LUNERA T8 LED 4FT QUICK BYPASS
14W/17W LED Replacement for a 4FT T8 Fluorescent Lamp
Type B - Double Ended, Ballast Bypassed

Description
The LUNERA T8 LED 4FT UTT is a 14W or 17W line driven, (Type B, double-ended, ballast bypassed), linear LED replacement for a 4FT bi-pin T8 fluorescent lamp up to 32W. Its built-in universal driver allows lamp operation at 120V – 277V. Lunera’s integrated Universal Tombstone Technology (UTT) makes this a double-ended lamp, allowing installation into both Shunted and Non-Shunted G13 tombstones. UTT lamps are certified by UL Classified for safe handling and can reduce installation time by half.

This lamp emits beautiful LED light with a 330° Beam Spread, has a Color Rendering Index (CRI) of >80 and delivers up to 1,800 lumens (14W) or 2,200 lumens (17W) of usable light. The LUNERA T8 LED 4FT UTT features a glass tube for improved optics and is available in 3000K, 3500K, 4000K and 5000K color temperatures.

The LUNERA T8 LED 4FT UTT is rated at 50,000 hours and is backed by a five-year warranty. This lamp does not contain mercury, allowing for non-hazardous waste disposal.

This is a Type B (ballast bypassed) lamp does not support fluorescent T8 ballasts or LED drivers. The fixture can have either Shunted or Non-Shunted G13 (Tombstone) sockets wired into AC line voltage.

Features
- Directly replaces 32W/30W/28W/25W 4FT T8 fluorescent lamps with a 14W or 17W LED
- Quick Bypass (Type B, double-ended, ballast bypassed) Installation - supports line driven 120V-277V AC
- Universal Tombstone Technology supports lamp installation in Shunted and Non-Shunted G13 tombstones
- Delivers up to 1,800 (14W) or 2,200 (17W) lumens
- >80 CRI
- CCT 3000K, 3500K, 4000K and 5000K
- 50,000 hours life to L70
- 5 Year Warranty

Ordering Information

<table>
<thead>
<tr>
<th>Series</th>
<th>Socket Type</th>
<th>Power Supply</th>
<th>Dimension</th>
<th>Lamp Wattage</th>
<th>CCT</th>
<th>Generation</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>HN</td>
<td>T8 Bi-pin G13 Shunted and Non-Shunted sockets</td>
<td>L Ballast Bypassed Supports 120V-277V</td>
<td>48 48 inch tube</td>
<td>Replaces up to 14W 1,800 lumens 17W 2,200 lumens</td>
<td>830: 3000K 835: 3500K 840: 4000K 850: 5000K</td>
<td>G1 1st Generation Frosted</td>
<td>UT Universal Tombstone Technology (supports Shunted and Non-Shunted tombstones)</td>
</tr>
</tbody>
</table>
### Product Specifications

**Illumination**
- Color Temperatures: 3000K, 3500K, 4000K, 5000K
- Delivered Lumens:
  - Up to 1,800lm (14W)
  - Up to 2,200lm (17W)
- CRI: >80
- Color Consistency: Lunera TruColor LED Selection
- Lumen Maintenance (L70): 50,000+ hours life

**Electrical System**
- Power Factor: >90%
- Total Harmonic Distortion: <20%
- Input Voltage: 120V ~ 277V
  - 50/60Hz AC Line Voltage
- Total Power*: 14W, 17W
- Lamp Wattage Replaced: Up to 32W (T8)
- Dimming: No
- Universal Tombstone Technology**: Yes

**Physical**
- Weight: 0.45 lbs
- Housing and Finish: Glass, White
- Optics: Optical Glass Diffusion
- Beam Spread / Beam Angle: 330° / 230°

**Environment**
- Ambient Operating Temp: -40°F to 104°F (-40°C to 40°C)
- Ambient Operating Humidity: Dry and Damp Certified

**Installation**
- Socket Type: G13 socket (Shunted or Non-Shunted Tombstones)
- Line Voltage: Yes (120V ~ 277V). Not for use with ballasts or LED drivers.

**Certifications & Qualifications**
- UL (US and Canada): Classified (UL1598-C)
- FCC***: Complies with Parts 15A/B
- RoHS Compliant: LM79, LM80, Contains no lead or mercury
- IES Files: DesignLights Available
- DesignLights Consortium Listed: Yes, DLC 4.1

**Warranty**
- Warranty: 5 years

### Application Notes

Lunera Universal Tombstone Technology allows lamp installation in the following conditions and applications:
- Line voltage above 277VAC
- LED Drivers or with a ballast
- Gasketed, fully enclosed fixtures
- Installation in wet environments
- Installation with broken, cracked, dirty or rusted tombstones
- Improper wiring to the tombstones/lamp

* Total Power equals lamp power because the ballast has been bypassed or removed.

** Universal Tombstone Technology (UTT) is integrated electronics that makes a ballast bypassed T-LED double-ended. UTT T-LEDs are safe to handle and install about 50% faster because they are compatible with both Shunted and Non-Shunted G13 sockets.

*** P.E.T. ShatterGuard version of the Lunera T8 LED is NSF Certified (shatter proof / resistant).

**** Operation is 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.

**CAUTION**
Turn power off when installing the lamp.

**CAUTION** - IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.
Double-Ended Electrical Connection

The LUNERA T8 LED 4FT UTT is driven by 120V/277V 60Hz AC

Correct Wiring

Incorrect Wiring