

LUNERA T8 LED 2FT QUICK BYPASS

9W LED Replacement for a 2FT T8 Fluorescent Lamp

Type B - Double-Ended, Ballast Bypassed

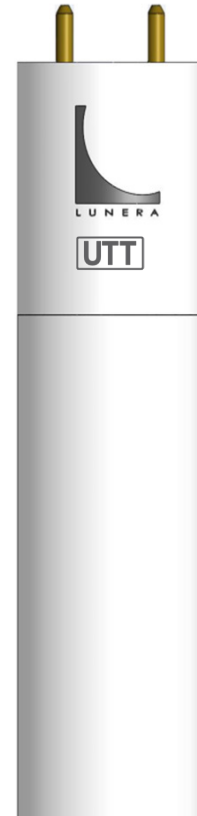
Description

The **LUNERA T8 LED 2FT UTT** is a 9W line driven, (Type B, double-ended, ballast bypassed) linear T-LED replacement for a 2FT bi-pin T8 fluorescent lamp up to 20W. 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 UL Classified for safe handling and can reduce installation time by half.

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

The LUNERA T8 LED 2FT is rated at 50,000 hours. It 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 and 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 20W/17W/15W 2FT T8 fluorescent lamps with a 9W LED
- Quick Bypass (Type B, double-ended, ballast bypassed) Installation - supports line driven 120V-277V AC
- Universal Tombstone Technology (UTT) compatible with both Shunted and Non-Shunted G13 Tombstone sockets
- Delivers up to 1,200 lumens
- >80 CRI
- CCT 3000K, 3500K, 4000K and 5000K
- 50,000 hours life to L70
- 5 Year Warranty



Ordering Information

Series	Socket Type	Power Supply	Dimension	Lamp Wattage	CCT	Generation	Feature
HN Lunera T8 LED	T8 Bi-pin G13 Shunted and Non-Shunted sockets	L Ballast Bypassed Supports 120V~277V	24 24 inch tube	9W Replaces up to 20W with 1,200lm	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation Frosted	UT Universal Tombstone Technology (supports Shunted and Non-Shunted tombstones)

Product Specifications

Illumination

Color Temperatures	3000K, 3500K, 4000K, 5000K
Delivered Lumens:	Up to 1,200lm
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
Lamp Power/Total Power*	9W
Lamp Wattage Replaced	Up to 20W (T8)
Dimming	No
Universal Tombstone Technology **	Yes

Physical

Weight	0.25 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.

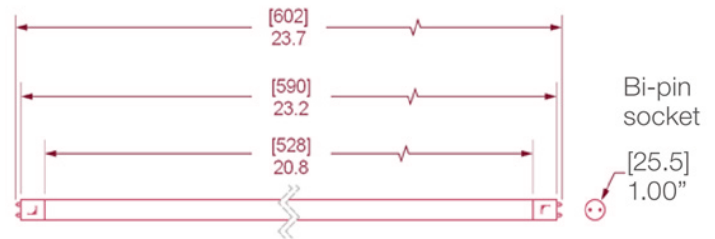
Certifications & Qualifications

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

Warranty

Warranty	5 years
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Dimensions



Application Notes

Lunera Universal Tombstone Technology allows lamp installation into Shunted and Non-Shunted G13 tombstones.

Lamp installation in the following conditions and applications *voids the product warranty*:

- Line voltage above 277VAC
- LED Drivers or with a ballast
- Gasketed, fully enclosed fixtures
- Installation into wet environments
- Installation in 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 2FT UTT is driven by 120V/277V 60Hz AC

