

This Installation Instruction is specific to Engineered Products Company's General Purpose LED Vapor Tight Luminaires, Fixture Part Numbers 451A (4-Foot Luminaire) and 851A (8-Foot Luminaire), respectively, and must be wired directly to the incoming "Black and White" supply line conductors.

CAUTION



Risk of Electric Shock

- TO BE INSTALLED BY A QUALIFIED ELECTRICIAN
- WARNING: ELECTRICAL SHOCK HAZARD
- MAKE SURE THAT THE POWER IS "OFF" AT THE CIRCUIT BREAKER BEFORE PROCEEDING
- INSTALLATION OF THE LED VAPOR TIGHT LUMINAIRES SHOULD ONLY BE USED IN CONJUNCTION WITH ELECTRICAL WIRING SYSTEMS THAT ARE IN GOOD WORKING ORDER AND MEETS ALL APPLICABLE LOCAL ORDINANCES AND NATIONAL ELECTRICAL CODES.

1. Prior to installation, open the metal latches on each side of the luminaire. When all of the latches have been opened, lift and separate the gear tray assembly and attached diffuser, separating it from the luminaire housing. The gear tray assembly and diffuser is one (1) complete assembly. Do not attempt to separate the diffuser from the gear tray. Set aside the gear tray and diffuser assembly.
2. Locate the plastic bag in the bottom of the luminaire housing. It contains the mounting brackets, the plastic anchors (for mounting into sheetrock) and the wiring connectors for this luminaire. If you are mounting the luminaire to a different surface other than sheetrock, ensure you use the correct fasteners. See Figure 2.
3. When you have determined to mounting location, drill four (4) 3/32" (6mm) holes into the mounting surface. Then install the luminaire housing by pushing it up and into the stainless-steel mounting bracket until it "snaps" into place. When installing a 8-foot luminaire, the spacing for the mounting brackets should be in 2-foot increments over the entire length of the luminaire.
4. Install the luminaire housing into the pre-installed mounting brackets by pushing the luminaire housing upward and into each mounting bracket until it "snaps" into place. See Figure 3 and 4.
5. Invert the gear tray and diffuser assembly to show the wiring harness and LED Driver. Input voltage is available for either a 120-347 volt circuit. The incoming supply line conductors is fed through the knockout hole on either end of the gear tray.
6. After passing the incoming supply line conductors through the knockout hole, strip the insulation from the incoming black, white, and ground conductors exposing approximately 1/2" of bare copper. Connect the two (2) conductors "Hot" and "Neutral" by pushing them into the "yellow" luminaire disconnect and ensure the correct polarity — black to black and white to white. Use a wire nut (or other appropriate termination method) to connect the incoming "ground" conductor to the green "ground" bonding pigtail on the luminaire's gear tray.

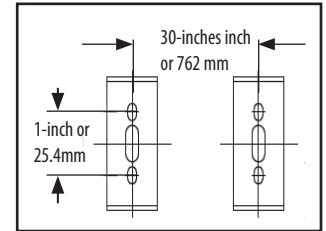


Figure 1. Installing the Mounting Brackets to Hang the Luminaire.

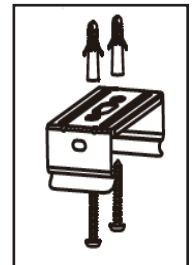


Figure 2. Mounting the LED Luminaire into a sheetrock ceiling or wall



Figure 3. Attaching the Mounting bracket to the Luminaire Housing.

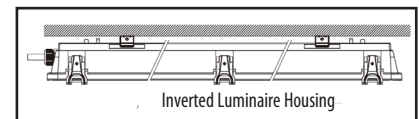


Figure 4. Hanging the Luminaire from the Ceiling.

Wiring Diagram:



Figure 5. Wiring Diagram

Wiring

Follow the wiring directions as in fig. 5.

1. Connect the black fixture lead to the LINE supply lead.
2. Connect the white fixture lead to the COMMON/NEUTRAL supply lead.

7. When you have completed the gear tray and attached diffuser assembly terminations to the incoming supply line conductors, you can use the mobile phone or PC platform SaaS system for intelligent lighting control.

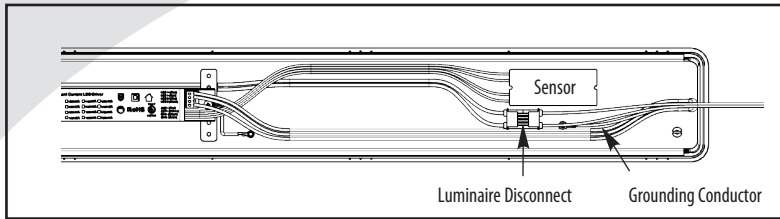


Figure 6. Connecting the incoming power to the luminaire

8. Position the now wired and terminated gear tray and diffuser assembly directly under the installed luminaire housing. Move the gear tray and diffuser assembly up and align it into place to fit exactly into the luminaire housing and ensure no wiring conductors “pinched” between the luminaire housing and the gear tray and diffuser assembly. Then secure this assembly and the luminaire housing together by closing the metal latches, starting from the center of the luminaire and outward.
9. Restore power to the Circuit Breaker.

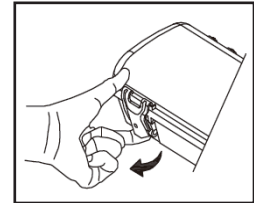


Figure 7A. Accessing the wiring compartment.

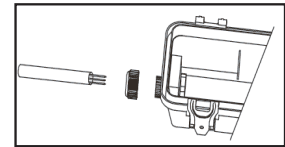


Figure 7B. Accessing the wiring compartment.