

# LUNERA HELEN LAMP T8

## LED Replacement for Bi-pin 2ft T8 Fluorescent Lamp



### Description

The Helen Lamp T8 is an energy saving, linear LED replacement for a 17W, 2ft medium base 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 LED lamp emits light over 330° of its surface, has a Color Rendering Index (CRI) of 83 and delivers up to 1,100 lumens of usable light. The Helen Lamp T8 features a glass tube for improved optics and is available in 3000K, 3500K, 4000K and 5000K color temperatures.

The Helen Lamp T8 delivers over 50% energy savings and has a long lifespan rated at 50,000 hours and is supported by a five-year warranty. It contains no mercury allowing for non-hazardous waste disposal.

This lamp does NOT support line voltage.

### Features

- Directly replaces 17W 2ft Bi-pin T8 fluorescent lamps
- Supports plug-and-play ballast-driven installation (Instant Start /Rapid Start/ Programmed Start)
- Delivers up to 1,100 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-24-9W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Helen Lamp	T8 Fixture with medium, Bi-pin T8 socket	D Supports electronic T8 fluorescent ballast	24 24 inch tube	9W Replaces 17W, 2ft Medium Bi-pin T8 Fluorescent Lamp	830 3000 Kelvin 835 3500 Kelvin 840 4000 Kelvin 850 5000 Kelvin	G1 1st Generation Frosted  G1P 1st Generation Frosted P.E.T

PROJECT	CONTACT	MODEL NO.
REFERENCE NO.	QUANTITY	DATE

## Product Specifications

### Illumination

Color Temperatures	3000K, 3500K, 4000K, 5000K
Delivered Lumens:	Up to 1150lm
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)
Lamp Power	9W
Total Power	11W
Lamp Wattage Replaced	20W/17W and less
Dimming	No
Ballast Factor	[0.88 ~ 1.00] The Helen Lamp T8 will respond to low Ballast Factor (LBF) and Normal Ballast Factor (NBF) electronic ballasts the same way as a fluorescent T8 lamp; ratings above are for a NBF ballast.

### Physical

Weight	0.25 lbs
Housing and Finish	Glass, White
Optics	Optical Glass Diffusion
Beam Spread	330°
Beam Angle	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 T8 socket (Shunted and Non-Shunted Tombstone)
Line Voltage	No, this lamp is NOT approved for use with line voltage.

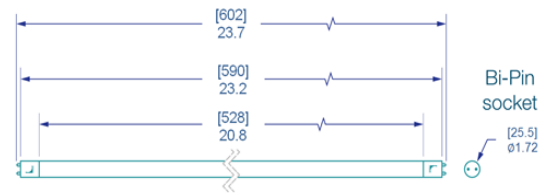
### Certifications & Qualifications

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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## Dimensions



## Application Notes

The Helen Lamp T8 may be used in open and 2-lamp IP67 rated enclosed fixtures. Indoors or outdoors.

This lamp supports shunted and non-shunted tombstones.

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

Estimated average performance data on 3000K CCT with LBF, NBF, and HBF ballast:

Ballast Factor	LBF (0.78)	NBF (0.88)	HBF (1.15)
Initial Lumens	900 lm	1200 lm *	1400 lm
System Watts	8.5W	11W*	13W

\*Reported by LM-79-08

## 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.