

# LUNERA T8 LED 4FT

LED Replacement for Bi-Pin 4ft T8 Fluorescent Lamp  
Ballast Driven



## Description

The LUNERA T8 LED 4FT is a plug-and-play LED replacement for a 32W, 4FT Medium Bi-Pin T8 fluorescent lamp. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start electronic ballasts.

This beautiful lamp emits light over 330° of its surface, has a Color Rendering Index (CRI) of 83 and delivers up to 1,800 lumens of usable light. The Lunera T8 LED 4FT is available in 3000K, 3500K, 4000K and 5000K color temperatures.

The Lunera T8 LED 4FT delivers over 50% in energy savings and has a long lifespan rated at 50,000 hours. It is supported by a five-year warranty.

The Lunera T8 LED 4FT does NOT support line voltage.



## Features

- Directly replaces 32W 4FT Bi-Pin T8 fluorescent lamps with 14W LED lamps
- Supports plug-and-play Ballast Driven installation (Instant Start / Rapid Start / Programmed Start)
- Delivers up to 1,800 lumens of usable light
- >80 CRI
- CCT 3000K, 3500K, 4000K and 5000K
- 50,000 hours life to L70
- 5-Year Warranty



## Ordering Information

Example: HN-T8-D-48-14W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
<b>HN</b> Lunera T8 LED	<b>T8</b> Fixture with medium, Bi-Pin T8 socket	<b>D</b> Installed Instant Start Electronic Ballast (10W~32W)	<b>48</b> 48 inch tube	<b>14W</b> Replaces 32W Medium Bi-Pin T8 Fluorescent Lamp	<b>830</b> 3000 Kelvin <b>835</b> 3500 Kelvin <b>840</b> 4000 Kelvin <b>850</b> 5000 Kelvin	<b>G1</b> 1st Generation  <b>G1P</b> 1st Generation Frosted P.E.T [Shatter Proof - NSF Certified]

PROJECT	CONTACT	MODEL NO.
REFERENCE NO.	QUANTITY	DATE

## Product Specifications

### Illumination

Color Temperatures	3000K, 3500K, 4000K, 5000K
Delivered Lumens:	Up to 1800lm
CRI	>80
Color Consistency	Lunera TruColor Proprietary Process
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)
Average Lamp Power	14W
System Power (Lamp + Ballast)*	17W
Lamp Wattage Replaced	32W + 2W for ballast
Dimming	Yes, If used with dimming ballast
Ballast Factor	Ballast Factor <1. The Lunera T8 LED will respond to Low Ballast Factor (LBF), Normal Ballast Factor (NBF), and High Ballast Factor (HBF) electronic ballasts the same way as a fluorescent T8 lamp; ratings above are for a NBF ballast.

### Physical

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

### Environment

Ambient Operating Temp	-40°F to 122°F (-40°C to 50°C)
Ambient Operating Humidity	Dry and Damp Certified

### Installation

Socket Type	Medium Bi-Pin T8 socket (10W~32W electronic ballast)
Line Voltage	No, this lamp is NOT approved for use with line voltage.

### Certifications & Qualifications

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

### Warranty

Warranty	5 years
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\*System power consumption associated with instant start electronic ballast.

\*\* PET version of Lunera T8 LED is NSF certified (shatter proof / resistant).

### For Technical Support:

<https://lunera.com/freshdesk.com/support/home>

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REV 120816

## Dimensions



## Application Notes

The Lunera T8 LED supports operation with LBF, NBF, and HBF electronic ballasts.

Estimated average performance data with LBF, NBF, and HBF ballasts:

Ballast Type	Low BF (0.77)	Normal BF (0.88)	High BF (1.15)
Initial Lumen	1400lm	1870lm	2200lm
System Power	12.5W	17W	21W

The Lunera T8 LED is NOT rated for use in fully enclosed fixtures.

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

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

- Fully enclosed fixtures
- Installation with an incompatible ballast, line voltage, or LED Drivers
- Installation in cracked, broken, dirty, or rusty tombstones
- Installation in wet areas
- Installation with HBF ballast reduces product warranty to 4 years
- Improper ballast wiring (e.g. 4-lamp ballast wired to run a 2-lamp application)

## 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.



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