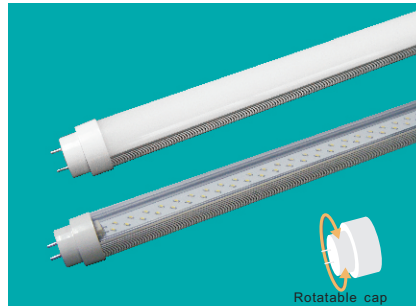


# Specifications for LED T10 UL Lamps

## (Replace fluorescent tube light)

### Features:

1. Rotating end cap and standard cap available.
2. Patented heat sink and optical diffuser.
3. No ballast required, wide voltage and constant current design
4. Retro-fit kits available for direct replacement of T8/T10 fluorescent fixtures.
5. SMD and DIP available
6. cover: Clear, Semi-transparent, Frosted.



### Color Temperature

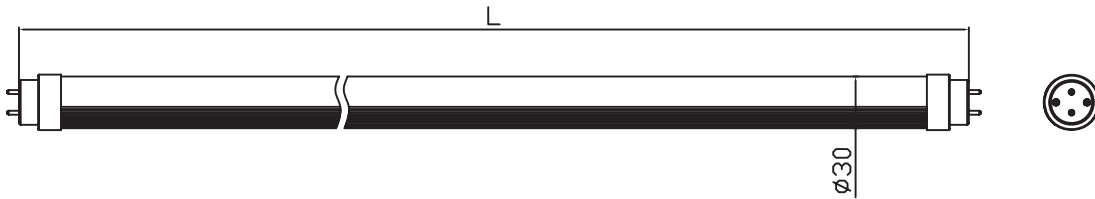
Warm White: 3000–3500K  
 Natural White: 4000–4500K  
 Daylight White: 5800–6300K  
 Cool White: 7000–7500K

### Specification

Voltage: AC100-277V 50/60Hz  
 Power Factor: >0.9  
 CRI: >75  
 Lifespan: 5 years  
 Lighting Angle: DIP: 60° / 120° , SMD: 120°

Model No.	Watts	LEDs	cover	Lumens	Replace By T8 Fluorescent	Tube Length (cap to cap)
ECO-Tube10-2FT	10W	160pcs DIP 120pcs SMD	Clear Frosted	900 900	18W	587±1mm
ECO-Tube10-3FT	12W	220pcs DIP 220pcs SMD	Clear Frosted	1300 1100	30W	897±1mm
ECO-Tube10-4FT	18W	280pcs DIP 290pcs SMD	Clear Frosted	1800 1650	36W	1197±1mm
ECO-Tube10-5FT	22W	320pcs DIP 350pcs SMD	Clear Frosted	2100 1850	58W	1497±1mm
ECO-Tube10-6FT	26W	390pcs DIP 410pcs SMD	Clear Frosted	2600 2350	70W	1797±1mm
ECO-Tube10-8FT	36W	560pcs DIP 580pcs SMD	Clear Frosted	3400 2950	90W	2383±1mm

## Dimension (mm)



## Application:

Restaurants & Hotels, Shopping mall, Retail & Grocey, Show room, Airport, Project Gallery, Hospitals, Parking, Schools .

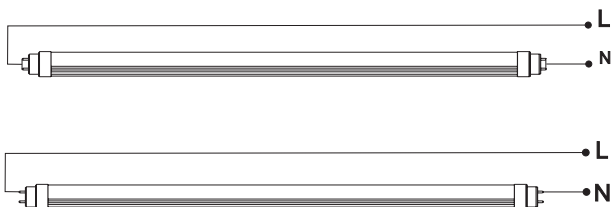


## Application Notes:

1. Operating temperature range between  $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$
2. Suitable for use indoor environment.
3. Suitable for damp locations.
4. Be used only with fluorescent luminaries
5. Not to be intended for use with emergency light fixtures or exit lights.
6. Not to be used in enclosed fixtures or insulated ceilings

## Wiring according to one of the follow diagrams

### Wiring Method 1-Two sides connecting



### Wiring Method 2-One side connecting



## Instruction Menu



### Retrofit:LED Tube Lamps

Model No.	Watts	Input	LEDs		Tube Length ( cap to cap )
			DIP	SMD	
ECO-Tube10-2FT	10W	AC100-277V 50/60Hz 0.1A	160	120	587±1mm
ECO-Tube10-3FT	14W	AC100-277V 50/60Hz 0.15A	220	220	897±1mm
ECO-Tube10-4FT	18W	AC100-277V 50/60Hz 0.2A	280	290	1197±1mm
ECO-Tube10-5FT	22W	AC100-277V 50/60Hz 0.25A	320	350	1497±1mm
ECO-Tube10-6FT	26W	AC100-277V 50/60Hz 0.3A	390	410	1797±1mm
ECO-Tube10-8FT	36W	AC100-277V 50/60Hz 0.4A	560	580	2383±1mm

**Cover:** Clear, Semi-transparent, Frosted

**Color:** Warm White, Natural White, Daylight White, Cool White



# 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 intended to retrofit maximum four lamps, surface mount, or Type IC recessed mount fluorescent luminaries that use straight tubular lamps.

- These lamps should be installed by a licensed electrician.
- These lamps work on 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 indoor dry or damp location only. Not suitable for wet location luminaire.
- These lamps are not to be used with a light dimmer. The starters need to be bypassed. Always contact ground lead to luminaire where applicable.
- Please contact your authorized dealer, distributor, or Topband if you have any questions not addressed in these instructions. Please see contact information in last page.

## SECTION 2- WARNING



### WARNING

**RISK OF ELECTRICAL SHOCK**

**DO NOT OPEN**



WARNING: To reduce the risk of electrical shock, do not remove cover and caps  
No user-serviceable parts inside. Refer servicing to qualified service personnel.

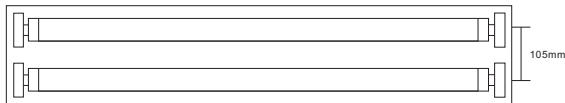


WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK,  
DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE  
LUMINAIRE CONVERSION, RETROFIT

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



Maximum distance  
between lamps pin  
sockets

**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.** Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs drawings.

**WARNING-Risk of fire or electric shock.** Luminaires wiring, ballasts, or other electrical parts may be damaged when drilling for installation of retrofit kit hardware. Check for enclosed wiring and components.

**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 CSA OR AUTHORITIES HAVING JURISDICTION.**

**WARNING-Risk of fire or shock. Do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.**

**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."**

**"The end retrofit 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."**

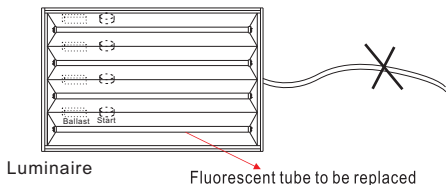
**"This device is not intended for use with emergency exit fixtures or emergency exit lights."**

**"IMPORTANT SAFETY INSTRUCTIONS"**

# “DANGER-RISK OF SHOCK -DISCONNECT POWER BEFORE INSTALLATION”

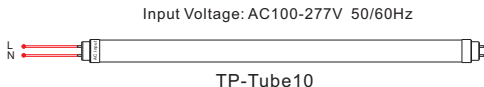
## SECTION3-Installation Instruction

- 1** ⚠ Switch off power supply BEFORE COMMENCING WORK



## **2** Luminaire Retrofit Steps

### 1) Principle of wire circle



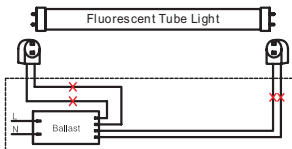
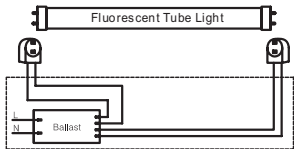
### 2) Retrofit Steps

- ⚠** Switch off power supply BEFORE COMMENCING WORK

- 1) Choose wires connect method from A, B, C, D options according to the ballast and luminaire type.
- 2) Use the electric rubberized fabric or pressing wire cap to enlase well all the power supply cord parts which were cut off, especially the end sides of power supply cord.
- 3) Install LED tube Lighting.
- 4) Switch on power.

## A. Retrofit Luminaire with electronic ballast

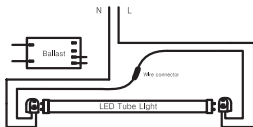
There are two methods for wiring, Wiring method 1 and Wiring method 2.



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

### Wiring method 1

Installing the LED tube into the fixtures directionless.

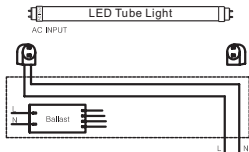


OR

### Wiring method 2

Connecting the side with

"AC Input" label into the holder with "L" & "N" wires.  
The tube will not be damaged if installed in reverse

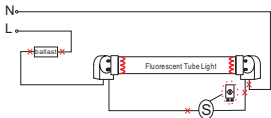
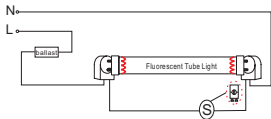


Connect two wires to branch circuit L and N  
according to the figure above.



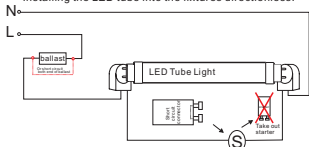
## B. Retrofit Luminaire with magnetic ballast

There are two methods for wiring, Wirng method 1 and Wirng method 2.



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

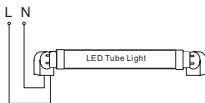
Wirng method 1  
Installing the LED tube into the fixtures directionless.



1. Must betake out of starter
2. Equip with manufacturer' s specified " short circuit connector"

Must be removed the starter first install the "short circuit connector"and LED Tube Light,then can work.

Wirng method 2  
Connecting the side with  
"AC Input" label into the holder with "L" & "N" wires.  
The tube will not be damaged if installed in reverse

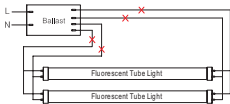
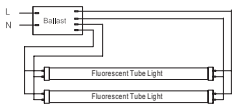


OR

Connect two wires to branch circuit L and N  
according to the figure above.

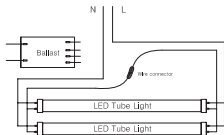
## C. Retrofit Luminaire with two lamps and one ballast

There are two methods for wiring,Wirng method 1 and Wirng method 2.

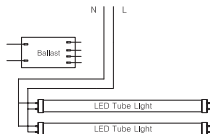


Remove diffuser (if applicable) and fluorescent lamp  
Cut off all wires which connected to ballast.

Wirng method 1  
Installing the LED tube into the fixtures directionless.



Wirng method 2  
Connecting the side with  
"AC Input" label into the holder with "L" & "N" wires.  
The tube will not be damaged if installed in reverse

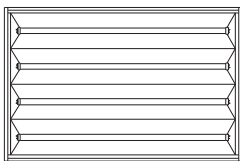


OR

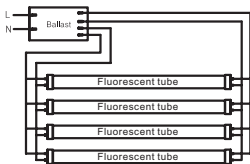
Connect two wires to branch circuit L and N  
according to the figure above.

## D. Retrofit Luminaire with Four Lamps and one ballast

There are two methods for wiring, Wiring method 1 and Wiring method 2.

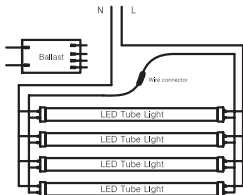


Luminaire



### Wiring method 1

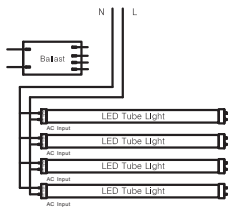
Installing the LED tube into the fixtures directionless.



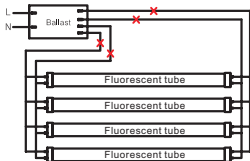
OR

### Wiring method 2

Connecting the side with "AC Input" label into the holder with "L" & "N" wires. The tube will not be damaged if installed in reverse



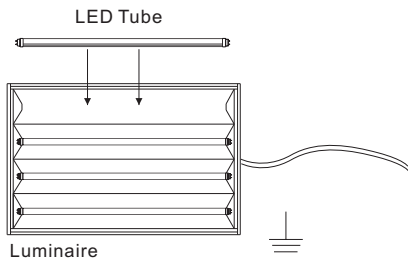
Connect two wires to branch circuit L and N according to the figure above.




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

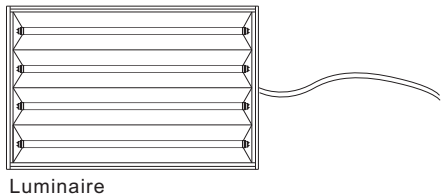


### 3 Install LED tube and Earth (Ground)



 Ballast and Starter must be operated with the method as in step **2** "Luminaire Retrofit Steps"

### 4 Connect to power



## 5 PIN ROTATED 0~90 DEGREE

