

## LUNERA T8 LED 4FT

11W/15W LED Replacement for a 4FT T8 Fluorescent Lamp

Type A - Ballast Driven

### Description

The **LUNERA T8 LED 4FT** is a plug and play (Type A, ballast driven) linear T-LED replacement for a 4FT bi-pin T8 fluorescent lamp up to 32W. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start ballasts. No fixture rewiring is required.

This lamp emits beautiful light with a 330° Beam Angle, has a Color Rendering Index (CRI) of >80 and delivers up to 1,800 lumens (11W) or 2,200 lumens (15W) of usable light. The LUNERA T8 LED 3FT features a glass tube for improved optics and is available in 3000K, 3500K, 4000K and 5000K color temperatures.

This lamp includes Thermal Fuse Protection, with 5 fuses (one per pin and one on the electronics board) that safely disables the lamp in the event of thermal/overheating issues caused by arcing or shorts due to faulty fixture wiring, ballast failure, or socket degeneration.

The LUNERA T8 LED 4FT 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 lamp does NOT support line voltage.

### Features

- Directly replaces 32W/30W/28W/25W 4ft Bi-pin T8 fluorescent lamps with 11W or 15W LED
- Type A (ballast driven); plug-and-play Installation; supports existing T8 ballast (Instant Start / Rapid Start / Programmed Start)
- Delivers up to 1,800lm (11W) or 2,200lm (15W) lumens of usable light with >80CRI
- Thermal Fuse Protection for added safety
- CCT 3000K, 3500K, 4000K and 5000K
- 50,000 hours life to L70
- 5 Year Warranty



Check Ballast Compatibility\*: <http://bit.ly/Lunera-Ballast-Lists>



### Ordering Information

Example: HN-T8-D-48-11W-830-G2

Series	Socket Type	Power Supply	Dimension	Lamp Wattage	CCT	Generation
<b>HN</b> Lunera T8 LED	<b>T8</b> Bi-pin G13 T8 socket	<b>D</b> Supports electronic T8 fluorescent ballasts	<b>48</b> 48 inch tube	<b>11W</b> Replaces up to 32W with 1,800lm  <b>15W</b> Replaces up to 32W with 2,200lm	<b>830:</b> 3000K <b>835:</b> 3500K <b>840:</b> 4000K <b>850:</b> 5000K	<b>G2</b> 2nd Generation  <b>G2P</b> 2nd Gen with NSF Certified P.E.T. ShatterGuard***

PROJECT	CONTACT	MODEL NO.
REFERENCE NO.	QUANTITY	DATE

## Product Specifications

### Illumination

Color Temperatures	3000K, 3500K, 4000K, 5000K
Delivered Lumens:	Up to 1,800lm (11W) Up to 2,200lm (15W)
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	Dependent of the ballast (Lamp operates off of rapid, instant, and programmed start electronic ballasts)
Lamp Power	11W or 15W
Total Power*	14.5W and 18W
Lamp Wattage Replaced	Up to 32W (T8)
Dimming	Contact Lunera for Compatibility
Ballast Factor <sup>†</sup>	<1 The Lunera T8 lamp may be used with Normal Ballast Factor (NBF) and Low Ballast Factor (LBF) electronic ballasts.
Thermal Fuse Protection**	Yes

### Physical

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

### Environment

Ambient Operating Temp	-40°F to 104°F (-40°C to 40°C)
Ambient Operating Humidity	Dry and Damp Certifie

### Installation

Socket Type	Bi-pin G13 (Shunted and Non-Shunted Tombstones)
Line Voltage	No, this lamp is NOT approved for use with line voltage.

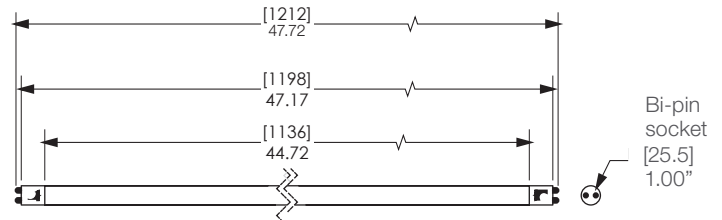
### Certifications & Qualifications

UL (US and Canada)	Listed (UL1993)
RoHS Compliant	Contains no lead or mercury
LM79, LM80, IES Files	Available. Contact Lunera.
DesignLights Consortium Listed	Yes, 4.2

### Warranty

Warranty	5 years
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## Dimensions



## Application Notes

The LUNERA T8 LED 4FT is NOT rated for use in gasketed (sealed), fully enclosed fixtures.

For applications containing dimming ballasts, please contact Lunera for specific compatibility.

<sup>†</sup>The LUNERA T8 LED 4FT supports operation with Normal Ballast Factor and Low Ballast Factor electronic ballasts. For High Ballast Factor, confirm compatibility with Lunera.

Ballast			System Config.		Power		
Type	Make	Model	Voltage	No. of Lamps	Lamp Power	System Power	System Power per Lamp
NBF	GE	GE432-MVPS-N	277V	4	11W	57.0W	14.2W
LBF	GE	GE432-MVPS-L	277V	4	8.1W	45.2W	11.3W

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

- Gasketed (sealed), fully enclosed fixtures
- Installation with an incompatible ballast, line voltage or LED Driver
- Installation in cracked, broken, dirty, or rusted tombstones
- Installation in wet areas
- Improper ballast wiring (e.g. 4-lamp ballast wired to run a 2-lamp application)

For a list of non-dimming and dimming ballasts that have been tested for compatibility with this product, visit <http://bit.ly/Lunera-Ballast-Lists>. If your ballast is not listed, contact Lunera Technical Support at 408-495-5600.

- \* Total Power consumption shown is lamp power + Instant Start electronic ballast power.
  
- \*\* Thermal fuses incorporated into Lunera's T8 LED lamps eliminate thermal/overheating issues when lamps installed in the following applications:
  - Fully gasketed (sealed), enclosed fixtures (voids warranty)
  - Lamp installation with incorrect ballast-socket (tombstone) wiring (voids warranty)
  - Hot-plugging that may lead to internal arcing
  
- \*\*\* P.E.T. ShatterGuard version of the Lunera T8 LED is NSF Certified (shatter resistant).

## 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.