

IMPORTANT SAFETY WARNINGS



THE INSTALLATION MUST ONLY BE PERFORMED BY A LICENSED ELECTRICIAN. TO PREVENT DEATH, INJURY OR DAMAGE TO PROPERTY, THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE TO NATIONAL ELECTRIC CODE (NFPA70) IN THE US OR CANADIAN ELECTRICAL CODE (CSA22.1) IN CANADA.

L'INSTALLATION NE DOIT ÊTRE EFFECTUÉE QUE PAR UN ÉLECTRICIEN AGRÉÉ. POUR PRÉVENIR LES DÉCÈS, LES BLESSURES OU LES DOMMAGES MATÉRIELS, CE PRODUIT DOIT ÊTRE INSTALLÉ CONFORMÉMENT AU CODE NATIONAL DE L'ÉLECTRICITÉ (NFPA70) AUX USA OU CODE CANADIEN DE L'ÉLECTRICITÉ (CSA22.1) AU CANADA.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.

CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA DÉRIVATION SONT ADÉQUATS.

SUITABLE FOR DAMP LOCATIONS. SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 45°C (113°F).

CONVIENT AUX EMPLACEMENTS HUMIDES. PEUT ÊTRE UTILISÉ À UNE TEMPÉRATURE AMBIANTE N'EXCÉDANT PAS 45°C (113°F).

CAUTION – RISK OF ELECTRIC SHOCK. LUMINAIRE WIRING AND ELECTRICAL PARTS MAY BE DAMAGED WHEN DRILLING FOR INSTALLATION OF LED RETROFIT KIT. CHECK ENCLOSED WIRING AND COMPONENTS.

ATTENTION – RISQUE DE FEU OU LECTROCUTION. LES PI CES ET CÂBLES LECTRIQUES RISQUENT D' TRE ENDOMMAG S LORS DU PERÇAGE DES TROUS POUR L'INSTALLATION DU LUMINAIRE DEL. VEUILLEZ Y RIFIER SI DES CÂBLES ET COMPOSANTES SE TROUVENT DERRI RE LA PAROI AVANT DE PERCER.

CAUTION – RISK OF FIRE. MIN 75°C (167°F) SUPPLY CONDUCTORS.

ATTENTION – RISQUE D'INCENDIE. LES FILS D'ALIMENTATION 75°C (167°F) MIN.

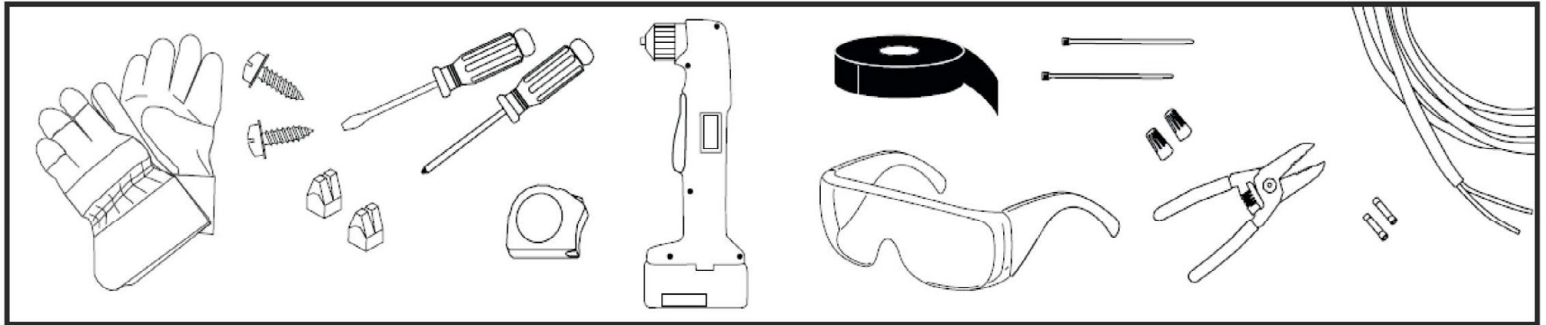
- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.
- Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- Disconnect or turn off power before installation or servicing the luminaire.
- Do not exceed maximum wattage marked on the label.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.
- Verify that supply voltage is correct by comparing it with the label information.
- Wiring connections should be capped with UL-approved wire connectors.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged during or after assembly should be replaced.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light

output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry.

- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance
- This product is intended for use inside commercial refrigeration cases only.
- Power supply must work with AC 100-277VAC 50/60Hz and be connected to a properly grounded branch circuit. Do not overload driver.
- Ensure that all connection points are sealed for damp locations using the appropriate method per NEC or local electrical codes.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation.
- Do not cut or remove existing primary case wiring. Luminaire wiring and electrical parts may be damaged when drilling for installation.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- **WARNING - Risk of fire or electric shock.** Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

Specifications and dimensions subject to change without notice.

INSTALLATION INSTRUCTIONS



Recommended Tools and Accessories

- Gloves and safety glasses
- Flat and Phillips head screwdrivers
- 3/4" or 1" (19 or 25mm) self-drilling/self-tapping #6 or #8 screws
- Angle drill (standard cordless drills will not work)
- Measuring tape
- Electrical tape
- Wire strippers
- Twist-on or push-in UL Listed wire connectors, tie-wraps, and 18 gauge wire.

Remove The Existing Light Components

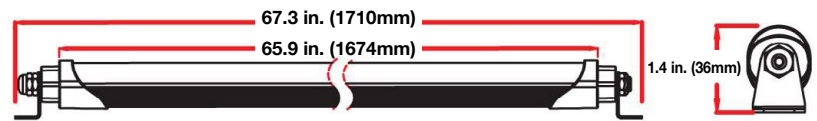
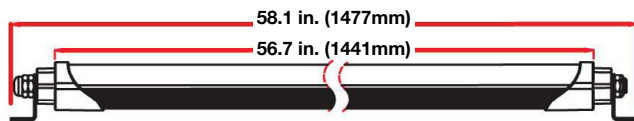
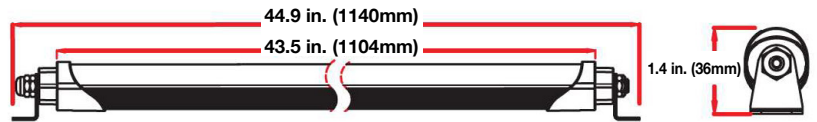
- EcoStar5 LED refrigeration light system works with an internal driver. Please remove the existing ballast. The internal driver is an insulated Class 2 driver. This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including any interference that may cause undesired operation.
- EcoStar5 LED refrigeration light system is for retrofit only. Refer to the manufacturing manual for the refrigeration case to identify lighting control circuits. Ensure that the power is switched off at the service panel for the lighting circuit. If a lighting power switch is not provided in the refrigeration case, power removal can be performed at the main breaker panel.
- Locate existing lighting components including ballast, lampholders, lamps, and lamp guards in the refrigeration case for removal. Please refer to refrigeration manual for any questions dealing with component locations.
- Remove lamps, lampholders, and lamp guards. Cut the wiring, making the cut as close to the lampholder as possible. Do not remove wiring from case as it will be utilized to attach the LED lighting. Dispose of components per Federal and Local regulation.
- Locate existing ballast within the system. The most common location is in the mullion or the electrical compartment of the refrigerated case.
- Disconnect ballast input and output connectors. Cut the ballast connector wires nearest to the connector and remove connector. Unscrew the mounting screws that attach the ballast and remove the ballast. Dispose of the ballast according to Federal and Local Regulations.

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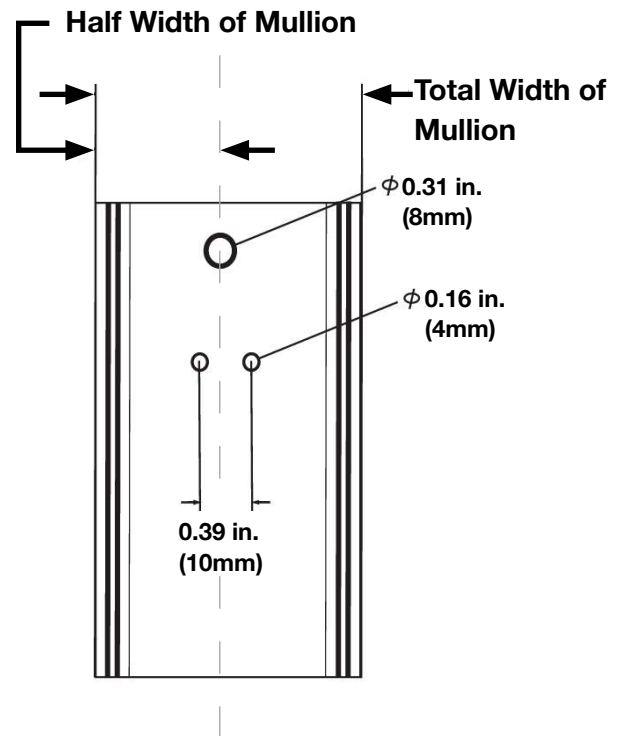
INSTALLATION INSTRUCTIONS

Prepare For Installation

- Prepare power drill, 7/64" (2.8mm) drill bit and 5/32" - 3/4" self-drilling screw.
- Place proper length LED light in the location where the fluorescent lamp was formerly located.



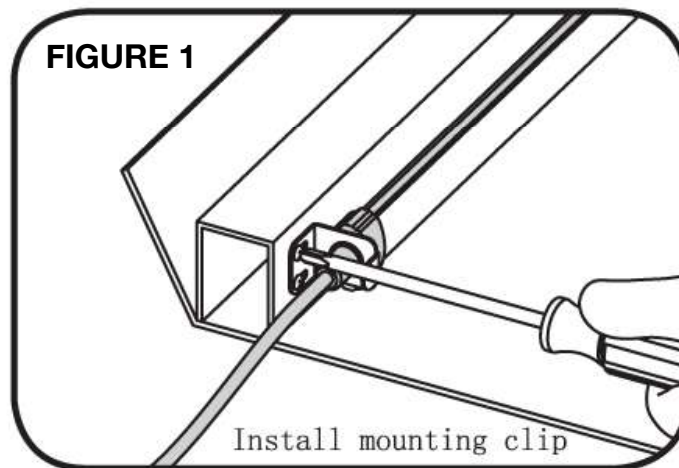
- Measure the total width of the mullion and mark a vertical line half the total width near the top and bottom of the mullion.
- Center the center punch directly at the intersection of the horizontal lines and the vertical line (top and bottom) and establish a dimple.
- Using a power drill with a 7/64" drill bit, drill two or three holes on the ceiling (or the frame) in the refrigerated case.
- Using a 5/32" - 3/4" self drilling screw, attach the mounting bracket into two or three of the mounting holes located on the ceiling (of the frame).



INSTALLATION INSTRUCTIONS

Prepare For Installation

- Thread LED light wire through the large hole in selected mounting clip and slide over the end of the LED light.
- Slide second mounting clip over the opposite end of the light.
- With mounting clips still attached, place LED light flush against mounting surface. Position it as far forward as possible while still concealing LED light from view.
- Install mounting clips to panel with two #6 self-drilling pan headed screws per mounting clip (Figure 1).
- With an adjustable wrench, tighten nuts on the end of the fixture to adjust the position of the LED light.



Cleaning Instructions

- The LED light may be dusted as needed with a dry, clean soft cloth.
- Do not use chemical cleaners on the LED light system.
- Do not wipe with a soiled cloth or wet towel as these may leave a residue that can damage the finish.
- Do not use scouring pads, powdered cleaning products, bleach or a cleaner containing bleach as these products can scratch and damage the finish.