

Whitecroft

lighting

Installation Instructions



PK-NPD134-MRI-IL

Revision 4 - 10/01/2023



Whitecroft Lighting Limited

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INSTALLATION DETAILS

- 1) Open packing and locate the disposable gloves, this is to stop grease from skin contact getting onto the reflector surface. These must be worn throughout the installation.
- 2) Inspect the contents of the box for any damage in transit.
- 3) Prepare aperture using appropriate tool, circular fittings are based around standard size hole saws. See Dimensions on last page for cut sizes.
- 4) Ceiling thickness is show under Product and Driver Dimensions. See fig 1.



 Check void dimensions. Ensure 100mm clearance from the down lighter is given in all directions to walls/insulation and MRI Link Connection box. See Fig.2. Insulation cannot directly cover the back of the down lighter.



6) Untighten the 3 cable glands fig.4 and remove the brass screw fig.5. Open the box to show the PCB. Cables from external driver into room should be routed through the IN gland and connected to terminal block beneath. To connect to the next fitting, connect cable to the terminal block through the OUT gland and to the IN gland on the next fitting.



7) Wire the products as shown below (typical room schematic). Note that the driver is installed outside the MRI room with Filter bridging into the room (supplied by others) then connecting to the MRI link connection boxes that loop in and loop out to the next fitting. Maximum number of fittings that can be run by driver and maximum circuit length listed below.



Maximum Number of fittings that can be run by driver:

Driver	Maximum Low Output	Maximum High Output	Minimum* Low Output	Minimum* High Output
M5D100W	6	3	2	1
M5D185W	10	6	3	2
M5D320W	18	10	4	3

*This minimum figure is the minimum required for the fittings to dim down to at least 20% output (If the quantity of fittings is increased from this figure, then the dimming level will go down lower) If dimming is not a requirement, then a single fitting would operate on all driver sizes.

Recommended maximum circuit lengths:

30m using 100W driver with 1.5mm² cable 20m using 185W driver with 1.5mm² cable 12m using 320W driver with 1.5mm² cable 18m using 320W driver with 2.5mm² cable

Note: These figures are based on default voltage output from the driver. This can be increased on installation and can increase circuit length. Please contact Technical Support for more information.

8) Install the product in the ceiling by placing the MRI Link box in the ceiling first then installing the fitting. To install the fitting place the tops of the plastic wings it the cut aperture then push up until the product is fully secure. See fig.6.



9) To remove the fitting for maintenance, first ensure clean gloves are used to protect fitting from dirt and grease. Then place a flat bladed screw driver carefully behind the bezel and ceiling to open up a gap. Use fingers to grip the product and pull down. You can also use your free hand to ease the spring through the aperture to stop damage to the ceiling.

SPECIFICATION

Lamp type:	LED				
Output:	Refer to website for lumen outputs				
Colour:	3000k/4000K RA90				
Materials	Acrylic Diffuser Polycarbonate Reflector (Semi Specular) Graphite Composite Heatsink				
Supply	MRI 36V DC				
Operating temp	0°c to 25°c				
Power	Refer to website for wattages				
Connection	Terminal block/Driver 0.75mm ² to 1.5mm ² , 10-11mm stripped				
Ingress: Protection	IP44				

PRODUCT DIMENSIONS

					Ceiling	Cut Aperture		
Version	Ø (mm)	W(mm)	H(mm)	L(mm)	Depth(mm)	CAر1mm	KG	
C165 MRI Fitting	173	173	106	173	1-50	165	1.0	
MRI Link Box	n/a	55	59	107	n/a	n/a	0.09	
MRI Driver 100W	n/a	68	38.8	220	n/a	n/a	1.12	
MRI Driver 185W	n/a	68	38.8	228	n/a	n/a	1.55	
MRI Driver 320W	n/a	90	43.8	252	n/a	n/a	1.88	







C165 MRI Fitting

MRI Link Connection Box



M5D100W (100w Driver)



• tc) : Max. Case Temperature



M5D185W (185w Driver)



• (tc) : Max. Case Temperature



M5D320W (320w Driver)



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) 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. Use of cleaning fluids can mark reflector surfaces.
- 5) Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
- 6) For secondary suspension points please refer to fig.7. The holes are design to accommodate steel cable (supplied by others).



- 7) Allow sufficient time for product to cool before performing maintenance. Heatsink may be hot.
- 8) The light source contained in this luminaire shall only be replaced by the manufacturer or a designated service agent or a suitably qualified person.

TECHNICAL SUPPORT

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