

EiKO, Ltd.

Product Installation Instruction

LED Tube Lamp Retrofit Kits

1 GENERAL DESCRIPTION

LED Tube Light adopts the new type LED as the light source, using the standard T8 tube's end caps, making it easy to install and replace the traditional fluorescent lamp.

The lamp is a T8 LED Tube Lamp; the rating is 120~277Vac, 60 Hz, 9 W for Model LEDP-9T8/24/XXK, 14W for Model LEDP-14T8/36/XXK, 18W for Model LEDP-18T8/48/XXK, 22W for Model LEDP-22T8/60/XXK, and 24W for Model LEDP-24T8/72/XXK.

Retrofit kit consists of LED Tube Lamp (1 pc), installation instruction (1 pc), Lamping Replacement Marking Label (1 pc), Output Label (1 pc).

Technical description and warnings

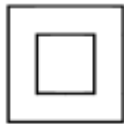
- A non-user replaceable light source and is known as a self-ballasted LED Tube Lamp.
- An electronic LED Driver was built inside the unit.
- For use in dry location only.
- Has been evaluated for use with ceiling fixtures and not suitable for use in totally enclosed recessed fixture.
- Not for use with light dimmers.
- These lamps should be installed by an electrician.
- 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.
- Models LEDP-9T8/24/XXK, LEDP-14T8/36/XXK, LEDP-18T8/48/XXK, LEDP-22T8/60/XXK and LEDP-24T8/72/XXK are intended to retrofit maximum 4 lamps, Type IC or Non-IC Recessed, or surface-mounted fluorescent luminaire without diffuser that use straight tubular 4-pin lamps for 2', 3', 4', 5', 6' lengths.
- The lamp pins of Models LEDP-9T8/24/XXK, LEDP-14T8/36/XXK, LEDP-18T8/48/XXK, LEDP-22T8/60/XXK and LEDP-24T8/72/XXK are to be connected to power at one end, and the other end is not connected to any electrical power and serves as means of mechanical support only.
- Please contact your authorized dealer or distributor if you have any questions not addressed in these instructions.

2 WARNINGS

IMPORTANT SAFETY INSTRUCTIONS

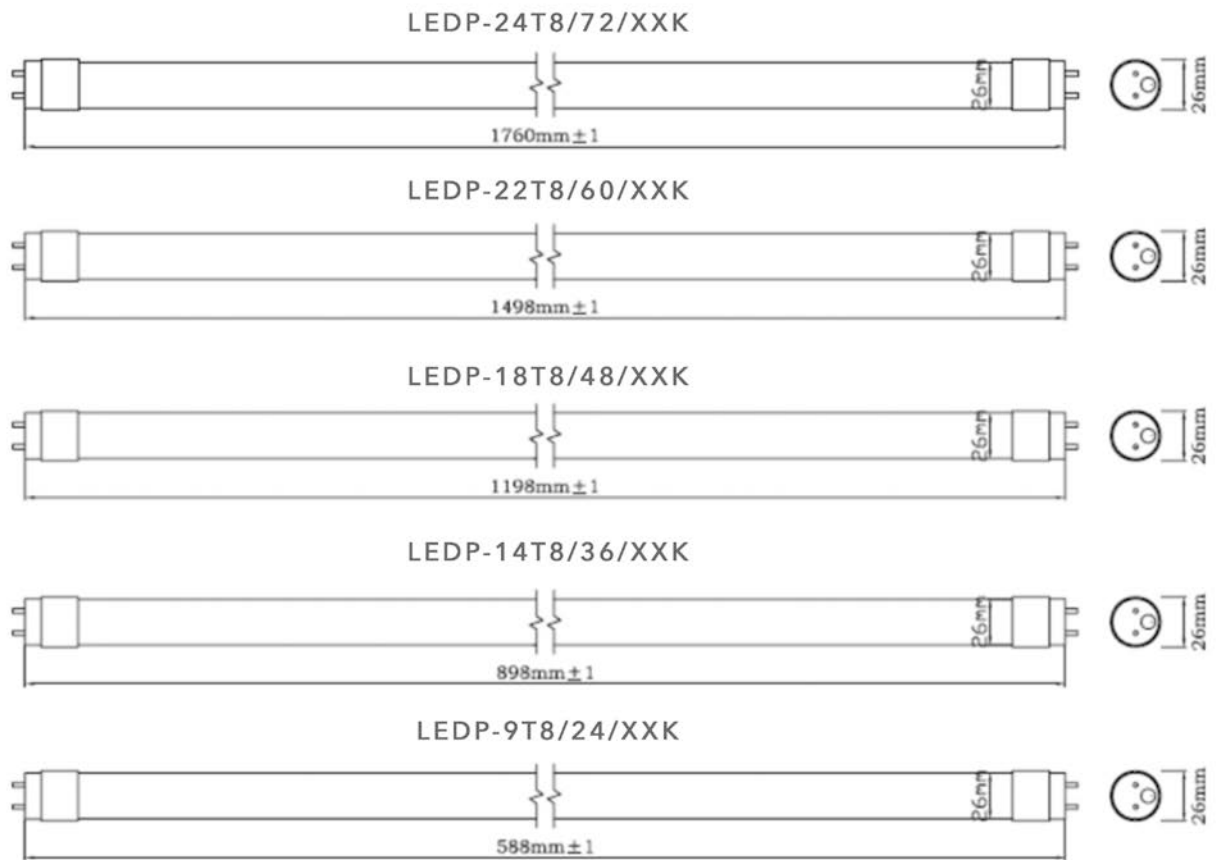
- **Danger** – Risk Of Shock – Disconnect Power Before Installation.
- **WARNING** - Risk of fire or electric shock. The electrical rating of these products are 120-277Vac. The installer must determine whether they have 120-277V at the luminaire before installation.
- THIS PRODUCT MUST BE INSTALLED IN 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.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- **WARNING** - Risk of fire or electric shock. Reflector 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. Install this kit only in the 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.



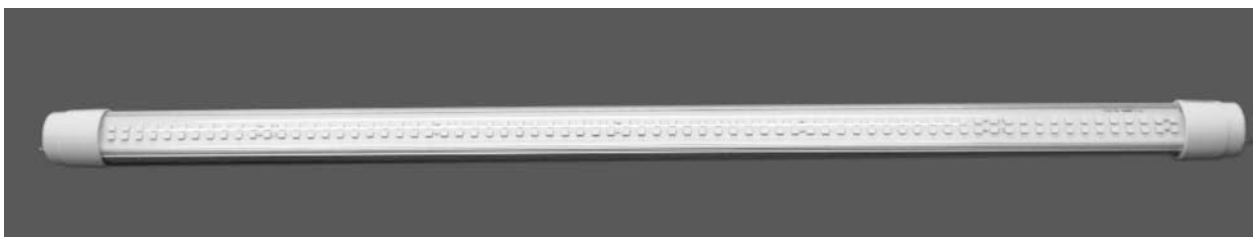
- **WARNING** -  means "DOUBLE INSULATION".
- **For CNL products:** "THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A FLUORESCENT LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION."
- **For CNL products:** "IMPORTANT SAFETY INSTRUCTIONS". Not for use in totally enclosed luminaires. "The end retrofit luminaire has been modified and can no longer operate the originally intended lamp."
- **WARNING:** Risk of fire or electric shock. Do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.

3 INSTALLATION INSTRUCTIONS

(1) Outside Measurement:



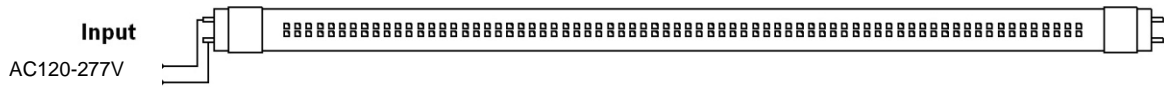
DIMENSION



4 INSTALLATION

(1).Power supply theory

Schematic wiring diagram:



(2). Installation procedure:

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

Step 2: According to the Schematic wiring diagram, connect the wires of L & N in AC120~277V with either lamp-holder at the end of fixture, then label the fixture end you wired as "Output" (see Fig. 4).

Only one end of the lamp receives power; this end of the lamp is already marked with an Input label.

The Following are installations of 3 different fixtures:

a. Luminaire with starter:

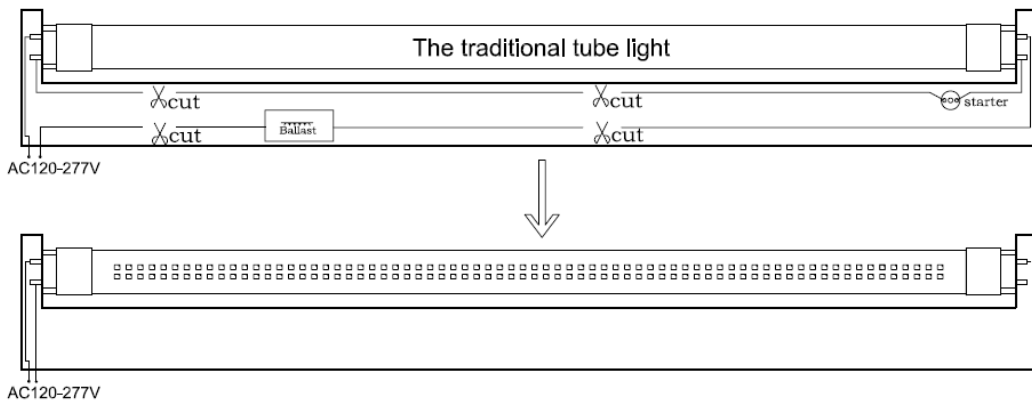


Fig.1

b. Luminaire with electronic ballast:

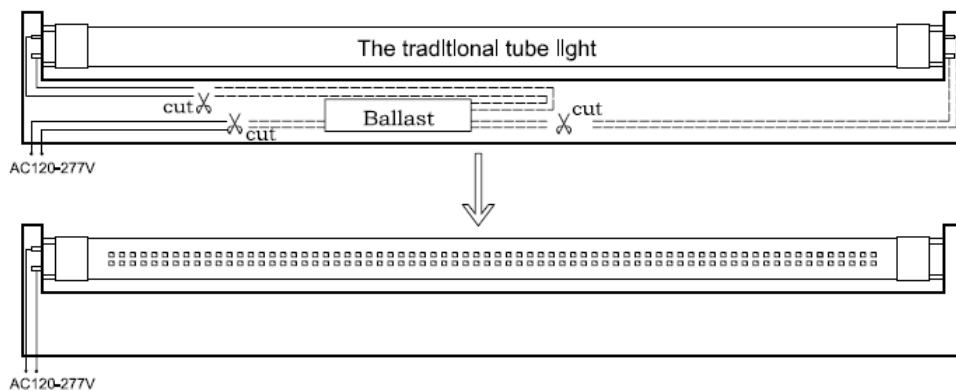


Fig.2

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

Please see Fig.1 and Fig.2 to cut wires and to connect wires as follows:

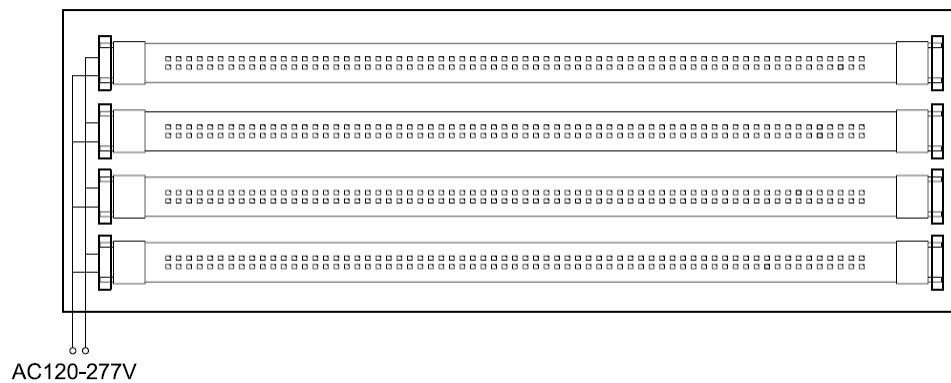


Fig.3

Step 3: Output Label: Put the "Output" sticker on the side of the fixture where the two lines come in. See Fig.4

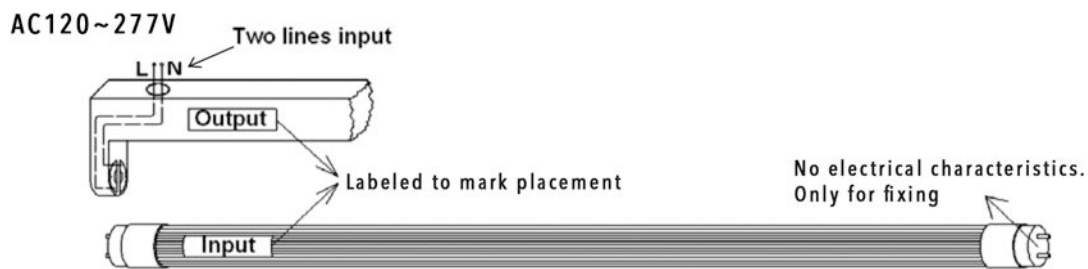


Fig.4

Step 4: Lamping Replacement Marking Label- After modification is completed and the retrofit LED Tube Lamp is installed, then affix the Lamping Replacement Marking label to a painted surface or bare aluminum; locate this where visible during re-lamping either on the ballast tray or reflector.

5 APPLICATION

Replacement tube light to be used in the office building, factories, shopping malls, schools, supermarkets, hotels, underground parking lots, subways, governmental projects and so on.



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