



# Install Guide

**EV-T8-600/900/1200-NW**

## **LED 2/3/4ft T8 Tube 120-277V**

- Our LED Tubes utilize the latest LED chips as the light source, whilst using the standard T8 end caps, which makes it easy to install and replace traditional fluorescent lamps.
- The lamp rating is 120-277Vac, 60 Hz, making it ideal for Consumer and Industrial Installations.
- A non-user replaceable light source and is known as a self-ballasted LED Tube Lamp.
- An electronic LED Driver is built inside the unit.
- For use in dry location only.
- Has been evaluated for use with ceiling fixtures and not suitable for use in totally enclosed recessed fixtures.
- Not for use with light dimmers.
- These lamps should be installed by an electrician, as these lamps work on line voltage and require all ballasts and starters to be removed before the bulb is to be installed in the fixture.
- Use in 25+/- 5 degrees C environmental conditions;
- Do not install in a raceway or a luminaire marked for through branch wiring.
- These devices are not intended for Use with emergency exits.
- Always connect ground lead to fixture where applicable.
- our T8 Lamps are intended to retrofit maximum 4 lamps, Type IC or Non-IC Recessed, or surface-mounted fluorescent luminaire that use straight tubular maximum 2-foot or 4-foot lamp without diffuser.
- The lamp pins are at one end, and the other end is not connected to any electrical power and it serves as means of mechanical support only.
- Please connect your authorized dealer, distributor, or electrician if you have any questions not addressed in these instructions.





# Install Guide

## **WARNING - IMPORTANT SAFETY INSTRUCTIONS**

Danger - Risk Of Shock - Disconnect Power Before Installation.

WARNING - Risk of fire or electric shock. The electrical rating of these products are 120-277Vac, the installer must determine whether they have 120-277V at the luminaire before installation.

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. Luminaires wiring, ballasts, or other electrical parts may be damaged when drilling for installation of reflector kit hardware. Check for enclosed wiring and components.

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 the luminaire that has 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.

For CNL products: "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."

Not for use in totally enclosed Luminaires.

"The end retrofit luminaire has been modified and can no longer operate the originally intended fluorescent lamp."

"WARNING: Risk of fire or electric shock. Do not use this retrofit kit in luminaries employing shunted bi-pin lampholders."

"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."

## Installation Instructions

LED T8 Tubes remove all the complexity of the wiring inside traditional Fluorescent Luminaire s/ Fixtures.

Step 1: Remove ballast and starter where applicable, and the corresponding wires including branch circuit wires and ballast wires. If existing lampholder terminals are shorted by a jumper (as in instant start circuit), then remove the jumper.

Step 2: Simply, Connect the L & N AC120-277V to one end of Tube lampholder / Base / Socket at One single End. The other end is left electrically unconnected, and is used as a mechanical retention only.

## Followings are installation of 3 different fixtures:

### a. Luminaire with starter:

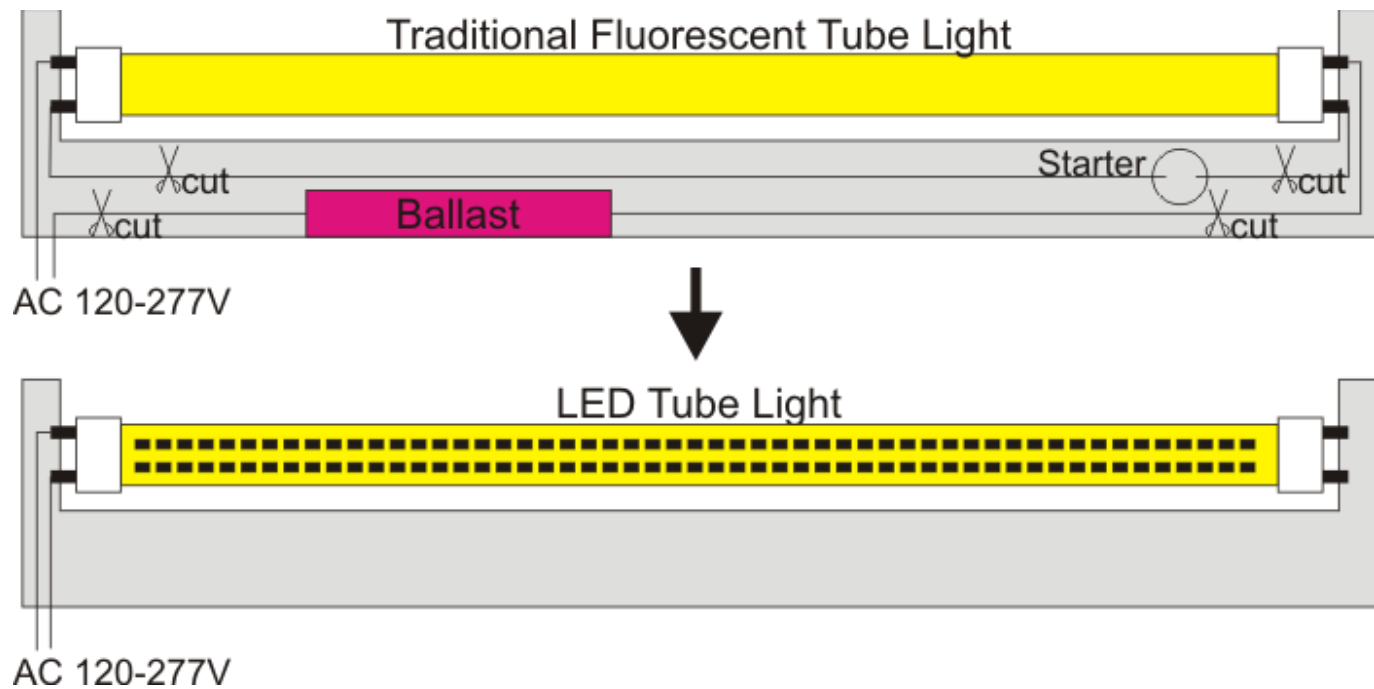


Figure 1 Traditional Tube Light with Starter

b. Luminaire with electronic ballast:

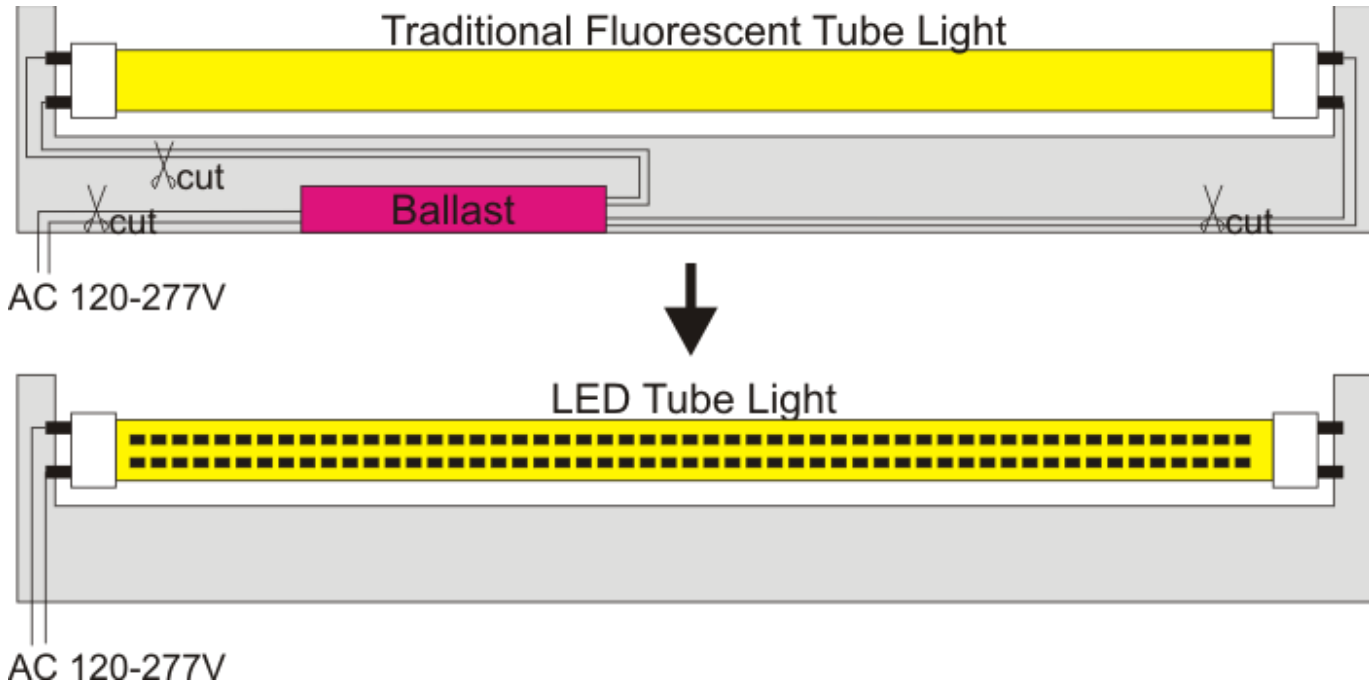


Figure 2 Traditional Tube Light with Electronic Ballast

c. These LED tubes can retrofit (for example) four lamps in one luminaire. The revised circuit diagram as shown in Fig.3.

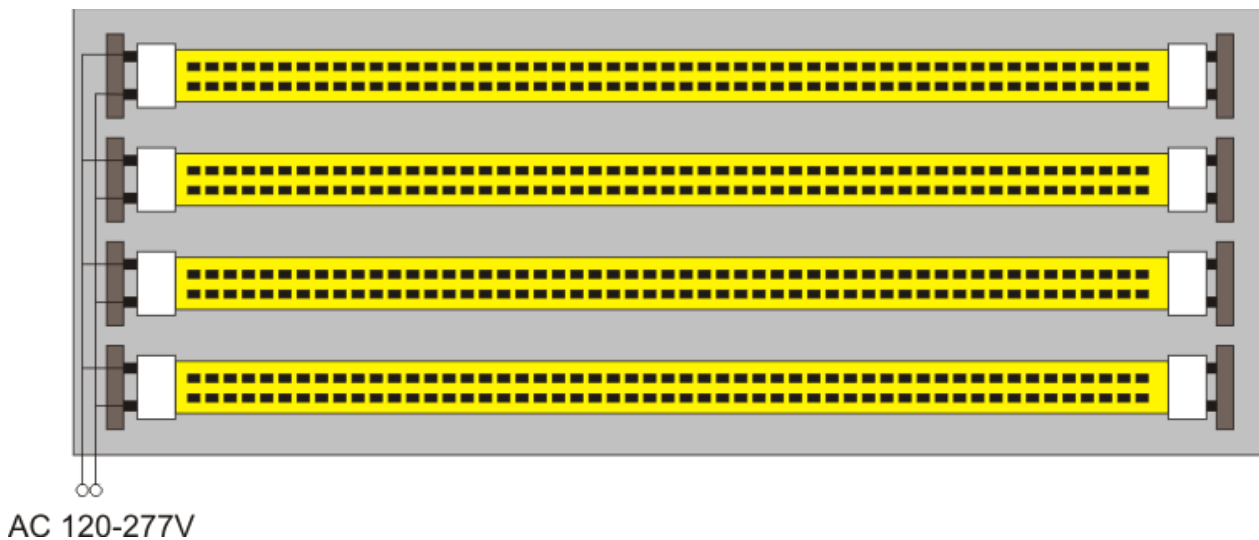


Figure 3 Quad Tube Fixture / Luminaire

(Please see Fig1 & Fig2 for how to cut wires and to connect as above:

(3).Lamp Replacement Marking Label, See Fig 4

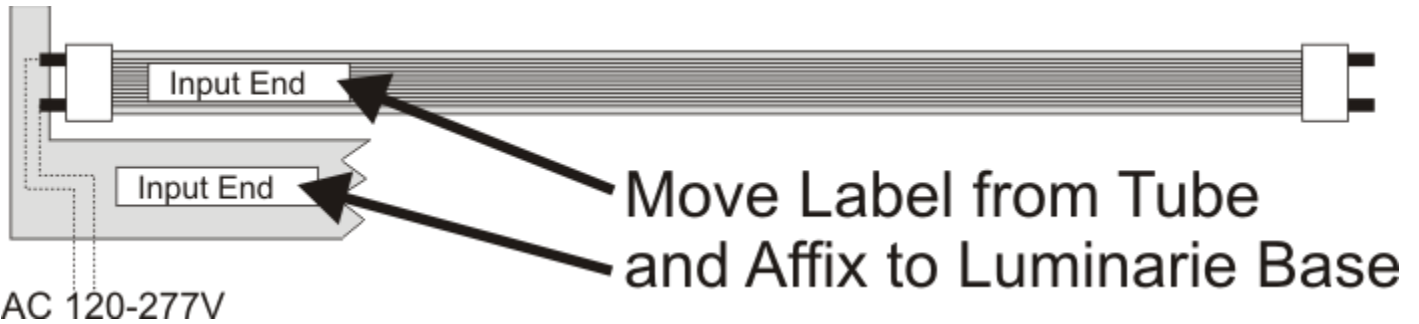


Figure 4 How to Affix Label from Tube to Luminaire Base

After modification is complete, then affix the Lamp Replacement Marking label from the rear of the T8 tube onto the Luminaire itself, located where the label will be visible for future lamp replacements (i.e on the ballast tray, or luminaire base)