

SYLVANIA Lamps

LEDlescent™ LED T5HO Lamps

Internal Driver/Line Voltage Linear LED T5HO lamps

Application

LEDlescent T5HO Ballast-Free lamps are an energy saving alternative, designed to replace traditional fluorescent T5HO 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
- Patented 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 145W
- CCT: 3000K, 3500K, 4100K, 5000K
- Non-dimmable
- CRI: 82
- Beam angle: 180°

Electrical

- Installed directly on 120-277V; no ballast required
- Power factor >0.90, THD ≤20%

Rated Life

- 50,000 hours (L₇₀)

Warranty

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

Ambient Operating Range

- -4°F to 113°F (-20°C to 45°C)

Max Case Temperature

- 140°F (60°C)



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
54W T5HO Fluorescent with QHE2x54PSN	119W	48W	60%

Certifications and Listings

- cULus 1598C
- RoHS
- Lead Free
- Mercury Free
- NSF
- FCC*
- DLC

*FCC Title 47 CFR, Part 15 Subpart B Class B

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

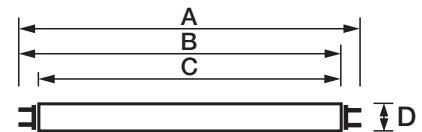
LED	24	T5HO	L48	FG	8	XX	BF
LED	Wattage 24 = 24 Watts	Lamp Type T5HO	Length 48"	FG = Frosted Glass	CRI 8 = 82	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	Ballast-Free

Ordering Information

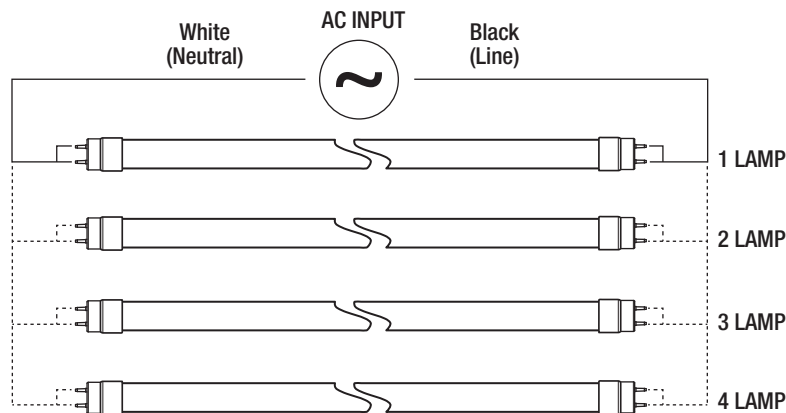
Item Number	Ordering Abbreviation	Power (W)	Lumens (lm)	Color Temperature	CRI	Light Emitting Area (°)	Beam Angle (°)	Package Qty	DLC Listed
40608	LED24T5HOL48FG830BF	24	3400	3000K	82	340	180	25	Yes
40609	LED24T5HOL48FG835BF	24	3400	3500K	82	340	180	25	Yes
40610	LED24T5HOL48FG841BF	24	3500	4100K	82	340	180	25	Yes
40611	LED24T5HOL48FG850BF	24	3500	5000K	82	340	180	25	Yes

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)
LED24T5HO	45.80/1163.2	45.42/1153.7	45.24/1149	0.67/17.0



Wiring Diagram



- Note:
1. LEDlescent™ lamp is polarity neutral. Can be installed in either direction.
 2. Sockets may be shunted or non-shunted. Tie socket leads together for non-shunted sockets.

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. T5HO 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™ T5HO 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 T5HO lamps, the UL rating of the existing fixture is not voided (even when it is electrically modified) since our LEDlescent T5HO lamp is UL Classified (as a luminaire conversion retrofit kit) under UL standard 1598C. UL 1598C 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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