

PENTRON® HO ECONOMY ECOLOGIC®

High Output T5 Linear Fluorescent Lamps



PENTRON HO ECONOMY ECOLOGIC lamps offer an economical option for 4-foot T5 fluorescent applications. These lamps are available in a wide range of color temperatures: 3000K, 3500K, 4100K and 5000K.

Key Features & Benefits

- Low-cost alternative for 4-foot T5 lamp applications
- 78 lumens per Watt
 - 76 LPW with lamps that have a CCT of 5000K
- 90% lumen maintenance
- Peak lumen output at 35°C (95°F)
- TCLP and RoHS compliant
- Nominal length 4'
 - Approx. 2" shorter than T8 lengths
- Miniature Bi-Pin base
- Designed for high frequency electronic ballasts



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

* Regulations may vary. Check your local & state regulations.



Product Offering

Order Abbreviation	Watts	CCT
FP54/800/HO/ECONOMY/ECO	54	3000K, 3500K, 4100K, 5000K

Application Information

Applications

- Canopy
- High bay fixtures
- Indirect luminaires
- Signage

Application Notes

1. PENTRON HO ECONOMY ECOLOGIC lamps are about 2" shorter than T8 & T12 Bi-Pin lamps.
2. Miniature Bi-Pin bases will not install into T8 & T12 sockets.
3. Miniature Bi-Pin bases require UL Listed 600 Volt rated sockets.
4. Requires high frequency programmed rapid start electronic ballasts for T5s equipped with end-of-life sensing circuit.
5. Apply thermal factor in calculations for use in exterior or unheated applications.



Ordering Information

Item Number	Ordering Abbreviation	Watts	Nominal Length	Initial Lumens @25°C	Initial Lumens @35°C	MOL (mm)	Rated Life		Color Temp.	CRI
							3 hrs./start	12 hrs./start		
21138	FP54/830/HO/ECONOMY/ECO	54	48	3738	4200	1,163.20	20,000	26,000	3000K	82
21139	FP54/835/HO/ECONOMY/ECO	54	48	3738	4200	1,163.20	20,000	26,000	3500K	82
21140	FP54/841/HO/ECONOMY/ECO	54	48	3738	4200	1,163.20	20,000	26,000	4100K	82
21141	FP54/850/HO/ECONOMY/ECO	54	48	3649	4100	1,163.20	20,000	26,000	5000K	82

Ordering Guide

PENTRON HO FP54/800/HO ECONOMY ECOLOGIC

FP	54	/	8	30	/	HO	/	ECONOMY/ECO
Fluorescent	54 Watts		8 = 82 CRI	30 = 3000K CCT		High Output		ECONOMY
PENTRON T5 HO				35 = 3500K CCT				ECOLOGIC
				41 = 4100K CCT				
				50 = 5000K CCT				

System Comparison

PENTRON HO ECOLOGIC vs. PENTRON HO ECONOMY ECOLOGIC

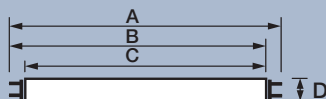
Lamp	Lamp Type	# Lamps	Ballast	BF	System Watts	Initial System Lumens	Lumen Maint.	Mean System Lumens	Relative Light Output	Mean System LPW
FP54/800/HO/ECO	T5	1	System PHO	1.0	61	4,450	0.93	4,140	105%	68
FP54/841/HO/ECONOMY/ECO	T5	1	System PHO	1.0	61	3,738	0.90	4,140	105%	68

For complete energy saving system details, refer to our OSRAM SYLVANIA "BALLAST TECHNOLOGY & SPECIFICATION GUIDE" on www.sylvania.com.

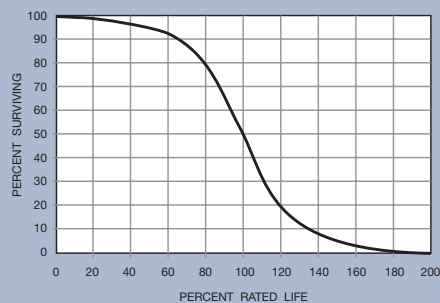
Technical Information

Dimensions

Ordering Abbreviation	(A) Max. Overall Overall Length mm (in.)	(B) Base Face to Opposite Pin mm (in.)	(C) Base Face to Base Face mm (in.)	(D) Max. Outside Diameter mm (in.)
FP54/HO/ECONOMY ECO	1163.2 (45.80)	1153.7 - 1156.1 (45.42 - 45.52)	1147.1 - 1149.0 (45.16 - 45.24)	17.0 (0.67)



Typical Fluorescent Lamp Mortality



Specification Data

Catalog #	
Type	
Project	
Comments	
Prepared by	
Date	

Sample Specification

Lamps shall be PENTRON® T5 HO ECONOMY ECOLOGIC® lamps having miniature bi-pin bases and a minimum of 90% lumen maintenance. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K and 5000K) and a CRI of 82. The PENTRON T5 HO 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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