

	(2-foot)	(3-foot)	(4-foot)	(5-foot)
(latest generation)	LED24T8SM-96X2-XXX-X01WXX	LED36T8SM-144X2-XXX-X01WXX	LED48T8SM-192X2-XXX-X01WXX	LED60T8SM-240X2-XXX-X01WXX
(previous generation)	LED24T8SM-144-XXX-001WXX		LED48T8SM-276-XXX-001WXX	LED60T8SM-576-XXX-001WXX

Installation Instructions

LED Tube Lights, Two Pins at Each End (G13 Bipin Bases) AC Line Voltage

SEE PAGE 2 FOR MORE INSTALLATION INSTRUCTIONS

READ AND FOLLOW ALL PRECAUTIONS AND INSTALLATION INSTRUCTIONS PRIOR TO INSTALLING LUMINAIRE

PACKAGE INCLUDES: LED Tube(s) + Caution Label + Installation Instructions

UNPACKING THE LEDTRONICS LED T8 LIGHT TUBE

After unpacking and saving packing materials, examine the Light Tube and check for any possible damage that could have resulted from transport. If damaged, notify LEDtronics and return the tube(s) in the packaging.

➡ Use of the ETL-listed T8 lamps in conjunction with bypassing the ballast does not effect the overall Certification status, since the fixture is covered by the Listing of the lamp and its installation instructions.



DANGER – RISK OF SHOCK: Disconnect Power Before Installation



ENSURE THAT POWER IS **OFF** WHEN INSTALLING, REMOVING OR CHANGING LEDT8 TUBE LAMPS.
DO NOT TOUCH/HANDLE TUBES WITH POWER APPLIED (ON).

IMPORTANT SAFETY INSTRUCTIONS

- THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.



- **WARNING - Risk of fire or electric shock.** The electrical rating of these products is 90-290 VAC; the installer must determine whether they have 90-290 V at the luminaire before installation.



- **WARNING - Risk of fire or electric shock.** Reflector kit installation requires knowledge of fluorescent lighting luminaire 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 luminaires that have the construction features and dimensions shown in the photographs and/or drawings.



- **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.

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

- For lamp replacement, contact Ledtronics and use only LEDtronics LED Tube lamps (G13 Base).

- Not for use with light dimmers.

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

- LEDtronics suggests installing a luminaire disconnect for protection when servicing fluorescent lights.

The instructions in these guidelines cannot anticipate all conceivable wiring situations.



DANGER – RISK OF SHOCK: Disconnect Power Before Installation

If the fluorescent tube fixture HAS A BALLAST (and starter, if separate)

- 1 Make certain that the fixture's line voltage is compatible with the LEDtronics tube [90–290VAC].
- 2 Remove the old T8 fluorescent tube from the fixture
- 3 Remove or bypass ballast* (and starter, if present)
- 4 Remove the protective pin guard caps from the LEDtronics tube, and...
- 5 Peel the lens protective plastic film from the LEDtronics tube lens.
- 6 Install LED tube with LEDs directed to beam their light out of the fixture.
- 7 Place cautionary label in a location inside the fixture where the next bulb installer will see it.

starter
(electronic ballasts do not have a separate starter)

ballast

LIGHTING FIXTURE

OLD TUBE

LEDTRONICS TUBE

lens protective film

(Pin guard caps may vary in appearance from that pictured.)

*WIRING EXCEPTION when bypassing a fluorescent instant-on ballast:

If the fixture's **bipin sockets are shunted****, then connect a wire at each end.

(Connect hot wire to a pin of the socket at ONE END, and connect cold wire to a pin of the socket at the OTHER END.)

DO NOT connect both power wires at the same shunted bipin socket end.

** Shunted sockets have a jumper wire connecting the bipins within the socket, and are used in "instant-on" fluorescent fixtures. This wiring exception pertains to converting instant-on ballasted fluorescent fixtures to LED ballast-free fixtures.

If the fluorescent tube fixture has NO BALLAST

... Then the fixture should have a cautionary label identifying it as having been rewired for LED lamps, and to never install fluorescent lamps in it.

Affix the LEDtronics cautionary label to the fixture if one is not present, and if the fixture already uses LED tube lights, or the installer knows the fixture does not use a ballast.

As illustrated above: Before installation, remove the protective pin guards.

Before applying power, remove the lens protector film from the LEDtronics LED tube light.

(The appearance of your lamp's pinguards may vary from that pictured.)

When installing, be certain the tube lamp's LEDs and their light beams are directed away from the fixture.

SIMPLIFIED WIRING

- 1 Hot Wire to any pin on one end.
- 2 Cold Wire to any other pin*

90VAC to 290VAC Input

(Type with 1 hot wire, 1 cold wire, with or without ground wire)

LEDTRONICS LED T8 TUBE WITH BI-PIN BASE

The hot wire (line/black) can connect to **ANY** one of the pins at one end.

The cold wire (neutral/white) connects to **ANY ONE** of the other three pins at either end.*

Wiring for fixtures with MULTIPLE TUBES (2, 3 or 4-tube fixtures)

Protective end caps need to be removed before tube installation.



The protective film covering the tube lens needs to be peeled off before turning the lamp on.



Be certain the tube lamp's LEDs and their light beams are directed outward from the fixture.

BALLAST

WIRING WILL BYPASS BALLAST (If present on fixture)

STARTER

WIRING WILL BYPASS STARTER (If present on fixture)

SIMPLIFIED WIRING

- Hot Wire to any pin on one end.
- Cold Wire to any other pin*

90VAC to 290VAC Input

(Type with 1 hot wire, 1 cold wire, with or without ground wire)

LEDTRONICS LED T8 TUBE WITH BI-PIN BASES

The hot wire (line/black) can sequentially link by **ANY ONE** of the pins on the LED tubes.

The cold wire (neutral/white) can sequentially link by **ANY OF THE OTHER THREE** pins on the LED tube.*

LEDTRONICS LED T8 TUBE WITH BI-PIN BASES

LEDTRONICS LED T8 TUBE WITH BI-PIN BASES

LEDTRONICS LED T8 TUBE WITH BI-PIN BASES

Adhesive label included with LEDtronics tubes explains this fixture has been modified for LED tube lights and no longer accepts fluorescent bulbs requiring a ballast.
> Place the provided label in a visible location inside the fixture.