

# INSTALLATION INSTRUCTION

## Plug and Play Led Tube

### Prepare for Installation

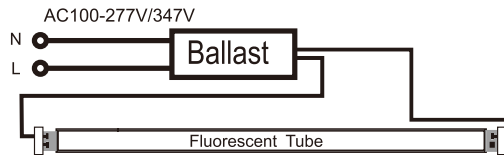
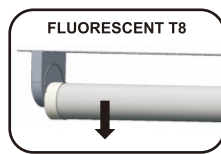
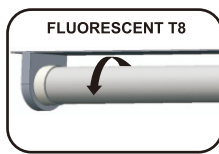
1. Check the ballast installed in the field and make sure the ballast is in manufacturer's ballast list.
2. Loose and damaged lamp holder and socket need to be adjusted or be replaced.

### Direct Replacement Procedure

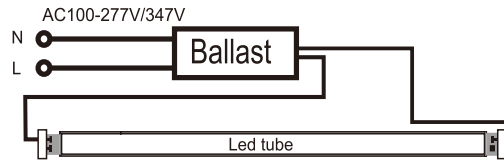
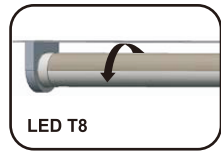
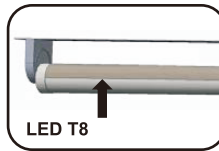
1. Turn off the power to the light fixture at the breaker panel before installation.



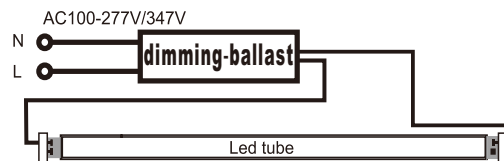
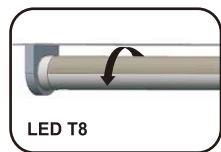
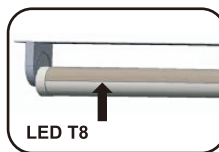
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.



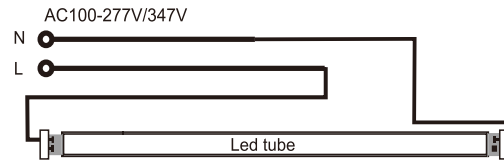
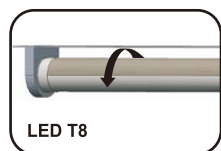
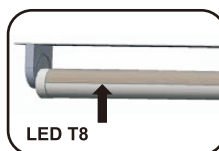
4. Put led tube into the lighting fixture. Ensure pins are firmly seated in lampholders..



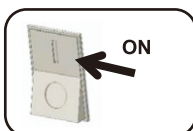
5. Put led tube into the lighting fixture. Ensure pins are firmly seated in lampholders..



6. Put led tube into the lighting fixture. Ensure pins are firmly seated in lampholders..



7. Install the LED tubes, close the diffuser.
8. Switch on power to the fixture .



## Dimming operation circle without ballast

Step 1: Turn on the on/off switch, if the user wants to use the maximum brightness, no need any operation will be applied.

Step 2: If user wants a certain brightness, the user needs to turn on the on/off switch again and the maximum brightness of 100% of the tube will be reached at the beginning of this time, then the brightness will go down to 10% of the maximum brightness within 5 seconds, it will reach a certain lumen as user's demand in the 5 seconds by pushing the on/off switch again, if not pushing the on/off switch in 5 seconds, the brightness of the tube will go from 10% to 100%, the user also can make the decision of the brightness within this 5 seconds.

Step 3: If the user makes the decision by pushing the on/off witch to off in the 5 seconds as above and turns on the on/off switch in next 20 seconds, the demand brightness will be applied from that time.

Step 4: If the user didn't follow step 3 pushing the on/off switch, the 100% of brightness will be applied, if the user wants to make demand brightness again, the new operation circle needs to be conducted.

2. If with ordinary ballast, the lamp is at 100% brightness.

### WARNING

- Risk of fire and electronic shock.
- This lamp can work with existing instant-start, rapid start, programmed start, dimming start and emergency ballast as manufacturer ballast list.
- These lamps are to be used in indoor damp location only .
- If the lamp or luminaire exhibits undesirable operation (Buzzing, Flickering, etc), immediately turn off power,remove lamp from luminaire and contact manufacturer.
- Loose or damaged socket or lamp holder need to be adjusted or replaced before installation.
- Do not make mass installation before sample testing.