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T8 LED TUBE INSTALLATION INSTRUCTIONS

Conversion from ballast to direct AC power

- **WARNING** – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. 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.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- **WARNING** – To prevent wire abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- **WARNING** – To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.
- **WARNING** – This fixture must be grounded and installed in accordance with local and national electrical codes, by a person familiar with the construction and operation of the product and the hazards involved.
- *Note:* Shunted lampholders 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.
- 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.
- This device is not intended for use with emergency exits.
- This device is not intended for use with dimmers.
- This device is intended for use with 24"x48" open or closed type IC or NON-IC recessed fixtures, or surface-mounted fixtures with or without lens.
- This device is suitable for fixtures using up to four 48-inch lamps.

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STEP 1: Verify the voltage rating of the LED light matches the voltage of the fixture circuit (100-277VAC).

STEP 2: Warning – To avoid shock or fire hazard, turn off power to the fixture at the appropriate breaker or fuse panel.

STEP 3: Remove old fluorescent lamps and remove the ballast cover to expose the ballast and wires.

STEP 4: Cut all wires attached to the ballast(s) as closely to the ballast(s) as possible. Leave the ballast in place.

STEP 5: At one end of the fixture, ensure the lampholders are non-shunted (see page 1). This end of the fixture will be the powered end. If the lampholders are shunted continue to Step 6 -- if they are non-shunted continue to Step 8.

STEP 6: Remove any covers and remove the shunted lampholders, cutting attached wires as close to the lampholders as possible.

STEP 7: Use the existing wire, strip and insert wires in the new non-shunted lampholders as shown below. (Strip wires according to the strip gauge on the new lampholders. If a gauge is not available, strip wires 3/8" (9.5mm)).

STEP 8: Connect the two wires from each lampholder to incoming line (black) and neutral (white) separately using wire nuts. (See the electrical installation schematic on page 3)

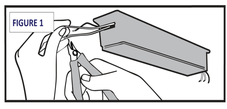
STEP 9: Reinstall any disconnected lampholders.

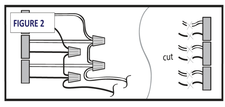
STEP 10: Ensure the fixture remains grounded (see warning on previous page) and insulate any unused wire ends with wire nut or electrical tape.

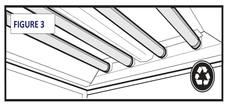
STEP 11: Reinstall any removed lampholder or ballast covers, and affix the included fixture modification label on the ballast cover nearest the powered end of the fixture.

STEP 12: Install the new LED tube light, (Be careful to align the product label on the lamps nearest the powered end of the fixture).

STEP 13: Reinstall any other removed covers, lenses, or defusers. Restore power to the fixture and enjoy your new LED tube light.







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.

Unauthorized changes or modifications to this device may result in a void in compliance of part 15 of the FCC rules.

CLASSIFIED UL

LED RETROFIT CONVERSION: FOR USE ONLY WITH THE PRODUCTS DESCRIBED AND INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS PROVIDED WITH THIS RETROFIT KIT.

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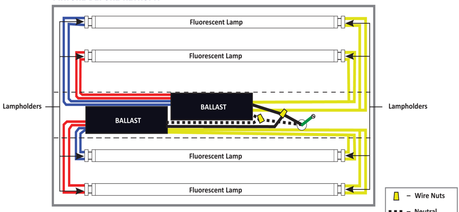
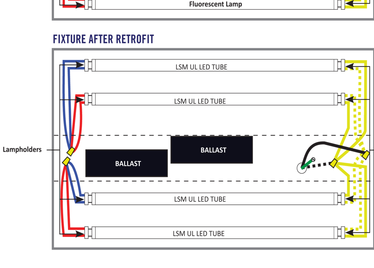
LED TUBE ELECTRICAL INSTALLATION SCHEMATIC

FIXTURE BEFORE RETROFIT



FIXTURE AFTER RETROFIT