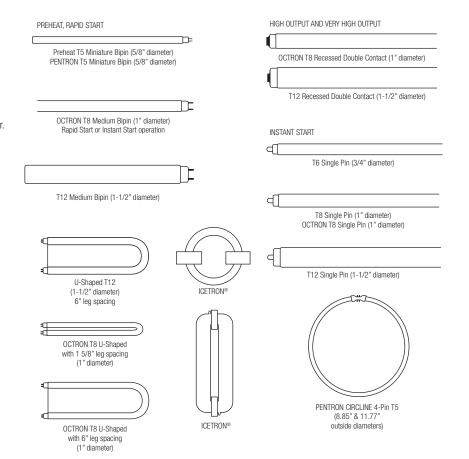
FLUORESCENT LAMPS

The bulb shape and size of a fluorescent lamp are expressed by means of a code consisting of the letter "T" (which designates that the bulb is "tubular" in shape) followed by a number that expresses the diameter in eighths of an inch. Diameters range from T5 at 5%" diameter to T17 (21/8 inch). In nominal overall length, linear fluorescent lamps range from 6 to 96 inches. The nominal length is measured from back of lamp holder to back of lamp holder. For example, the actual overall length of the 40-watt rapid start T12 lamp with a nominal length of 48 inches is $47^{3}/_{4}$ inches. The nominal length given for PENTRON® linear lamps is the closest familiar nominal length. CURVALUME® U-shaped fluorescent lamps are available as OCTRON® T8 lamps with leg spacings of 15% inches and 6 inches and as rapid start T12 lamps with 6 spacings of 6 inches. The leg spacing is measured from the center of one leg to the center of the other leg. The overall length of the CURVALUME lamps is measured from the face of the bases to the outside of the glass bend. Circline lamps, which are circular in shape, are available in PENTRON T5 lamps with outside diameters of 8.85 and 11.77 inches.

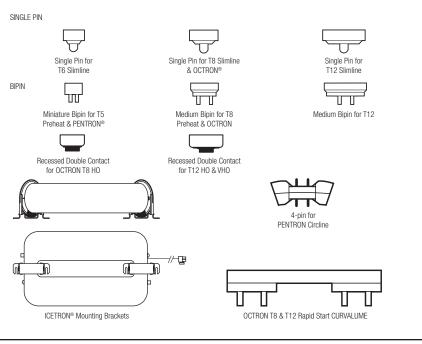




BASES

For linear Preheat and Rapid Start Lamps, four electrical contacts are required, two at each end of the lamp. This is accomplished in the standard line of lamps by the use of a miniature bipin base for T5 lamps and a medium bipin for T8 and T12 lamps. The OCTRON® T8 medium bipin lamps may also be operated as instant start lamps with the proper wiring and ballasts. When operating OCTRON bipin lamps with instant start ballasts, the two contacts in the lamp holder are shorted together and connected to the single circuit in the ballast. In Circline lamps, the cathodes are connected to a 4-pin base located between the junction of the two ends of the lamp. High Output (HO) and Very High Output (VHO) lamps have recessed double contact (RDC) type bases. Slimline Instant Start lamps require only two electrical

on each lamp end and have single pin bases.



HOW TO READ PRODUCT INFORMATION - FLUORESCENT

Nominal Bulb Wattage Shape		MOL (in)			Ordering Abbreviation	Pkg Qty	Life @ 3hrs/ start IS	Life @ 12hrs/ start IS	Life @ 3hrs/ start PRS	Life @ 12hrs/ start PRS	ССТ	CRI	Approx. Lumens Initial (Mean) at 25°C/77°F	Notes	
28 T8	48	47.78	Med Bipin	22483	F028/835/XPPLUS/SS/EC03	30	24000	46000	46000	52000	3500	85	2675 (2515)	/ , <u>♣</u> ,3, 12,13,17,19	
				22484	F028/841/XPPLUS/SS/EC03	30	24000	46000	46000	52000	4100	85	2675 (2515)	/ , <u>♣</u> ,3, 12,13,17,19	
				22485	F028/850/XPPLUS/SS/EC03	30	24000	46000	46000	52000	5000	81	2675 (2515)	/ , <u>♣</u> ,3, 12,13,17,19	
Nominal Wattage Named wattage on reference ballast. Actual wattage depends on ballast.															
Bulb Describes the shape of the bulb followed by the bulb's diameter at its widest point. The diameter value is expressed in eighths of an inch. Ex. T = Tubular, $8 = \frac{8}{8}$ inch = 1 inch. Please see page 80 for bulb illustrations.												h.			
Base		Ple	Please see page 80 for base illustrations.												
Nominal Len	gth	lar ler	The nominal length of linear fluorescent lamps is typically measured from back of lampholder to back of lampholder. PENTRON® linear lamp, CURVALUME® and Circline lamps are exceptions. The nominal length given for PENTRON linear lamps is the closest familiar nominal length. CURVALUME lamps are measured from the face of the bases to the outside of the glass bend. The measurement for Circline lamps is the outside diameter. Values are in inches.												
MOL		Ma	aximun	n overall lei	ngth. The length of the lamp measur	red in i	nches.								
Symbols & Footnotes			,		ootnotes that apply to a specific proescent section.	duct w	II appear i	in this spa	ice. The ex	(planation	s of the s	symbol	s and footnotes are	e at	
Ordering Abbreviation		A	text de	scription of	the lamp. Please see below for sev	eral ex	amples an	d explana	tions of so	ome of the	codes.				
CCT		Со	rrelate	d Color Ter	nperature. The degree of "whiteness	s" of th	e light. Exp	oressed in	Kelvins (I	(). Please	see page	e 114 f	for more informatio	n.	
CRI		Со	lor Rer	ndering Ind	ex. A numbering system for rating the	ne relat	ive color r	endering (quality of	a light sou	rce com	pared t	to a standard.		
Initial & Mean Lumen	ıs	life	Color Rendering Index. A numbering system for rating the relative color rendering quality of a light source compared to a standard. Initial lumens are measured when the lamp has been operating for 100 hours. Mean lumens are typically measured at 40% of the rated life of the lamp. Fluorescent lamp lumens are typically measured at 25°C (77°F). The lamp lumens are measured at both 25°C (77°F) and 35°C (95°F) for PENTRON® linear lamps.												

HOW TO READ ORDERING ABBREVIATIONS

F0	32/835XP/EC0	F34CWX/SS			/830/H0/EC0	F96T12/CWX/SS/UPC			
F 0 32 8 35 XP		F 34 CWX SS	Fluorescent Nominal lamp wattage Cool White Deluxe Phosphor SUPERSAVER® – reduced wattage lamp	F P 54 8 30 H0	Fluorescent PENTRON® Nominal lamp wattage 85 CRI 3000K CCT High Output	SS	Fluorescent 96" nominal length Tubular Shape Bulb Bulb diameter; 1% inch = 1½ inches Cool White Deluxe phosphor SUPERSAVER – reduced wattage lamp		
EC	0® ECOLOGIC® – TCLP passing lamp			ECO [©]	© ECOLOGIC® — TCLP passing lamp	UPC	UPC Label		

LAMP DISPOSAL LABELING

The following information appears on the packages of fluorescent lamps.



LAMP CONTAINS MERCURY

Manage in accordance with disposal laws See www.lamprecycle.org or 1-866-666-6850

For weight and measurement information, please visit www.sylvania.com

PENTRON® T5 & T5H0 FLUORESCENT LAMPS (cont.)

PENTRON High Perfomance T5 ECOLOGIC® Lamps

Nominal Wattage	Bulb Shape	Nom. Length (in)	MOL (in)	Base	Product Number	Ordering Abbreviation	Pkg Qty	Average Rated Life @3hrs/ start (hrs)	Average Rated Life @12hrs/ start (hrs)	CCT (K)	CRI	Lumens Initial (Mean) at 25°C/77°F	Lumens Initial (Mean) at 35°C/95°F	Notes
14	T5	24	22.5	Mini Bipin	20907	FP14/830/EC0	40	25000	28000	3000	85	1200 (1140)	1350 (1285)	, <u> </u>
					20908	FP14/835/EC0	40	25000	28000	3500	85	1200 (1140)	1350 (1285)	, <u> </u>
					20914	FP14/841/EC0	40	25000	28000	4100	85	1200 (1140)	1350 (1285)	, <u>,,</u> 3,12, 13,14,17,24
					20988	FP14/865/EC0	40	25000	28000	6500	85	1100 (1140)	1300 (1285)	, <u>,,3,12,</u> 13,14,17,24
21	T5	36	34	Mini Bipin	20919	FP21/830/EC0	40	25000	28000	3000	85	1900 (1805)	2100 (1995)	, <u></u> ,3,12, 13,14,17,24
					20921	FP21/835/EC0	40	25000	28000	3500	85	1900 (1805)	2100 (1995)	, ,3,12, 13,14,17,24
					20924	FP21/841/EC0	40	25000	28000	4000	85	1900 (1805)	2100 (1995)	, <u> </u>
					20989	FP21/865/EC0	40	25000	28000	6500	85	1750 (1665)	2000 (1900)	, <u> </u>
28	T5	48	45.8	Mini Bipin	20868	FP28/830/EC0	40	30000	36000	3000	85	2600 (2470)	2900 (2755)	E, , , 3, 12,13,14,17,24
					20901	FP28/835/EC0	40	30000	36000	3500	85	2600 (2470)	2900 (2755)	E, , , 3,
					20902	FP28/841/EC0	40	30000	36000	4100	85	2600 (2470)	2900 (2755)	E, , , 3, 12,13,14,17,24
					22203	FP28/850/EC0	40	30000	36000	5000	85	2500 (2375)	2840 (2700)	E, , , 3, 12,13,14,17,24
					20990	FP28/865/EC0	40	30000	36000	6500	85	2400 (2230)	2750 (2615)	E, , , 3, 12,13,14,17,24
35	T5	60	57.6	Mini Bipin	20925	FP35/830/EC0	40	25000	28000	3000	85	3300 (3135)	3650 (3470)	, <u> </u>
					20926	FP35/835/EC0	40	25000	28000	3500	85	3300 (3135)	3650 (3470)	, ,3,12, 13,14,17,24
					20927	FP35/841/EC0	40	25000	28000	4100	85	3300 (3135)	3650 (3470)	, <u> </u>

PENTRON HO XL High Output Extended Life High Performance T5 ECOLOGIC Lamps

Nominal Wattage	Bulb Shape	Nom. Length (in)	MOL (in)	Base	Product Number	Ordering Abbreviation	Pkg Qty	Average Rated Life @3hrs/ start (hrs)	Average Rated Life @12hrs/ start (hrs)	CCT (K)	CRI	Lumens Initial (Mean) at 25°C/77°F	Lumens Initial (Mean) at 35°C/95°F	Notes
54	T5	48	45.8	Mini Bipin	20197	FP54/835/H0/XL/EC0	40	45000	60000	3500	85	4450 (4140)	5000 (4650)	E, , 3, 12,13,14,17,24
					20198	FP54/841/H0/XL/EC0	40	45000	60000	4100	85	4450 (4140)	5000 (4650)	E, , , , , , , , , , , , , , , , , , ,
					20199	FP54/850/H0/XL/EC0	40	45000	60000	5000	85	4360 (4055)	4900 (4560)	E, , , , , , 3, 12,13,14,17,24