

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

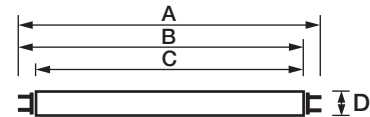
Ordering Information

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.

LEDVANCE LLC
181 Ballardvale Street
Wilmington, MA 01887 USA
Phone 1-800-LIGHTBULB (1-800-544-4828)
www.ledvanceUS.com

SYLVANIA and LEDVANCE are registered trademarks.
All other trademarks are those of their respective owners.
Licensee of product trademark SYLVANIA in general lighting.
Specifications subject to change without notice.



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

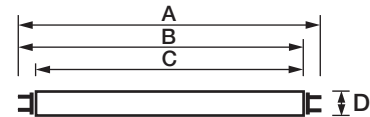
Ordering Information

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.

LEDVANCE LLC
181 Ballardvale Street
Wilmington, MA 01887 USA
Phone 1-800-LIGHTBULB (1-800-544-4828)
www.ledvanceUS.com

SYLVANIA and LEDVANCE are registered trademarks.
All other trademarks are those of their respective owners.
Licensee of product trademark SYLVANIA in general lighting.
Specifications subject to change without notice.

