Class 1 Division 1 Explosion Proof 100 Watt Ultraviolet LED Light Fixture - 365NM – Exp Plug Instruction Manual

The Larson Electronics Explosion Proof Ultraviolet light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaires. This fixture uses advanced LED light technology to produce ultraviolet light and is T6 rated for hazardous locations where UV lamps are used in paint and adhesive curing, food inspection or for non-destructive testing.

Lamp operates from 100-277 Volts AC, 50/60Hz. Check product for correct voltage before energizing!

100-277V AC Model

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

WARNING

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.

Ultraviolet light can cause damage to the human eye. Do not stare directly into the ultraviolet beam without wearing protective gear to protect eyes from long term damage.

To avoid electric shock:

- Be certain electrical power is 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.

For supply connections, use wire rated for at least 110°C
Recommended mounting height is 25-40 feet.

MOUNTING

This fixture offers an adjustable mounting system that allows this fixture to be mounted to any flat surface including walls and ceilings. A single ½-13 bolt is used to mount the fixture to the surface.

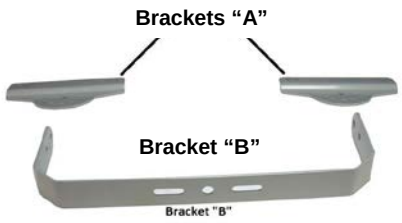
Check to ensure that all mounting hardware is included.

- 2 Small Brackets
- 1 Large Trunnion Bracket
- 8 Bolts
- 8 Lock-Washers
- 4 Nuts

See reference images on next page.

1. Using four bolts, washers and the four nuts provided, attach brackets "A" to both sides of bracket "B".
2. The LED fixture has 9 holes for a versatile mount option. Select the holes that you would like to use.

3. Brackets “A” will then be bolted to the LED fixture with the remaining bolts and washers.
4. The fixture is now ready for installation.




Trunnion Bracket

WIRING (see attached wiring diagram)

This unit comes preconfigured with the selected cord cap. Run cable from light and connect to matching receptacle outputting the correct voltage. Follow all applicable local, state, and National Electrical Code for the hazardous area!

WARNING: CHECK NAMEPLATE FOR PROPER VOLTAGE. DAMAGE FROM IMPROPER VOLTAGE WILL VOID WARRANTY.

RECEPTACLE/PLUG OPERATION

Electrical connection between receptacle and plug is accomplished after plug fully inserts into receptacle and rotated clockwise.

1. Lift receptacle door and locate polarization on mating plug pin and receptacle face. Insert plug straight all the way into receptacle until it cannot go further.
2. Rotate plug clockwise limit (37º), this closes internal contacts and completes circuit. This also mechanically locks plug into receptacle so it cannot be pulled out.
3. To remove plug, push plug inward and turn to counterclockwise, pull plug straight out.

MAINTENANCE

Caution: 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 electric shock. Removal of the lens will void the warranty.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend 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. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooking fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). 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.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.