

PENTRON® SUPERSAVER® HO ECOLOGIC®

High Output FP54 50W T5 Linear Fluorescent Lamp



PENTRON SUPERSAVER T5 HO lamps operate on standard T5 programmed rapid start systems and provide 7% energy savings over standard 54 Watt PENTRON lamps with no loss in lumen output! At \$0.10/kWh and 4,000 hours of operation per year, the 6% savings translates to a savings of \$5.60 per fixture per year for a 4-lamp fixture with a normal ballast factor, programmed rapid start ballast. The 93% lumen maintenance of the PENTRON P54/50W/800/HO/SS/ECO lamp assures that light levels are maintained while energy is saved. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Group re-lamp to realize the benefits of these PENTRON lamps in your facility.

Key Features & Benefits

- TCLP compliant¹
- 3000K, 3500K, 4100K and 5000K Color Temperatures
- No light loss compared to standard lamps
- 93% lumen maintenance factor
- QUICK 60+® system warranty when paired with QUICKTRONIC® electronic ballasts
- Designated for use on Programmed rapid start ballast
 - 40,000 hours life at 12 hours per start
 - 30,000 hours life at 3 hours per start
- RoHS compliant
- 100 lumens/Watt (5000K: 96lm/W)

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



SYLVANIA PENTRON SUPERSAVER HO ECOLOGIC lamps pass the Federal Toxic Characteristic Leaching Procedure (TCLP) 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.)

Product Offering

Item Number	Description
21070	FP54/50W/830/HO/SS/ECO
21071	FP54/50W/835/HO/SS/ECO
20964	FP54/50W/841/HO/SS/ECO
21072	FP54/50W/850/HO/SS/ECO

Application Information

Applications

- Canopy lighting
- Facade lighting
- Indirect lighting
- Industrial and warehouse lighting
- Security lighting
- Sign lighting

Fixtures

Contact your local fixture agent for available fixtures.



Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible electronic operating systems.

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. FP54/50W/830/HO/SS/ECO lamps require programmed rapid start electronic ballasts for T5 HO lamps, equipped with end-of-lamp life sensing circuit.



Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Expected Life (hrs.) 12 hrs/st	Avg. Rated Life (hrs.) 3 hrs/st	Initial Lumens @35°C ¹	lm/W	Initial Lumens @25°C ^{1,2}	CCT	CRI
21070	FP54/50W/830/HO/SS/ECO	50	T5	Mini Bi Pin	40,000	30,000	5,000	100	4,450	3000K	85
21071	FP54/50W/835/HO/SS/ECO	50	T5	Mini Bi Pin	40,000	30,000	5,000	100	4,450	3500K	85
20964	FP54/50W/841/HO/SS/ECO	50	T5	Mini Bi Pin	40,000	30,000	5,000	100	4,450	4100K	85
21072	FP54/50W/850/HO/SS/ECO	50	T5	Mini Bi Pin	40,000	30,000	4,800	96	4,250	5000K	85

1. Measured at 35°C

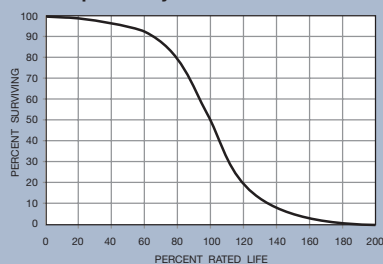
2. Measured at 40% of rated life

Ordering Guide

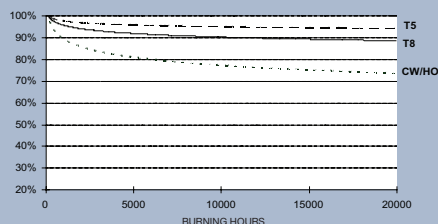
FP	54	/	50W	/	8	30	/	HO	/	SS	/	ECO
FLUORESCENT	Lamp		Wattage		CRI	30 = 3000K CCT		High		SUPERSAVER®		ECOLOGIC®
PENTRON®	Type		50		80+ CRI	35 = 3500K CCT		Output				
						41 = 4100K CCT						
						50 = 5000K CCT						

Technical Information

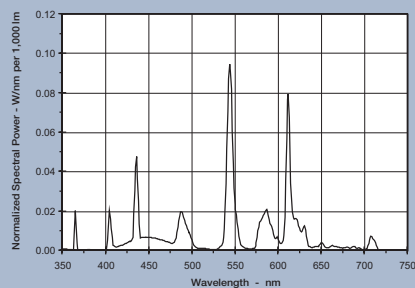
Lamp Mortality Curve



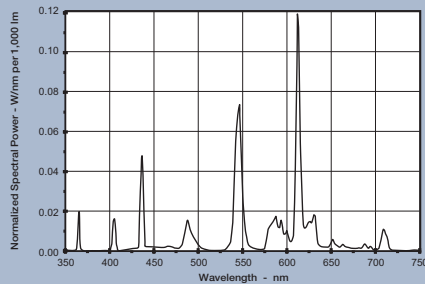
Lumen Maintenance



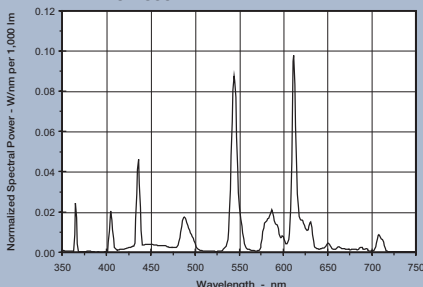
PENTRON 841



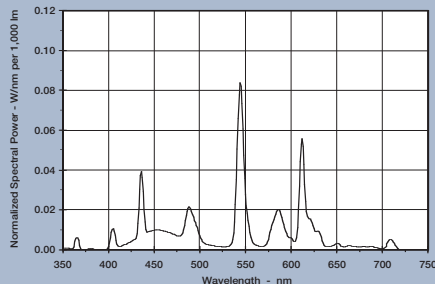
PENTRON 830



PENTRON 835

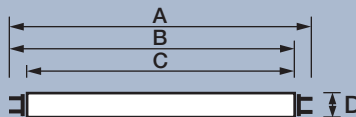


PENTRON 850



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	45.80"	Min. 45.41" Max. 45.51"	45.24"	0.67"



Specification Data

Catalog #

Type

Project

Comments

Prepared by

Date

Sample Specification

Lamps shall be PENTRON T5 HO SUPERSAVER ECO® lamps having miniature bi-pin bases and a minimum of 93% lumen maintenance. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K, 5000K) and a CRI of 85. The PENTRON T5 HO SUPERSAVER ECO lamps shall be operated on dedicated QUICKTRONIC® PHO ballasts having a primary voltage of (120V, 277V) with complete system warranty from the manufacturer covering lamps and ballasts.

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