

# Installation Instruction

## LED T5 Bypass Tube (Double-ended Linear)

Applicable models:  
**HD-T5BPSP/25W**

Please read this installation manual carefully, it contains important information and notes regarding the installation and operation of T5 LED Bypass Tube (Linear).

### WARNING

- **WARNING: Turn off power before installation.**

Read these instructions completely and carefully. To avoid personal injury and/or product damage, all of the instructions below must be followed.

- **WARNING:** Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician. Installation should be performed only by a qualified electrician in accordance with Nation Electrical Code and relevant local code.
- **WARNING:** Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions written and shown in the photographs and or drawings and where the input rating of the retrofit kit does not exceed the input rating of luminaire.
- **WARNING:** To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- **WARNING:** "This luminaire has been modified and can no longer operate the originally intended lamp," shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including lamping.
- Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead, installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connections.



- This item is rated at 120-347VAC.
- Not intended for use with emergency exit fixtures or emergency exit lights.
- Not for use in totally enclosed or vapor-tight fixtures.
- Do not use if product is damaged.
- Suitable for damp locations. Not for use where directly exposed to the weather or water.
- Complies with part 15 of FCC. Operation is subject to the following two conditions: This device may not cause harmful interference, and this device must accept any interference received including interference that may cause undesired operation.
- Type B LAMP – intended for operation in luminaires with traditional fluorescent-type lampholders wired directly to the branch circuit.
- DO NOT USE WITH DIMMERS ON CIRCUITS OVER 120 VOLTS.

### RETROFIT INSTALLATION: Double-ended

**STEP 1:** Turn power OFF.

**STEP 2:** Remove existing fluorescent lamps and diffuser (if applicable).

**STEP 3:** Open ballast compartment cover, cut the wires as shown in Figure 1, (see page 2) and remove the ballast. Disconnect starter (if applicable).

**STEP 4:** Connect the L wires to the lampholders (yellow for 2 lamps), connect the N wires to the lampholders (red and blue for 2 lamps) and insulate the unused wires as shown in Figure 2 (see page 2).

**STEP 5:** Close compartment cover and make sure live parts are not accessible. Visibly adhere field-applied label inside the luminaire.

**STEP 6:** If the lampholders are non-shunted, install the LED lamp and make sure the endcap close to the silver label is connected to the lampholders with L wires (yellow for 2 lamps), then cover the diffuser (if applicable).

If the lampholders are shunted, install the LED lamp and the endcap close to the silver label can connect to any lampholders, then cover the diffuser (if applicable).

**STEP 7:** Turn power ON and verify that the lamps are working correctly. If not, immediately turn power off and contact a qualified electrician.

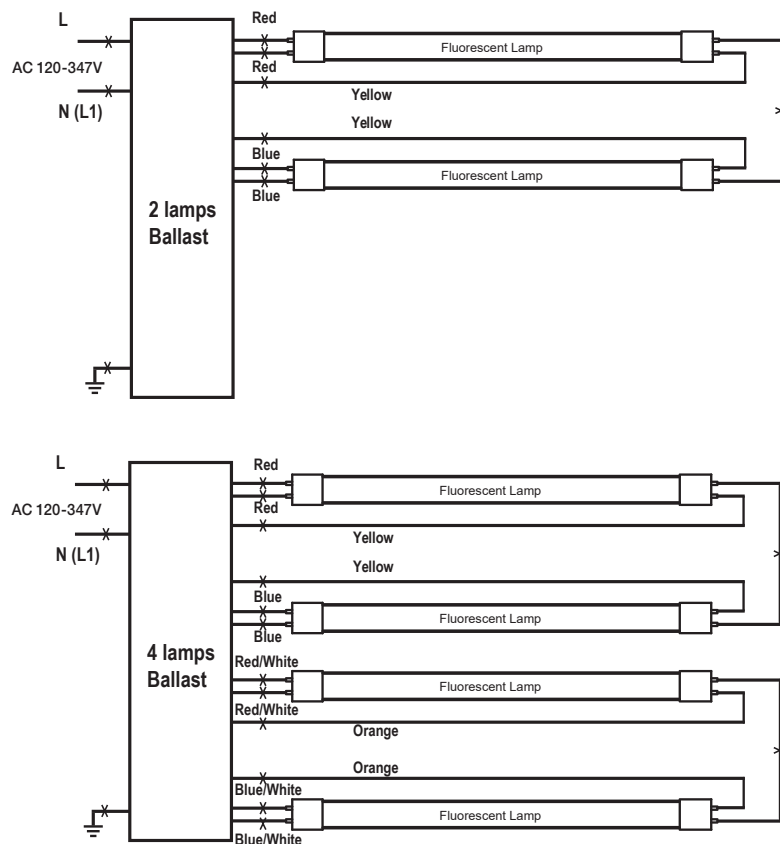


Non-Shunted  
Lampholder



Shunted  
Lampholder

**Figure 1.** Typical Ballast Wiring. NOTE: Different Ballast may use different color wires.



**Figure 2.** NOTE: For Double-ended, if the lampholders are non-shunted, the endcap close to the silver label should connect to the wires (yellow or orange). If not, some lamps will not function.

