Intended Use: This LED tube is a “ballast bypass” lamp that operates at line voltage. The luminaire must be retrofitted to remove the ballast before installation of the lamps.

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

Warnings

• DISCONNECT POWER AT THE SOURCE BEFORE INSTALLATION.

• The electrical rating of this product is 120-277 Vac, the installer must determine whether they have 120-277 Vac at the luminaire before installation.

• LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

• Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

• 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.

• Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

• Do not expose wiring to edges of sheet metal or other sharp objects.

• 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.

• Do not use this retrofit kit in luminaires employing shunted bi-pin lamp holders. 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.

Note:

There are 2 pairs of wire sockets.
(2 sockets per lamp pin)

Note: Only one pair of wire sockets are present, or a jumper wire is present.

If the lamp holders in the fixture are identified to be the shunted type, the lamp holder located on the live end of the T8 LED tube will need to be replaced with a non-shunted type before completing the installation.
Luminaire Retrofit Wiring and Installation Instructions

1. Disconnect power at the source before installation.
2. Remove diffuser (if applicable) and all fluorescent tube lamps from luminaire.
3. Identify which ballast and wiring setup is used in the luminaire as shown in Fig. 1 and Fig. 2.

![Electronic Ballast Setup](Figure 1)

![Magnetic Ballast Setup](Figure 2)

4. Cut all wires leading into and out of the ballast and starter (if applicable), as shown in Fig. 3 and Fig. 4.

![Electronic Ballast Setup](Figure 3)

![Magnetic Ballast Setup](Figure 4)

5. Connect the input supply lines to the lamp holder as shown in Fig. 5. If the fixture contains shunted lamp holders, replace this lamp holder with a non-shunted type before continuing.

![Lamp Holder Setup](Figure 5)

NOTE: Wire position does not matter.

6. Apply the retrofit warning label on fixture in a location that will be readily visible during normal maintenance. Place this label adjacent to the lamp holders that will be used for the live end of the T8 LED tube.

![Retrofit Warning Label](Figure 6)

7. Locate the end of the T8 LED Tube where the “LIVE END” label is printed and plug this end of the tube into the LIVE lampholder socket as shown in Fig. 7. Turn the bulb in the direction such that the heat sink strip faces up into the fixture.

![T8 LED Tube Setup](Figure 7)

NOTE: If installing multiple T8 LED tubes into a single fixture, the maximum number of tubes per fixture is 4.

SUITABLE FOR DAMP LOCATIONS.

NOT FOR USE WITH DIMMERS.

SUITABLE FOR USE IN TOTALLY ENCLOSED LUMINAIRES.

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.