

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 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% savings translates to savings of \$7.04 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).

Benefits and Features

- Energy saving replacements for T5HO lamps
- Up to 7% energy savings with similar light levels
- Long life on programmed rapid start ballasts
 - 45,000 hours at 12 hours per start
 - 40,000 hours at 3 hours per start
- Lead-free glass, TCLP & RoHS compliant¹
- 85 CRI
- High efficacy
 - 50W: 100LPW
 - (5000K: 96LPW)

Applications

- Canopy
- Cove
- Facade
- High bay
- Security
- Signage
- Suspended direct/indirect

Fixtures

Contact your local fixture agent for available fixtures.



Product Offering

Description	Wattage	Color Temperature
FP54/50W/800/HO/SS/ECO	50	4100K, 5000K

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).



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

FP	54	/	50W	/	8	X	/	H0	/	SS	/	ECO
Fluorescent	Lamp		Wattage		CRI	41 = 4100K CCT		High		SUPERSAVER®		ECOLOGIC®
PENTRON®	Type		50		85+ CRI	50 = 5000K CCT		Output				

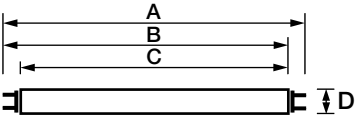
Ordering Information

Item					Avg. Rated Life (hrs.)	Avg. Rated Life (hrs.)	Initial Lumens	Mean Lumens¹		Initial Lumens	Mean Lumens¹		
Number	Ordering Abbreviation	Watts	Bulb	Base	3 hrs/st	12 hrs/st	@ 35°C	@ 35°C	LPW	@ 25°C	@ 25°C	CCT	CRI
20964	FP54/50W/841/H0/SS/ECO	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/ECO	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.

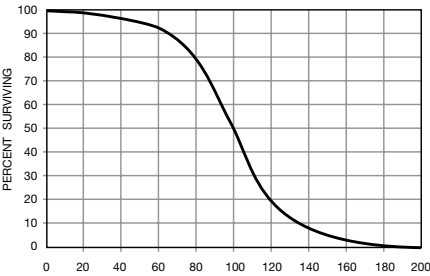
Lamp Dimensions

	(A) Max. Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
FP54/50W	45.80"	Min. 45.41" Max. 45.51"	45.24"	0.67"



Technical Information

Lamp Mortality Curve



Sample Specification

Lamps shall be PENTRON® HO SUPERSAVER® ECOLOGIC® 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 ECOLOGIC lamps shall be operated on dedicated ballasts.

Application Information

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 or T5 HO lamps, equipped with end-of-lamp life sensing circuit.
5. Contact ballast manufacturer for compatibility with reduced-wattage lamps.

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