

Instruction Manual for Luminaires (Lighting Fittings)

General Information

To ensure the correct operation of the luminaires, it is recommended to read carefully the installation and operating instructions.

- For safety reasons, this manual must be read before commencing installation. The instruction manual should be retained for future reference.
- Connection of the luminaire may only be carried out by an electrician holding appropriate electrical authorizations.
- Before installation, ensure that the power supply is switched off and that no voltage is present in the network.
- During installation of the luminaire, particular attention must be paid to the electrical connection, ensuring that the appropriate conductors are connected to the correct terminals of the connector block.
- In damp premises, only use luminaires with an appropriate IP (Ingress Protection) rating.
- Only use suitable light sources as indicated on the product label.
- Before carrying out any servicing work, the luminaire must be disconnected from the mains supply.
- Only original parts may be used for repair and maintenance.
- Installation and replacement of a damaged light source or performance of any other servicing work must be carried out by authorized persons, after switching off the supply voltage. It is recommended that replacement of the light source be performed by the manufacturer or an installer appointed by the manufacturer.
- The manufacturer does not provide warranty cover for damage resulting from incorrect installation and/or use.
- Any activities carried out on the luminaire contrary to the provisions of this manual will result in the loss of the manufacturer's warranty.

Installation

The luminaire to which this manual relates must be used in accordance with its intended purpose. Luminaires may only be installed by persons who have been appropriately trained and who hold the required authorizations.

1. The manufacturer reserves the exclusive right to modify its products.
2. The manufacturer accepts no liability for:
 - damage resulting from modification of the product by the user,
 - damage to the product arising from installation contrary to the installation instructions by unauthorized persons or as a result of improper storage,

Creative LED solutions. Get inspired

- soiling of the product during installation; dust and dirt should be removed using microfibre cloths.
3. When installing luminaires, the permissible load-bearing capacity and rigidity parameters, as specified by the ceiling manufacturers, must be taken into account, i.e. the permissible uniformly distributed load and the permissible point load.

Note: Luminaires designed for recessed mounting must not be covered with thermal insulation matting.

Maintenance – Cleaning

Regular cleaning of the luminaires is essential to ensure optimum lighting performance. Luminaires must be cleaned only after disconnecting the power supply. Electrical components and connections must not be exposed to contact with water or moisture. It should be remembered that LED luminaires are sensitive to electrostatic discharge (ESD).

Luminaires may be cleaned using a neutral detergent mixed with lukewarm water. The solution should be applied with a soft microfibre cloth, sponge or similar item. Residual detergent should then be removed using a soft, clean microfibre cloth moistened with water. Cleaning solutions must not be sprayed directly onto the luminaires, as detergent residue may accumulate inside the diffuser, reflector or optical components and be difficult to remove subsequently. Detergents based on organic solvents and strongly alkaline agents should be avoided, as they may cause damage to components both in the short and long term. This applies in particular to components manufactured from various plastics.

To remove grease and fingerprints, the surface may be sprayed with a cleaning agent intended for windows, glass, computer screens, etc., and then dried using an entirely new, clean and dry microfibre cloth. Any remaining detergent residue may be removed using clean water and then wiped dry with a new, clean and dry microfibre cloth. Reflectors must be cleaned carefully to avoid damage to the material from which they are made.

Maintenance – Operation

During operation of the lighting installation, the luminaires should be inspected in order to detect faults, mechanical damage and contamination, in particular of the optical system components.

1. Before commencing inspection of a luminaire, its power supply/circuit must be switched off.
2. Any parts of the luminaire which, in the course of normal operation, become worn or damaged must be replaced immediately with new, defect-free components.
3. The housing of the luminaire and its components (glass, painted surfaces) may be cleaned in accordance with the guidelines set out in this manual.
4. Dust and dirt should be removed using microfibre cloths; objects that may scratch the surfaces of the luminaire must be avoided.

Luminaires do not pose a risk to people or property, provided that they are correctly installed, maintained and used in accordance with their intended purpose.

Creative LED solutions. Get inspired

Luminaires must not be used where environmental conditions may threaten the structure of the luminaire, its coating or the electronic components located inside, leading to improper operation of the luminaire. The luminaires comply with standard EN-60598-1.

Hazardous factors include, among others: high temperature, high humidity, dust, the presence in the air of chemically aggressive substances (chlorine, salt, acids, alkalis), vibration, shock, impact, UV radiation and electromagnetic fields.

Luminaires must be used in accordance with their intended purpose. They must be installed in compliance with the installation instructions.

Light Source

The light source used in this luminaire shall be replaced only by the manufacturer, its service representative, or a similarly qualified person.

Disposal

Directive 2002/96/EC (Waste Electrical and Electronic Equipment – WEEE)

The symbol of a crossed-out wheeled bin on the label indicates that this product must not be disposed of with ordinary household waste, but must be collected separately. This is intended to prevent potential adverse effects on the environment and human health. For further information on available collection points, please contact your local authority or the retailer from whom the product was purchased.

Information on disposal is available at www.klusdesign.eu – [KLUŚ recycling rules](#).

Creative LED solutions. Get inspired