Light Source User Guide

Compact Light Source Range

Models covered by this manual:

UFO 70/150 CG Glass, White Light - 240V
UFO 70/150 CP Plastic, White Light - 240V
UFO 70/150 CGC Glass, Colour Wheel (continuous) - 240V
UFO 70/150 CPC Plastic, Colour Wheel (continuous) - 240V
UFO 70/150 CGS Glass, Colour Wheel (switch on box) - 240V
UFO 70/150 CPS Plastic, Colour Wheel (switch on box) - 240V
UFO 70/150 CGCF Glass, Colour Wheel (separate feed) - 240V
UFO 70/150 CPCF Plastic, Colour Wheel (separate feed) - 240V

Universal Fibre Optics

Home Place, Coldstream, TD12 4DT, United Kingdom
Tel: +44 (0)1890 883416 | Fax: +44 (0)1890 883062
www.fibreopticlighting.com | info@fibreopticlighting.com

INTRODUCTION

Thank you for purchasing this UFO Light Source.

Please read these instructions fully before connecting your unit to the electrical supply, and keep them for future reference.

The UFO Compact light sources are a range of low profile light sources which use either 70W or 150W metal halide discharge lamps to give much greater brightness than those powered by halogen lamps.

These models have a fast re-lamping feature (the lamp is mounted on a pull out hatch at the rear) and can be fitted with a combination of colour, twinkle or dimmer wheels for providing lighting effects.

METAL HALIDE LAMPS CANNOT BE CONNECTED TO A MAINS DIMMER OR A REDUCED SUPPLY VOLTAGE. THIS WILL RESULT IN DAMAGE TO THE LAMP AND AND THE ELECTRONIC BALLAST.

IMPORTANT

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED

Do not operate without complete lamp enclosure in place or if lens is damaged.

KEEP HARNESS IN PLACE WHEN IN OPERATION.

CAUTION: Hot surface. Keep away from curtains and other combustible materials.

WARNING: RISK OF FIRE/INJURY TO PERSONS. Keep away from combustibles. Unplug to change lamp. Do not touch lamp.

WARNING: RISK OF FIRE. Do not place lamp where the overhead surface is closer than 0.2m to the light source.

IMPORTANT SAFETY INFORMATION

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

Lighted Lamp is HOT:

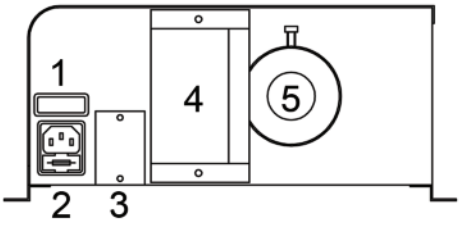
WARNING – To reduce the risk of FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:

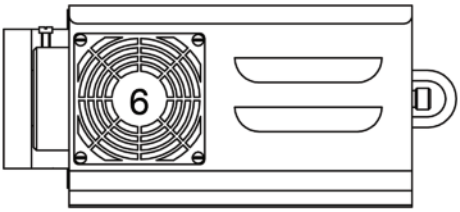
1. Unplug and allow to cool before replacing lamp.
2. Lamp gets HOT quickly! Only contact plug when turning on.
3. Do not touch hot lens, guard, or enclosure.
4. Do not remain in light if skin feels warm.
5. Do not look directly at lighted lamp.
6. Keep lamp away from materials that may burn.
7. Use only with a 150W or smaller lamp.
8. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
9. Do not operate product with missing or damaged guard, lamp containment barrier, lens or fibre-optic harness.

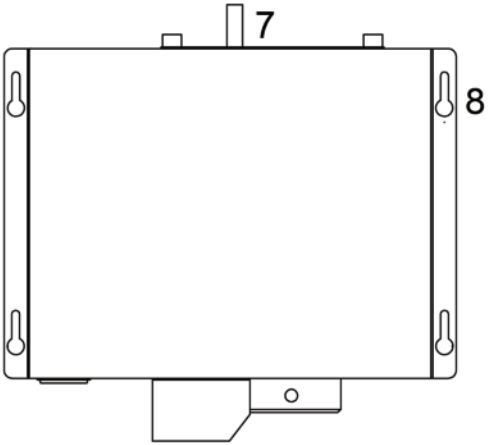
SAVE THESE INSTRUCTIONS

- Always disconnect the unit from the power supply before opening or attempting to perform any work on it.
- UNIT MAY GET HOT - always allow unit to cool down before handling or moving it.
- Do not touch or attempt to remove the lamp while it is hot.
- Ensure that the power supply is correct for the unit before powering it up.
- Always ensure that the unit is properly EARTHED.
- Do not expose the unit to rain or moisture.
- Keep away from all combustible materials.
- Never attempt to tamper with the wiring or other internal components.
- Keep the unit away from gas, oil and any other flammable or explosive materials.

LIGHTSOURCE LAYOUT







Item	Description
1	Power LED
2	Mains input socket & fuse holder
3	Blanking plate or colour wheel switch depending on specification
4	Motor cover (decorative units only)
5	Fibre port connector
6	Cooling fan
7	Lamp access hatch
8	Securing holes (keyhole slots)

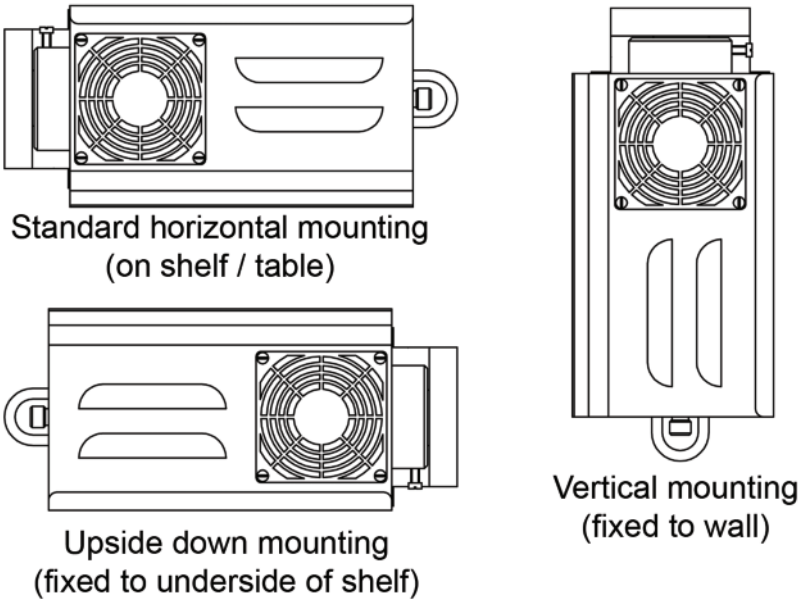
INSTALLATION GUIDE

In order for the Compact light source to function safely and efficiently it must be installed according to this user manual. Please read all sections thoroughly before switching on the light source.

POWER SUPPLY REQUIREMENTS

Before plugging in the unit, please make sure that the supply is correct. Failure to do so could cause the unit to malfunction. The unit requires a 240VAC 50Hz supply and it MUST BE EARTHED. The light source units are provided with a cordset fitted with a standard 3-pin plug.

POSITIONING THE UNIT



The light source can be mounted horizontally, vertically or upside-down on any flat surface. Keyhole slots are provided on the base of the unit to allow for securing to a surface. The light source is only suitable for use in a dry area.

If the unit is being mounted at a higher than the ground level, block access below the work area before installing.

Verify that any screws or bolts can safely bear the weight of the light source.

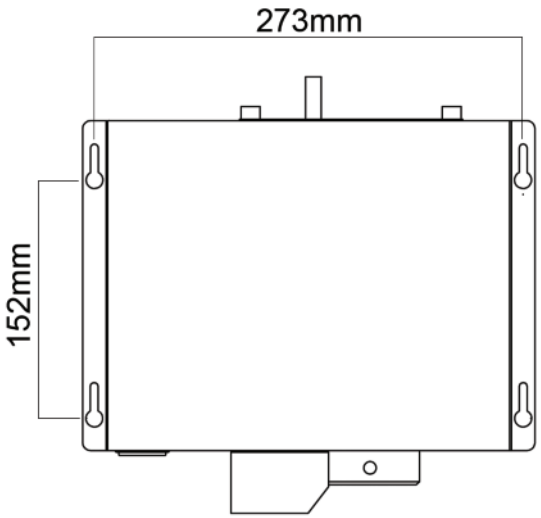
INSTALLATION GUIDE (Continued)

Verify that the supporting structure can safely bear the weight of all installed units, cables and any other equipment. The minimum thickness of the mounting surface must be no less than 19mm.

For horizontal mounting, it is recommended that the lightsource is secured to a solid surface using 4 x M4 or M5 screws or bolts and the keyhole slots. This is particularly important if the lightsource location is not at ground floor level.

To mount the light source vertically, first securely install 4 x M4 or M5 screws or bolts at the required distances so that they will line up with the keyhole slots. The light source can then be mounted onto them and slid into position. The bolts or screws MUST then be fully tightened.

To mount the light source under a surface, first securely install 4 x M4 or M5 screws or bolts at the required distances so that they will line up with the keyhole slots. The light source can then be mounted onto them and slid into position. The bolts or screws MUST then be fully tightened.



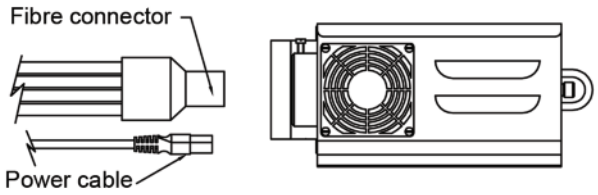
CLEARANCE / VENTILATION

It is recommended that a gap of 200mm (8") or more is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation.

INSTALLATION GUIDE (Continued)

CONNECTION

There are 2 main connections required - the fibre port and the mains power supply. On separate feed units, there are two power connections. Connect and secure the fibre optic connector to the fibre port before connecting the electrical supply. Never run the light source with the fibre connector unplugged.



OPERATION

Switch on the power to the light source and it will start up automatically. Light will be output from the port connector and throughout the fibre harness.

If no light is produced, please consult the TROUBLESHOOTING section in this manual

WHEEL CONTROL

Decorative models of the Compact are available with a number of different colourwheel control options. The control system available will depend on the exact model specified.

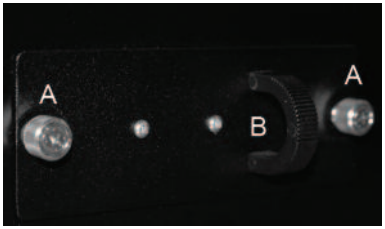
Continuous rotation - the wheel rotates continuously and cannot be stopped. White light only output is available by removing the wheel, as detailed on page 8 of this manual.

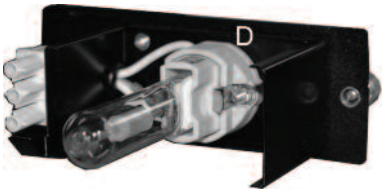
Separate feed - the wheel is controlled by a secondary mains electrical feed. It can be started and stopped on any colour by simply switching the power off.

Switch control - the wheel can be started and stopped by using a switch built into the back of the unit.

MAINTENANCE

LAMP REPLACEMENT





1) Unplug unit from electrical supply and allow to cool.
2) On the rear of the unit, unscrew the two knurled securing nuts (A) which hold the lamp holder in position.
3) Use the handle (B) to withdraw the lamp holder(C) from the light source.
4) Unplug the old lamp from its ceramic holder.
5) Plug the new lamp into the holder, making sure that you use a bulb of the same specification as to that which was removed. Also make sure not to touch the glass part of the lamp.
6) Slide the lamp holder plate back into position and tighten the two retaining nuts.

FUSE REPLACEMENT

1) Unplug unit from electrical supply and allow to cool.
2) The fuse is located in a drawer under the mains input connector.
3) Open the fuse drawer.
4) Withdraw fuse from its holder
5) Replace with identically specified fuse - see specification table in this manual.
6) Close the fuse drawer and power up the light source.

MAINTENANCE (Continued)

CLEANING THE UNIT

Disconnect unit from power supply and allow to cool before attempting any cleaning of the unit.

The body of the unit can be cleaned with a soft, damp cloth - do not use any abrasives on the unit.

The fans and vents should be kept clear by periodically blowing them out with compressed air.

Non-abrasive glass cleaner can be used to clean the glass lens inside the unit.

Please note that a record of all maintenance MUST be kept in the table below, indicating what maintenance was undertaken and when.

Date	Maintenance Undertaken

TROUBLESHOOTING

Problem	Probable cause(s)	Remedy
Unit is completely dead - Lamp and LED power indicator are not illuminated	Main fuse blown	Check and replace fuse.
	No power to unit	Check that power is switched on and power supply is plugged in.
LED power indicator & fan are on, but no light is output	Lamp blown	Replace lamp
	Thermal switch activated	Allow unit to cool for 5 to 10 minutes and investigate reason for overheating
	Lamp wires are not connected	Check plug connection - ensure lamp is properly seated in its holder and the pins are fully mated
Poor light output	Lamp needs replacing	Replace lamp
	Unit needs cleaning	Clean glass lens
	Incorrect power supply	Ensure power supply is 240VAC 50Hz
	FIbre port connector not plugged in correctly	Ensure fibre port connector is plugged in correctly, and that the screw is tightened up properly
Lamp going on & off randomly	Unit is overheating	Allow unit to cool for 5 to 10 minutes and investigate reason for overheating

TECHNICAL SPECIFICATIONS

Description	70W White Light	70W Decorative	150W White Light	150W Decorative
Port connector size	30mm diameter	30mm diameter	30mm diameter	30mm diameter
Fibre type	Glass / polymer	Glass / polymer	Glass / polymer	Glass / polymer
Supply voltage	240VAC 50Hz	240VAC 50Hz	240VAC 50Hz	240VAC 50Hz
Lamp power	70W	70W	150W	150W
Input power	114VA @ 240VAC	114VA @ 240VAC	180VA @ 240VAC	180VA @ 240VAC
Start up current	0.25A @ 240VAC	0.25A @ 240VAC	0.3A @ 240VAC	0.3A @ 240VAC
Running current	0.6A @ 240VAC	0.6A @ 240VAC	0.75A @240VAC	0.75A @240VAC
Min. ambient temp.	-20°C	-20°C	-20°C	-20°C
Max. ambient temp.	40°C	40°C	40°C	40°C
Thermal protection	Thermal switch	Thermal switch	Thermal switch	Thermal switch
Ballast type	Electronic	Electronic	Electronic	Electronic
Fan tye (polymer fibre)	Papst 8550N	Papst 8550N	Papst 8550N	Papst 8550N
Fan type (glass fibre)	Papst 8880N	Papst 8880N	Papst 8880N	Papst 8880N
Power cord	IEC mains cable	IEC mains cable	IEC mains cable	IEC mains cable
Main fuse	4 Amp	4 Amp	4 Amp	4 Amp
Lamp type	Metal halide	Metal halide	Metal halide	Metal halide
Lamp model	Philips CDM-T or CDM	Philips CDM-T or CDM	Philips CDM-SA/T or CDM	Philips CDM-SA/T or CDM
Lamp life	c. 9000h	c. 9000h	c. 6000h	c. 6000h
Lamp colour temp.	4200K (CDM-T) 3000K (CDM)	4200K (CDM-T) 3000K (CDM)	4200K (SA/T) 3000K (CDM)	4200K (SA/T) 3000K (CDM)
Lamp CRI	96 (CDM-T) 85 (CDM)	96 (CDM-T) 85 (CDM)	96 (SA/T) 85 (CDM)	96 (SA/T) 85 (CDM)
Acoustic rating (polymer fibre)	38.0dB(A)	38.0dB(A)	38.0dB(A)	38.0dB(A)
Acoustic rating (glass fibre)	23.0dB(A)	23.0dB(A)	23.0dB(A)	23.0dB(A)
Operating environment	Indoor / dry	Indoor / dry	Indoor / dry	Indoor / dry
Protection rating	IP20	IP20	IP20	IP20
Material	Sheet steel	Sheet steel	Sheet steel	Sheet steel
Colour	Black	Black	Black	Black
Size	288x250x100 mm	288x277x129 mm	288x250x100 mm	288x277x129 mm
Weight	3.2kg	3.5kg	3.2kg	3.5kg

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