Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com
9419 E US HWY 175, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364

EPL-24-50LED

These instructions contain important safety information, read and follow them carefully. Larson Electronics' will not accept responsibility for injury, damage, or loss which may occur due to incorrect installation, operation or maintenance.

INTRODUCTION

This Linear LED light is designed for illumination of industrial locations. It uses the latest in solid state lighting technology for long life, low maintenance, and high efficiency.

The unique optical design focuses light downward to where it is needed, giving improved efficiency over a conventional HID luminaire.

An internal, universal input, power-factor-corrected switch-mode supply allows it to be used from any nominal 100V-277V, 50/60Hz AC supply without any variation in light output.

NOTE: Save these instructions for future reference.

INSTALLATION

WARNINGS:

To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:

- Be certain electrical power if OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.

To avoid explosion:

- Make sure the supply voltage is within the luminaires' voltage rating.
- Ensure the marked T rating is less than the ignition temperature of the Hazardous Atmosphere.
- Do not operate in ambient temperatures above those indicated on the Luminaire nameplate.
- Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.
- Substitution of components may impair suitability for Class I, Division 2, Class II Division I.
- Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- Do not let the power cord touch hot surfaces.
- Do not mount near gas or electric heaters.
- Equipment should not be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

- The use of accessory equipment is not recommended by the manufacture and may cause an unsafe condition.
- Do not use this equipment for other than intended use.

The technical data indicated on the luminaire are to be observed.

- Changes to eh design and modifications of the luminaire are not permitted
- Only genuine replacement parts are to be used when unforeseen maintenance is required. Consult the factory at www.magnalight.com or an authorized representative.

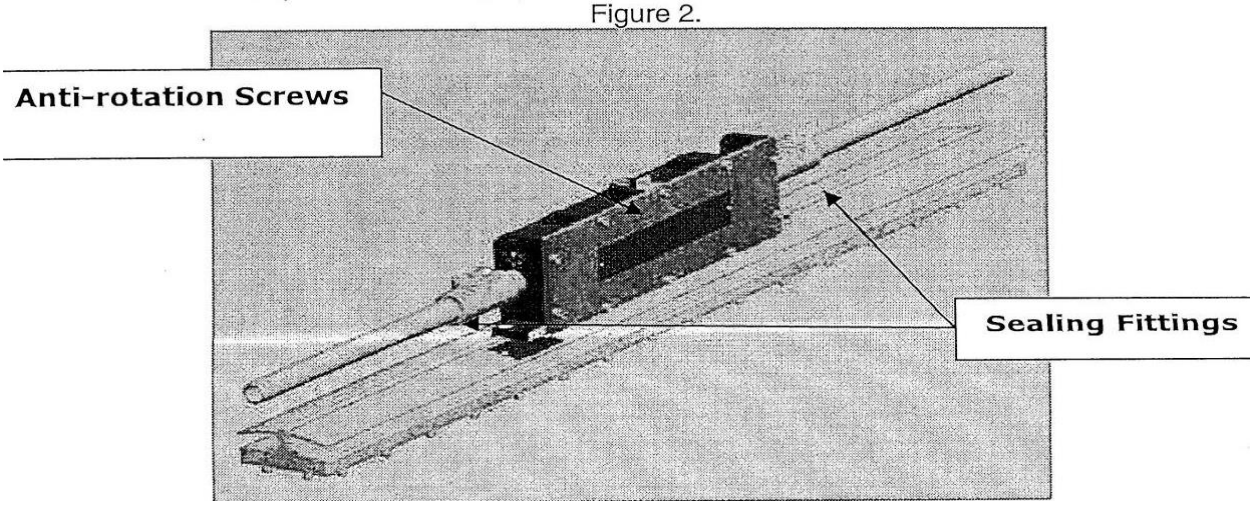
For supply connections use wire rated for at least 90°C.

CONDUIT THROUGH MOUNT

- For maximum long term reliability and light output, the light must be installed in free air.
    - The Linear fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. In this event, light output may be reduced.
- The Linear is threaded for 3/4" NPT, at the center and each end of the Power Supply Housing, in order to be assembled to conduit.
    - Attach conduit as shown in figure 2. Use conductive pipe sealant for all fittings and conduit.
    - **WARNING:** If there is moisture present, or chance of it, in the conduit system then necessary precautions should be taken by the installer to prevent the moisture from entering thru the cable or conduit and entering the fixture. Failure to comply with the above could void the warranty.
    - Fixture is factory wired for both pendant and through wiring. Remove the Power Supply Cover to attach incoming power to the white wire and black wire leads with wire nuts at the end of the fixture. Attach ground wire to the green ground lead supplied at the end of the fixture. Repeat this procedure for the opposite end. Ensure that the O-rings are properly seated in the grooves; reattach the cover using the screws previously removed. Tighten all screws to 15 in/lbs (1.75NewtonM's)
    - **Connect incoming power as follows:**
      Green to safety ground using green ground lead supplied at the end of the fixture
      Neutral to white
      Line to black
      Restore power and verify operation

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Figure 2.



CONDUIT PENDANT MOUNT

- For maximum long term reliability and light output, the light must be installed in free air.
    - The Linear fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. In this event, light output may be reduced.
- The Linear is threaded for 3/4" NPT, at the center and each end of the Power Supply Housing, in order to be assembled to conduit.
    - Attach conduit as shown in figure 3. Use conductive pipe sealant for all fittings and conduit.
    - **WARNING:** If there is moisture present, or chance of it, in the conduit system then necessary precautions should be taken by the installer to prevent the moisture from entering thru the cable or conduit and entering the fixture. Failure to comply with the above could void the warranty.
    - Fixture is factory wired for both pendant and through wiring. Remove the Power Supply Cover to attach incoming power to the white wire and black wire leads with wire nuts at the end of the fixture. Attach ground wire to the green ground lead supplied at the end of the fixture. Repeat this procedure for the opposite end. Ensure that the O-rings are properly seated in the grooves; reattach the cover using the screws previously removed. Tighten all screws to 15 in/lbs (1.75NewtonM's)
- Restore power and verify operation.

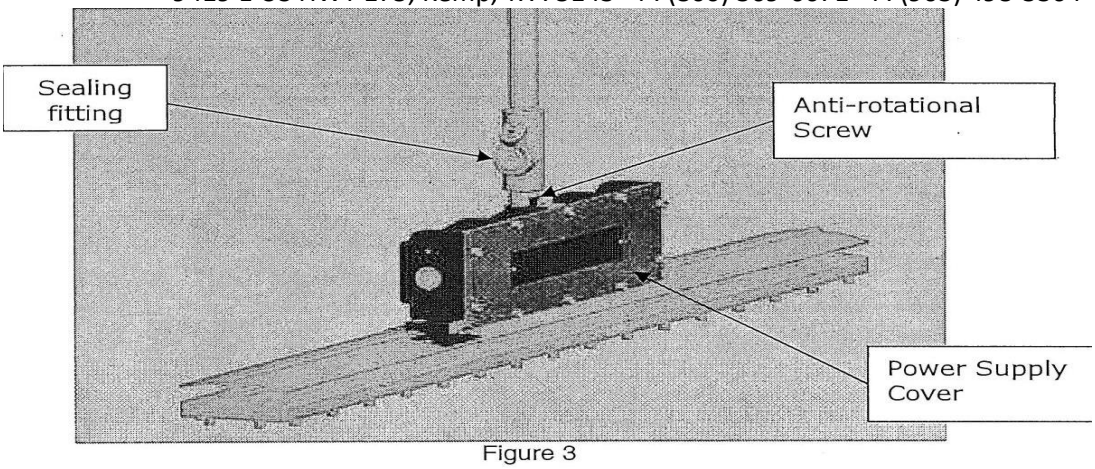


Figure 3

MAINTENANCE

- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- **Warning:** No user serviceable parts inside of fixture. Risk of electrical shock. Removal of the lens will void warranty.

1) We suggest performing visual, mechanical and electrical inspections on a regular basis. We suggest routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: recommended Practice for Electrical Equipment.
2) If the lens requires periodical cleaning to ensure continued photometric performance, clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap and water.
3) Inspect the outside of the Luminaire housing to ensure that they are free of any obstructions or contamination. Clean with a non-abrasive cloth if needed.
4) Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.
5) **NOTE:** Other wiring compartments are factory torqued and should not be tampered with during installation or maintenance.