

# LED LINEAR T8 • DIRECT WIRE

## INSTALL INSTRUCTIONS



READ ALL WARNINGS AND INSTRUCTIONS PRIOR TO INSTALLING THE T8 RETROFIT LAMPS TO ENSURE SAFETY AND PROPER OPERATION

**WARNINGS** - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician in accordance with the National Electrical Code and relevant local code.

**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 lamp in luminaires employing shunted bi-pin lamp holders. **Note:** Shunted lamp holders are found only in fluorescent luminaires with "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 lamp holder terminals to make

new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

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

Suitable for use with NON-SHUNTED lamp holders only. See Fig. 1 below. This item is rated at 120-277V/ Installer must determine whether line voltage 120-277V is available at the luminaire before installation. Connect hot wire only to end cap with the L and N markings. Opposite end cap is dead, do not wire.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.

**NOT FOR USE WITH DIMMERS.**

**SUITABLE FOR DAMP LOCATIONS.**

**THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXIT FIXTURES OR BATTERY BACKUPS.**

The units covered by this guide were intended to retrofit surface mount, Type IC or non-IC recessed mount Listed fluorescent luminaires that use maximum four for all models. All models can be operated in luminaire with or without diffuser. The minimum lamp compartment dimensions are: 48.4" x 22.4" x 2" (inches).

**! WARNING DISCONNECT POWER BEFORE INSTALLING OR SERVICING.**

### INSTALLATION GUIDE

1. Read all WARNINGS before continuing this section.
2. Ensure fixture is 120-277V.
3. Make sure POWER IS TURNED OFF AT THE SOURCE. Do not simply switch off fixture.
4. Remove existing covers from the light fixtures according to the light fixture manufacturer's instructions. Carefully remove the existing fluorescent tubes and dispose of them according to federal, state and local laws.
5. Cut off wires connected to ballast, and remove ballast (and starter if present). Dispose of removed ballast according to federal, state and local laws.
6. If applicable, replace lamp holders at power end with non-shunted lamp holders.
7. Connect Live (L) from power source into non-shunted lamp holder "L In".
8. Connect Neutral (N) from power source into non-shunted lamp holder "N In".
9. If installing a single tube refer to (Fig. 3) and go to #13. If connecting multiple lamps, continue reading.
10. Connect separate hot wire into "Hot out" from primary source lamp holder and connect that wire into "Hot in" on the adjacent tube.
11. Connect separate neutral wire into "Neutral out" from primary source lamp holder and connect that wire into "Neutral in" on the adjacent tube. (Fig. 4)
12. Continue this process for additional lamps.
13. This device is powered on one end only, the end with L and N markings. (Fig. 2) Do not wire opposite end of lamp holder.
14. Install lamp with the L and N markings into the wired lamp holder end.
15. Visibly affix "Modification Sticker" and reinstall housing cover and lens if applicable.
16. Return power back to source and installation is now complete.

Fig. 1

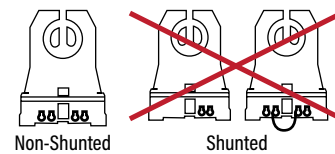


Fig. 2

#### Connecting End



Connect power to end with L and N markings

Fig. 3

#### Single Tube Wiring

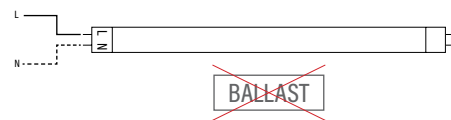


Fig. 4

#### Multiple Tube Wiring

