

## LUNERA T5HO/T5 LED 4FT

25W/11W LED Replacement for 4FT T5HO/T5 Fluorescent Lamps

Type A - Ballast Driven

### Description

The **LUNERA T5HO LED 4FT** is a plug-and-play (Type A, ballast driven) linear T-LED replacement for a 54W, G5 bi-pin T5HO fluorescent lamp. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start ballasts.

This beautiful LED lamp emits light with a 330° Beam Spread, has a Color Rendering Index (CRI) of 80+ and delivers up to 3,200 lumens of usable light. The T5HO/T5 LED 4FT features a glass tube for improved optics and is available in 3000K, 3500K, 4000K and 5000K color temperatures.

This lamp includes Overdrive Protection circuitry that will cause the lamp to strobe upon installation in the event of ballast incompatibility that is causing the lamp to be overdriven.

Additionally, the lamp is compatible with 28W T5 ballasts and may replace a T5 lamp. In this application, it is rated at 11W and delivers 1,300 lumens.

The LUNERA T5HO LED 4FT is rated at 50,000 hours. It is backed by a five-year warranty. This lamp contains no mercury allowing for non-hazardous waste disposal.

This lamp does not support line voltage.



### Features

- Directly replaces 54W 4FT bi-pin T5HO fluorescent lamps with 25W LED
- Also replaces 28W 4FT T5 fluorescent lamps with 11W LED (1,300lm)
- Supports plug-and-play ballast-driven installation
- Delivers up to 3,200 lumens (T5HO) or 1,300 lumens (T5) of usable light with >80 CRI
- Overdrive Protection
- CCT 3000K, 3500K, 4000K and 5000K
- 50,000 hours life to L70
- 5-Year Warranty



### Ordering Information

Example: HN-T5-D-48-25W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage	CCT	Generation
<b>HN</b> Lunera T5HO	<b>T5</b> Bi-pin G5 sockets	<b>D</b> Supports electronic T5HO and T5 fluorescent ballasts	<b>48</b> 48 inch tube	<b>25W</b> Replaces 54W 4FT T5HO with 3,200lm (or 28W T5 with 1,300lm @11W)	<b>830:</b> 3000K <b>835:</b> 3500K <b>840:</b> 4000K <b>850:</b> 5000K	<b>G1</b> 1st Generation Frosted

PROJECT	CONTACT	MODEL NO.
REFERENCE NO.	QUANTITY	DATE

## Product Specifications

### Illumination

Color Temperatures	3000K, 3500K, 4000K, 5000K
Delivered Lumens	T5HO: Up to 3,200lm T5: Up to 1,300lm
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	T5HO: 25W T5: 11W
Total Power*	28W
Lamp Wattage Replaced	Up to 54W (T5HO) / 28W (T5)
Dimming	Contact Lunera for Compatibility
Ballast Factor	<1
	The Lunera T5HO lamp may be used with Low Ballast Factor (LBF) and Normal Ballast Factor (NBF) electronic ballasts.
Overdrive Protection**	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	G5 bi-pin T5 socket (Shunted & Non-Shunted Tombstone)
Line Voltage	No, this lamp is NOT approved for use with line voltage.

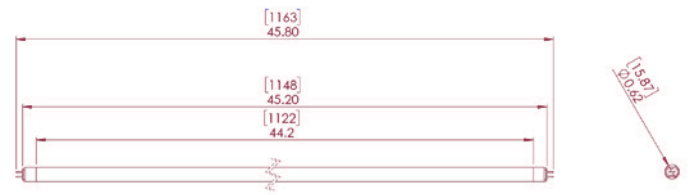
### Certifications & Qualifications

UL (US and Canada)	Recognized
RoHS Compliant	Contains no lead or mercury
DesignLights Consortium Listed	No (order Gen 2 version for DLC 4.1)
LM79, LM80, IES Files	Available. Contact Lunera.

### Warranty

Warranty	5 years
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## Dimensions



## Photometric and Power Data

Photometric and power data with 54W and 28W ballasts:

Ballast Type	System Power	Lamp Lumens
54W T5HO*	27.5W	3,200lm
28W T5HO**	10.6W	1,300lm

\* Performance with Sunpark 154T5HO

\*\* Performance with Sylvania 2x28T5/UNV

## Application Notes

The LUNERA T5HO LED 4FT may be used in open and enclosed fixtures, indoors or outdoors.

This lamp supports Shunted and Non-shunted tombstones.

*Product warranty will be voided if the lamp is installed:*

- with incompatible ballasts
- in gasketed, fully enclosed fixtures
- with broken, cracked, dusty or rusty tombstones
- in fixtures with improper ballast wiring
- while the fixture is energized (hot plug-in)

\* Total Power equals lamp power + ballast power.

\*\* A Current Regulator is integrated into select Lunera T5HO LED lamps to warn when there is a ballast overdrive condition. Upon installation, the lamp will strobe to if it is being overdriven and should be removed.

## 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.