



# **Instruction/Installation Manual**



**Retrofit: LED Tube Lamp –  
4ft. Fluorescent T8/T10 Replacement**



## SECTION 1 - General Information

Kit components: 1-LED Tube, 1-Label and 1-Set of Instructions

**Models were only evaluated for factory installation to end luminaire, or to end Retrofit Luminaire, intended to replace a fluorescent lamp where it is necessary to modify the luminaire. These LED Tube Lamps are intended to retrofit a maximum of four lamps, mount fluorescent luminaries that use straight tubular 4-foot lamps.**

- These lamps should be installed by a licensed electrician.
- These lamps operate at line voltage and require all ballasts to be removed before the bulb is to be installed in the luminaire.
- These lamps are to be used in dry or damp locations only. Do not use in wet locations.
- These lamps are not to be used with a light dimmer. Any ballasts need to be bypassed.
- Always connect ground lead to luminaire where applicable.
- Please contact **superbrightleds.com** if you have any questions not addressed in these instructions. Please see contact information on the last page.

## SECTION 2 - WARNING



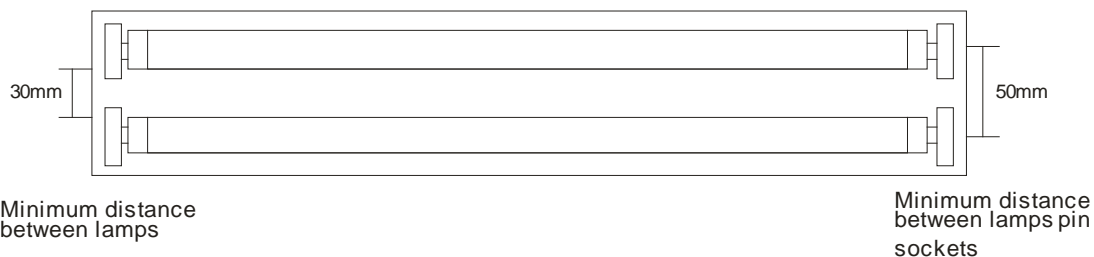
**WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK,  
DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE  
LUMINAIRE CONVERSION, RETROFIT**



**FOR USE ONLY WITH FLUORESCENT LUMINAIRES IDENTIFIED IN MANUFACTURER' S 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.**

These lamps can be used in any standard T8 lamp luminaire, allowing for its minimum spacing requirements





**WARNING** - Risk of fire or electric shock. Retrofit kit installation requires knowledge of fluorescent lighting luminaires electrical systems. If not qualified, do not attempt installation, contact a qualified electrician.

**WARNING** - Risk of fire or electric shock. The electrical rating of this product is AC100V~277V, the installer must determine whether they have AC100V~277V at the luminaire before installation.

**WARNING** - Risk of fire or electric shock. Only install this kit in fixtures it was designed for as shown by the dimensions and images.

**WARNING** - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

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

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.



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

Not for use with dimmers.

Once installation is completed the luminaire has been modified and can no longer operate the originally intended lamp.

Caution - risk of electric shock - use in dry and damp locations only.

Risk of electric shock - do not use where directly exposed to water.

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

**DANGER—RISK OF ELECTRIC SHOCK  
DISCONNECT POWER BEFORE  
INSTALLATION**



## SECTION 3 - Installation Instructions



**ENSURE POWER TO LUMINAIRE IS OFF**



### 01 Application of Power to LED Tube

Input Voltage: AC100-277V 50/60Hz

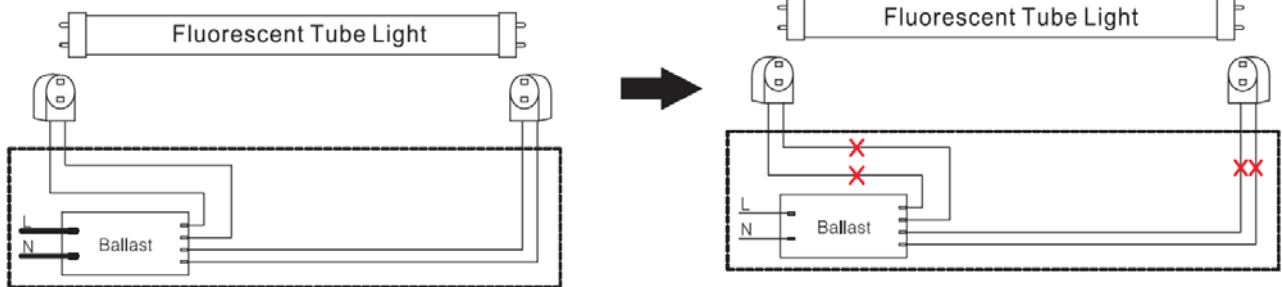


Power must be applied to the endcap labeled “AC INPUT”, applying power to wrong end will cause a direct short of the AC power when turned on.

### 02 Retrofit Steps

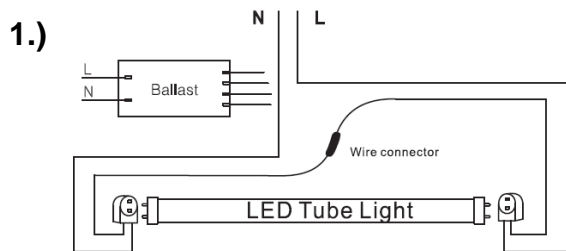
- Determine if the fixture has an electronic or magnetic ballast. For electronic ballasts use retrofit method “A1”. For magnetic ballasts use method “B1”.
- Before restoring power after retrofit, use wire nuts to cover exposed end of any wires cut and not removed during retrofit procedure.

#### A1 Retrofit luminaire with electronic ballast

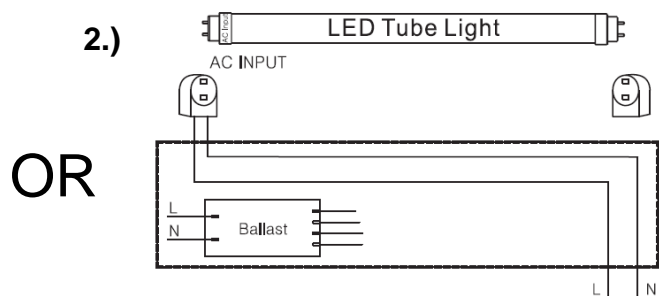


Remove diffuser (if applicable) and fluorescent lamp.  
 Cut off all wires which are connected to ballast.

Choose the wiring method that best suits the fixture



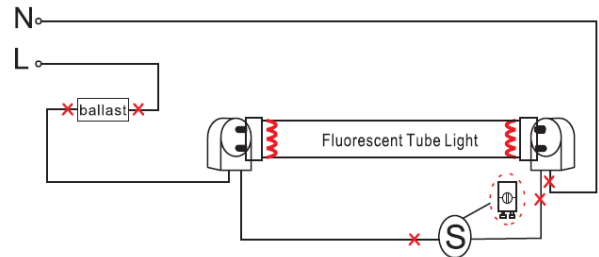
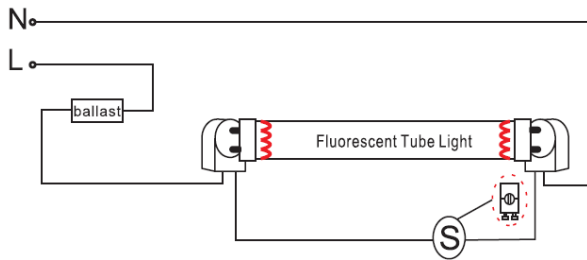
Wires on both ends (sockets) of luminaire



Wires on one end (socket) of luminaire – Connect Line and Neutral to “AC INPUT” according to the figure above (LED tube will not be damaged if “L” and “N” are reversed)

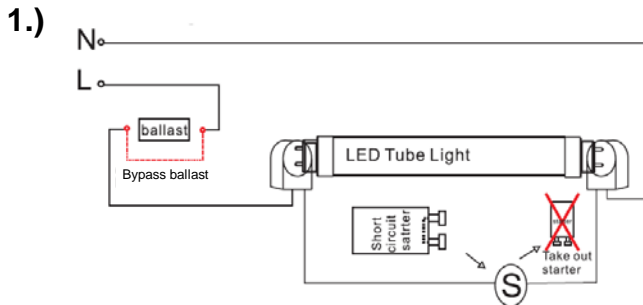


## B1 Retrofit luminaire with magnetic ballast

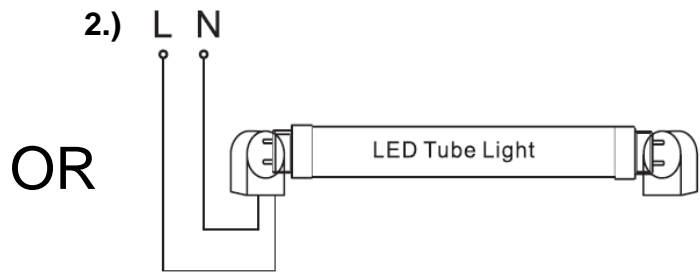


Remove diffuser (if applicable) and fluorescent lamp.  
 Cut off all wires which are connected to ballast. If wiring as shown below in method "2", cut wires to starter.

Choose the wiring method that best suits the fixture



Wires on both ends (sockets) of luminaire – Replace standard starter with short circuit starter supplied with LED tube



Wires on one end (socket) of luminaire – Connect Line and Neutral to "AC INPUT" according to the figure above (LED tube will not be damaged if "L" and "N" are reversed)

## 03 Complete Installation

Included label, as shown to the right, must be affixed to modified fixture in a location easily seen when replacing lamp.

**Notice:** This luminaire has been modified and no longer operates Fluorescent Lamps. Ballast(s) have been disconnected. Use only Super Bright LEDs, Inc. Models T8-CW18W-C4F, T8-NW18W-C4F or T8-WW18W-C4F LED Tube lamps for lamp replacement.  
 TEL: 866-590-3533  
 E-MAIL: support@superbrightleds.com  
 WEB: superbrightleds.com

The Kit, Replacement Label, and Installation instructions are provided with the LED Tube.

**Website: [superbrightleds.com](http://superbrightleds.com)**

**Tel: 866-590-3533**

**Fax: 314-972-6202**

**Email: [support@superbrightleds.com](mailto:support@superbrightleds.com)**

**Address: Super Bright LEDs, Inc.,  
 4400 Earth City Expressway  
 Earth City, MO 63146, USA**