

# SINGLE END POWERED LED U-BEND TUBE INSTALLATION GUIDE



## RETROFIT/INSTALLATION INFORMATION

### FEATURES

- Sturdy high-shock, vibration-resistant construction with high-power SMD LEDs.
- No UV; no mercury; no ballast required.
- Longer life than incandescents & fluorescents with over 50% savings in energy consumption.
- Solid-state, constant-current with UL testing standards.
- Operation in accordance with UL testing standards.
- Use in -20~30 degrees C environmental conditions; **For use in Dry locations only** .







### INSTALLATION NOTES

- These instructions can be used to install Single End Powered (SEP) LED tube lamps into a properly wired luminaire / troffer.
- LED Tube operates using any voltage from 120VAC to 277VAC and 50/60Hz
- These retrofit kits work on line voltage and require all ballasts and starters to be removed before the bulb is to be installed in the fixture.
- LED Tube is not intended for use with emergency exit fixtures, emergency exit lights or battery backup devices.
- LED Tube is powered from one end (SEP); the other end is NOT live and only serves to secure and mount the LED Tube in the sockets. Verify that the luminaires is properly set up for this style of LED Tube before inserting into luminaire (modify luminaire if necessary.)
- Do not install in a raceway or a luminaire marked for through branch wiring.
- Always connect ground lead to fixture where applicable.
- A Retrofitted Luminaire label is included with your LED Tube. This decal must be placed in a prominent locations on the luminaire so that it is visible when replacing and LED Tube. If the luminaire is modified for LED Tube use and has label, the new label may be discarded.
- The LED Tube fits in any T8 medium Bi-Pin T8 (g13) socket. Lamp holder sockets do not need to be replaced unless damaged or missing. lamp holder must be separated internally for proper wiring of the LED Tube. Refer to installation diagrams below.
- These LED tube lamps are intended to retrofit maximum 2 lamps, Type IC or Non-IC Recessed, or surface-mounted fluorescent luminaire that use U tubular maximum 2-foot lamp without diffuser.
- Has been evaluated for use with ceiling fixtures and not suitable for use in totally enclosed recessed fixture.
- If retrofitting an existing luminaire with LED Tube(s), the initial luminaire retrofit wiring changes shall be performed by a qualified electrician.
- Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. These ballasts are labeled "Instant Start" or "I.S." of designated as "IS" on the ballast markings, for example F40T12/IS. for more information, contact your Truly Green Solutions representative.
- The LED Tube is not for use in luminaires controlled by a dimmer.






## SAFETY INFORMATION (READ CAREFULLY)

### WARNINGS

-  **WARNING**–Risk of fire or electric shock. Do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.
-  **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 testing, then disconnect the power from ther luminaire when performing the steps below.
-  **WARNING**–Always follow local and regional National Electrical Codes (NEC). NEC provides information on proper procedures, safety guidelines, proper tools, connection methods and specifications on materials.
-  Truly Green Solutions cannot and will not be liable any modifications or results of modifications to electrical devices or luminaires, These instructions are provided as a reference. By using the 'instructions' included, 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.

### CAUTIONS

-  **CAUTION**– Risk of Shock. Use in Dry Locations Only.
-  **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.
-  **Do not** make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

Due to advancements in technology, specifications are subject to change without notice.

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WARNING: READ INSTRUCTIONS BEFORE INSTALLING

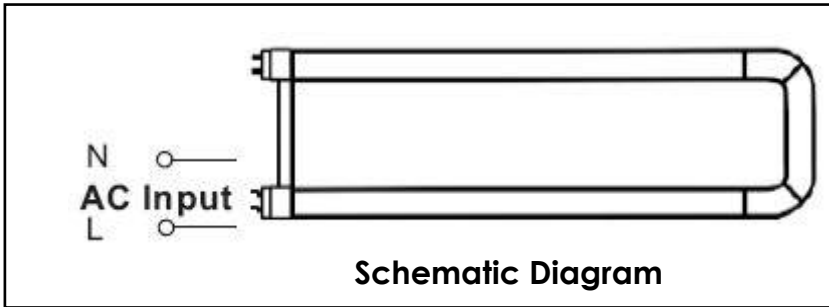
Disconnect all power sources to the fixtures before installing.

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## INSTALLATION INSTRUCTIONS

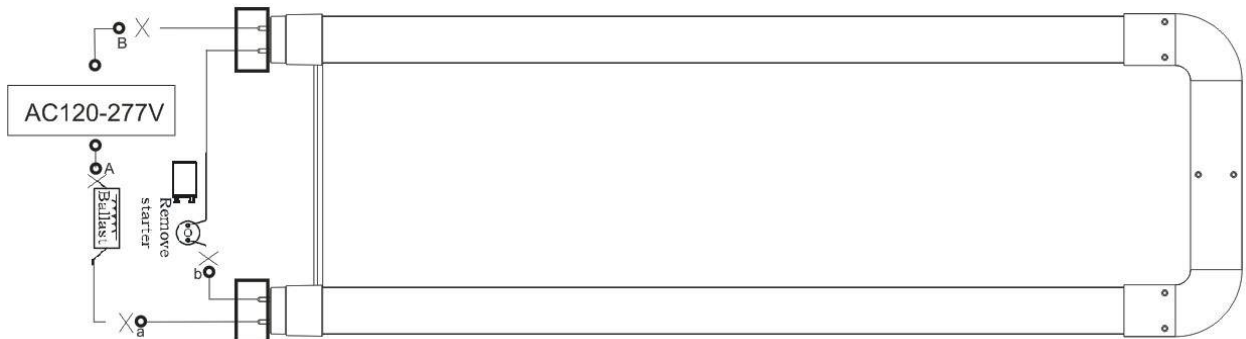


- 1) Remove all wires, starters, ballasts and relating electrical components, etc.
- 2) According to the schematic wiring diagram, the L & N of LED Driver is connected to L & N of luminaires correspondingly ( L-L, N-N connections).

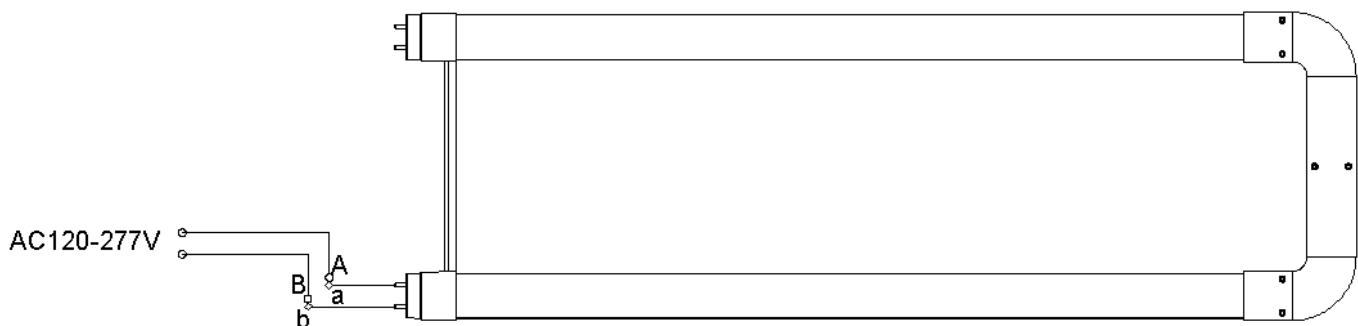
**see Fig. 1, Fig.2, Fig.3 and Fig.4**

Following are the installation of 3 different fixtures:

### A) Luminaire with starter:



**Fig.1**



**Fig.2**

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## INSTALLATION INSTRUCTIONS

### B) Luminaire with Electronic Ballast:

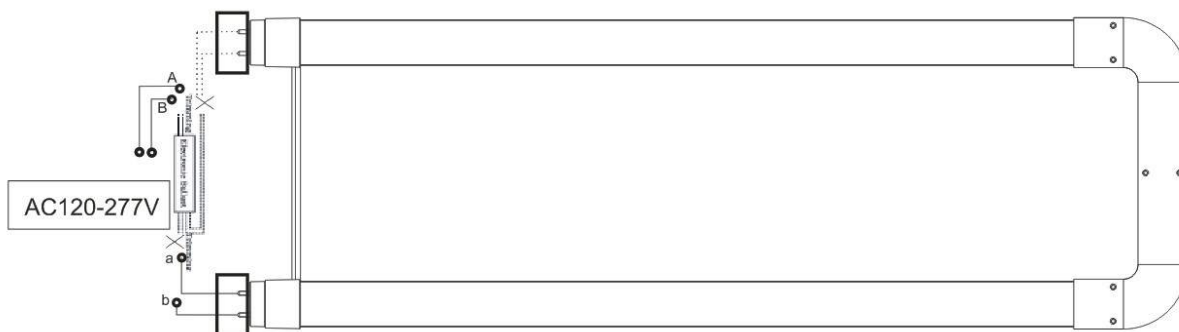


Fig.3

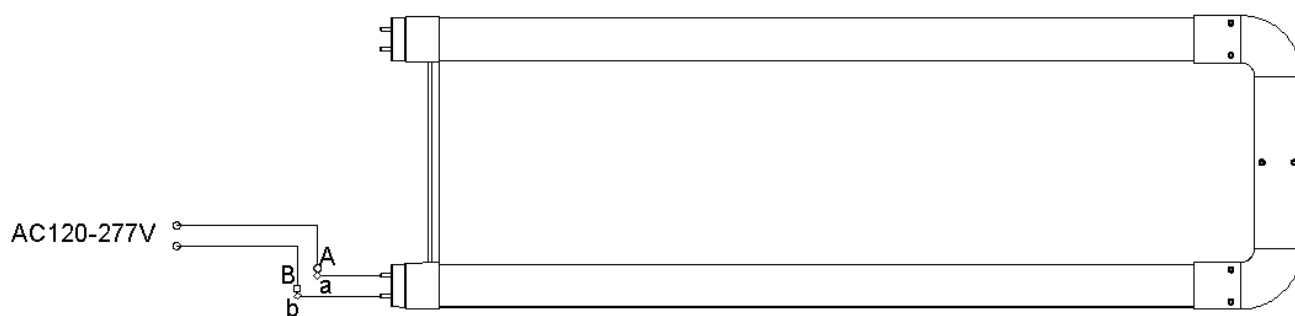


Fig.4

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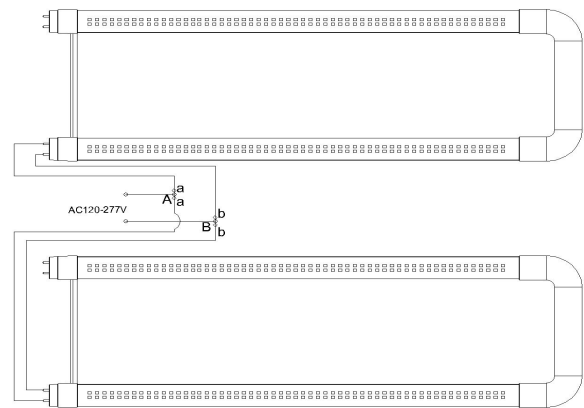
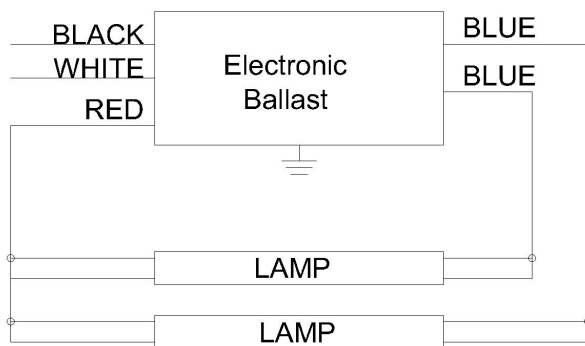


## INSTALLATION INSTRUCTIONS

**B) These LED tubes can retrofit maximum two lamps in one luminaire:**

The revised circuit diagram as shown in fig.5.

**Please see Fig.1, Fig.2, Fig.3 and Fig.4 to cut wires and to connect wires as follows:**



**Fig.5**



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