

LINEAR FLUORESCENT LAMPS



CONTENTS

- 78** How to Read a Table
- 79** T5, T8, T12 Preheat Lamps
- 79** T5 Programmed Start Lamps
- 80** T8 Rapid Start Lamps
- 82** T12 Rapid Start Lamps
- 82** T6, T12 Slimline Instant Start Lamps
- 83** T8, T12 High Output Lamps
- 83** T8, T12 Very High Output Lamps
- 83** T8, T12 U-Bend Lamps
- 84** T5, T9 Circline Lamps
- 84** T8, T12 Appliance Lamps
- 84** T5, T8, T12 Blacklight & Blacklight-Blue
- 85** Base and Bulb Identification
- 86** Cross Reference Guide
- 90** Symbols, Footnotes and Abbreviations

HOW TO READ A LINEAR FLUORESCENT LAMP TABLE

BULB

Designations indicate shape and size. Illustrations can be found on page 85. and at the top of each page.

WATTS

Indicates the power consumed by the lamp during operation.

PRODUCT CODE

Abbreviated product description can also be used for ordering. A key to abbreviations can be found on page 91.

PACKAGE QUANTITY

Indicates minimum sell quantity and smallest shipping carton.

COLOR TEMP.

A term used to describe the color of a light source and is expressed in degrees "Kelvin"(K).

AVERAGE LIFE

Average rated life expressed in hours.

INITIAL LUMENS

The lamp's average light output after the initial 100 hours of operation.

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® Preheat - Medium Bi-Pin												
T8	14	109370	1	F14T8CW	Cool White	25	4100	62	650	585	8000	14"
	15	9202	1	F15T8CW	Cool White	30	4100	62	770	690	8000	17"
	15	109212	1	F15T8DL	Daylight	30	6500	74	770	690	8000	17"
	15	109208	1	F15T8WW	Warm White	30	3000	53	845	750	8000	17"
	30	9225	1	F30T8CW	Cool White	30	4100	62	2100	1900	9000	35"

FOOTNOTES & SYMBOLS

Related footnotes can be found on page 90.

DESCRIPTION

Bulb finish and other important information.

PRODUCT NUMBER

Use this number when placing an order.

CRI

An international scale from 0 to 100 that indicates the relative color rendering value of a light source. The color rendering index expresses the degree to which colors will look "natural" under a given light source.

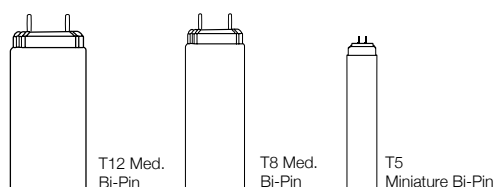
MEAN LUMENS

The lamp's average light output at 40% of rated life.

NOM. LENGTH

A measurement for fluorescent lamp length based on the length of the lamp plus an allowance for the luminaire's lamp holders.

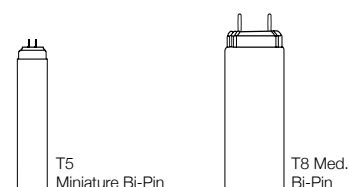
LINEAR FLUORESCENT LAMPS



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® Preheat - Miniature Bi-Pin												
T5	4	9213	1,7	F4T5CW	Cool White	10/1000	4100	65	130	117	6000	6"
	6	9200	1,7	F6T5CW	Cool White	10/500	4100	65	240	216	6000	9"
	8	9206	1,7	F8T5BLB	Blacklight-Blue	10/500	-	-	-	-	6000	12"
	8	9201	1,7	F8T5CW	Cool White	10/500	4100	65	350	315	6000	12"
	8	9215	1,7	F8T5DL	Daylight	10/500	6500	75	350	279	6000	12"
	8	9210	1,7	F8T5WW	Warm White	10/500	3000	53	400	380	6000	12"
	13	9231	1,7	F13T5CW	Cool White	10/200	4100	65	740	666	6000	21"
	13	9232	1,7	F13T5WW	Warm White	10/200	3000	53	870	825	6000	21"
ProLume® Preheat - Medium Bi-Pin												
T8	14	109370	1	F14T8CW	Cool White	25	4100	62	650	585	8000	14"
	15	9202	1	F15T8CW	Cool White	30	4100	62	770	690	8000	17"
	15	109212	1	F15T8DL	Daylight	30	6500	74	770	690	8000	17"
	15	109208	1	F15T8WW	Warm White	30	3000	53	845	750	8000	17"
	30	9225	1	F30T8CW	Cool White	30	4100	62	2100	1900	9000	35"
T12	14	9228	1	F14T12CW	Cool White	30	4100	62	480	432	9000	14"
	15	9212	1	F15T12CW	Cool White	30	4100	62	650	570	9000	17"
	20	9203	1	F20T12CW	Cool White	30	4100	62	1150	1000	8000	24"
	20	9235	1	F20T12DL	Daylight	30	6500	74	1100	960	8000	24"
	20	9227	1	F20T12WW	Warm White	30	3000	52	1200	1080	8000	24"
ProLume® T-5 Programmed Start - Miniature Bi-Pin Eco-Shield®												
T5	14	30117	1,7	F14T5/830/ECO/IC	830 Phosphor	25	3000	86	1350	1270	24000	22"
	14	30118	1,7	F14T5/835/ECO/IC	835 Phosphor	25	3500	86	1350	1270	24000	22"
	14	30119	1,7	F14T5/841/ECO/IC	841 Phosphor	25	4100	86	1350	1270	24000	22"
	21	30125	1,7	F21T5/830/ECO/IC	830 Phosphor	25	3000	86	2100	1990	24000	34"
	21	30126	1,7	F21T5/835/ECO/IC	835 Phosphor	25	3500	86	2100	1990	24000	34"
	21	30127	1,7	F21T5/841/ECO/IC	841 Phosphor	25	4100	86	2100	1990	24000	34"
	24	30134	1,7	F24T5/835/HO/ECO/IC	835 Phosphor High Output	25	3500	86	2000	1900	20000	22"
	24	30135	1,7	F24T5/841/HO/ECO/IC	841 Phosphor High Output	25	4100	86	2000	1900	20000	22"
	28	35041	1,7	F28T5/830/ECO/IC	830 Phosphor	25	3000	86	2900	2750	24000	46"
	28	35042	1,7	F28T5/835/ECO/IC	835 Phosphor	25	3500	86	2900	2750	24000	46"
	28	35046	X 1,7	F28T5/835/ECO/XL	835 Phosphor	25	3500	86	2800	2660	40000	46"
	28	35043	1,7	F28T5/841/ECO/IC	841 Phosphor	25	4100	86	2900	2750	24000	46"
	28	90016	X 1,7	F28T5/841/ECO/IC/CS	841 Phosphor, CoverShield®	25	4100	86	2900	2750	24000	46"
	28	35044	1,7	F28T5/850/ECO/IC	850 Phosphor	25	5000	86	2900	2750	24000	46"

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.
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LINEAR FLUORESCENT LAMPS



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® T-5 Programmed Start - Miniature Bi-Pin Eco-Shield® continued												
T5	35	35049	1, 7	F35T5/835/ECO/IC	835 Phosphor	25	3500	86	3650	3450	24000	58"
	35	35050	1, 7	F35T5/841/ECO/IC	841 Phosphor	25	4100	86	3650	3450	24000	58"
	39	35060	X 1, 7	F39T5/830/HO/ECO/IC	830 Phosphor High Output	25	3000	86	3500	3320	24000	34"
	39	35061	1, 7	F39T5/835/HO/ECO/IC	835 Phosphor High Output	25	3500	86	3500	3320	24000	34"
	39	35062	1, 7	F39T5/841/HO/ECO/IC	841 Phosphor High Output	25	4100	86	3500	3320	24000	34"
	49	35085	1, 7	F49T5/835/HO/ECO	835 Phosphor High Output, Energy Saver	25	3500	86	4900	4700	24000	46"
	49	35088	1, 7	F49T5/841/HO/ECO	841 Phosphor High Output, Energy Saver	25	4100	86	4900	4700	24000	46"
	49	35089	1, 7	F49T5/850/HO/ECO	850 Phosphor High Output, Energy Saver	25	5000	86	4900	4700	24000	46"
	54	35081	1, 7	F54T5/830/HO/ECO/IC	830 Phosphor High Output	25	3000	86	5000	4850	24000	46"
	54	35082	1, 7	F54T5/835/HO/ECO/IC	835 Phosphor High Output	25	3500	86	5000	4850	24000	46"
	54	90051	1, 7	F54T5/835/HO/ECO/IC/CS	835 Phosphor High Output, CoverShield®	25	3500	86	5000	4850	24000	46"
	54	35070	X 1, 7	F54T5/835/HO/ECO/XL	835 Phosphor High Output, Extended Life	25	3500	86	5000	4790	40000	46"
	54	105680	1, 7	F54T5/841/HO/ECO	841 Phosphor High Output	25	4100	86	5000	4850	24000	46"
	54	35083	1, 7	F54T5/841/HO/ECO/IC	841 Phosphor High Output	25	4100	86	5000	4850	24000	46"
	54	90052	1, 7	F54T5/841/HO/ECO/IC/CS	841 Phosphor High Output, CoverShield®	25	4100	86	5000	4850	24000	46"
	54	35071	X 1, 7	F54T5/841/HO/ECO/XL	841 Phosphor High Output, Extended Life	25	4100	86	5000	4790	40000	46"
	54	35084	1, 7	F54T5/850/HO/ECO/IC	850 Phosphor High Output	25	5000	86	5000	4850	24000	46"
	54	90053	1, 7	F54T5/850/HO/ECO/IC/CS	850 Phosphor High Output, CoverShield®	25	5000	86	5000	4850	24000	46"
	54	35072	X 1, 7	F54T5/850/HO/ECO/XL	850 Phosphor High Output, Extended Life	25	5000	86	5000	4790	40000	46"
	54	35086	1, 7	F54T5/865/HO/ECO/IC	865 Phosphor High Output	25	6500	86	5000	4850	24000	46"
	80	35087	1, 7	F80T5/835/HO/ECO	835 Phosphor High Output	25	3500	86	7000	6650	24000	57.1"
	80	35090	1, 7	F80T5/841/HO/ECO	841 Phosphor High Output	25	4100	86	7000	6650	24000	57.1"

ProLume® T-8 Rapid Start - Medium Bi-Pin Eco-Shield®

T8	17	109320	1	F17T8/730/ECO	730 Phosphor	25	3000	78	1350	1280	24000	24"
	17	109322	1	F17T8/735/ECO	735 Phosphor	25	3500	78	1350	1280	24000	24"
	17	109324	1	F17T8/741/ECO	741 Phosphor	25	4100	78	1350	1280	24000	24"
	17	109326	1	F17T8/750/ECO	750 Phosphor	25	5000	78	1350	1280	24000	24"
	17	35170	1	F17T8/830/ECO	830 Phosphor	25	3000	86	1400	1330	24000	24"
	17	109802	1	F17T8/835/ECO	835 Phosphor	25	3500	86	1400	1330	24000	24"
	17	109804	1	F17T8/841/ECO	841 Phosphor	25	4100	86	1400	1330	24000	24"
	17	35180	1	F17T8/850/ECO	850 Phosphor	25	5000	86	1400	1330	24000	24"

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LINEAR FLUORESCENT LAMPS

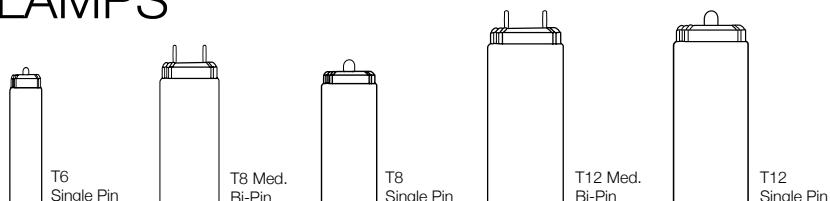


T8 Med.
Bi-Pin

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® T-8 Rapid Start - Medium Bi-Pin Eco-Shield® continued												
T8	25	109340	1	F25T8/730/ECO	730 Phosphor	25	3000	78	2150	2050	24000	36"
	25	109342	1	F25T8/735/ECO	735 Phosphor	25	3500	78	2150	2050	24000	36"
	25	109344	1	F25T8/741/ECO	741 Phosphor	25	4100	78	2150	2050	24000	36"
	25	109346	1	F25T8/750/ECO	750 Phosphor	25	5000	78	2150	2050	24000	36"
	25	109806	1	F25T8/830/ECO	830 Phosphor	25	3000	86	2250	2140	24000	36"
	25	109808	1	F25T8/835/ECO	835 Phosphor	25	3500	86	2250	2140	24000	36"
	25	109810	1	F25T8/841/ECO	841 Phosphor	25	4100	86	2250	2140	24000	36"
	25	35162	1, 8	F25T8ES/830/ECO	830 Phosphor, Energy Saver	25	3000	86	2500	2380	24000	48"
	25	35172	1, 8	F25T8ES/835/ECO	835 Phosphor, Energy Saver	25	3500	86	2500	2380	24000	48"
	25	35173	1, 8	F25T8ES/841/ECO	841 Phosphor, Energy Saver	25	4100	86	2500	2380	24000	48"
	25	35174	1, 8	F25T8ES/850/ECO	850 Phosphor, Energy Saver	25	5000	86	2500	2380	24000	48"
	28	35175	1	F28T8/830/ECO	830 Phosphor	25	3000	86	2800	2660	24000	48"
	28	109364	1	F28T8/835/ECO	835 Phosphor	25	3500	86	2800	2660	24000	48"
	28	90081	X 1	F28T8/835/ECO/IC/CS	835 Phosphor, CoverShield®	25	3500	86	2800	2660	24000	48"
	28	109366	1	F28T8/841/ECO	841 Phosphor	25	4100	86	2800	2660	24000	48"
	28	109368	1	F28T8/850/ECO	850 Phosphor	25	5000	86	2800	2660	24000	48"
	32	109412	L, 1	F32T8/730/ECO	730 Phosphor	25	3000	78	2850	2700	24000	48"
	32	109414	L, 1	F32T8/735/ECO	735 Phosphor	25	3500	78	2850	2700	24000	48"
	32	90084	1	F32T8/735/ECO/CS	735 Phosphor, CoverShield®	25	3500	78	2850	2700	24000	48"
	32	109416	L, 1	F32T8/741/ECO	741 Phosphor	25	4100	78	2850	2700	24000	48"
	32	90085	1	F32T8/741/ECO/CS	741 Phosphor, CoverShield®	25	4100	78	2850	2700	24000	48"
	32	109418	L, 1	F32T8/750/ECO	750 Phosphor	25	5000	78	2850	2700	24000	48"
	32	90089	1	F32T8/750/ECO/CS	750 Phosphor, CoverShield®	25	5000	78	2850	2700	24000	48"
	32	30170	L, 1	F32T8/765/ECO	765 Phosphor	25	6500	78	2850	2700	24000	48"
	32	109398	1	F32T8/830/ECO	830 Phosphor	25	3000	86	3050	2900	24000	48"
	32	109400	1	F32T8/835/ECO	835 Phosphor	25	3500	86	3050	2900	24000	48"
	32	35176	1	F32T8/835/ECO/HL	835 Phosphor High Lumen	25	3500	86	3150	3000	24000	48"
	32	90094	1	F32T8/835/ECO/CS	835 Phosphor, CoverShield®	25	3500	86	3050	2900	24000	48"
	32	109402	1	F32T8/841/ECO	841 Phosphor	25	4100	86	3050	2900	24000	48"
	32	35177	1	F32T8/841/ECO/HL	841 Phosphor High Lumen	25	4100	86	3150	3000	24000	48"
	32	90095	1	F32T8/841/ECO/CS	841 Phosphor, CoverShield®	25	4100	86	3050	2900	24000	48"
	32	109404	1	F32T8/850/ECO	850 Phosphor	25	5000	86	3050	2900	24000	48"
	32	35178	1	F32T8/850/ECO/HL	850 Phosphor High Lumen	25	5000	86	3150	3000	24000	48"
	32	90096	1	F32T8/850/ECO/CS	850 Phosphor, CoverShield®	25	5000	86	3050	2900	24000	48"
	32	109428	1	F32T8/865/ECO	865 Phosphor	25	6500	86	3050	2900	24000	48"

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LINEAR FLUORESCENT LAMPS



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
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ProLume T-8 Rapid Start - Medium Bi-Pin **Eco-Shield** continued

T8	32	37200	1	F32T8BLB	Blacklight-Blue	12	-	-	-	-	20000	48"
	40	30171	 1	F40T8/735/ECO	735 Phosphor	30	3500	78	3600	3450	24000	60"
	40	30172	 1	F40T8/741/ECO	741 Phosphor	30	4100	78	3600	3450	24000	60"
	58	35179	1	F58T8/840	840 Phosphor	25	4000	86	5300	5000	24000	60"
	70	39452	1	F70T8/840/M	840 Phosphor Major	25	4000	85	6000	5985	20000	70"

T-8 Rapid Start - Single Pin

T8	59	23411	Ⓔ \$ 1	F96T8/735/M	735 Phosphor Major	24	3500	75	5700	5130	15000	96"
	59	23412	Ⓔ \$ 1	F96T8/741/M	741 Phosphor Major	24	4100	72	5700	5130	15000	96"
	59	205773	Ⓔ \$ 1	F96T8/850/M	850 Phosphor Major	24	5000	80	5900	5428	15000	96"

ProLume T-12 Rapid Start - Medium Bi-Pin

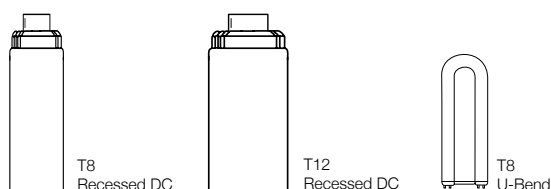
T12	30	9204	1	F30T12CW	Cool White	30	4100	62	2100	1830	8000	36"
	30	9236	1	F30T12DL	Daylight	30	6500	74	1900	1650	8000	36"
	30	313742	1	F30T12WW	Warm White Major	30	3000	53	2300	2000	18000	36"
	34	24588	1	F34CWX/SS/M	Cool White Deluxe Major	30	4100	87	1925	1656	20000	48"
	40	423889	1	F40CWS/ECO/M	Cool White Supreme Major	30	4100	89	2600	2250	20000	48"
	40	109480	1	F40/350BL	Blacklight	6	-	-	-	-	20000	48"
	40	109490	1	F40BLB	Blacklight-Blue	6	-	-	-	-	20000	48"

Slimline Instant Start - Single Pin

T6	25	24266	1	F42T6CW/M	Cool White Major	24	4100	60	1750	1540	7500	42"
T12	39	363218	1	F48CW/M	Cool White Low Mercury Major	15	4100	62	2950	2600	9000	48"
	39	387019	1	F48DL/M	Daylight Low Mercury Major	15	6500	79	2500	2375	9000	48"
	50	26001	1	F60CW/M	Cool White Major	30	4100	60	3700	3256	12000	60"
	50	23076	1	F60DL/M	Daylight Major	30	6500	76	3000	2640	12000	60"
	50	355768	1	F64CW/M	Cool White Major	30	4100	60	3900	3432	12000	64"
	50	355776	1	F64DL/M	Daylight Major	30	6500	76	3300	2904	12000	64"
	56	369892	1	F72CW/M	Cool White Low Mercury Major	15	4100	59	4450	3900	12000	72"
	56	369850	1	F72DL/M	Daylight Low Mercury Major	15	6500	79	3800	3350	12000	72"
	70	13764	1	F84CW/M	Cool White Major	15	4100	60	5300	4664	12000	84"
	75	423194	1	F96CWS/ECO/M	Cool White Supreme Major	15	4100	89	5000	4250	12000	96"
	75	14067	Ⓔ 1	F96/735/M	735 Phosphor Major	15	3500	70	6420	5906	12000	96"

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Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
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High Output (800mA) - Recessed DC Base

T8	86	12537	ⓔ 1,4,5	F96T8/735HO/M	735 Phosphor High Output Major	24	3500	78	8000	7520	18000	96"
	86	12538	ⓔ 1,4,5	F96T8/741HO/M	741 Phosphor High Output Major	24	4100	78	8000	7520	18000	96"
T12	35	262790	1,4,5	F24T12CWHO/M	Cool White High Output Major	30	4100	60	1650	1337	9000	24"
	35	262741	1,4,5	F24T12DLHO/M	Daylight High Output Major	30	6500	76	1400	1134	9000	24"
	42	226464	1,4,5	F30T12CWHO/M	Cool White High Output Major	30	4100	60	2250	1825	9000	30"
	45	262865	1,4,5	F36T12CWHO/M	Cool White High Output Major	30	4100	60	2850	2309	9000	36"
	45	262907	1,4,5	F36T12DLHO/M	Daylight High Output Major	30	6500	76	2500	2025	9000	36"
	55	10559	1,4,5	F42CWHO/M	Cool White High Output Major	30	4100	60	3400	2754	9000	42"
	55	10560	1,4,5	F42DLHO/M	Daylight High Output Major	30	6500	76	3050	2471	9000	42"
	60	369785	1,4,5	F48CWHO/M	Cool White High Output Low Mercury Major	15	4100	59	4050	3500	12000	48"
	60	369843	1,4,5	F48DLHO/M	Daylight High Output Low Mercury Major	15	6500	73	3400	3000	12000	48"
	75	251260	1,4,5	F60CWHO/M	Cool White High Output Major	30	4100	60	5200	4212	12000	60"
	75	25120	1,4,5	F60DLHO/M	Daylight High Output Major	30	6500	76	4600	3826	12000	60"
	85	366518	1,4,5	F72CWHO/M	Cool White High Output Low Mercury Major	15	4100	62	6350	5500	12000	72"
	85	366534	1,4,5	F72DLHO/M	Daylight High Output Low Mercury Major	15	6500	79	5600	4850	12000	72"
	100	13766	1,4,5	F84CWHO/M	Cool White High Output Major	15	4100	62	7490	6800	12000	84"
	100	13767	1,4,5	F84DLHO/M	Daylight High Output Major	15	6500	76	6700	5427	12000	84"
	110	381774	1,4,5,6	F96DLHOO/A	Daylight High Output Low Mercury Major	15	6500	79	7800	6800	12000	96"

Very High Output (1500mA) - Recessed DC Base

T12	110	25248	1,4,5	F48CWWHO/M	Cool White Very High Output Major	24	4100	60	6200	4620	10000	48"
	160	13760	1,4,5	F72CWWHO/M	Cool White Very High Output Major	15	4100	60	10600	7420	10000	72"
	215	342345	1,4,5	F96CWWHO/M	Cool White Very High Output Major	15	4100	60	14000	9800	10000	96"

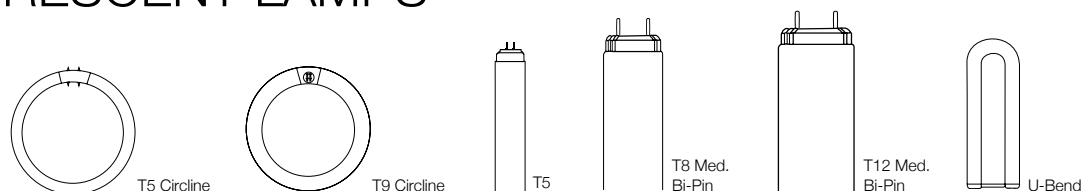
ProLume® U-Bend Rapid Start - Medium Bi-Pin Base Eco-Shield®

T8	28	35307	 ⓔ \$, 1,3	FB28/835/6/ECO/IC	835 Phosphor 6"	20	3500	86	2650	2450	24000	22.6"
	28	35311	 ⓔ \$, 1,3	FB28/841/6/ECO/IC	841 Phosphor 6"	20	4100	86	2650	2450	24000	22.6"
	31	30301	 ⓔ 1,3	FB31/830/ECO	830 Phosphor 1-5/8"	12	3000	86	2750	2600	24000	22.6"
	31	30302	 ⓔ 1,3	FB31/835/ECO	835 Phosphor 1-5/8"	12	3500	86	2750	2600	24000	22.6"
	31	30303	 ⓔ 1,3	FB31/841/ECO	841 Phosphor 1-5/8"	12	4100	86	2750	2600	24000	22.6"
	31	30304	 ⓔ 1,3	FB31/850/ECO	850 Phosphor 1-5/8"	12	5000	86	2750	2600	24000	22.6"

ⓔ Means this lamp meets Federal Minimum Efficiency standards.

Linear Fluorescent lamp symbols, footnotes and abbreviations are located on pages 90-91.

LINEAR FLUORESCENT LAMPS



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
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ProLume U-Bend Rapid Start - Medium Bi-Pin Base **Eco-Shield**® continued

T8	32	109500	 L, 1,3	FB32/730/6/ECO	730 Phosphor 6"	20	3000	78	2750	2400	24000	22.6"
	32	109502	 L, 1,3	FB32/735/6/ECO	735 Phosphor 6"	20	3500	78	2750	2400	24000	22.6"
	32	109504	 L, 1,3	FB32/741/6/ECO	741 Phosphor 6"	20	4100	78	2750	2400	24000	22.6"
	32	109506	 L, 1,3	FB32/750/6/ECO	750 Phosphor 6"	20	5000	78	2750	2400	24000	22.6"
	32	35313	 X 1,3	FB32/830/6/ECO/IC	830 Phosphor 6"	20	3000	86	2900	2750	24000	22.6"
	32	109814	 L, 1,3	FB32/835/6/ECO	835 Phosphor 6"	20	3500	86	2900	2750	24000	22.6"
	32	109816	 L, 1,3	FB32/841/6/ECO	841 Phosphor 6"	20	4100	86	2900	2750	24000	22.6"
	32	109818	 L, 1,3	FB32/850/6/ECO	850 Phosphor 6"	20	5000	86	2900	2750	24000	22.6"
T12	40	219931	1,3	FB40DX/6/M	Daylight 6" Major	12	6500	84	2250	2125	18000	22.5"
	40	24004	1,3	FB40CW XU6	Cool White 6" Major	12	4100	87	2100	1806	18000	22.5"

ProLume Circline T5 Programmed Start - 2GX13 Base

T5	22	109080	2,7	FC22T5/835	835 Phosphor	20	3500	82	1900	1800	10000	9"
	22	109082	2,7	FC22T5/841	841 Phosphor	20	4100	82	1900	1800	10000	9"
	40	109084	2,7	FC40T5/835	835 Phosphor	20	3500	82	3350	3150	10000	12"
	40	109086	2,7	FC40T5/841	841 Phosphor	20	4100	82	3350	3150	10000	12"

ProLume Circline T9 Rapid Start - G10q Base

T9	22	37501	1	FC8T9CW	Cool White	12	4100	62	1150	1050	10000	8"
	22	37503	1	FC8T9DL	Daylight	12	6500	75	1150	1050	10000	8"
	30	37504	1	FC9T9/830	830 Phosphor	12	3000	86	1800	1700	10000	9"
	32	37507	1	FC12T9CW	Cool White	12	4100	62	2100	2000	10000	12"
	40	37510	1	FC16T9CW	Cool White	12	4100	62	2900	2700	10000	16"

ProLume Appliance - Medium Bi-Pin Base

T8	18	109234	1	F18T8CW/K24	Cool White 24"	25	4100	62	1175	1025	7500	24"
	18	23027	1	F18T8CW/K26	Cool White 26" Major	24	4100	62	1280	1080	7500	26"
	18	23028	1	F18T8CW/K28	Cool White 28" Major	24	4100	62	1360	1130	7500	28"
	18	23030	1	F18T8CW/K30	Cool White 30" Major	24	4100	62	1400	1200	7500	30"
T12	25	22527	1	F25T12CW/28	Cool White 28" Major	30	4100	62	1670	1450	7500	28"
	25	22529	1	F25T12CW/33	Cool White 33" Major	30	4100	62	1850	1200	7500	33"

ProLume Blacklight & Blacklight-Blue

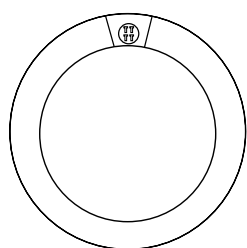
T5	8	9206	1	F8T5BLB	Blacklight-Blue	10/500	-	-	-	-	5000	12"
T8	32	37200	1	F32T8BLB	Blacklight-Blue	12	-	-	-	-	20000	48"
T12	40	109490	1	F40BLB	Blacklight-Blue	6	-	-	-	-	20000	48"
	40	109480	1	F40/350BL	Blacklight	6	-	-	-	-	20000	48"

 Means this lamp meets Federal Minimum Efficiency standards.
Linear Fluorescent lamp symbols, footnotes and abbreviations are located on pages 90-91.

LINEAR FLUORESCENT LAMPS

Bulb and Base Identification Guide

Bulb Shapes



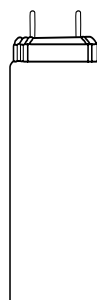
Circline



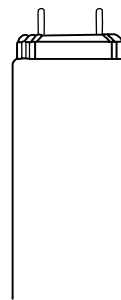
T5



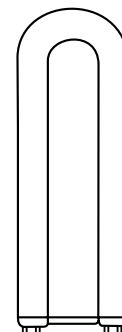
T6



T8

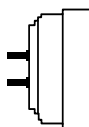


T12

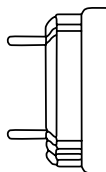


U-Bend

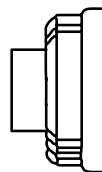
Base Types



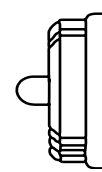
Miniature
Bi-Pin



Medium
Bi-Pin



Recessed DC



Single Pin

LINEAR FLUORESCENT LAMPS

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
Preheat Lamps			
F18T8CW/K24	F24"T8CW/4	F18T8/CW/24	F18T8CW/K24
F18T8CW/K26	F26"T8CW/4	F16T8/CW/26	F18T8CW/K26
F18T8CW/K28	F28"T8CW/4	F17T8/CW/28	F18T8CW/K28
F18T8CW/K30	F30"T8CW/4	F18T8/CW/30/ALTO	F18T8CW/K30
F25T12CW/28	F25T12/CW/28	-	F25T12/CW/28
F25T12CW/33	F25T12/CW/33	F25T12/CW	F25T12/CW/33
Ultra Efficient T-5			
F14T5/830/ECO/IC	F14W/T5/830/ECO	F14T5/830/ALTO	FP14/830/ECO
F14T5/835/ECO/IC	F14W/T5/835/ECO	F14T5/835/ALTO	FP14/835/ECO
F14T5/841/ECO/IC	F14W/T5/841/ECO	F14T5/841/ALTO	FP14/841/ECO
F21T5/830/ECO/IC	F21W/T5/830/ECO	F21T5/830/ALTO	FP21/830/ECO
F21T5/835/ECO/IC	F21W/T5/835/ECO	F21T5/835/ALTO	FP21/835/ECO
F21T5/841/ECO/IC	F21W/T5/841/ECO	F21T5/841/ALTO	FP21/841/ECO
F28T5/830/ECO/IC	F28W/T5/830/ECO	F28T5/830/ALTO	FP28/830/ECO
F28T5/835/ECO/IC	F28W/T5/835/ECO	F28T5/835/ALTO	FP28/835/ECO
F28T5/841/ECO/IC	F28W/T5/841/ECO	F28T5/841/ALTO	FP28/841/ECO
F28T5/850/ECO/IC	F28W/T5/850/ECO	-	FP28/850/ECO
F28T5/835/ECO/XL	-	-	-
F28T5/841/ECO/XL	-	-	-
F35T5/835/ECO/IC	F35W/T5/835/ECO	F35T5/835/ALTO	FP35/835/ECO
F35T5/841/ECO/IC	F35W/T5/841/ECO	F35T5/841/ALTO	FP35/841/ECO
Ultra Efficient T-5 High Output			
F24T5/835/HO/ECO/IC	F24W/T5/835/ECO	F24T5/835/HO/ALTO	FP24/835/HO/ECO
F24T5/841/HO/ECO/IC	F24W/T5/841/ECO	F24T5/841/HO/ALTO	FP24/841/HO/ECO
F39T5/830/HO/ECO/IC	F39W/T5/830/ECO	F39T5/830/HO/ALTO	FP39/830/HO/ECO
F39T5/835/HO/ECO/IC	F39W/T5/835/ECO	F39T5/835/HO/ALTO	FP39/835/HO/ECO
F39T5/841/HO/ECO/IC	F39W/T5/841/ECO	F39T5/841/HO/ALTO	FP39/841/HO/ECO
F49T5/835/HO/ECO/IC	F54T5/835/WM/ECO	F54T5/835/HO/EA/ALTO 49W	-
F49T5/841/HO/ECO/IC	F54T5/841/WM/ECO	F54T5/841/HO/EA/ALTO 49W	-
F49T5/850/HO/ECO/IC	F54T5/850/WM/ECO	F54T5/850/HO/EA/ALTO 49W	-
F54T5/830/HO/ECO/IC	F54W/T5/830/ECO	F54T5/830/HO/ALTO	FP54/830/HO/ECO
F54T5/835/HO/ECO/IC	F54W/T5/835/ECO	F54T5/835/HO/ALTO	FP54/835/HO/ECO
F54T5/841/HO/ECO/IC	F54W/T5/841/ECO	F54T5/841/HO/ALTO	FP54/841/HO/ECO
F54T5/850/HO/ECO/IC	F54W/T5/850/ECO	F54T5/850/HO/ALTO	FP54/850/HO/ECO
F54T5/865/HO/ECO/IC	F54W/T5/865/ECO	F54T5/865/HO/ALTO	FP54/865/HO/ECO
F54T5/835/HO/ECO/XL	-	-	-
F54T5/850/HO/ECO/XL	-	-	-
F80T5/835/HO/ECO/IC	F80W/T5/835/ECO	F80T5/835/HO	FP80/835/HO/ECO
F80T5/841/HO/ECO/IC	F80W/T5/841/ECO	F80T5/841/HO	FP80/841/HO/ECO

LINEAR FLUORESCENT LAMPS

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
T-5 Ultra Efficient Circline			
FC22T5/835	-	TL5C 22W/835	FPC22/835
FC22T5/841	-	TL5C 22W/840	FPC22/841
FC40T5/835	-	TL5C 40W/835	FPC40/835
FC40T5/841	-	TL5C 40W/840	FPC40/841
T-8 Rapid Start			
F17T8/730/ECO	F17T8/SP30/ECO	F17T8/TL730/ALTO	FO17/730/ECO
F17T8/735/ECO	F17T8/SP35/ECO	F17T8/TL735/ALTO	FO17/735/ECO
F17T8/741/ECO	F17T8/SP41/ECO	F17T8/TL741/ALTO	FO17/741/ECO
F17T8/750/ECO	-	-	-
F17T8/830/ECO	F17T8/SPX30/ECO	F17T8/TL830/ALTO	FO17/830/ECO
F17T8/835/ECO	F17T8/SPX35/ECO	F17T8/TL835/ALTO	FO17/835/ECO
F17T8/841/ECO	F17T8/SPX41/ECO	F17T8/TL841/ALTO	FO17/841/ECO
F17T8/850/ECO	-	F17T8/TL850/ALTO	-
F25T8/730/ECO	F25T8/SP30/ECO	F25T8/TL730/ALTO	FO25/730/ECO
F25T8/735/ECO	F25T8/SP35/ECO	F25T8/TL735/ALTO	FO25/735/ECO
F25T8/741/ECO	F25T8/SP41/ECO	F25T8/TL741/ALTO	FO25/741/ECO
F25T8/750/ECO	F25T8/SP50/ECO	F25T8/TL750/ALTO	-
F25T8/830/ECO	F25T8/SPX30/ECO	F25T8/TL830/ALTO	FO25/830/ECO
F25T8/835/ECO	F25T8/SPX35/ECO	F25T8/TL835/ALTO	FO25/835/ECO
F25T8/841/ECO	F25T8/SPX41/ECO	F25T8/TL841/ALTO	FO25/841/ECO
F25T8ES/830/ECO	F32T8/25W/SPX30/ECO	F32T8/ADV830/XEW/ALTO 25 WATT	FO32/25W/830/XP/SS/ECO
F25T8ES/835/ECO	F32T8/25W/SPX35/ECO	F32T8/ADV835/XEW/ALTO 25 WATT	FO32/25W/835/XP/SS/ECO
F25T8ES/841/ECO	F32T8/25W/SPX41/ECO	F32T8/ADV841/XEW/ALTO 25 WATT	FO32/25W/841/XP/SS/ECO
F25T8ES/850/ECO	F32T8/25W/SPX50/ECO	F32T8/ADV850/XEW/ALTO 25 WATT	FO32/25W/850/XP/SS/ECO
F28T8/830/ECO	F28T8/XL/SPX30/ECO	F32T8/ADV830/EW/ALTO 28 WATT	FO28/830/XP/SS/ECO
F28T8/835/ECO	F28T8/XL/SPX35/ECO	F32T8/ADV835/EW/ALTO 28 WATT	FO28/835/XP/SS/ECO
F28T8/841/ECO	F28T8/XL/SPX41/ECO	F32T8/ADV841/EW/ALTO 28 WATT	FO28/841/XP/SS/ECO
F28T8/850/ECO	F28T8/XL/SPX50/ECO	F32T8/ADV850/EW/ALTO 28 WATT	-
F32T8/730/ECO	F32T8/SP30/ECO	F32T8/TL730/ALTO	FO32/730/ECO
F32T8/735/ECO	F32T8/SP35/ECO	F32T8/TL735/ALTO	FO32/735/ECO
F32T8/741/ECO	F32T8/SP41/ECO	F32T8/TL741/ALTO	FO32/741/ECO
F32T8/750/ECO	F32T9/SP50/ECO	F32T8/TL750/ALTO	FO32/750/ECO
F32T8/765/ECO	F32T8/SP65/ECO	F32T8/TL765/ALTO	FO32/765/ECO
F32T8/830/ECO	F32T8/SPX30/ECO	F32T8/TL830/ALTO	FO32/830/ECO
F32T8/835/ECO	F32T8/SPX35/ECO	F32T8/TL835/ALTO	FO32/835/ECO
F32T8/841/ECO	F32T8/SPX41/ECO	F32T8/TL841/ALTO	FO32/841/ECO

LINEAR FLUORESCENT LAMPS

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
T-8 Rapid Start continued			
F32T8/841/ECO/HL	F32T8/XL/SPX41/HL/ECO	F32T8/ADV841/ALTO	-
F32T8/850/ECO	F32T8/SPX50/ECO	F32T8/TL850/ALTO	FO32/850/ECO
F32T8/850/ECO/HL	F32T8/XL/SPX50/HL/ECO	F32T8/ADV850/ALTO	-
F32T8/865/ECO	-	-	-
F32T8BLB	-	-	-
F40T8/735/ECO	F40T8/SP35	F40T8/TL735/ALTO	FO40/735/ECO
F40T8/741/ECO	F40T8/SP41	F40T8/TL741/ALTO	FO40/741/ECO
F58T8/840	F58T8/841PLYXLR	-	-
F70T8/840/M	F70T8/840PLYXLR	-	-
T-12 Rapid Start			
F40DX/A	F40/DX/ECO	F40/DX/ALTO	F40/DX
F40/350BL	F40BL	F40T12/Blacklight	F40/350BL
F40BLB	F40BLB	-	F40/BLB/RP
Instant Start - Slimline			
F64DL/M	F64T12/D	F64T12/D	F64T12/D
F96T8/735/M	F96T8/SP35	F96T8/TL735/PLUS/ALTO	FO96/735/ECO
F96T8/741/M	F96T8/SP41	F96T8/TL741/PLUS/ALTO	FO96/741/ECO
F96T8/850/M	F96T8/SPX50	F96T8/TL850/PLUS/ALTO	FO96/850/ECO
F96DX/A	F96T12/DX	F96T12/DX/ALTO	F96T12/DX/SS
Rapid Start High Output & Very High Output			
F96CWHOES/A	F96T12/CW/HO/WM/ECO	F96T12/CW/HO/EW/ALTO	F96T12/CW/HO/SS/ECO
F96CWHOO/A	-	F96T12/CW/HO-O/ALTO	F96T12/CW/HO/CT/ECO
F96CWVHO/M	F96T12/CW/1500	F96T12/CW/VHO-O	F96T12/CW/VHO

LINEAR FLUORESCENT LAMPS

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
U-Bend Fluorescent			
FB28/830/6/ECO	-	-	-
FB28/835/6/ECO	-	-	-
FB28/841/6/ECO	-	-	-
FB32/735/6/ECO	F32T8/SP35/U/6	FB32T8/TL735/6/ALTO	FBO32/735/6/ECO
FB32/741/6/ECO	F32T8/SP41/U/6	FB32T8/TL741/6/ALTO	FBO32/741/6/ECO
FB32/750/6/ECO	-	FB32T8/TL750/6/ALTO	FBO32/750/6/ECO
FB32/830/6/ECO	F32T8/SPX30/U/6	FB32T8/TL830/6/ALTO	FBO32/830/6/ECO
FB32/835/6/ECO	F32T8/SPX35/U/6	FB32T8/TL835/6/ALTO	FBO32/835/6/ECO
FB32/841/6/ECO	F32T8/SPX41/U/6	FB32T8/TL841/6/ALTO	FBO32/841/6/ECO
FB32/850/6/ECO	F32T8/SPX50/U/6	FB32T8/TL850/6/ALTO	-
FB31/830/ECO	F31T8/SPX30/U	-	FBO31/830
FB31/835/ECO	F31T8/SPX35/U	-	FBO31/835
FB31/841/ECO	F31T8/SPX41/U	-	FBO31/841
FB31/850/ECO	-	-	-
FB40DX/6/M	-	FB40/DX/6	-
Brand Name Cross Reference			
T5	T5	Silhouette™	Pentron®
T8	T8	TL70/TL80	Octron®
730	SP30	SPEC30 or 730	D30 or 730
830	SPX30	30U or 830	D830
950	C50	C50	DSGN50
ES (Energy Saver)	WM (Watt-Miser®)	EW (Econo-Watt®)	SS (Supersaver®)
Eco-Shield®	ECOLUX®	ALTO®	ECOLOGIC®
ULTRA50	SPX50	50U	850
U-Bend	Mod-U-Line®	U-Bent	Curvalume®

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– Pentron, Octron, Supersaver, ECOLOGIC and Curvalume are registered trademarks of Osram/Sylvania.

LINEAR FLUORESCENT

Symbols, Footnotes and Abbreviations

SYMBOLS

\$	Energy saving product.
ⓔ	This lamp meets Federal Minimum Efficiency standards.
	ProLume® Eco-Shield® Low-Mercury Fluorescent lamps pass the Federal TCLP for hazardous wastes.
X	Product will be discontinued when inventory is depleted.
L	Legislated lamp will not be manufactured after July 14, 2014.

FOOTNOTES

1	Average life under specified test conditions with lamps turned off and restarted every three hours. Lamp life is longer if lamps are started less frequently.
2	Commercial average rated life under specified test conditions with lamps turned off and restarted every twelve hours. Lamp life is longer if lamps are started less frequently.
3	Nominal length is measured from face of base to maximum distant outside point of U-Bend. Leg spacing measured center to center is approximately 6" for /6 product, 3-5/8" for /3 product and 1-5/8" for FB31 product.
4	Initial lumens are based on 800-mA. operation. For 1000mA. operation, lumens are approximately 10% higher and wattage approximately 15% higher.
5	This energy saving lamp is only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamp is not recommended for use in drafty areas or locations where the ambient temperature drops below 60°F, except as noted. Do not operate on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts.
6	Meets the National Energy Policy Act (EPACT) of 1992 exemption for outdoor or cold temperature applications only.
7	Lamp designed for use with Programmed Start ballast.
8	This lamp should only be operated on high efficiency or anti-striation type ballasts.

ABBREVIATIONS

3	Code abbreviation for 3-5/8" U-Bend lamps.
6	Code abbreviation for 6" U-Bend lamps.
/730	Suffix used to indicate lamps with CRI of 70+ and color temperature of 3000K.
/735	Suffix used to indicate lamps with CRI of 70+ and color temperature of 3500K.
/741	Suffix used to indicate lamps with CRI of 70+ and color temperature of 4100K.
/750	Suffix used to indicate lamps with CRI of 70+ and color temperature of 5000K.
/765	Suffix used to indicate lamps with CRI of 70+ and color temperature of 6500K.
/830	Suffix used to indicate lamps with CRI of 80+ and color temperature of 3000K.
/835	Suffix used to indicate lamps with CRI of 80+ and color temperature of 3500K.
/841	Suffix used to indicate lamps with CRI of 80+ and color temperature of 4100K.
/850	Suffix used to indicate lamps with CRI of 80+ and color temperature of 5000K.
/865	Suffix used to indicate lamps with CRI of 80+ and color temperature of 6500K.
BL	Code abbreviation for Blacklight lamps.
BLB	Code abbreviation for Blacklight-Blue lamps.
/CS	Suffix used to indicate CoverShield® safety coated lamps.
CW	Code abbreviation for Cool White lamps.
CWS	Code abbreviation for Cool White Supreme lamps.
CWX	Code abbreviation for ProLume® Cool White Deluxe lamps.
DL	Code abbreviation for Daylight lamps.
DX	Code abbreviation for Daylight lamps.
/ECO	Suffix used to indicate Eco-Shield® TCLP compliant lamps.
/ES	Suffix used to indicate Energy Saving Fluorescent lamps.
FB	Prefix used to indicate for Fluorescent U-Bend lamps.
FC	Prefix used to indicate for Fluorescent Circline lamps.
/HL	Suffix used to indicate High Lumen lamps.
/HO	Suffix used to indicate High Output lamps.
HOES	Code abbreviation to indicate High Output Energy Saver lamps.
HOO	Code abbreviation to indicate High Output lamps for outdoor or low temperature operation.
/IC	Suffix used to indicate ProLume® Industrial/Commercial service lamps.
/M	Suffix used to indicate Major brand Fluorescent lamps (GE, Philips, Osram/Sylvania).
/VHO	Suffix used to indicate Very High Output lamps.
WW	Code abbreviation for Warm White lamps.
/XL	Suffix used to indicate Extended Life lamps.