mail: technical@whitecroftlight.com
<http://www.whitecroftlighting.com/>