

# LED SIGN LINEAR T8 • DIRECT WIRE

## INSTALL INSTRUCTIONS



**PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION.** Please read the instructions before you install and use the linear tube(s).

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION.**

**WARNING - Risk of fire or electric shock.** LED Retrofit kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation and contact a qualified electrician.

**WARNING - Risk of fire or electric shock.** Product must be installed in accordance with the national electrical code or your local electrical code. If you are not familiar with these codes and requirements, contact a qualified electrician.

**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 and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

**WARNING -** 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.

**WARNING -** To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED luminaire retrofit kit manufacturer.

Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.

**WARNING - Risk of fire or electric shock.** Luminaire wiring and electrical parts may be damaged when installing of retrofit kit hardware. Check for enclosed wiring and components.

**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.

The retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction. Product must be installed by a qualified electrician in accordance with the applicable and appropriate electrical codes. The installation guide does not supersede local or national regulations for electrical installation.

"This luminaire has been modified and can no longer operate the originally intended lamp," shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including re-lamping.

Do not use with dimmers.

Suitable for damp locations.

Suitable for enclosed luminaires.

This device is not intended for use with emergency exit fixtures.

**! WARNING -** Disconnect power or circuit breaker before installing or servicing.

### SINGLE ENDED WIRING INSTRUCTIONS

1. Make sure the circuit breaker that supplies the power to the fixture is turned off.
2. Remove lens or diffuser cover (if applicable) and existing fluorescent lamps.
3. Open/Remove ballast wiring compartment cover.
4. Identify the line and neutral wires running from the breaker box to the ballast and confirm the power is off using a voltmeter.
5. Cut all wires connected to ballast, and remove ballast (and starter if present). Dispose of removed ballast and fluorescent lamps in accordance with government regulations in your area.
6. Ensure that the fixture contains R17d lamp holders.
7. Make sure all sockets are replaced and wired according to the appropriate wiring diagram. (Figure 1, 2, 3, 4 - on Page 2).
8. Reinstall the ballast cover to hide all wires.
9. Install your new LED single ended T8 replacement lamps. These LED T8 lamps are designed for single ended wiring only. When installing, confirm only the input end of the lamp is powered, and securely connected to the powered R17d lamp holders.
10. Apply Re-lamping Label on a visible location inside the fixture.
11. Reinstall lens or diffusion cover on the light fixture.
12. Turn power on at the breaker box.
13. Turn on the lights.

### WIRING DIAGRAMS ON NEXT PAGE

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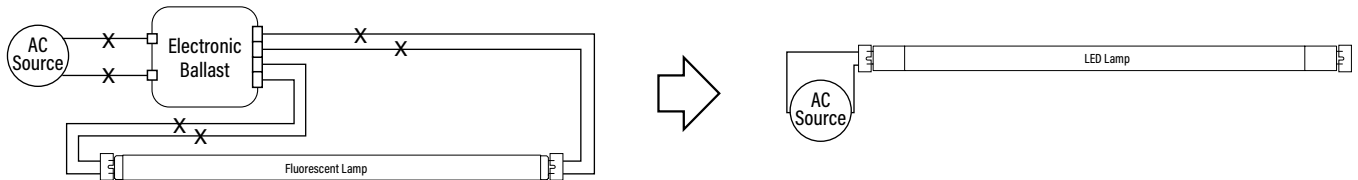


### SINGLE ENDED WIRING INSTRUCTIONS

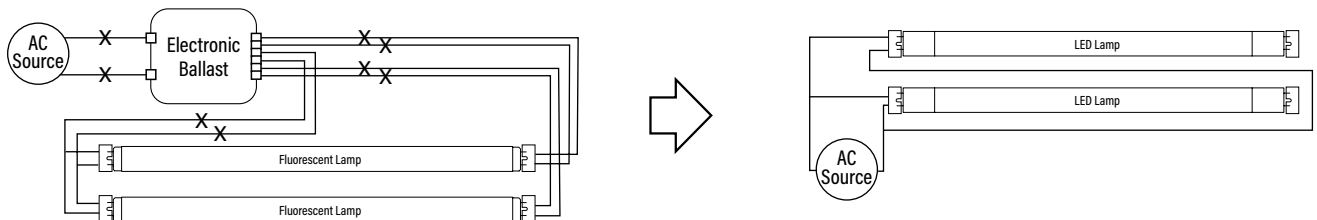
#### Non-shunted Sockets

**! WARNING** - Disconnect power or circuit breaker before installing or servicing.

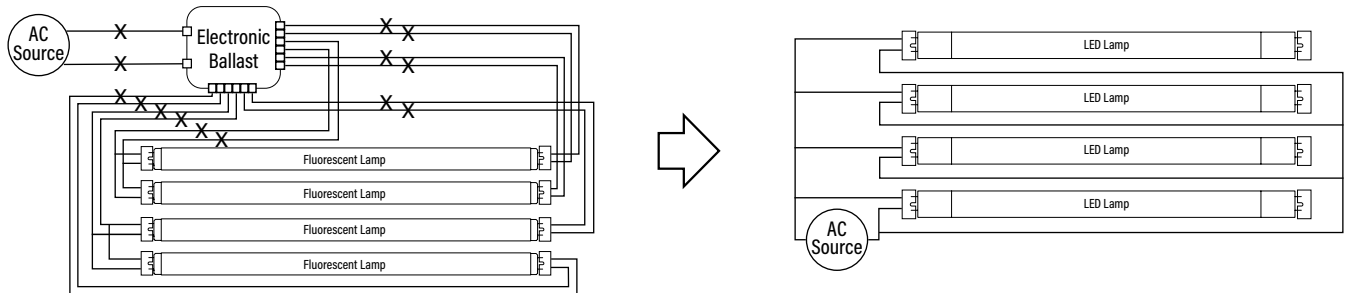
#### RETROFIT WITH ONE LAMP



#### RETROFIT WITH TWO LAMPS



#### RETROFIT WITH THREE/FOUR LAMPS



#### RETROFIT WITH THREE/FOUR LAMPS & TWO BALLASTS

