

SYLVANIA Lamps

SubstiTUBE® LED T5HO

Application

SYLVANIA SubstiTUBE LED T5HO lamps are an energy saving alternative, designed to replace traditional fluorescent T5HO lamps. These LED T5HO lamps mimic the look of traditional fluorescent T5 HO lamps, contain no mercury and provide a uniform light distribution with an optimized glass optic design. SYLVANIA SubstiTUBE LED T5HO lamps are compatible with 120-277V and select 347V ballasts (for complete list of compatible ballasts please see the ballast compatibility list). Engineered to operate on select programmed rapid start electronic T5HO ballasts, these lamps minimize labor costs.

Benefits and Features

- Operates on programmed rapid start T5HO electronic ballasts with input voltage of 120-277V & 347V
- Suitable for dry and damp locations (cannot come in direct contact with water)
- Suitable for open fixtures
- Beam angle: 180°
- Reduces energy consumption up to 54%
- Up to 129 LPW (System Efficacy)
- 3000K, 3500K, 4100K and 5000K color temperatures
- CRI 82

Electrical

- Power Factor 90%
- Dimmable with compatible dimming ballasts

Rated Life

- 50,000 hours (L₇₀)

Warranty

- 5 year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program

Ambient Operating Range

- -4°F to 122°F (-20°C to 50°C)



Wattage Comparison

| Traditional Source | Traditional System Wattage | LED System Wattage | Energy Savings |
|---|----------------------------|--------------------|----------------|
| 54W T5 Fluorescent with QHE2x54T5HO/UNV PSN | 120 | 55 | 54% |

Certifications and Listings

- cULus
- NSF
- RoHS
- Lead Free
- Mercury Free
- DLC 5.1 Standard



Specification Data

| | |
|-------------|------|
| Catalog # | Type |
| Project | |
| Comments | |
| Prepared by | |

Ordering Guide

| LED | XX | T5HO | L48 | FG | 8 | XX | SUB | G8 |
|-----|--------------------------|-------------------|---------------------|----------------------------|---------------|---|---|-------------------|
| LED | Wattage 24 = 24 Watts | Lamp Type T5HO | Length 48 inches | Finish Frosted Glass | CRI 8 = 82 | Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K | SubstiTUBE® (Compatible LED T5HO for use with select programmed rapid start T5HO electronic ballasts | G8 = Generation 8 |

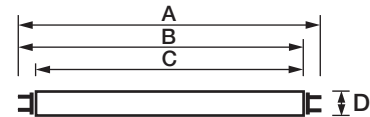
Ordering Information

| Item Number | Ordering Abbreviation | Lamp Power (W) ¹ | Lamp Lumens (lm) ¹ | Color Temp | CRI | Beam Angle (°) | Package Quantity | DLC (Y/N) |
|-------------|------------------------|-----------------------------|-------------------------------|------------|-----|----------------|------------------|-----------|
| 41083 | LED24T5HOL48FG830SUBG8 | 24 | 3300 | 3000K | 82 | 180 | 25 | Y |
| 41084 | LED24T5HOL48FG835SUBG8 | 24 | 3300 | 3500K | 82 | 180 | 25 | Y |
| 41085 | LED24T5HOL48FG841SUBG8 | 24 | 3500 | 4100K | 82 | 180 | 25 | Y |
| 41086 | LED24T5HOL48FG850SUBG8 | 24 | 3500 | 5000K | 82 | 180 | 25 | Y |

¹Lamp Power and Lamp Lumens rated on QHE2x54T5HO/UNV PSN
Please contact your LEDVANCE product sales representative for additional information.

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) |
|------------------|---------------------------------|---------------------------------------|---|-----------------------------------|
| LED25T5HO | 45.80/1163 | Min. 45.42/1154 | Min. 45.16/1147 | 0.67/17.0 |
| LED24T5HO | | Max. 45.52/1156 | Max. 45.24/1149 | |



Specifications & Lighting Data

| Lamp | Ballast | Current (AMPS) | System Power (W) | System Lumens (lm) | System Efficacy (lm/W) | No. of Lamps |
|-----------|--------------------------------|----------------|------------------|--------------------|------------------------|--------------|
| LED25T5HO | QHE2x54T5HO/UNV PSN | 0.52/0.22 | 56 | 7000 | 125 | 2 |
| LED24T5HO | QHE2x54T5HO/UNV PSN | 0.46/0.21 | 55 | 7000 | 127 | 2 |
| LED24T5HO | QHE2x54T5HO/347-480 PSN HT MCL | 0.16 | 54 | 7000 | 129 | 2 |

Application Information

Application Notes

1. Not suitable for enclosed fixtures (air-tight).
2. Due to numerous ballast designs and topologies, this lamp should be tested on existing ballasts before mass quantities are installed.
3. 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.
4. Insert and align tubes properly in lamp holders. Partial insertion results in a poor or intermittent electrical contact that can result in short lamp life and arcing. Arcing at the lamp holder can result in localized overheating.
5. Operating temperature range between -4°F and 122°F (-20°C and 50°C).
6. Suitable for use in dry and damp environments.
7. Maximum mounting distance between tube and ballast is 20 feet.
8. Due to the programmed rapid start coil-heat circuitry, start times of lamps within a fixture may vary, but all reach maximum lumen output in less than one second.
9. Please read all installation instructions before attempting installation.
10. For detailed warranty information, please see www.ledvanceUS.com.
11. No de-lamping is allowed on any SubstiTUBE T5HO product.

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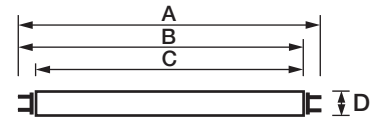
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