

SYLVANIA Lamps

LEDlescent™ LED T5HE Lamps

Internal Driver/Line Voltage

Application

LEDlescent T5HE Ballast-Free lamps are an energy saving alternative, designed to replace traditional fluorescent T5HE lamps by bypassing the existing ballast to operate directly on 120-277V.

Benefits and Features

- Double ended platform where lamp is wired end-to-end preventing non passive failure of a fluorescent lamp should it be inadvertently installed in the fixture
- Built-in safety circuit prevents current from flowing through the lamp when only one end is engaged in the socket thereby eliminating potential shock hazard
- No risk of electrical arcing between the lamp pins and the lamp holders
- LPW: Up to 150W
- CCT: 3000K, 3500K, 4100K, 5000K
- CRI: 82
- Beam angle: 210°

Electrical

- Installed directly on 120-277V; no ballast required
- Power Factor >90%
- THD ≤25%
- Non-dimmable

Rated Life

- 50,000 hours (L₇₀)

Warranty

- Standard 5 year limited lamp warranty (24/7 operation)

Ambient Operating Range

- -4°F to +122°F (-20°C to +50°C)

Max Case Temperature

- 158°F (70°C)



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
28W T5 Fluorescent with QHE2x28T5/UNV PSN	62W	28W	55%

Certifications and Listings

- cULus
- RoHS
- FCC*
- Lead Free
- Mercury Free
- NSF
- DLC Listed

*This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Please visit: www.SYLVANIA.com/fccpart15b for more information.

Installation

Please refer to the Installation manual included inside the packaging and the application information listed below for more information.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

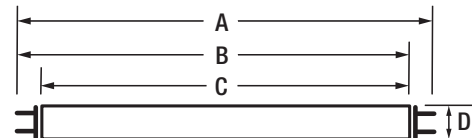
LED	XX	T5	HE	LXX	FG	8	XX	BF
LED	Wattage	Lamp Type	High Efficiency	Length	Finish	CRI	CCT	Ballast Free
LED Lamps and Retrofits	8 = 8 Watts 11 = 11 Watts 14 = 14 Watts	T5		24 = 24" 36 = 36" 48 = 48"	Frosted Glass	8 = 82	30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	

Ordering Information

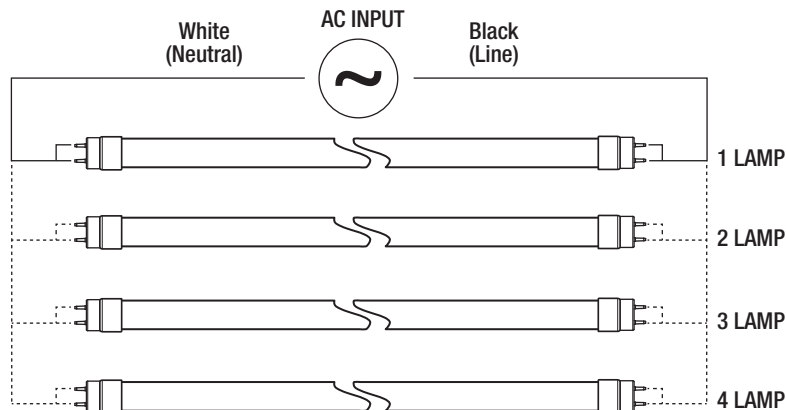
Item Number	Ordering Abbreviation	Lamp Length	Power (W)	Initial Lumens (lm)	Efficacy (LPW)	Color Temp. (CCT)	CRI	Beam Angle (°)	Package Qty	DLC
41071	LED8T5HEL24FG830BF	2ft	8	950	119	3000K	82	210	25	—
41072	LED8T5HEL24FG835BF	2ft	8	950	119	3500K	82	210	25	—
41073	LED8T5HEL24FG841BF	2ft	8	1000	125	4100K	82	210	25	—
41074	LED8T5HEL24FG850BF	2ft	8	1000	125	5000K	82	210	25	—
41075	LED11T5HEL36FG830BF	3ft	11	1400	127	3000K	82	210	25	—
41076	LED11T5HEL36FG835BF	3ft	11	1400	127	3500K	82	210	25	—
41077	LED11T5HEL36FG841BF	3ft	11	1500	136	4100K	82	210	25	—
41078	LED11T5HEL36FG850BF	3ft	11	1500	136	5000K	82	210	25	—
41079	LED14T5HEL48FG830BF	4ft	14	2000	143	3000K	82	210	25	Y
41080	LED14T5HEL48FG835BF	4ft	14	2000	143	3500K	82	210	25	Y
41081	LED14T5HEL48FG841BF	4ft	14	2100	150	4100K	82	210	25	Y
41082	LED14T5HEL48FG850BF	4ft	14	2100	150	5000K	82	210	25	Y

Physical Information

Lamp Description	(A) Max. Overall Length (in/mm)	(B) Base Face to Opposite Pin (in/mm)	(C) Max. Base Face to Base Face (in/mm)	(D) Max. Outside Diameter (in/mm)
LED8T5HE	22.17/563.2	21.89/556.0	21.61/548.9	0.67/17.0
LED11T5HE	33.98/863.1	33.71/856.2	33.43/849.1	0.67/17.0
LED14T5HE	45.8/1163.3	45.52/1156.2	45.24/1149.1	0.67/17.0



Wiring Diagram



- Note:
- LEDdescent™ lamp is polarity neutral. Can be installed in either direction.
 - Socket may be shunted or non-shunted. Tie socket leads together with an external jumper for a non-shunted socket.

Application Information

1. Not suitable for enclosed fixtures (air-tight). Suitable for open fixtures only.
2. Suitable for use in dry and damp environments; cannot come in direct contact with water.
3. Ensure lamp holders/sockets are in good operating condition before installation.
4. No socket change required. Sockets may be shunted or non-shunted. T5HE sockets are most commonly non-shunted. Tie socket leads together for non-shunted sockets as instructed in installation guide.
5. Not for emergency lighting.
6. Not to be used with dimmers.
7. Do not use LEDlescent™ T5HE lamps with external LED drivers or ballasts.
8. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
9. When installing the LEDlescent T5HE lamps, the UL rating of the existing fixture is not voided (even when it is electrically modified) since our LEDlescent T5HE lamp is UL Classified (as a luminaire conversion retrofit kit) under UL standard 1598C. UL1598C is the standard covering LED retrofits intended for an existing UL rated fixture. Since the user is retrofitting with a UL1598C classified LED kit, the installer must follow the installation instructions included with the lamps for the modified fixture to retain its UL rating.
10. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Lamps should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
11. Please read all installation instructions before attempting installation.
12. For detailed warranty information, please see www.sylvania.com/warranty.

Additional Specifications

- Optimized glass optics with miniature bi-pin G5 base
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- No UV emission
- Use with occupancy and vacancy sensors for enhanced energy savings

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