K12 SQUARE

Remote 24VDC

installation instructions

INSTRUCTIONS PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS. READ ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION! Please read all instructions before installation.

- Keep these instructions for future reference.
- Must be installed by a qualified electrician in accordance with national and local standards. Designplan is not responsible for fixtures installed without regard to these standards.
- Unauthorized alterations or tampering of product voids warranty.
- The main power connection must be in accordance with local electrical codes.
- Suitable for OUTDOOR applications.

IP67

ATTENTION: **For In-Grade** - It is the contractor's responsibility to seal the conduit with "Great Stuff" aerosol seal that prevents water and moisture penetration for ultimate protection. Contractor **MUST** use gel-filled wire nuts.

Caution:

Fixture cord grips and water tight plugs are factory installed and tightened to assure designated IP rating of the fixture housing.
Cord grips and plugs can get loose in transit. Before installation please check all components.
It is the contractors responsibility to inspect and tighten if necessary all plugs and cord grips before final installation.

Maintenance

Scheduled maintenance must be carried out once a year on all lighting devices, regardless of appliance class and type of use. It must include the following operations:

- Periodically clean fixtures to remove dirt from gratings and screw heads.
- Check tightness of screws on various parts of the device.
- Check that all cable glands and cables are intact and tight. Check that the glass or plastic lens is intact, and replace it if broken or damaged.
- The internal components such as the ballast, driver, washers and screws must not show clear signs of oxidation or rust. Clear traces of rust and oxidation will indicate the presence of water inside the device.
- In the case of damage, the components must be replaced by original components or spare parts.

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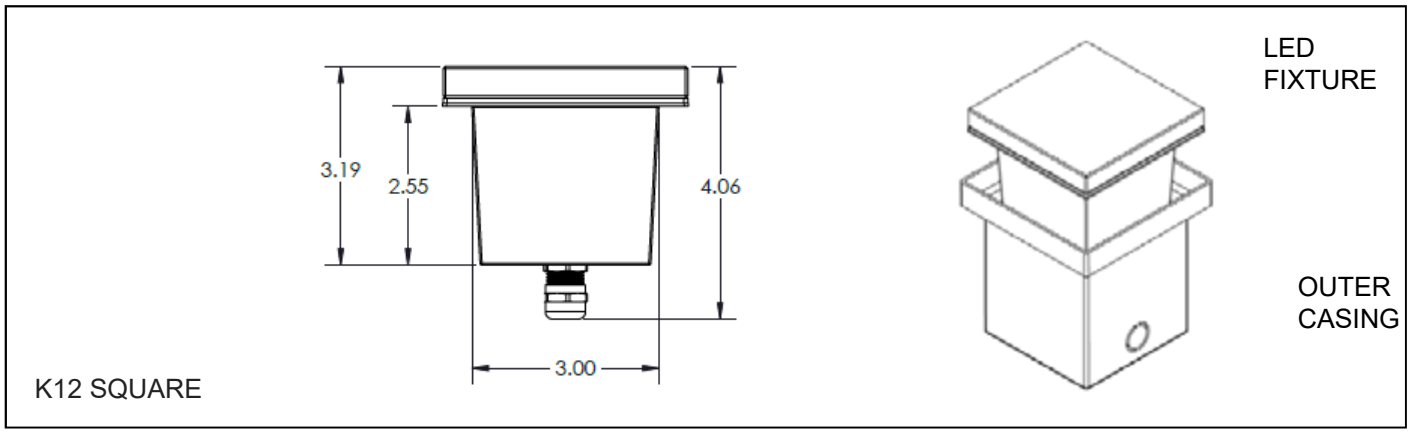
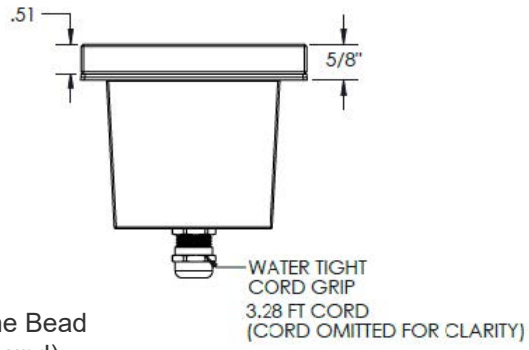
Fixture Installation

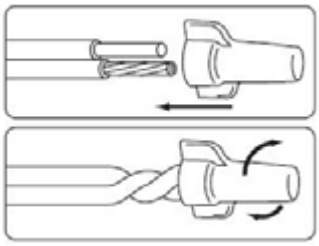


- Prepare designated area and install outer casing of the fixture.
- Provide proper drainage so water does not accumulate in outer casings.
- Make electrical connection and install fixture inside outer casing.
- Use silicone to seal around the fixture glass.

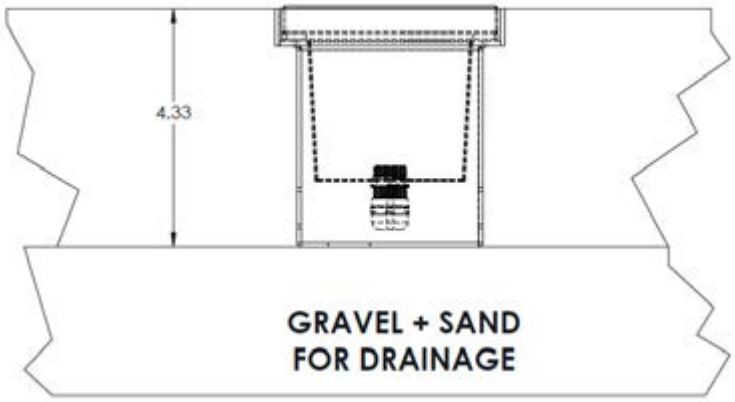


Silicone Bead
(all around)

Before installation please check all components for tightness.
It is the contractors responsibility to inspect and tighten if necessary all plugs and cord grips before final installation.



Use gel-filled waterproof wire-nuts for wire connections.



Use 8" of drainage gravel - check functionality: fill tube with water and verify full drainage within 30 min. If water remains, please utilize a different drainage system that functions properly. Contractor to seal the conduit with "Great Stuff" aerosol seal that prevents water and moisture penetration for ultimate protection (If applicable).

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Choice of installation location
The unit should be positioned so that when in use is not subject to direct radiation from the sun or other heat sources. High temperatures reduce the life and efficiency of the components or the LED module.

Note on corrosion protection
Install recessed in the ground so that water can flow away from the surface of the device. Both for the recessed directly in the ground, and for the use of a recessed housing, it is necessary to perform a further drainage. For example, using a bed of gravel.
For installation and maintenance - be especially careful not to damage the coating powder. Damage combined action of water could cause corrosion. Recommend mounting the device to the floor with a pH value between 5 and 8. In ambient environment the assembly and maintenance of all components requires the appropriate security measures. The chemicals damage the corrosion protection.

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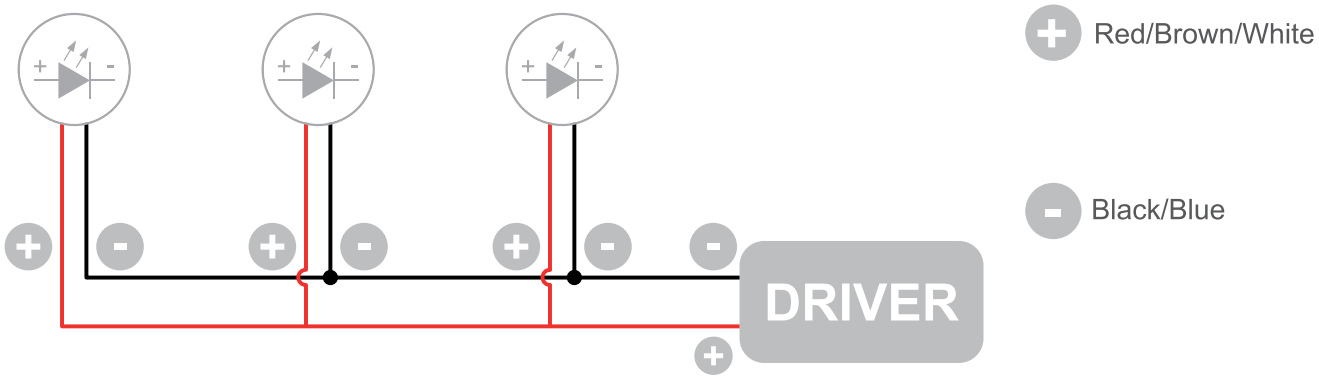
Wiring Diagram

24VDC
(Static White Parallel Connection)



The individual lamps must be connected in parallel. Only power up the system once all the lamps have being connected.

- Only power up the system once all the lamps are connected. Connecting an individual lamp to an active power supply may cause the lamp to break due to over-voltage.
- Lamps and power supply units must be installed in well-ventilated boxes or locations to allow a natural heat diffusion and avoid the devices overheating.
- On the power system, install a surge protection device to reduce the intensity of any voltage spikes to protect the lighting fixtures from the risk of damage.
- Fixture NOT suitable for covering with thermally insulating material.

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