

### SAFETY WARNINGS

### IMPORTANT SAFETY INFORMATION



**DANGER**

**Risk of shock.** Disconnect power before installation.  
DANGER- RISQUE DE CHOC- COUPER L'ALIMENTATION AVANT L'INSTALLATION



**WARNING**

**Risk of fire or electric shock.** LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Product must be installed in accordance with NEC or your local electrical code. If you are not familiar with these codes and requirements, contact a qualified electrician.  
ATTENTION- Risque d'incendie ou de choc électrique. L'installation du kit upgrade LED exige la connaissance des systèmes électriques pour luminaires. Si non qualifié, ne tentez pas d'installation. Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n'êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.



**WARNING**

**Risk of fire or electric shock.** To prevent wiring damage or abrasion, do not expose wires to the edge of sheet metal or any other sharp objects.  
ATTENTION- Pour éviter les dégâts de câblage par l'abrasion, ne pas mettre en contact les fils électriques avec des bords de tôle ou d'autres objets pointus.



**WARNING**

**Risk of fire or electric shock.** Check the existing wiring for damage before installing upgrade kit. Do not install if existing wires are damaged.  
ATTENTION- Risque d'incendie ou de choc électrique. Vérifier si le câblage existant n'est pas endommagé avant l'installation du kit upgrade LED. Ne pas installer si des fils sont endommagés.



**WARNING**

**Risk of fire or electric shock.** Luminaire wiring and electrical parts may be damaged when drilling for installation of the LED upgrade kit. Check for enclosed wiring and components.  
ATTENTION- Risque d'incendie ou de choc électrique. Câblage électriques peuvent être endommagés lors du perçage pour l'installation du kit upgrade LED. Vérifier les fils et composants.

### SUITABLE FOR DAMP LOCATIONS.

NOT FOR USE WITH PHASE CUT DIMMERS.

CONVIENT AUX EMPLACEMENTS HUMIDES.

NE PAS UTILISER AVEC GRADATEUR À COUPURE DE PHASE



**WARNING**

**Risk of fire or electric shock.** Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings.  
ATTENTION- Risque d'incendie ou de choc électrique. Installez ce kit seulement dans les luminaires qui ont les caractéristiques de construction et les dimensions dans les photographies ou les dessins de la page suivante.

**Only the holes indicated in the photographs or drawings may be made or altered as a result of the kit installation. Do not leave any other holes open in a wiring enclosure or electrical component.**

Seulement les trous indiqués dans les photographies ou les dessins peuvent être faits ou altérés pour l'installation du kit upgrade LED. Ne laissez aucun trou ouvert dans le compartiment électrique.

### NOTE

**THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.**

**LE NÉCESSAIRE DE MODERNISATION EST ACCEPTÉ À TITRE DE COMPOSANT D'UN LUMINAIRE LORSQUE LA PERTINENCE DE LA COMBINAISON DOIT ÊTRE DÉTERMINÉE PAR LES AUTORITÉS COMPÉTENTES.**

### Fluorescent Luminaire Types - Minimum Dimensions

- 2x4 Troffers: Lensed or parabolic, Type IC (Insulated Ceiling) or Type Non-IC, 40°C max ambient, requires minimum 3" depth.
- 2x4 à lentille ou parabolique, Type IC ou de Type NON-IC, température ambiante max. de 40° C, profondeur min. de 3"
- 2x2 Troffers: Lensed or parabolic, Type IC (Insulated Ceiling) or Type Non-IC, 40°C max ambient, requires minimum 3" depth.
- 2x2 à lentille ou parabolique, Type IC ou de Type NON-IC, température ambiante max. de 40° C, profondeur min. de 3"
- 1x4 Troffers: Lensed or parabolic, Type IC (Insulated Ceiling) or Type Non-IC, 40°C max ambient, requires minimum 4.25" depth.
- 1x4 à lentille ou parabolique, Type IC ou de Type NON-IC, température ambiante max. de 40° C, profondeur min. de 4.25"

### Supplied Components:

- (1) Reflector housing with installed driver and module
- (1) Fixture controllers if applicable
- (2) Lens
- (3) Suspension cables with mounting screws
- (2) Leveler brackets
- (2) Gap Brackets for optional use

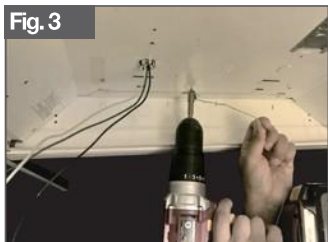
### INSTALLATION



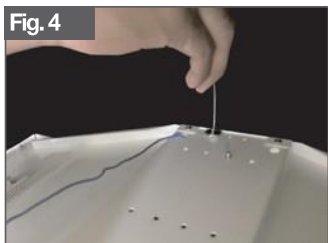
**Step 1** : Disconnect power to the fixture. Remove existing components from inside the fixture, including the ballast, lamp holders, and lamp holder leads.



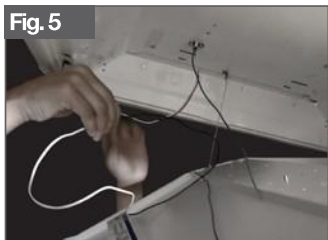
**Step 2** : Drill 2 holes for #8 screw into inside pan of the fixture. Holes should be on the center axis 2" from the outer edge of the housing to mount the suspension cable.



**Step 3** : Mount the two suspension cables with the 90° Eyelets crimped on a steel cable at inside of the fixture.



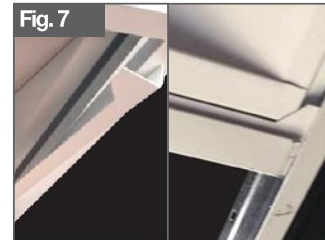
**Step 4** : Insert the steel cables through the cable grips that are installed on the reflector (driver side) and then tighten the cables, so the reflector is in position to connect power. The reflector panel is grounded to the fixture housing by the steel cable assemblies.



**Step 5** : Connect the power leads.



**Step 6** : Pull the steel cables down by holding the reflector so that the kit is flush with the fixture.



**Step 7** : Install the two leveler brackets at each end between the grid and the fixture to ensure that the fixture remains level. Optional: Install gap brackets between the grid and the fixture in the long direction to cover the openings.



**Step 8** : Tuck the remaining steel cable through holes provided so the cables are hidden.



**Step 9** : Bend the flat lens into position to fit the lens channel.



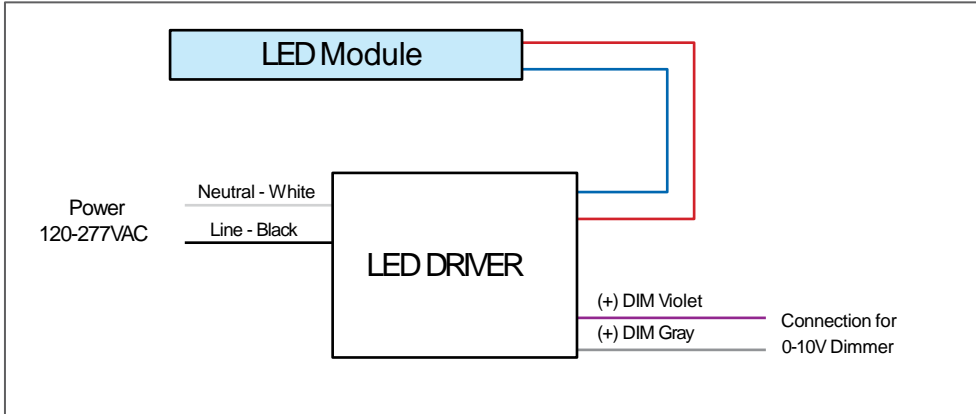
**Step 10** : Power on the fixture

**NOTE** To lower the reflector for any maintenance – pull down the tiny knob on the wire grips so the steel cable will release the reflector

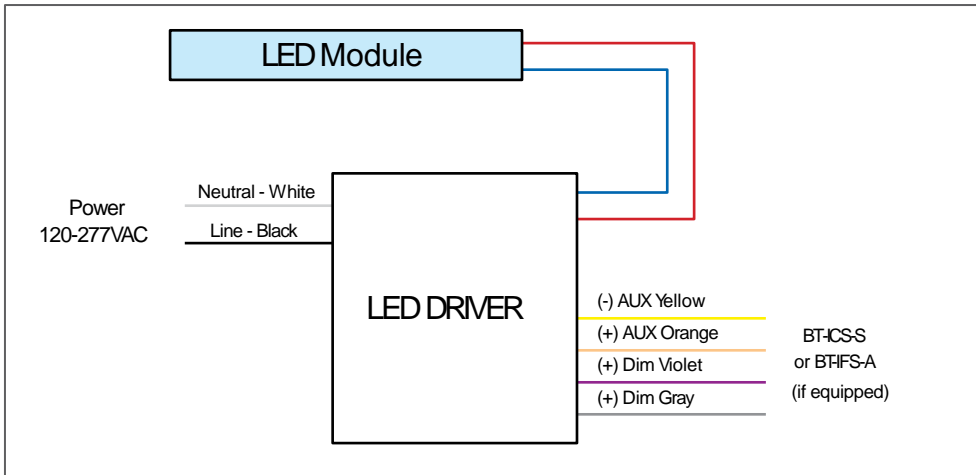
### INSTALLATION

#### Wiring Diagrams

Retrofit Kit with 0-10V Dimming connection



Retrofit Kit with Bluetooth Controls



**READ AND FOLLOW ALL SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS**

#### WIRING THE LUMINAIRE w/ EMERGENCY DRIVER INSTALLED

- Use the wiring diagram to connect the emergency driver to the driver and modules. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- After installation is complete, supply AC power to the emergency driver and join the converter connector.
- At this point, power should be connected to both the AC driver and the emergency driver, and the Charging Indicator Light should illuminate indicating the battery is charging.
- A short-term discharge test may be conducted after the emergency driver has been charged for one hour. Charge for 24 hours before conducting a long-term discharge test.

#### Field Connections (w/ Switch Control)

- Common (Neutral) to White Lead
- Hot (Line) to Black Lead
- Switched Hot to White/Red Lead
- Converter Connector Leads Connected

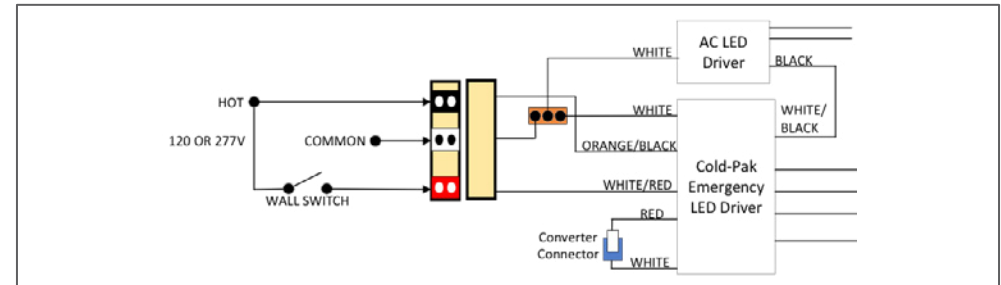
#### Field Connections w/ NO Switch Control

If NO switch is used (circuit breaker control only), Jumper the White/Red and Orange/Black Leads together and connect to HOT.

**Note:** Failure to connect the WHITE/RED Lead will prevent normal operation of the Luminaire

During normal operation AC power is applied and the converter connector is closed, the charging indicator light is illuminated, indicating that the battery is being charged. When power fails, the emergency LED driver automatically switches to emergency power (internal battery), operating the LED load for a minimum of 90 minutes. When AC power is restored, the emergency driver returns to the charging mode.

#### FIELD WIRING DIAGRAM



#### Maintenance

Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. The LED load should operate at reduced illumination.
3. Conduct a 90-minute discharge test once a year. The LED load should operate at reduced illumination for at least 90 minutes.