

LUNERA T8 LED 3FT

11W LED Replacement for a 3FT T8 Fluorescent Lamp

Type A - Ballast Driven

Description

The **LUNERA T8 LED 3FT** is a plug and play (Type A, ballast driven) linear T-LED replacement for a 3FT bi-pin T8 fluorescent lamp up to 30W. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start ballasts. No fixture rewiring is required.

This LED lamp emits beautiful light with a 330° Beam Angle, has a Color Rendering Index (CRI) of >80 and delivers up to 1,400 lumens 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 disable 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 3FT 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 30W/25W/21W 3FT bi-pin T8 fluorescent lamps with a 11W LED
- Type A (ballast driven); plug and play Installation; supports existing T8 ballast (Instant Start /Rapid Start/ Programmed Start)
- Delivers up to 1,400 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-36-11W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage	CCT	Generation
HN Lunera T8 LED	T8 Bi-pin G13 T8 socket	D Supports electronic T8 fluorescent ballasts	36 36 inch tube	11W Replaces up to 30W with 1,400lm	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation G1P 1st 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 1,400lm
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 / Total Power*	11W / 14W
Lamp Wattage Replaced	Up to 30W (T8)
Dimming	Check for Compatibility
Ballast Factor ⁺	<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	0.35 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 Certified

Installation

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

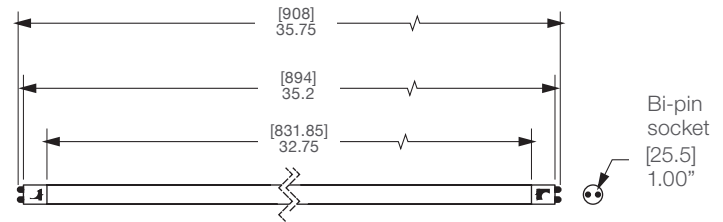
Certifications & Qualifications

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

Warranty

Warranty	5 years
----------	---------

Dimensions



Application Notes

The LUNERA T8 LED 3FT is NOT rated for use in gasketed (sealed), fully enclosed fixtures.

⁺ The LUNERA T8 LED 3FT supports operation with Normal Ballast Factor and Low Ballast Factor electronic ballasts.

Average power is shown in the table below. For information regarding the specific ballasts used for testing, contact Lunera.

For High Ballast Factor (1.18), confirm compatibility with Lunera.

Ballast Factor Average Power BOE - VNFOT

Lunera Lamp	277V Ballast Type	Lamp Only Power	Total Power (Lamp+ Ballast)	Lamp Lumens
HN-T8-D-36-11W-8xx-G1	NBF (0.88)	11.0W	13.5W	1,400lm
	LBF (0.77)	8.0W	10.5W	1,200lm

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 rusty 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)
 - High Ballast Factors over-driving the lamp (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 proof / 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.