



Installation Instructions

Revision Date	Change description	Authority
10Jun2014	Initial Release as RevB	P. Couture

Note – Wiring and mounting instructions are applicable for both center and end units

Model Numbers – Example ILT60-BAO-W50CE (Vertical Mount)

ILTAA- (AA=Length-inches)	BAO- (Brite Anodize finish)	WBB (BB=color temp)	CE (C=Configuration; E=External Power Supply)
ILT48 (48")	“	35 (3500K)	CE (Center, External Power Supply)
ILT60 (60")	“	40 (4000K)	LE (Left, External Power Supply)
ILT70 (70")	“	50 (5000K)	RE (Right, External Power Supply)

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- A. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- B. Before installing, servicing or cleaning unit, switch power off at the service panel and follow 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

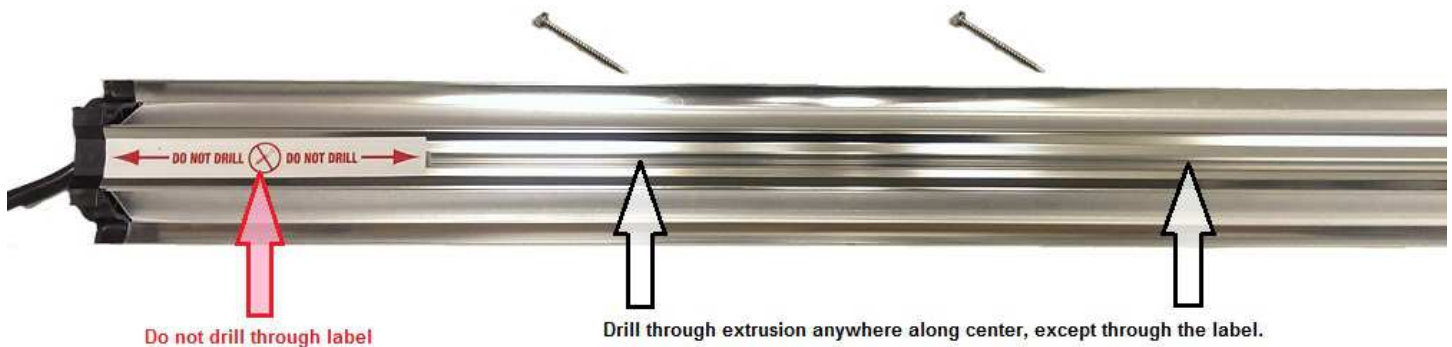
Prepare for Mounting Light Fixture to Mullion – using #6 x 1 1/2" self-drilling screws

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

- 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.

CAUTION – Prior to installing screws, make sure that there are no existing components inside the mullion in the areas to be drilled. Do not drill through "DO NOT DRILL" label.

- 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.





Alternate Mounting Method

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.

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.

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:

- 60W Power Supplies
- LED flex strips (access to end of unit required)

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.



Replacement of LED Flex Strip

- Remove the 2, #4 screws securing the end-cap where the cable exits the unit.
- Slide out the lens on the side of the defective LED flex strip.
- Cut the two wires from the defective LED flex strip about 6" from the end of the strip.
- Remove the defective LED flex strip by peeling away from the housing.
- Install the new LED flex strip by peeling the release tape and sticking to the housing. Start at wired end positioning start of strip about 1" from end of housing. Continue down the full strip, pressing in between components to insure a good bond.
- Connect Red and Black wires to the wires previously cut. Attach using twist on wire nuts.
- Push the wire nuts inside extrusion.
- Slide in lens which was previously removed. Re-attach end-caps with 2 #4-40 screws previously removed.

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 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.



End of Procedure

ILT LED Lighting Division Product Offering



CaseLight LED Cooler Lights for Refrigerated Display Cases

Rugged, high efficiency LED-based display case lighting for Grocery and Convenience Store cooler, refrigerated, freezer, and heated food display cases.

CaseLight is DLC Listed!

[Sylvania LEDStixx & GE Immersion Cross References](#)



CanopyLight LED Canopy Lights

Replace Metal Halide Light Fixtures in Gasoline Pump Canopies at Gas Stations with LED Canopy Lights - Cost-Effective (**LOWEST INSTALLED COST!**), Energy Efficient, Bright Light, Long Lifetime. **CanopyLight is DLC Listed!**

[Watch the Installation Video](#)



Horizontal CaseLight Open Case LED Lighting

Horizontal CaseLight LED Lighting System replaces fluorescent light fixtures in open, reach-in, multi-deck, dairy, produce and prepared food display cases.

Horizontal CaseLight is DLC Listed!

[Sylvania LEDStixx & GE Immersion Cross References](#)



ILT SoffitLight LED Lights

LED Soffit Light Retrofit Kit - Replace Metal Halide Light Fixtures in Many Types of Soffit Lighting Applications - Cost-Effective, Energy Efficient, Bright Light, Long Lifetime.

SoffitLight is DLC Listed!

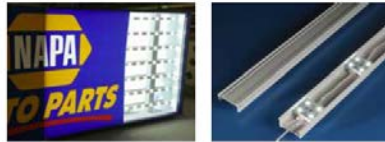


ILT ShelfLight Open Case Under-Shelf LED Retrofit System

ShelfLight replaces fluorescent light fixtures under shelves in open, reach-in, multi-deck, dairy, produce and prepared food display cases. ShelfLight is the perfect complementary product to ILT's Horizontal CaseLight LED Lighting fixtures.

ShelfLight is DLC Listed!

[Sylvania LEDStixx & GE Immersion Cross References](#)



New ILT LED Sign Retrofit Rail System

Simple, easy system to retrofit fluorescent or neon lit signs with LED Modules.

Applications include Single and Double-Faced Cabinets, Fuel Price Signs, Fuel Pump Canopy Fascia, Logo Signs, Pylon Signs and Large Channel Letters.



LED Architectural Lighting

Ideal for architectural and landscape lighting - cove lighting, indirect accent decorative lighting in commercial and residential applications, etc.



Jewelry Case LED Lighting

ILT LED modules (LEFT) vs Fluorescent Lighting (RIGHT).

Please contact [Pete Couture, Director, LED Lighting Products](#), for product specifications and pricing. (Special Order - Minimum Order Quantity must be met.)



Store Window Display Case LED Lighting

Please contact [Pete Couture, Director, LED Lighting Products](#), for product specifications and pricing. (Special Order - Minimum Order Quantity must be met.)



ILT10 & ILT10C Hand-Held Lux/Foot-Candle Light Meters

Need a Light Meter? ILT's most economical light measurement system. The ILT10 reads out in Lux or Foot Candles. Designed for use in a wide variety of applications needing a quick, accurate light measurement. ILT10C comes with NIST traceable, ISO 17025 accredited calibration. **Purchase in ILT's online store!**