PENTRON® HO SUPERSAVER® ECOLOGIC®

High Output, Energy Saving T5 Linear Fluorescent Lamps



PENTRON HO SUPERSAVER T5 lamps operate on standard T5 HO programmed rapid start systems, in order to save energy over existing T5HO systems. When compared with existing 54W T5HO lamps, the 47W lamp offers energy savings of up to 13% while maintaining 92% of light output and the 50W lamp offers up to 7% energy savings with no loss in lumen output. At \$0.11/kWh and 4,000 hours of operation per year, the 7 to 13% savings translates to savings of \$7.04 to \$12.32 per fixture per year for a 4-lamp fixture. The 93% mean lumen rating of PENTRON HO SUPERSAVER lamps assures that light levels are maintained while energy is saved, over a very long life of up to 40,000 hours (12 hours/start). For maximum system efficacy and performance, consider pairing PENTRON HO SUPERSAVER lamps with OSRAM QUICKTRONIC QHE high efficiency electronic ballasts.²

Key Features & Benefits

- Energy saving replacements for T5H0 lamps
- Up to 13% energy savings with similar light levels
- Long life on programmed rapid start ballasts
 - 45,000 hours at 12 hours per start (FP54)
 - 40,000 hours at 3 hours per start (FP54)
- Lead-free glass, TCLP & RoHS compliant¹

- 85 CRI
- Made in USA
- High efficacy
 - 50W: 100LPW (5000K: 96LPW)
 - 47W: 97LPW (5000K: 93LPW)
- QUICK 60+® system warranty when paired with QUICKTRONIC® electronic T5HO PROstart®









ECOLOGIC® is a comprehensive program focused on addressing environmental issues at all stages of lamp life.

SYLVANIA PENTRON SUPERSAVER HO ECOLOGIC lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP¹) criteria for classification as non-hazardous waste in most states.

¹ TCLP test results are based on NEMA LL Series standards and are available on request. (Regulations may vary, check your local and state regulations.) Complies with European Union Restriction of Hazardous Substances Directive (Directive 2002/95/EC).

Product Offering

Description	Wattage	ССТ
FP54/47W/800/H0/SS/EC0	47	4100K, 5000K
FP54/50W/800/H0/SS/EC0	50	3000K, 3500K, 4100K, 5000K

Application Information

Applications

- Canopy
- Cove
- Facade
- High bay
- SecuritySignage
- Suspended direct/indirect

Fixtures

Contact your local fixture agent for available fixtures.

Application Notes

- 1. All PENTRON lamps are about 2" shorter than T8 and T12 bi-pin lamps.
- 2. Miniature bi-pin bases cannot be installed into T8 and T12 sockets.
- 3. Miniature bi-pin bases require UL Listed 600 Volt rated sockets.
- 4. PENTRON HO lamps require programmed rapid start electronic ballasts for T5 HO lamps, equipped with end-of-lamp life sensing circuit.
- For compatibility with OSRAM QUICKTRONIC ballasts, please refer to the latest ballast specifications.
- 6. Contact ballast manufacturer for compatibility with reduced-wattage lamps.



 $^{^{\}rm 2}$ For compatibility with OSRAM QUICKTRONIC ballasts, please refer to the latest ballast specifications.

Specification Data



Ordering Information

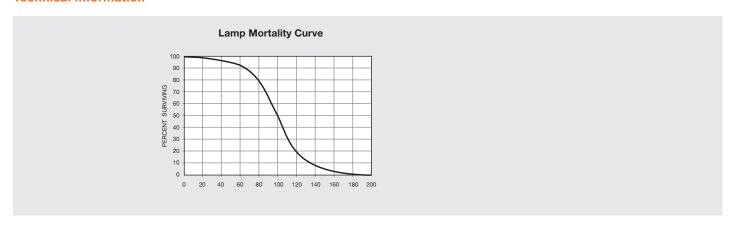
					Avg. Rated	Avg. Rated	Initial	Mean		Initial	Mean				
Item	Ordering				Life (hrs.)	Life (hrs.)	Lumens	Lumens ¹		Lumens	Lumens*				
Number	Abbreviation	Watts	Bulb	Base	3 hrs/st	12 hrs/st	@35°C	@35°C	LPW	@25°C	@25°C	CCT	CRI		
20447	FP54/47W/841/H0/SS/EC0	47	T5	Mini Bi Pin	40,000	45,000	4,575	4,255	97	4,050	3,765	4100K	85		
20448	FP54/47W/850/H0/SS/EC0	47	T5	Mini Bi Pin	40,000	45,000	4,390	4,085	93	3,950	3,675	5000K	85		
21070	FP54/50W/830/H0/SS/EC0	50	T5	Mini Bi Pin	40,000	45,000	5,000	4,650	100	4,450	4,140	3000K	85		
21071	FP54/50W/835/H0/SS/EC0	50	T5	Mini Bi Pin	40,000	45,000	5,000	4,650	100	4,450	4,140	3500K	85		
20964	FP54/50W/841/H0/SS/EC0	50	T5	Mini Bi Pin	40,000	45,000	5,000	4,650	100	4,450	4,140	4100K	85		
21072	FP54/50W/850/H0/SS/EC0	50	T5	Mini Bi Pin	40,000	45,000	4,800	4,465	96	4,250	3,955	5000K	85		

^{1.} Measured at 40% of rated life.

Ordering Guide

FP	54	1	50W	1	8	30	1	НО	1	SS	/	ECO
Fluorescent	Lamp		Wattage		CRI	30 = 3000 K CCT		High		SUPERSAVER®		ECOLOGIC®
PENTRON®	Туре		47 or 50		85+ CRI	35 = 3500K CCT 41 = 4100K CCT		Output				
						50 = 5000 K CCT						

Technical Information



Lamp Dimensions

(A) Max.	(B) Base Face	(C) Max. Base	(D) Max.	A
Overall	to Opposite	Face to Base	Outside	B
Length (in.)	Pin (in.)	Face (in.)	Diameter (in.)	C
45.80"	Min. 45.41" Max. 45.51"	45.24"	0.67"	1

Sample Specification

Lamps shall be PENTRON® HO SUPERSAVER® ECO® T5 lamps (47W or 50W) having miniature bi-pin bases and a minimum of 93% lumen maintenance. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K, 5000K), a CRI of 85 and a life rating of 30,000 hours @ 3 hours per start. The PENTRON HO SUPERSAVER ECO lamps shall be operated on dedicated OSRAM QUICKTRONIC® ballasts with complete system warranty from the manufacturer covering lamps and ballasts.

Related Literature

For optimum system performance and warranty pair with these OSRAM QUICKTRONIC Ballast Systems:

QUICKTRONIC PROStart® T5HO Universal Voltage (ECS228)

QUICKTRONIC PROStart T5HO Universal Voltage High Ambient Temperature (ECS229)

QUICKTRONIC PROStart T5HO 347V-480V High Ambient Temperature (ECS202)

QUICKTRONIC PROStart T5HO Universal Voltage 0.80 Ballast Factor (ECS230)

QUICK 60+® System Warranty (ECS140)

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