Fiber Source

White light

Order code: 10717

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Picture

1.1 <u>General</u>

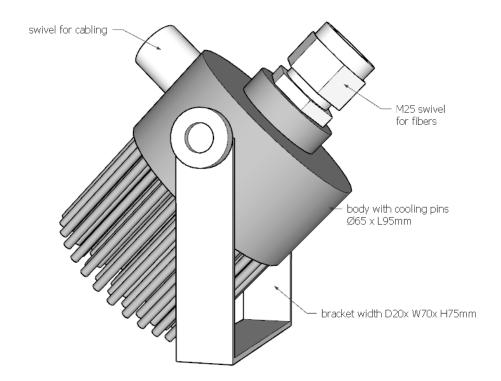


Fiber Source



Fiber Source with fiber

Dimensions



Total length from cooling pins to swivel M25: 123mm

Safety information

Before installing, powering up, or servicing the Fiber Source, it is highly recommended that you read this manual and ensure yourself that you completely understand its content. Observe the safety precautions in this manual. Install and operate the led-unit only as described in this manual, and in conformity with local regulations. If you have any questions how to operate this Fiber Source safely, please contact your point of sale.

3.1 Symbols

Following symbols are used to identify important safety information on the Fiber Source and in this manual.



DANGER! Safety hazard. Risk of severe injury or death.



Warning!
Hazardous
voltage. Risk
of lethal or
severe
electric
shock.



Warning! LED light emission. Risk of eye injury.



Warning! Burn hazard. Hot surface. Do not touch



vvarning! Refer to user manual.

3.2 Protection from electric shock



Although this device itself does not operate with dangerous voltages, the installation in which it is intended to be used, can contain dangerous voltages.

Shut down the power of the complete installation before carrying out any installation, or maintenance work.

Use only AC to DC power sources, suitable for the application, and conform to local regulations. Please ensure yourself that the AC to DC power supply is able to deliver the rated current requirements of the installation.

If any cable, seal or housing is damaged, cracked, or reformed, disconnect the power of the installation immediately.

For any additional servicing, not described in this manual, please contact your point of sale.

3.3 Protections from fire and burns





Do not operate this led-unit if ambient temperature is over 45 °C (113°F). Please ensure yourself that sufficient ventilation around the led-unit is possible.

It might be necessary to allow the led-unit to cool down for 5 minutes, before servicing.

Do not modify the led-fixture, in a way, not described in this manual.

3.4 Protection from injury





Ensure yourself that the led-unit and all its accessories are securely fastened. Verify that the led-unit is firmly fixed to its supporting underground.

3.5 <u>Disposing of this Fiber Source</u>



This led-lighting device is manufactured in compliance with directive of the European community: waste electrical and electronically equipment. Please help to preserve our environment and ensure that this Fiber Source will be recycled properly at the end of its life.



Physical installation

Thank you for selecting this Fiber Source as best solution in your setup.

Warning! Read the safety precautions in this manual before integrating this led-unit into your installation.

Installation must be carried out by qualified professionals only.

Assure yourself that there is sufficient and unrestricted air flow around the Fiber Source.

4.1 Unpacking

The following items are included in your package:

- Led-fixture with focussing bracket included
- Protective antistatic packaging, with short form manual

4.2 <u>Location and orientation</u>

This led-unit can be used in all directions.

4.3 Mounting

The Fiber Source can be mounted on all kind of non-combustible materials but take in consideration that the module can have a Tc of approximately 30 °C higher as ambient temperature.

In case of problems, or doubts, please contact your point of sale.

4.4 Assembling Fibers

Insert the fused bundle of fibers, in the swivel.

By moving the fibers more or less towards the LED source, the optimal light efficiency can be obtained.

When at the desired position, lock the swivel.















External connections

5.1 DC power input

Safety precautions

Never connect the live power on the input terminals of the Fiber Source! In case of doubts, contact your point of sale.

Polarity

The Fiber Source is polarity sensitive. So observe polarity and cabling:

- Red inner conductor = positive
- Black inner conductor = negative

Improper connection might damage the Fiber Source and power supply permanently. In case of inversed polarity, the warranty is void.

Power supply: Rated current

Cable

Cable type Omerin 2x0,25mm

Red	+700mA
Black	Ground

Please ensure yourself that the cable end is watertight sealed at the connection. If this is not properly done, water can pass through the inner conductors of the cable and damage the internal electronics of the Fiber Source.

EMC and safety requirements

The Fiber Source is fully compliant to the LVD and EMC directive of the European council, if used in a properly designed setup.

The Fiber Source is only intended to be used in lighting applications, and as such, the complete assembly of led-unit and power supply needs to be fully compliant with following harmonized standards:

LVD requirements of the power supply

• EN 60598: general requirements of lighting equipment.

EMC requirements of the power supply

Immunity according to:

- EN 61547:2009 (General EMC immunity requirements lighting eq.)
- EN 61000-4-1:2006 (General immunity testing techniques)
- EN 61000-4-2:2008 (ESD immunity test)
- EN 61000-4-3:2006 + A1:2007 (Radiated immunity test)
- EN 61000-4-4:2004 (Fast transients and burst immunity)
- EN 61000-4-5:2005 (Surge immunity test)
- EN 61000-4-6:2008 (Conducted immunity test)
- EN 61000-4-8:1993 (Magnetic field immunity test)
- EN 61000-4-11:2004 (Voltage variations immunity test)
- EN 61000-6-1:2005 (Generic standards for immunity)

Emission according to:

- EN 61000-3-2:2005+A1:2008+A2:2009 (Harmonics emission test<16A)
- EN 61000-3-3:2008 (Flicker+ voltage changes limits< 16A)
- EN 55015:2006+A2:2009 (Conducted + radiated emission lighting equipment)

To achieve this compliance, a proper power supply must be supplied. In case of doubts, contact your point of sale.

Installation setup

7.1 Specification

The Fiber Source has a black anodized aluminum housing with a M25 Swivel with a total length of 12cm

- Power consumption: 12W
- Input current: +700mA
- Mechanical connection: Bracket
- Led-color: White: 2700K/3000K/4000K/5700K, CRI 80 (CRI 90 on request)
- With collimator optic inside.
- Ingress protection: IP20
- Maximum operating temperature: -20°C to 40°C
- Maximum storage temperature -30°C to 50°C
- Dimensions: Ø65mm (width swivel included 85mm) x L123mm

Height of bracket 75mm

Total width including bracket: 70mm

• Weight: approximately 0,4kg

Service and Maintenance

8.1 <u>Safety precautions</u>



Read carefully the safety information in this manual. Lock out the power on the entire system and allow all electronic devices to discharge, and cool down, before executing any service or maintenance.

8.2 Cleaning

The Fiber Source itself



Extensive dirt, and particle build-up degrades performance, may cause overheating can result in damaged led-unit and power supplies. Damage by inadequate cleaning or maintenance is not covered by the Fiber Source warranty.

Never use solvents to clean the outer housing of the unit.

Never use water, or wet cloth.

Warranty

9.1 Application of warranty

Warranty period

Warranty service is valid for one year from the date of purchase by the consumer, as evidenced by invoice date given out by your point of sale.

Warranty service

Service under warranty can only be done by Lux Lumen.

Coordinates:

Lux Lumen Kernenergiestraat 53 A 2610 Wilrijk Belgium

Any cost of secure transportation of the Fiber Source to and from Lux Lumen service department, will be borne by the customer.

Limitations

Lux Lumen will not warrant the following:

- Periodic check-ups, maintenance and repair or replacement of parts due to normal wear and tear.
- Consumables
- software
- Defects caused by modifications carried out without Lux Lumen's approval.
- Damage resulting from the fact that a Fiber Source is not conforming to country specific standards or specifications in another country that the country of purchase.

Costs incurred by Lux Lumen's service center in making any adoptions or modifications of a Fiber Source necessary for country specific technical or safety standards or specifications, or any other cost to adjust the Fiber Source as a result of any specifications which have changed since the delivery of the Fiber Source.

Warranty service is excluded if damage or defects have been caused by:

Improper use, extensive use, handling or operation of the Fiber Source as referred to in the user manual or operator manual and/or relevant user documents, including without limitation, incorrect storage, dropping, excessive shocks, corrosions, dirt, water, or sand damage, if the Fiber Source is not rated to be used in severe conditions, indicated by its IP and IK degree, mentioned in the Fiber Source specifications in this manual.

Repairs, modifications or cleaning carried out by a non Lux Lumen service centre.

Use of spare parts, software or consumables, which are not compatible with the Fiber Source.

Connecting the Fiber Source to equipment not intended to be used with this Fiber Source.

Defects caused by improper condition of the power supply network.

Inadequate packaging of the Fiber Source when returning it under the RMA procedure.

Accidents or disasters or any cause beyond the control of Lux Lumen, including but not limited to lightning, water, fire, public disturbances, improper ventilation, and acts of god.

For full details of the warranty offered on this Fiber Source, please contact Lux Lumen's service center.

9.2 RMA procedure

To send material back to Lux Lumen, you need a RMA (Return Material Authorization) document that you will receive from Lux Lumen.

Without the RMA document, we cannot accept the material.

The procedure to obtain a RMA:

Step 1:

Customer contacts Lux Lumen about warranty, defects if material has to be returned.

Step 2:

Lux Lumen sends the customer a filled out RMA document (using a unique RMA number)

Step 3:

Customer sends material (include a copy of the RMA document with the material)

Step 4:

Lux Lumen evaluates the problem, and informs the client if repair is done under warranty, or makes an offer to the client for repair.



List of used abbreviations

- AC: Alternating current
- DC: Direct current
- °F: Temperature in degrees Fahrenheit
- °C: Temperature in degrees Celsius
- LED: Light Emitting Diode
- CRI: Color Rendering Index
- RGBW: Red Green Blue White
- FWHM: Full Width Half Measurement
- RMA: Return Material Authorization
- PWM: Pulse Width Modulation
- LVD: Low Voltage Directive
- EMC: ElectroMagnetic Compatibility