

LED Flood Lights

Installation, Use and Maintenance Guidelines
(Indicative for all luminaires in this series)

Application

Floodlight with different light distribution. For lighting large facades, architectural buildings, advertising boards, stadiums, area lighting and for other exterior applications.



Note : Technical amendments reserved

Light Source : LED. Varied wattage Options

Normal rated voltage for luminaire is 220-240V, 50Hz, single phase ac supply.

Installation Recommendation

- This product is suitable for Indoor & Outdoor application.
- Electronic equipment is sensitive to voltage surges. Hence it is recommended to install a stabilizer at source to ensure constant voltage power supply to all outdoor luminaires, for better performance and life span of the luminaire and to avoid risk of damage.
- Installation and maintenance of the luminaire should be carried out by qualified person only in accordance with good electrical practice and appropriate accessories.
- Use flexible cable of suitable rating and diameter with the right IP rated connectors.
- The IP rating of the connection must be equal to or greater than the IP rating of the Luminaire.
- It is very important to follow these instructions to enable the luminaire to be installed correctly. Failure to follow this will void all warranty on the product.
- Please retain installation guidelines for future reference.

Technical Specifications

- Luminaire made of extruded / die-cast aluminium body
- High efficiency polycarbonate modular lens cover
- Stainless steel 304 grade fasteners.
- Swivel range on the horizontal axis 185°
- Earth connection
- Safety class I
- Protection class IP 68 modules & connectors / IP 67 for driver (Astron / Astron Prime)
- Protection class IP 65 (Bumblebee)
- CE - Conformity mark
- Finished with pure polyester powder coated colour graphite grey

Light distribution

Luminaire photometric data / IES files for the light planning program DIALux can be downloaded in IES-format on the KLITE web page www.klite.in.

Safety

- For Safety, always ensure power supply is disconnected before regular maintenance, lamp replacement and accessory fitting.
- Installation and operation of this luminaire are subject to national safety regulations. The manufacturer is discharged from liability when damage is caused by improper use or installation.
- Any modification to this fixture without authorization will void all warranty and the persons responsible for the modification shall be considered as manufacturer.
- Observe precautions for handling LED module.
- Do not subject the product for voltage or current which is not rated for.
- Luminaire not suitable for direct mounting on normally flammable surfaces

Installation

The luminaire must be operated with the complete protective cover:

- If mounted on a wall, ceiling or floor; the angle between the mounting surface and the light distribution opening must be $> 90^\circ$.
- Fix the mounting bracket with appropriate hardware onto the installation surface.
- Please ensure that the wires are connected to the right polarity [Phase, Neutral & Earth] and the luminaire must be earthed (Class I).
- Use only flexible supply cables of suitable rating and diameter with right IP rated connectors. Do not use hard cables or armoured cables (Hard cable could effect the IP rating of the product)
- Loosen joint screw and adjust the light source to desired angle and lock it to position.

Important Note

- LEDs are highly sensitive electronic components. Please avoid touching the light source directly, during installation.
- If fixture is supplied with integrated IP68 LED module, **Do Not Open** the module during installation or any maintenance

Cleaning and care

- After installation, the luminaire should first be cleaned.
- Building dust, residues from pressure-sensitive adhesives, paint splatter and rust film must be completely removed. Never use cleaning implements made of normal steel, steel brushes or steel wool because they cause extraneous rust to form.
- Cleaning agents containing hydrochloric acid and chlorides should never be used.
- We recommend cleaning the luminaires regularly.
- Do not use high pressure cleaners

Maintenance Recommendations

A scheduled maintenance program must be carried out on the Installation and fixtures regardless of the IP rating or application

- Disconnect the electrical supply before maintenance operation
- Replacement of LED-module must be done by qualified personnel only and components must be procured from the manufacturer

Storage

If site is not ready for installation, store the material in proper warehouse facilities. K-Lite is not responsible for the damages caused due to the mishandling of material at site.

Important Note

To ensure proper installation, kindly translate / communicate the installation instructions to the local qualified electrician in their respective local language.

Please Recycle

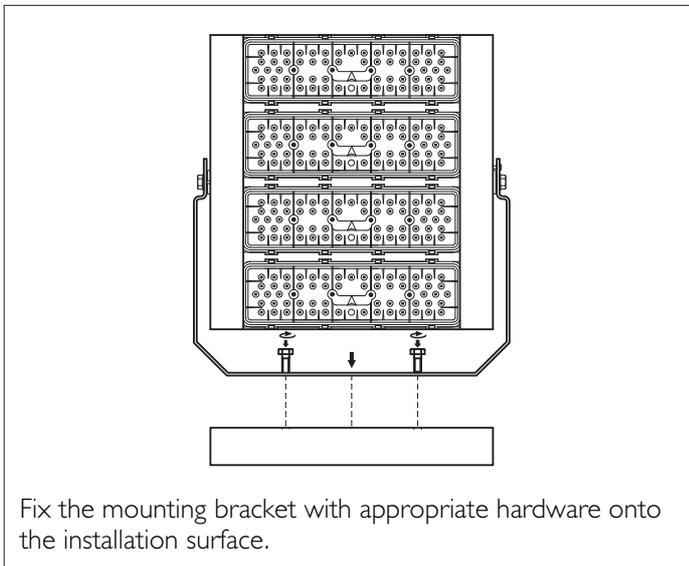
The electronic components of this product should not be disposed via the normal waste system. To prevent possible harm to the environment and Human health please ensure that the product is recycled in an environmentally sound manner. Please contact your local collection facilities for more details.

Customer Service

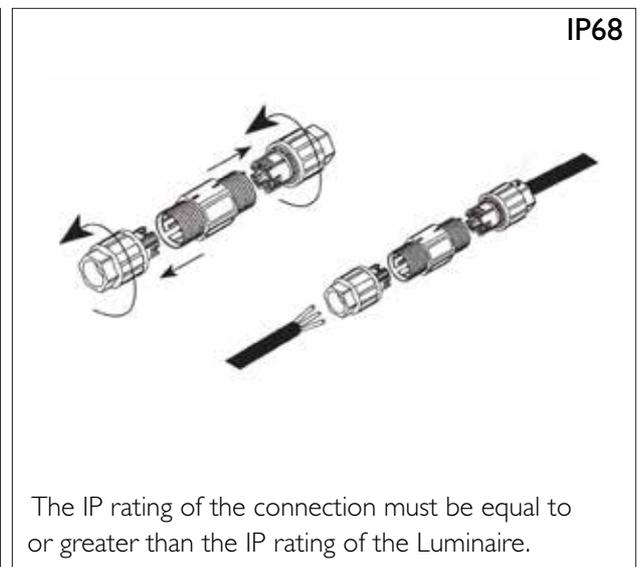
If Klite agrees to receive back some fixtures for Lab Testing and further analysis please ensure that the fixtures shipped should NOT BE DISASSEMBLED. Disconnect the power line and ship the product as is unless otherwise specified.

Please contact customer@klite.in for more information.

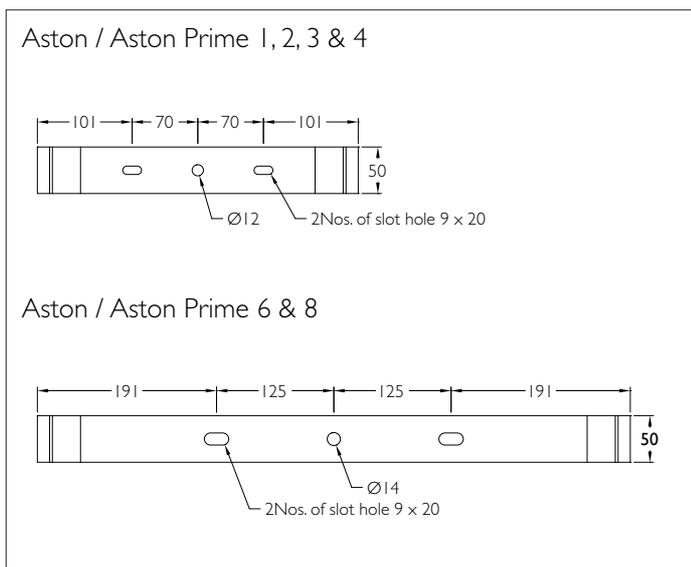
Installation



Connectors

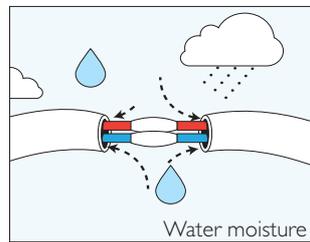


Mounting clamp details

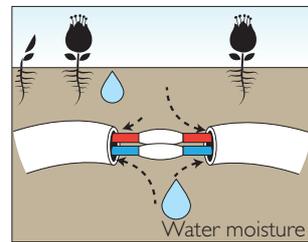


How to Install your outdoor luminaire correctly with connectors **K-LITE**

Water infiltration is one of the biggest reasons of damage to outdoors fixtures. The main reason being no proper water proof connectors being used during installation.



Exposed open Air

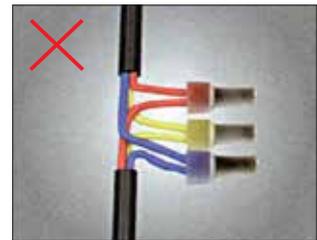
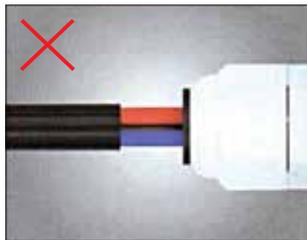


Underground

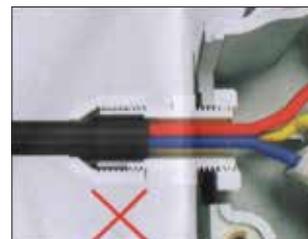
Why use the water - proof connector ?

When the fixture is turned on, the inside temperature will increase as the operating time goes. Conversely when the lamp stops working, the temperature will drop slowly. This phenomenon will cause "The siphon effect". Thermal expansion and contraction makes the inside and outside air pressure different. The air which includes water vapour will infiltrate to the housing through the wire entry as soon as the internal air pressure is lesser than the external pressure. The infiltration is caused by several incorrect connections like the picture below. This water vapour will then become droplets of water that will be seen inside the fixture.

Incorrect Installation

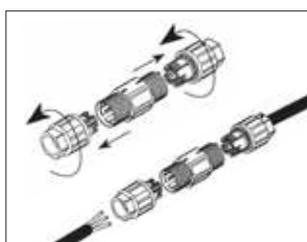


When the wire is connected into the fixture through cable gland, the cable must be more than 10mm inside. Please refer to the images below.



The best and easiest ways to prevent the water filtration are by IP rated connectors

We recommend using the water-proof connectors as shown below for all outdoor fixtures. Installers should prepare the appropriate main cables of suitable rating and diameter with the right IP rated connectors.



One input & two output

