

Installation Guide: UL Type-B DEP T8 LED Tube Lamp



UL Type-B DEP T8 LED Tube Lamp

Contents:

Carefully open the box and check contents. Contact Revolution Lighting if any items are missing.		
Qty. #	UL Type-B DEP T8 LED TUBE LAMP(S) [SKU #: (as ordered)]	UL Type-B DEP T8 LED Tube Lamp(s)
Qty. 1	“RETROFITTED LUMINAIRE LED T8 TUBE DOUBLE-END-POWER LABEL” [SKU #: 300027]	This decal must be placed in the LED-modified luminaire so that it is visible if replacing an LED tube (only one label per retrofitted luminaire required).
Qty. 1	UL TYPE-B DEP T8 LED TUBE INSTALLATION GUIDE [SKU #: 300568 v01]	Provides information necessary to retrofit a luminaire with a UL Type-B T8 DEP LED Tube.

Installation Notes & Precautions:

- **Read all precautions, warnings, and instructions contained in this document.**
- These instructions can be used to install the EZ-Fit T8 Type-B double-end-powered (DEP) LED tube lamp into a properly wired luminaire/troffer.
- Before installing lamps, verify that luminaire tombstone spacing matches the lamp length.
- Installation should be performed by a qualified electrician or installer.
- Operating voltages: 120-277VAC
CAUTION: Wire-up the fixture according to these installation instructions. (See Step 4 below.)
- LED tube is powered from each end (DEP).
- This light source is not intended as an emergency exit fixture or light.
- A “Retrofitted Luminaire” label is included with your LED tube. This decal must be placed in a prominent location inside the luminaire so that it is visible if replacing an LED tube. If the luminaire is already modified for LED tube use and has a label, the new label may be discarded.
- The LED tube fits into any T-Series, Medium Bi-Pin (T8/T10/T12) socket. Lampholder sockets do not need to be replaced unless they are damaged or missing.
- The LED tube may be used in open or enclosed surface or recessed (Type-IC) luminaires.
- If retrofitting an existing luminaire with LED tube(s), the initial luminaire retrofit wiring changes shall be performed by a qualified electrician.
- The LED tube is not for use in luminaires controlled by a dimmer.
- This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.

STEP 1



- Disconnect power to installation site.
WARNING: Ensure that all power is off using a voltmeter or other method.

STEP 2



- Remove troffer lens, if present.
- Remove existing fluorescent or LED tube lamps by rotating one quarter turn and sliding each lamp out. Dispose of fluorescent lamps per job/company site rules and regulations.
- Remove ballast cover. (Cover may be secured with screws or tabs.)

STEP 3 (Ballast Bypass)



- Cut all ballast wires as close to ballast as possible, then choose one of the following two options:

- Unscrew screw(s) and remove ballast from luminaire, then reinsert original screw(s) into ballast mounting hole(s).

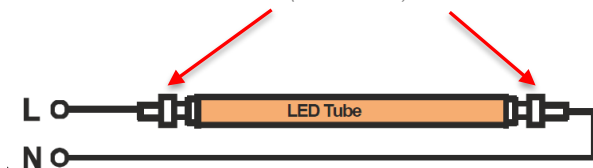
OR

- Abandon and leave ballast in its original mounting location.

- Remove lamp-holder (socket/tombstone) covers from both ends of luminaire. (Covers may be secured with screws or tabs.)

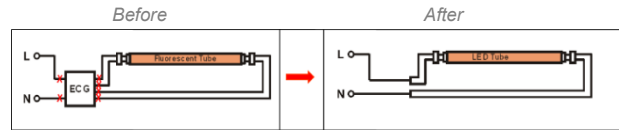
STEP 4 (DEP Tube Wiring)

DEP Tombstone Socket Connections
(120-277VAC)

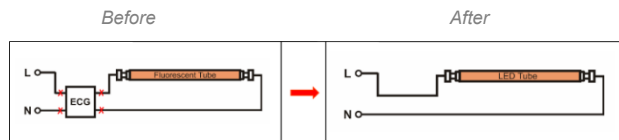


- Ensure that all of the opposing lamp sockets in the fixture are wired according to the above diagram labeled "DEP Tombstone Socket Connections," which depicts a double-end wiring configuration with the hot wire connected to one socket and the neutral wire connected to the opposite socket. (In this diagram, 'N' is neutral and 'L' is hot.)

- **NOTE:** These DEP LED tube lamps will work with either shunted or non-shunted tombstone sockets. However, the recommended arrangement is to use non-shunted sockets wired as shown in Wiring Configuration #1. (See Before & After wiring diagrams.)



Wiring Configuration #1: Non-Shunted-Tombstone DEP Wiring
(Recommended.)



Wiring Configuration #2: Shunted-Tombstone DEP Wiring

- **NOTE:** If only one wire connection is made to a non-shunted socket, it must be made to the contact for the tube-lamp pin labeled "L". Use Wiring Configuration #1 to ensure functionality for all installed tube positions.
- After checking the socket wiring, cut and strip approximately 1/2" of insulation from the free ends of the wires coming from the tombstone sockets.
- Splice the hot (black) and neutral (white) incoming power leads to all corresponding hot and neutral wires from the sockets using the appropriate wire nuts.
- Secure all fasteners, clips and wires (use electrical tape if necessary) and reinstall socket covers at both ends of troffer.
- Apply supplied label SKU #300027. If necessary, clean the area where label will be placed before affixing the self-adhesive label. Ensure that the label will not be covered by any cover pieces, trim pieces, or other items

STEP 5









- Insert each LED Tube Lamp in the normal way by sliding the G13 connecting pins into opposing tombstone sockets and gently rotating a quarter turn until LED tube locks in place. LED lamp is now fully installed.
- Repeat above step for all LED tube lamps.
- Replace ballast cover.
- Replace troffer lens, if present.

STEP 6






- Switch power back on.

Warnings:

-  **WARNING** – Risk of fire or electric shock. Do not alter, relocate, or remove wiring, lampholders, ballasts or any other electrical component. If necessary, contact a qualified electrician for assistance.
-  **WARNING** – To prevent wiring damage or abrasion, do not expose wiring to exposed edges of sheet metal or other sharp objects.
-  **WARNING** – Always disconnect power for your safety when performing the luminaire modification steps below! In some cases, it may be necessary to test the power feed with the power connected. Only connect the power when doing the testing, then disconnect the power from the luminaire when performing the steps below.
-  **WARNING** – Always follow local and regional NEMA Electrical codes. NEMA codes provide information on proper procedures, safety guidelines, proper tools, connection methods, and specifications on materials.
-  **WARNING** – Revolution Lighting Technologies, Inc. cannot and will not be liable for any modifications or results of modifications to electrical devices or luminaires. These instructions are provided as a reference. By using the included instructions, you are solely responsible for following all applicable electrical safety procedures, codes, methods, and materials. If you are unsure about any electrical modification or installation, please consult a licensed electrician or electrical contractor in your area.
-  **WARNING** –To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders when tube lamp is wired for SEP operation. 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 it 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.

Cautions:

-  **CAUTION** – Risk of Shock. Use in Dry or Damp Locations Only.
-  **CAUTION** – Do NOT install an LED tube into a fluorescent luminaire containing a ballast and/or starter. The ballast and/or starter must be removed prior to installation.
-  **CAUTION** – Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.