



## Installation Instructions

| Revision Date | Change description                                     | Authority  |
|---------------|--|------------|
| 10Jun2014     | Initial Release as RevB                                | P. Couture |
| 23Feb2015     | Rev C, Revised Warnings.                               | M.Teixeira |
| 11May2015     | Rev D, Combined with other configurations instructions | M.Teixeira |

Low-voltage luminaire, Model(s) ILTaa-BAO-Wbb-cE, where aa is length in inches (12-70), BAO is brite anodized finish, Wbb or RGB for color and temperature ( RGB, W for White, 27 for 2700K to 65 for 6500K. Example W50 for White 5000K), c is configuration (l=left; c=center; r=right), E is for mounting method (E= through extrusion, A= angled fixed bracket, H=adjustable rotating bracket)

- **WARNING** – Risk of fire or electric shock. LED Luminaire installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of luminaire installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- **WARNING** – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- **WARNING** – To reduce the risk of fire, electrical shock or injury, observe the following.
  - Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
  - Before installing, servicing or cleaning unit, switch power off at the service panel and follow the appropriate lock out / tag out safety procedures
- **FOR YOUR SAFETY** - Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installations described, gloves safety glasses or goggles should be worn.

### PREPARE ELECTRICAL WIRING:

- A. **Electrical Requirements** – This fixture must be powered by a UL Listed, Class 2, 60W, 24VDC power supply, connected to a properly grounded branch circuit, protected by a circuit breaker.
- B. **Grounding Instructions** – This power supply must be connected to a grounded metal, permanent wiring system.
- C. **Strain Relief Requirements** – This fixture is equipped with a cord but no attachment plug. Therefore, the installer must include a strain relief sized properly for the cable and opening in the junction box it is attaching to. An example is the Heyco Products strain relief, part number 1150, or equivalent if routing wire into a junction box or through an access hole.

### TOOLS NEEDED:

- Wire connectors



- Wire cutters
- Gloves
- Tape measure
- Wire stripper
- Safety glasses
- Center punch
- Power drill
- Screwdriver
- #6 x 1 1/2" self-drilling screws (#6x1" For H and A Configurations)

**Prepare for Mounting Light Fixture to Mullion using #6 x 1 1/2" self-drilling screws**  
(Note: Does not apply to 'H' Configurations, If using H, skip to 'H' Configuration on page 5)

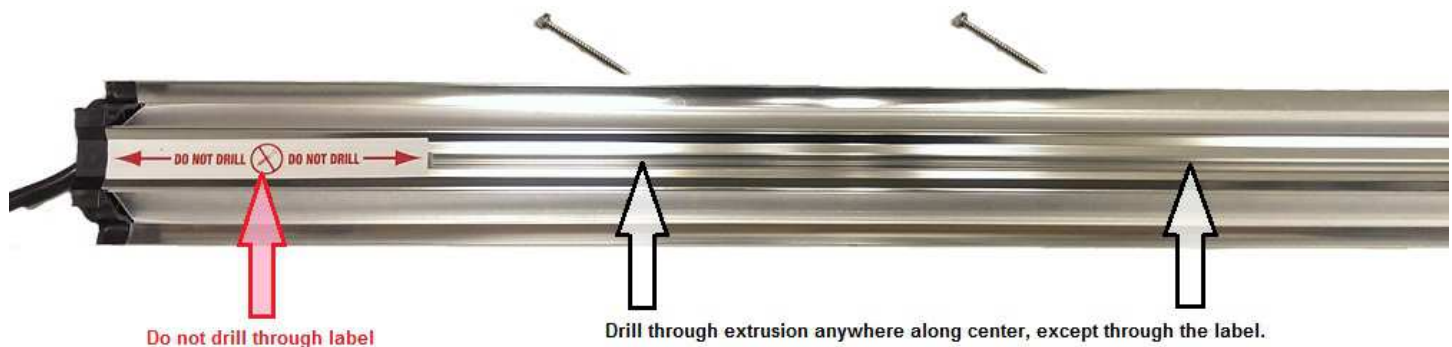
**CAUTION** – Check power is off to the mullion lighting system.

- Measure the total length of the mullion to determine which model/length unit to install. Center the fixture vertically on the mullion. Mark the top and bottom of the fixture.
- Measure the total width of the mullion and mark a vertical line, 1/2 the total width near the top, 6" from the top, 6" from the bottom.
- Mark a horizontal line 6" down from the top of the fixture. Mark a horizontal line 6" from the bottom of the fixture.

**WARNING** – Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Luminaire, Check for enclosed wiring and components.

Do not drill through "DO NOT DRILL" label.

- (If using 'A' Configuration, skip to Alternate Mounting Method, Method 2 on page 3) Use power drill and screw bit and install 3, #6 x 1 1/2" self-drilling screws through the center indent of the fixture. Install 3 screws, one 6" from top, one 6" from bottom and one in the center if necessary.



Picture 1



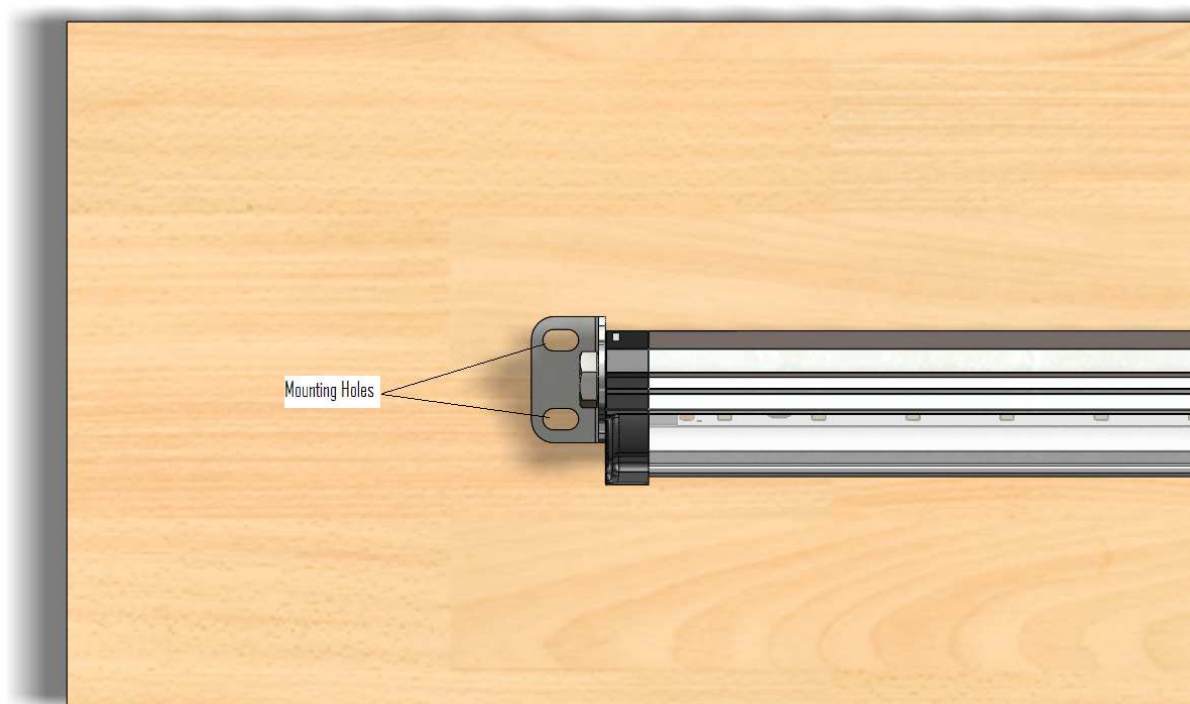
## Alternate Mounting Method

### Method 1. High quality VHB-type foam tape may also be used to mount the fixtures.

- Thoroughly clean the back of the fixture and the mullion surface.
- Using 1/2"-3/4" wide VHB tape, apply tape to back surface of fixture to within 3" of top and bottom of fixture.
- Dry fit fixture to mullion. Once fit is confirmed, peel release paper, align fixture and press against mullion for entire length of fixture.

### Method 2. 'A' Configuration with mounting brackets.

- Mark the mounting locations of the end-brackets of the fixture per Figure 1. Pre-drill pilot hole at mounting locations. Hold fixture in place and mount using #6x1" screws (use appropriate screws for material-*ie.* sheet metal) See Picture 2.



Picture 2



## Connect Wiring from Fixture

**CAUTION** – Ensure that all connection points are sealed for damp location using the appropriate method per the NEC or local electrical code.

- Cut the fixture cable to the appropriate length to terminate to DC power at the Power Supply.
- Where necessary, insert the proper strain relief on the cable and secure to hole in mullion or junction box.
- Strip the cable jacket and then strip the individual two wires. Attach the Black wire to the Black wire of the power supply using twist-on wire connector. Attach the Red wire to the Red wire of the power supply using twist-on wire connector.

## Connect Wiring to Power Supply

**CAUTION** – Wiring to high voltage side of power supply to be accomplished by certified electrician in accordance with NEC or local electrical code.

## 'H' Configuration Mounting Instructions

(Note: Skip to Trouble shooting if not using 'H' Configuration)

Prepare for Mounting Light Fixture to Canopy (top, inside horizontal mounting surface)

**CAUTION** – Check power is off to the case lighting system.

- Measure the total length of the mounting surface to determine which model/length unit to install.

## Connect Wiring to Power Supply

**CAUTION** – Wiring to high voltage side of power supply to be accomplished by certified electrician in accordance with NEC or local electrical code.

- Mount the LED power supply in the case.
- Connect the AC input to power supply to the AC feed according to local code.
- Route the cable from the LED CaseLight unit to the power supply just installed. Connect the DC output cable from the power supply to the fixture(s) per local code. Strip the cable jacket and then strip the individual two wires. Attach the Black wire to the Black wire of the power supply using twist-on wire connector. Attach the Red wire to the Red wire of the power supply using twist-on wire connector.

**CAUTION** – Ensure that all connection points are sealed for damp location using the appropriate method per the NEC or local electrical code.

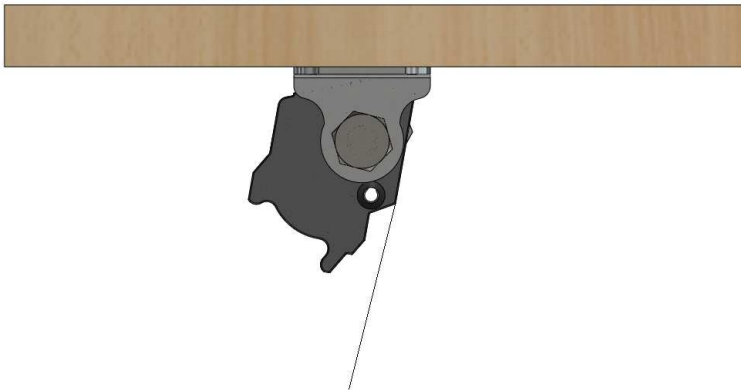
- Reassemble the reflector or other case components and prepare to mount LED fixture.

**CAUTION** – Prior to drilling or installing screws, make sure that there are no existing components inside the canopy in the areas to be drilled.

- Center the fixture horizontally on the canopy. Mark the mounting locations of the end-brackets of the fixture per Picture 2 above. Pre-drill pilot hole at mounting locations. Hold fixture in place and mount using #6x1” screws (use appropriate screws for material-ie. sheet metal)



- Rotate the fixture to align the light pattern for best preferred light distribution by loosening hex bolt on end of fixture and then re-tightening after completing alignment. See Picture 3.
- Turn power on and test.



*Picture 3: 'H' Configuration Only*

## **Trouble-shooting and Maintenance Instructions**

**CAUTION** – Turn off power to the mullion lighting system before removing any covers.

The following items can be replaced in the field:

- UL Listed 60W Power Supplies

## **TROUBLE-SHOOTING**

- If an entire strip of LEDs are not lighted (one of the two strips for a center unit or the one strip of an end unit), either there is a wiring problem to that strip or the LED driver is defective.
- Check wiring connections to the unit at the driver. If the connections look OK, proceed to “Replacement of LED Driver”.
- If both LED strips are not lighted on a center unit or the single strip isn’t lighted on an end-unit, it is possible that power to the unit has been interrupted. Confirm that the cable to the unit is wired properly and securely to the DC power source.



### Fixture Cleaning Instructions

- The lens and aluminum housing should be cleaned periodically with a mild liquid dish detergent.
- Do not use chemical cleaners on the lens.
- Keep the outside clean. Wipe with a clean cloth lightly dampened with mild liquid dish detergent. Dry with a clean, soft cloth. Do not use scouring pads, powdered cleaners, bleach or cleaners containing bleach because these products can scratch and damage the finish.

### Door Configurations

A UL Listed 60W, 24VDC power supply can power up to 3 Center units. Here are three typical door configurations and the number of power supplies required for each.

| # of Doors | # of Center Units | # of End Units | # of Power Supplies | Notes  |
|------------|-------------------|----------------|---------------------|--|
| 3          | 2                 | 2              | 1                   |  |
| 4          | 3                 | 2              | 2                   | 2 Centers-1 End; 1 Center-1 End  |
| 5          | 4                 | 2              | 2                   | 2 Centers-1 End per P.S.   |
| 6          | 5                 | 2              | 3                   | 2 Centers-1 End per P.S. It is possible to wire 2 Centers and 2 Ends on 1 P.S. |

### For 'H' Configurations:

A UL listed 60W, 24VDC power supply can power up to 2 – 70” fixtures. A 40W, 24VDC power supply can power up to 2 – 48” fixtures.

**End of Procedure**