

LUNERA T5HO LED 4FT UTT

25W LED Replacement for 4FT T5HO Fluorescent Lamps

Type B - Double-Ended with UTT, Ballast Bypassed

Installation Description

The **LUNERA T5HO LED 4FT UTT** is a 25W line driven (Type B, double-ended, ballast bypassed), linear LED replacement for a 4FT bi-pin T5HO fluorescent lamp up to 54W. Its built-in universal driver allows lamp operation at 120VAC-277VAC.

This lamp also incorporates Universal Tombstone Technology (UTT), making it compatible with both Shunted and Non-Shunted mini-G5 sockets.

A change of tombstones is NOT required to comply with UL safety standards.

Do NOT install this lamp with dimmers.

Do NOT connect this lamp with a fluorescent ballast or an external LED driver.

Product SKU on the lamp must match one of the following SKUs:

Product SKU*	Luminous Flux	Lamp Power	Base Type
HN-T5-L-48-25W-8yy-UT	3,500lm	25W	Mini-G5

8yy= 30=3000K; 35=3500K; 40=4000K; 50=5000K



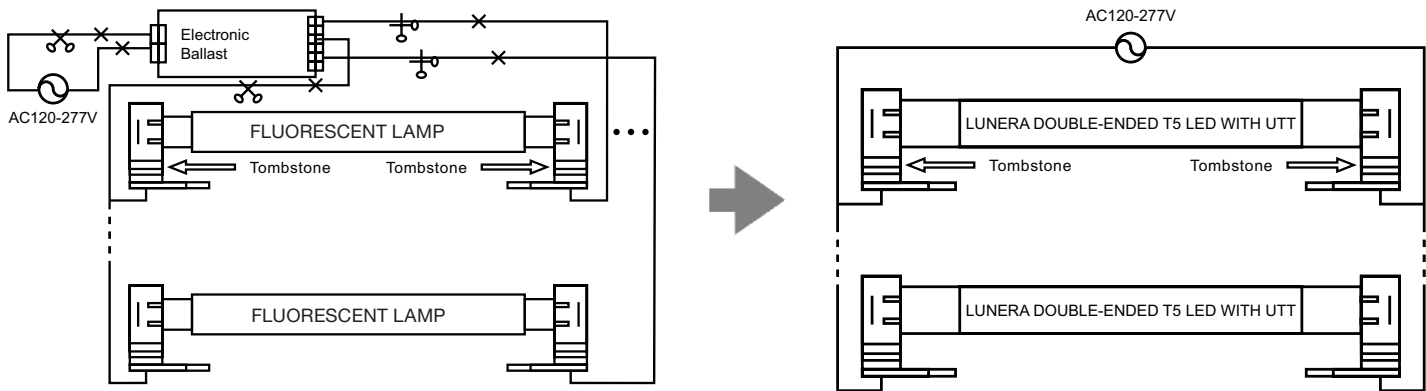
Installation Instructions - Type B, Ballast Bypassed, Double-Ended

1. Turn power OFF to the fixture.
2. Remove existing T5HO fluorescent lamps from the fixture.
3. Follow the instructions (next page) to bypass the ballast.
Replace tombstones if broken, cracked, dirty or rusted.
4. Find the end cap with "L" and "N" marking. Connect the HOT wire to the tombstone on one end of the fixture and connect the NEUTRAL to the tombstone on the other side of the fixture.
5. Install the Lunera T5HO LED 4FT UTT.
The lamp's end caps are identified with a "L" and "N" marking (pins with no marking are not connected to the internal circuit). Install the lamp so that the L endcap is matched to the HOT wired tombstone and the N endcap is matched to the NEUTRAL wired tombstone.
Make sure the lamp latches into the tombstones properly.
6. Apply relamping label on a visible location inside the fixture.
7. Turn power ON at the breaker box or wallswitch and turn on the lights.

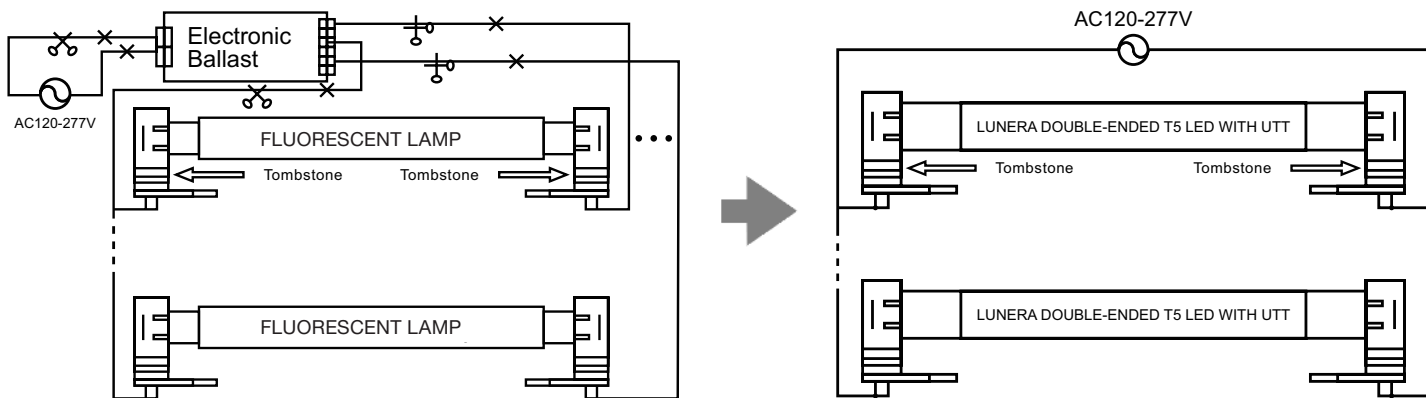


Wiring Diagrams

Double-ended with UTT lamp installation into **shunted** tombstones:



Double-ended with UTT lamp installation into **non-shunted** tombstones:



Note: Add jumper wires to shunt the tombstones or connect hot and neutral pins marked L and N.

Make sure pins with "L" and "N" marking are connected to line voltage or shunt the un-shunted tombstone.

This lamp does NOT support 347V/480V.

Installation into line voltage above 277VAC requires installation of a step down transformer.

For multiple-lamp fixtures, each lamp must be wired into AC line voltage in parallel. **Do NOT wire lamps in-series.**

If lamp exhibits flickering, strobing or does not light, contact Lunera.

General Safety Information

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- DANGER** - RISK OF SHOCK - TURN POWER OFF BEFORE INSTALLATION
- WARNING** - RISK OF FIRE OR ELECTRIC SHOCK, LED RETROFIT LAMP INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRE ELECTRICAL SYSTEMS. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.
- WARNING** - RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS LAMP ONLY IN LUMINAIRES THAT HAVE THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE LAMP DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.
- WARNING** - TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.
- CAUTION** - IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.) IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.
- CAUTION** - RISK OF FIRE - DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE.

NOTES: The installer should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead, installers should cut existing wires to lamp holders close to the ballast. Then connect the hot and neutral to the lamp holder wires using applicable connectors.

Product warranty will be voided if:

- Lamp is installed into line voltage above 277V.
- Lamp is installed with external LED driver or fluorescent T5HO ballast.
- Lamp is installed into cracked, broken, rusted or dirty tombstones.
- Improper wiring to tombstones resulting in lamp failure.
- Lamp is installed with dimmers.
- Lamp is installed while power is "ON" to the fixture.
- Lamp is installed into fully enclosed fixtures.

* This device complies with Part 15 of FCC Rules.

Operations are subject to the following conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operations.