LINEAR FLUORESCENT

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how to read a table

BULB Designations indicate tube diameter. Illustrations can be found on page 60 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 65.

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).

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

AVERAGE LIFE Average rated life expressed in hours.

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® (cont'd)												
T5	37	35060	†,$,1,7	**F39T5/830/HO/ECO/IC**	830 Phosphor High Output	25	3000	86	3500	3320	24000	34"
	37	35061	†,$,1,7	**F39T5/835/HO/ECO/IC**	835 Phosphor High Output	25	3500	86	3500	3320	24000	34"
	37	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"

PRODUCT NUMBER Use this product number when placing an order.

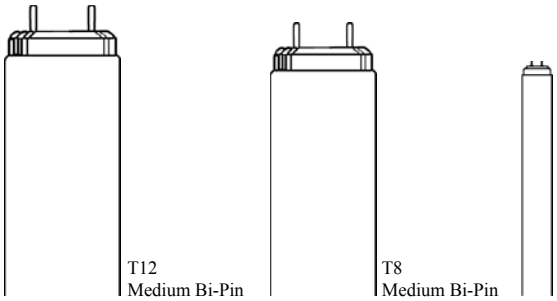
FOOTNOTES & SYMBOLS Related footnotes can be found on page 65.

DESCRIPTION Color description or other important information.

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.

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

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



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	100	95	6000	6”
	6	9200	1,7	**F6T5CW**	Cool White	10/500	4100	65	200	190	6000	9”
	8	9206	1,7	**F8T5BLB**	Blacklight-Blue	10/500	-	-	-	-	6000	12”
	8	9201	1,7	**F8T5CW**	Cool White	10/500	4100	65	280	265	6000	12”
	8	9215	1,7	**F8T5DL**	Daylight	10/500	6500	75	330	310	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	620	585	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	550	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	1280	20000	22”
	14	30118	$,1,7	**F14T5/835/ECO/IC**	835 Phosphor	25	3500	86	1350	1280	20000	22”
	14	30119	$,1,7	**F14T5/841/ECO/IC**	841 Phosphor	25	4100	86	1350	1280	20000	22”
	21	30125	$,1,7	**F21T5/830/ECO/IC**	830 Phosphor	25	3000	86	2100	2000	20000	34”
	21	30126	$,1,7	**F21T5/835/ECO/IC**	835 Phosphor	25	3500	86	2100	2000	20000	34”
	21	30127	$,1,7	**F21T5/841/ECO/IC**	841 Phosphor	25	4100	86	2100	2000	20000	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	Ⓔ $,1,7	**F28T5/835/ECO/IC**	835 Phosphor	25	3500	86	2900	2750	24000	46”
	28	90015	Ⓔ †,$,1,7	**F28T5/835/ECO/IC/CS**	835 Phosphor, CoverShield®	25	3500	86	2900	2750	24000	46”
	28	35046	Ⓔ †,$,1,7	**F28T5/835/ECO/XL**	835 Phosphor, Extended Life	25	3500	86	2800	2660	40000	46”
	28	35043	Ⓔ $,1,7	**F28T5/841/ECO/IC**	841 Phosphor	25	4100	86	2900	2750	24000	46”
	28	90016	Ⓔ †,$,1,7	**F28T5/841/ECO/IC/CS**	841 Phosphor, CoverShield®	25	4100	86	2900	2750	24000	46”
	28	35047	Ⓔ †,$,1,7	**F28T5/841/ECO/XL**	841 Phosphor, Extended Life	25	4100	86	2800	2660	40000	46”
	28	35044	Ⓔ $,1,7	**F28T5/850/ECO/IC**	850 Phosphor	25	5000	86	2900	2750	24000	46”
	35	35049	†,$,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”

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.
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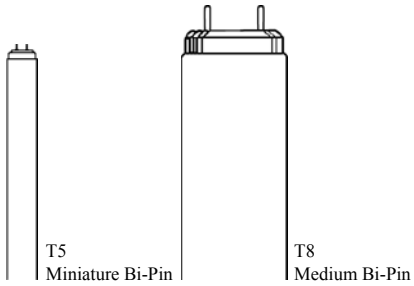

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® T-5 Programmed Start - Miniature Bi-Pin Eco-Shield® (cont'd)												
T5	37	35060	†,$,1,7	**F39T5/830/HO/ECO/IC**	830 Phosphor High Output	25	3000	86	3500	3320	24000	34"
	37	35061	†,$,1,7	**F39T5/835/HO/ECO/IC**	835 Phosphor High Output	25	3500	86	3500	3320	24000	34"
	37	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	Ⓔ †,$,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	Ⓔ †,$,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	Ⓔ †,$,1,7	**F54T5/850/HO/ECO/XL**	850 Phosphor High Output, Extended Life	25	5000	86	5000	4790	40000	46"
	54	35086	Ⓔ †,$,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	30101	$,1,9	**F17T8/730/ECO/IC**	730 Phosphor	25	3000	78	1350	1280	24000	24"
	17	109322	$,1	**F17T8/735/ECO**	735 Phosphor	25	3500	78	1325	1260	24000	24"
	17	30102	$,1,9	**F17T8/735/ECO/IC**	735 Phosphor	25	3500	78	1350	1280	24000	24"
	17	90061	†,$,1,9	**F17T8/735/ECO/IC/CS**	735 Phosphor, CoverShield®	25	3500	78	1350	1280	24000	24"
	17	109324	$,1	**F17T8/741/ECO**	741 Phosphor	25	4100	78	1325	1260	24000	24"
	17	30103	$,1,9	**F17T8/741/ECO/IC**	741 Phosphor	25	4100	78	1350	1280	24000	24"
	17	90062	†,$,1,9	**F17T8/741/ECO/IC/CS**	741 Phosphor, CoverShield®	25	4100	78	1350	1280	24000	24"
	17	30104	$,1,9	**F17T8/750/ECO/IC**	750 Phosphor	25	5000	78	1350	1280	24000	24"
	17	30105	$,1,9	**F17T8/830/ECO/IC**	830 Phosphor	25	3000	86	1400	1330	24000	24"
	17	30112	$,1,9	**F17T8/835/ECO/IC**	835 Phosphor	25	3500	86	1400	1330	24000	24"
	17	30106	$,1,9	**F17T8/841/ECO/IC**	841 Phosphor	25	4100	86	1400	1330	24000	24"
	17	30113	$,1,9	**F17T8/850/ECO/IC**	850 Phosphor	25	5000	86	1400	1330	24000	24"
	25	109340	$,1,9	**F25T8/730/ECO/IC**	730 Phosphor	25	3000	78	2125	2050	24000	36"
	25	30107	$,1,9	**F25T8/735/ECO/IC**	735 Phosphor	25	3500	78	2150	2050	24000	36"

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.
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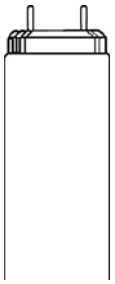

T8
Medium Bi-Pin

ProLume® T-8 Rapid Start - Medium Bi-Pin Eco-Shield® (cont'd)

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
T8	25	90071	†,$,1,9	**F25T8/735/ECO/IC/CS**	735 Phosphor, CoverShield®	25	3500	78	2150	2050	24000	36”
	25	30108	$,1,9	**F25T8/741/ECO/IC**	741 Phosphor	25	4100	78	2150	2050	24000	36”
	25	90072	†,$,1,9	**F25T8/741/ECO/IC/CS**	741 Phosphor, CoverShield®	25	4100	78	2150	2050	24000	36”
	25	30141	$,1,9	**F25T8/750/ECO/IC**	750 Phosphor	25	5000	78	2150	2050	24000	36”
	25	30109	$,1,9	**F25T8/830/ECO/IC**	830 Phosphor	25	3000	86	2250	2140	24000	36”
	25	30110	$,1,9	**F25T8/835/ECO/IC**	835 Phosphor	25	3500	86	2250	2140	24000	36”
	25	30111	$,1,9	**F25T8/841/ECO/IC**	841 Phosphor	25	4100	86	2250	2140	24000	36”
	25	35162	Ⓔ †,$,1,8,9	**F25T8ES/830/ECO**	830 Phosphor, Energy Saver	25	3000	86	2500	2380	24000	48”
	25	35163	Ⓔ †,$,1,8,9	**F25T8ES/835/ECO**	835 Phosphor, Energy Saver	25	3500	86	2500	2380	24000	48”
	25	35164	Ⓔ †,$,1,8,9	**F25T8ES/841/ECO**	841 Phosphor, Energy Saver	25	4100	86	2500	2380	24000	48”
	25	35165	Ⓔ †,$,1,8,9	**F25T8ES/850/ECO**	850 Phosphor, Energy Saver	25	5000	86	2500	2380	24000	48”
	28	30158	Ⓔ †,$,1,9	**F28T8/830/ECO/IC**	830 Phosphor, Energy Saver	25	3000	86	2800	2660	24000	48”
	28	30155	Ⓔ †,$,1,9	**F28T8/835/ECO/IC**	835 Phosphor, Energy Saver	25	3500	86	2800	2660	24000	48”
	28	90081	Ⓔ †,$,1,9	**F28T8/835/ECO/IC/CS**	835 Phosphor, CoverShield®	25	3500	86	2800	2660	24000	48”
	28	30156	Ⓔ †,$,1,9	**F28T8/841/ECO/IC**	841 Phosphor, Energy Saver	25	4100	86	2800	2660	24000	48”
	28	90082	Ⓔ †,$,1,9	**F28T8/841/ECO/IC/CS**	841 Phosphor, CoverShield®	25	4100	86	2800	2660	24000	48”
	28	30157	Ⓔ †,$,1,9	**F28T8/850/ECO/IC**	850 Phosphor, Energy Saver	25	5000	86	2800	2660	24000	48”
	28	90083	Ⓔ †,$,1,9	**F28T8/850/ECO/IC/CS**	850 Phosphor, CoverShield®	25	5000	86	2800	2660	24000	48”
	32	30150	Ⓔ $,1,9	**F32T8/730/ECO/IC**	730 Phosphor	25	3000	78	2850	2700	24000	48”
	32	109414	Ⓔ $,1	**F32T8/735/ECO**	735 Phosphor	25	3500	78	2850	2700	24000	48”
	32	30151	Ⓔ $,1,9	**F32T8/735/ECO/IC**	735 Phosphor	25	3500	78	2850	2700	24000	48”
	32	90086	Ⓔ †,$,1,9	**F32T8/735/ECO/IC/CS**	735 Phosphor, CoverShield®	25	3500	78	2850	2700	24000	48”
	32	109416	Ⓔ $,1	**F32T8/741/ECO**	741 Phosphor	25	4100	78	2850	2700	24000	48”
	32	30152	Ⓔ $,1,9	**F32T8/741/ECO/IC**	741 Phosphor	25	4100	78	2850	2700	24000	48”
	32	90087	Ⓔ †,$,1,9	**F32T8/741/ECO/IC/CS**	741 Phosphor, CoverShield®	25	4100	78	2850	2700	24000	48”
	32	109418	Ⓔ $,1	**F32T8/750/ECO**	750 Phosphor	25	5000	78	2850	2700	24000	48”
	32	30153	Ⓔ $,1,9	**F32T8/750/ECO/IC**	750 Phosphor	25	5000	78	2850	2700	24000	48”
	32	90088	Ⓔ †,$,1,9	**F32T8/750/ECO/IC/CS**	750 Phosphor, CoverShield®	25	5000	78	2850	2700	24000	48”
	32	30154	Ⓔ $,1,9	**F32T8/765/ECO/IC**	765 Phosphor	25	6500	78	2850	2700	24000	48”
	32	35155	Ⓔ $,1,9	**F32T8/830/ECO/HL**	830 Phosphor High Lumen	25	3000	86	3150	3000	24000	48”
	32	35150	Ⓔ $,1,9	**F32T8/830/ECO/IC**	830 Phosphor	25	3000	86	3050	2900	24000	48”
	32	35156	Ⓔ $,1,9	**F32T8/835/ECO/HL**	835 Phosphor High Lumen	25	3500	86	3150	3000	24000	48”
	32	35151	Ⓔ $,1,9	**F32T8/835/ECO/IC**	835 Phosphor	25	3500	86	3050	2900	24000	48”
	32	90091	Ⓔ †,$,1,9	**F32T8/835/ECO/IC/CS**	835 Phosphor, CoverShield®	25	3500	86	3050	2900	24000	48”
	32	35159	Ⓔ †,$,1	**F32T8/835/ECO/XL**	835 Phosphor, Extended Life	25	3500	86	2950	2800	40000	48”
	32	109402	Ⓔ $,1	**F32T8/841/ECO**	841 Phosphor	25	4100	86	3050	2900	24000	48”
	32	35157	Ⓔ $,1,9	**F32T8/841/ECO/HL**	841 Phosphor High Lumen	25	4100	86	3150	3000	24000	48”
	32	35152	Ⓔ $,1,9	**F32T8/841/ECO/IC**	841 Phosphor	25	4100	86	3050	2900	24000	48”

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.
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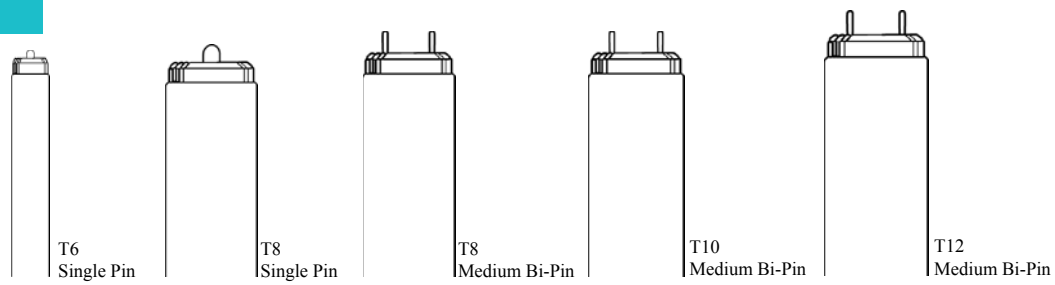

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® T-8 Rapid Start - Medium Bi-Pin Eco-Shield® (cont'd)												
T8	32	90092	Ⓔ †,$,1,9	**F32T8/841/ECO/IC/CS**	841 Phosphor, CoverShield®	25	4100	86	3050	2900	24000	48"
	32	35160	†,$,1	**F32T8/841/ECO/XL**	841 Phosphor, Extended Life	25	4100	86	2950	2800	40000	48"
	32	35158	Ⓔ $,1,9	**F32T8/850/ECO/HL**	850 Phosphor High Lumen	25	5000	86	3150	3000	24000	48"
	32	35153	Ⓔ $,1,9	**F32T8/850/ECO/IC**	850 Phosphor	25	5000	86	3050	2900	24000	48"
	32	90093	Ⓔ †,$,1,9	**F32T8/850/ECO/IC/CS**	850 Phosphor, CoverShield®	25	5000	86	3050	2900	24000	48"
	32	35161	Ⓔ †,$,1	**F32T8/850/ECO/XL**	850 Phosphor, Extended Life	25	5000	86	2950	2800	40000	48"
	32	35154	Ⓔ $,1,9	**F32T8/865/ECO/IC**	865 Phosphor	25	6500	86	3050	2900	24000	48"
	32	109360	Ⓔ $,1	**F32T8/ULTRA950**	950 Phosphor Ultra950™	25	5000	98	2000	1900	24000	48"
	32	37200	1	**F32T8BLB**	Blacklight-Blue	12	-	-	-	-	20000	48"
	40	30161	†,$,1	**F40T8/735/ECO**	735 Phosphor	30	3500	78	3600	3450	24000	60"
	40	30160	†,$,1	**F40T8/741/ECO**	741 Phosphor	30	4100	78	3600	3450	24000	60"
	58	109374		**F58T8/840**	840 Phosphor	25	4000	85	5300	5000	24000	60"
	70	839452	1	**F70T8/840/M**	840 Phosphor Major	25	4000	85	6300	5985	20000	72"
T-8 Rapid Start - Single Pin												
T8	59	823411	Ⓔ $,1	**F96T8/735/M**	735 Phosphor Major	24	3500	78	5800	5500	15000	96"
	59	823412	Ⓔ $,1	**F96T8/741/M**	741 Phosphor Major	24	4100	78	5800	5500	15000	96"
	59	205773	Ⓔ $,1	**F96T8/850/M**	850 Phosphor Major	24	5000	86	5950	5500	15000	96"
ProLume® T-10 Rapid Start - Medium Bi-Pin												
T10	40	109600	Ⓔ 1	**F40T10/ULTRA50**	850 Phosphor Ultra50™	30	5000	86	3600	3420	20000	48"
ProLume® T-12 Rapid Start - Medium Bi-Pin												
T12	20	90120	†,1	**F20T12CW/CS**	Cool White, CoverShield®	30	4100	62	1150	1000	8000	24"
	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	40212	Ⓔ $,1	**F34CWES/ECO**	Cool White Energy Saver	30	4100	62	2650	2300	20000	48"
	34	256867	Ⓔ $,1	**F34WWES/M**	Warm White Low Mercury Major, Energy Saver	30	3000	53	2700	2350	20000	48"
	34	90130	Ⓔ †,$,1	**F34CWES/ECO/CS**	Cool White CoverShield®, Energy Saver	30	4100	53	2650	2300	20000	48"
	40	109480	1	**F40/350BL**	Blacklight	6	-	-	-	-	20000	48"
	40	109490	1	**F40BLB**	Blacklight-Blue	6	-	-	-	-	20000	48"
	40	90135	Ⓔ †,1	**F40DX/CS**	Daylight Deluxe, CoverShield®	30	5000	85	2650	2500	20000	48"
	40	815075	Ⓔ 1	**F40/730/ECO**	730 Phosphor Low Mercury Major	30	3000	70	3250	2950	20000	48"
	40	109614	Ⓔ 1	**F40/ULTRA50**	850 Phosphor Ultra50™	30	5000	86	3450	3275	20000	48"
Slimline Instant Start - Single Pin												
T6	25	824266	1	**F42T6CW/M**	Cool White Major	24	4100	62	1750	1665	7500	42"
	40	826466	1	**F64T6CW/M**	Cool White Major	24	4100	62	2800	2650	7500	64"
	39	363218	1	**F48CW/M**	Cool White Low Mercury Major	15	4100	62	2950	2800	9000	48"
	39	387019	1	**F48DL/M**	Daylight Low Mercury Major	15	6500	79	2500	2375	9000	48"

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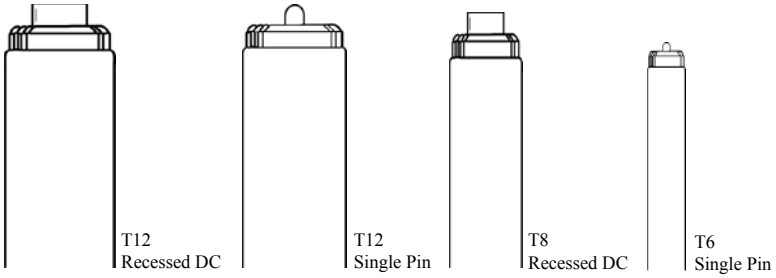
Linear Fluorescent symbols, footnotes and abbreviations are located on page 65.



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
Slimline Instant Start - Single Pin (cont'd)												
T6	50	826001	1	**F60CW/M**	Cool White Major	30	4100	62	3600	3420	12000	60"
	50	823076	1	**F60DL/M**	Daylight Major	30	6500	75	3000	2850	12000	60"
	50	355768	1	**F64CW/M**	Cool White Major	30	4100	62	3900	3700	12000	64"
	50	355776	1	**F64DL/M**	Daylight Major	30	6500	76	3300	3125	12000	64"
	56	369892	1	**F72CW/M**	Cool White Low Mercury Major	15	4100	62	4450	4225	12000	72"
	56	369850	1	**F72DL/M**	Daylight Low Mercury Major	15	6500	79	3800	3600	12000	72"
T12	60	90150	Ⓔ †,$,1	**F96CWES/ECO/CS**	ProLume® Cool White, CoverShield®	15	4100	62	5400	5125	12000	96"
	70	813764	1	**F84CW/M**	Cool White Major	15	4100	62	5300	5025	12000	84"
	75	90152	Ⓔ †,1	**F96DX/ECO/CS**	Daylight Deluxe, ProLume® CoverShield®	15	6500	84	4500	4275	12000	96"
	75	814067	Ⓔ 1	**F96/735/M**	735 Phosphor Major	15	3500	73	6110	5800	12000	96"
High Output (800mA) - Recessed DC Base												
T8	86	812537	Ⓔ $,1,4,5	**F96T8/735HO/M**	735 Phosphor High Output Major	24	3500	78	8000	7600	18000	96"
	86	812538	Ⓔ $,1,4,5	**F96T8/741HO/M**	741 Phosphor High Output Major	24	4100	78	8000	7600	18000	96"
T12	35	262790	1,4,5	**F24T12CWHO/M**	Cool White High Output Major	30	4100	62	1650	1575	9000	24"
	35	262741	1,4,5	**F24T12DLHO/M**	Daylight High Output Major	30	6500	79	1400	1325	9000	24"
	40	226464	1,4,5	**F30T12CWHO/M**	Cool White High Output Major	30	4100	62	2290	2175	9000	30"
	40	343343	1,4,5	**F30T12DLHO/M**	Daylight High Output Major	30	6500	79	1920	1825	9000	30"
	50	262865	1,4,5	**F36T12CWHO/M**	Cool White High Output Major	30	4100	62	2800	2650	9000	36"
	50	262907	1,4,5	**F36T12DLHO/M**	Daylight High Output Major	30	6500	79	2500	2375	9000	36"
	55	810559	1,4,5	**F42CWHO/M**	Cool White High Output Major	30	4100	62	3400	3225	9000	42"
	55	810560	1,4,5	**F42DLHO/M**	Daylight High Output Major	30	6500	79	3000	2850	9000	42"
	60	369785	1,4,5	**F48CWHO/M**	Cool White High Output Low Mercury Major	15	4100	62	4050	3850	12000	48"
	60	369843	1,4,5	**F48DLHO/M**	Daylight High Output Low Mercury Major	15	6500	79	3400	3225	12000	48"
	60	90055	†,1,4,5	**F48CWHO/M/CS**	Cool White High Output Low Mercury Major, CoverShield®	15	4100	62	4050	3850	12000	48"
	75	251260	1,4,5	**F60CWHO/M**	Cool White High Output Major	30	4100	62	5200	4950	12000	60"
	75	825120	1,4,5	**F60DLHO/M**	Daylight High Output Major	30	6500	76	4600	4375	12000	60"
	80	823083	1,4,5	**F64CWHO/M**	Cool White High Output Major	15	4100	60	5600	5325	12000	64"
	80	823087	1,4,5	**F64DLHO/M**	Daylight High Output Major	15	6500	75	4750	4500	12000	64"
	85	366518	1,4,5	**F72CWHO/M**	Cool White High Output Low Mercury Major	15	4100	62	6350	6035	12000	72"
	85	366534	1,4,5	**F72DLHO/M**	Daylight High Output Low Mercury Major	15	6500	79	5600	5325	12000	72"
	95	90054	Ⓔ †,$,1,4,5	**F96CWHOES/ECO/CS**	Cool White High Output ProLume® CoverShield®, Energy Saver	15	4150	62	8000	7600	12000	96"
	100	813766	1,4,5	**F84CWHO/M**	Cool White High Output Major	15	4100	62	7800	7400	12000	84"
	100	813767	1,4,5	**F84DLHO/M**	Daylight High Output Major	15	6500	76	6700	6375	12000	84"
	110	381774	1,4,5,6	**F96DLHOO/A**	Daylight High Output Low Mercury Major	15	6500	79	7800	7400	12000	96"

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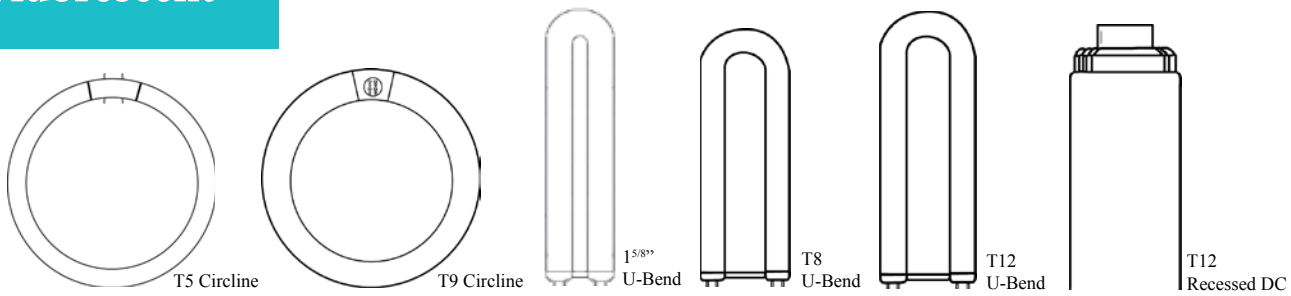
Linear Fluorescent symbols, footnotes and abbreviations are located on page 65.

Linear Fluorescent



Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
Very High Output (1500mA) - Recessed DC Base												
T12	110	810751	1,4,5	**F48CWVHO/M**	Cool White Very High Output Major	24	4100	60	6200	5900	10000	48”
	160	813760	1,4,5	**F72CWVHO/M**	Cool White Very High Output Major	15	4100	62	7850	7450	10000	72”
	215	342345	1,4,5	**F96CWVHO/M**	Cool White Very High Output Major	15	4100	62	13500	10125	10000	96”
***ProLume*® U-Bend Rapid Start - Medium Bi-Pin Base Eco-Shield®**												
T8	28	35309	Ⓔ †,$,1,3	**FB28/830/6/ECO/IC**	830 Phosphor 6”	20	3000	86	2650	2450	24000	22.6”
	28	35307	Ⓔ †,$,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	85	2750	2600	24000	22.6”
	31	30302	Ⓔ $,1,3	**FB31/835/ECO**	835 Phosphor 1-5/8”	12	3500	85	2750	2600	24000	22.6”
	31	30303	Ⓔ $,1,3	**FB31/841/ECO**	841 Phosphor 1-5/8”	12	4100	85	2750	2600	24000	22.6”
	31	30304	Ⓔ $,1,3	**FB31/850/ECO**	850 Phosphor 1-5/8”	12	5000	85	2750	2600	24000	22.6”
	32	30351	Ⓔ $,1,3	**FB32/730/6/ECO/IC**	730 Phosphor 6”	20	3000	75	2750	2600	24000	22.6”
	32	30352	Ⓔ $,1,3	**FB32/735/6/ECO/IC**	735 Phosphor 6”	20	3500	75	2750	2600	24000	22.6”
	32	30353	Ⓔ $,1,3	**FB32/741/6/ECO/IC**	741 Phosphor 6”	20	4100	75	2750	2600	24000	22.6”
	32	30354	Ⓔ $,1,3	**FB32/750/6/ECO/IC**	750 Phosphor 6”	20	5000	75	2750	2600	24000	22.6”
	32	35313	Ⓔ †,$,1,3	**FB32/830/6/ECO/IC**	830 Phosphor 6”	20	3000	86	2900	2750	24000	22.6”
	32	35302	Ⓔ $,1,3	**FB32/835/6/ECO/IC**	835 Phosphor 6”	20	3500	85	2900	2750	24000	22.6”
	32	35303	Ⓔ $,1,3	**FB32/841/6/ECO/IC**	841 Phosphor 6”	20	4100	85	2900	2750	24000	22.6”
	32	35305	Ⓔ †,$,1,3	**FB32/850/6/ECO/IC**	850 Phosphor 6”	20	5000	86	2900	2750	24000	22.6”
T12	34	812199	Ⓔ $,1,3	**FB34CWU3ES/M**	Cool White 3-5/8” Major	12	4100	60	2200	2100	14000	22.5”
	34	378638	Ⓔ $,1,3	**FB34CWU6ES/M**	Cool White 6” Major	12	4100	62	2400	2050	18000	22.5”
	40	219931	1,3	**FB40DX/6/M**	Daylight 6” Major	12	6500	84	2250	2125	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	109040	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	109050	1	**FC12T9CW**	Cool White	12	4100	62	2100	2000	10000	12”
	40	109060	1	**FC16T9CW**	Cool White	12	4100	62	2900	2700	10000	16”

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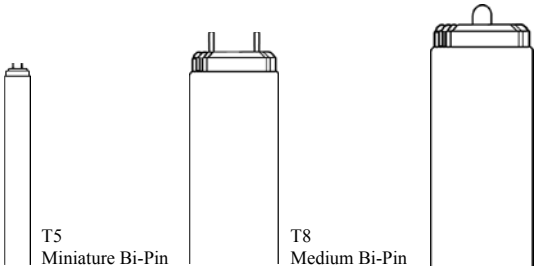

Bulb	Watts	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Initial Lumens	Mean Lumens	Avg. Life	Nom. Length
ProLume® Appliance - Medium Bi-Pin Base												
T8	18	109234	1	**F18T8CW/K24**	Cool White 24” ProLume®	25	4100	62	1175	1025	7500	24”
	18	810702	1	**F18T8CW/K26**	Cool White 26” Major	24	4100	62	1280	1080	7500	26”
	18	817704	1	**F18T8CW/K28**	Cool White 28” Major	24	4100	62	1360	1130	7500	28”
	18	810349	1	**F18T8CW/K30**	Cool White 30” Major	24	4100	62	1400	1200	7500	30”
T12	25	810280	1	**F25T12CW/28**	Cool White 28” Major	30	4100	62	1670	1450	7500	28”
	25	838201	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”

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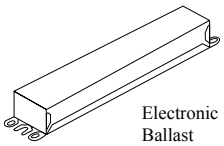

Product Number	Footnotes	Product Code	Description	Voltage	Start Type	Pkg. Qty.
ProLume® Ballasts						
Electronic						
50150		**E1CR22RS/120/PT**	FC22 1 Circline Lamp	120	Rapid Start	1/100
50146		**E1CR32RS/120/PT**	FC32 1 Circline Lamp	120	Rapid Start	1/100
50102		**E108RS/120**	F8T5 1 Lamp	120	Rapid Start	1/60
50104		**E114RS/120**	F13T5 1 Lamp	120	Rapid Start	1/60
50108		**E120RS/120**	F20T12 1 Lamp	120	Rapid Start	1/20
50106		**E126RS/120**	F13T8 1 Lamp	120	Rapid Start	1/50
50138		**E139HO/RS/120**	F39T5 HO 1 Lamp	120	Rapid Start	1/50
50140		**E154HO/RS/120**	F54T5 HO 1 Lamp	120	Rapid Start	1/50
50148		**E2CR72RS/120/PT**	FC32 & FC40 2 Circline Lamp	120	Rapid Start	1/50
50110		**E220RS/120**	F20T12 2 Lamp	120	Rapid Start	1/20
50118		**E232IS/120/R/SL**	F32T8 2 Lamp Residential	120	Instant Start	10
50158		**E432IS/120/R/SL**	F32T8 4 Lamp Residential	120	Instant Start	10
ProFormance® Electronic						
50112		**EP132IS/MV/SL**	F32T8 1 Lamp	120-277	Instant Start	10
50162		**EP2110RS/120**	F96T12 HO 2 Lamp	120	Rapid Start	6
50164		**EP2110RS/MV**	F96T12 HO 2 Lamp	120-277	Rapid Start	6
50166	†	**EP228PS/MV**	F28T5 2 Lamp	120-277	Pulse Start	20
50176	†	**EP232IS/120/MC**	F32T8 2 Lamp	120	Instant Start	10
50114		**EP232IS/120/SL**	F32T8 2 Lamp	120	Instant Start	10
50123	†	**EP232IS/MV/HE**	F32T8 2 Lamp	120-277	Instant Start	10
50116		**EP232IS/MV/SL**	F32T8 2 Lamp	120-277	Instant Start	10
50115		**EP232IS/H/MV/SL**	F32T8 2 Lamp HBF	120-277	Instant Start	10
50119	†	**EP232IS/L/MV/HE**	F32T8 2 Lamp LBF	120-277	Instant Start	10
50152		**EP232IS/L/MV/SL**	F32T8 2 Lamp LBF	120-277	Instant Start	10
50142		**EP239HO/PS/MV**	F39T5 HO 2 Lamp	120-277	Programmed Start	20
50128		**EP240RS/120**	F40T12 2 Lamp	120	Rapid Start	10
50160		**EP240RS/MV**	F40T12 2 Lamp	120-277	Rapid Start	10
50144		**EP254HO/PS/MV**	F54T5 HO 2 Lamp	120-277	Programmed Start	20
50136		**EP259IS/MV**	F96T8 2 Lamp	120-277	Instant Start	10
50132		**EP260IS/120**	F96T12 ES 2 Lamp	120	Instant Start	10
50134		**EP260IS/277**	F96T12 ES 2 Lamp	277	Instant Start	10
50130		**EP275IS/MV**	F96T12 2 Lamp	120-277	Instant Start	6
50120		**EP332IS/120/SL**	F32T8 3 Lamp	120	Instant Start	10
50170	†	**EP332IS/MV/HE**	F32T8 3 Lamp	120-277	Instant Start	10
50122		**EP332IS/MV/SL**	F32T8 3 Lamp	120-277	Instant Start	10
50121		**EP332IS/H/MV/SL**	F32T8 3 Lamp HBF	120-277	Instant Start	10
50168	†	**EP332IS/L/MV/HE**	F32T8 3 Lamp LBF	120-277	Instant Start	10

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.
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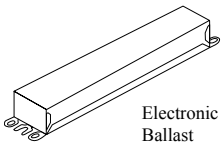
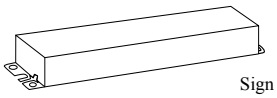


Electronic Ballast



Sign Ballast

Product Number	Footnotes	Product Code	Description	Voltage	Start Type	Pkg. Qty.
ProFormance. Electronic (cont'd)						
50154		**EP332IS/L/MV/SL**	F32T8 3 Lamp LBF	120-277	Instant Start	10
50124		**EP432IS/120/SL**	F32T8 4 Lamp	120	Instant Start	10
50174	†	**EP432IS/MV/HE**	F32T8 4 Lamp	120-277	Instant Start	10
50126		**EP432IS/MV/SL**	F32T8 4 Lamp	120-277	Instant Start	10
50172	†	**EP432IS/L/MV/HE**	F32T8 4 Lamp LBF	120-277	Instant Start	10
50156		**EP432IS/L/MV/SL**	F32T8 4 Lamp LBF	120-277	Instant Start	10
ProLume® ProFormance® ballasts provide high power factor and low THD of less than 10%.						
Electronic Sign						
57114	†	**ESB/0216/12**	Sign Ballast 1-2 Lamp 2-16 ft.	120-277	Instant Start	1
57116	†	**ESB/0432/14**	Sign Ballast 1-4 Lamp 4-32 ft.	120-277	Instant Start	1
57120	†	**ESB/0848/46**	Sign Ballast 4-6 Lamp 8-48 ft.	120-277	Instant Start	1
57118	†	**ESB/1040/14**	Sign Ballast 1-4 Lamp 10-40 ft.	120-277	Instant Start	1

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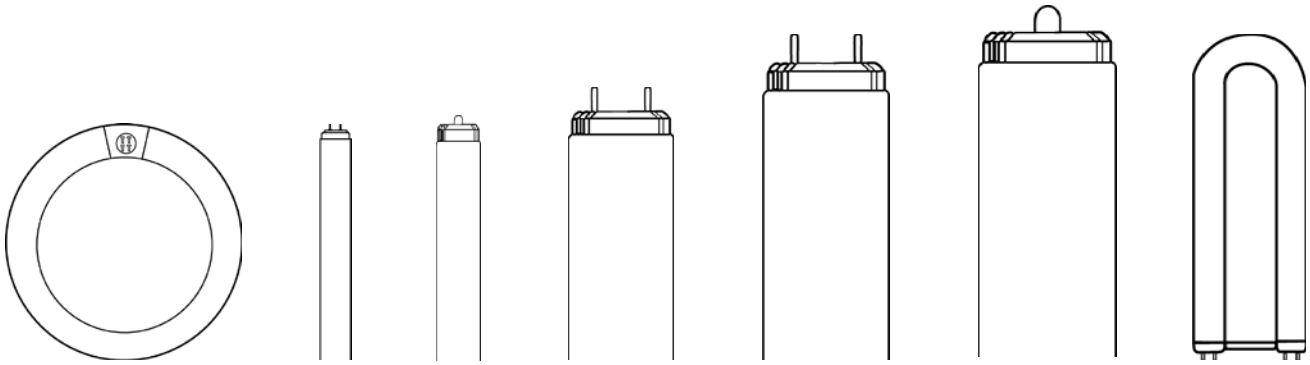
Linear Fluorescent symbols, footnotes and abbreviations are located on page 65.

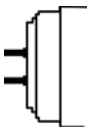
Bulb and Base Identification Guide

Bulb Shapes

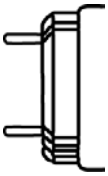


Circline | T5 | T6 | T8 | T10 | T12 | U-Bend

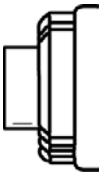
Base Types



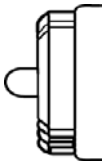
Miniature Bi-Pin



Medium Bi-Pin



Recessed DC



Single Pin

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	F25T12/CW/28
F25T12CW/33	F25T12/CW/33	-	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	-	-	-
F54T5/841/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

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/IC	F17T8/SP30/ECO	F17T8/TL730/ALTO	FO17/730/ECO
F17T8/735/ECO/IC	F17T8/SP35/ECO	F17T8/TL735/ALTO	FO17/735/ECO
F17T8/741/ECO/IC	F17T8/SP41/ECO	F17T8/TL741/ALTO	FO17/741/ECO
F17T8/750/ECO/IC	-	-	-
F17T8/830/ECO/IC	F17T8/SPX30/ECO	F17T8/TL830/ALTO	FO17/830/ECO
F17T8/835/ECO/IC	F17T8/SPX35/ECO	F17T8/TL835/ALTO	FO17/835/ECO
F17T8/841/ECO/IC	F17T8/SPX41/ECO	F17T8/TL841/ALTO	FO17/841/ECO
F17T8/850/ECO/IC	-	F17T8/TL850/ALTO	-
F25T8/730/ECO/IC	F25T8/SP30/ECO	F25T8/TL730/ALTO	FO25/730/ECO
F25T8/735/ECO/IC	F25T8/SP35/ECO	F25T8/TL735/ALTO	FO25/735/ECO
F25T8/741/ECO/IC	F25T8/SP41/ECO	F25T8/TL741/ALTO	FO25/741/ECO
F25T8/750/ECO/IC	F25T8/SP50/ECO	F25T8/TL750/ALTO	-
F25T8/830/ECO/IC	F25T8/SPX30/ECO	F25T8/TL830/ALTO	FO25/830/ECO
F25T8/835/ECO/IC	F25T8/SPX35/ECO	F25T8/TL835/ALTO	FO25/835/ECO
F25T8/841/ECO/IC	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/IC	F28T8/XL/SPX30/ECO	F32T8/ADV830/EW/ALTO 28 WATT	FO28/830/XP/SS/ECO
F28T8/835/ECO/IC	F28T8/XL/SPX35/ECO	F32T8/ADV835/EW/ALTO 28 WATT	FO28/835/XP/SS/ECO
F28T8/841/ECO/IC	F28T8/XL/SPX41/ECO	F32T8/ADV841/EW/ALTO 28 WATT	FO28/841/XP/SS/ECO
F28T8/850/ECO/IC	F28T8/XL/SPX50/ECO	F32T8/ADV850/EW/ALTO 28 WATT	-
F32T8/730/ECO/IC	F32T8/SP30/ECO	F32T8/TL730/ALTO	FO32/730/ECO
F32T8/735/ECO/IC	F32T8/SP35/ECO	F32T8/TL735/ALTO	FO32/735/ECO
F32T8/741/ECO/IC	F32T8/SP41/ECO	F32T8/TL741/ALTO	FO32/741/ECO
F32T8/750/ECO/IC	F32T9/SP50/ECO	F32T8/TL750/ALTO	FO32/750/ECO
F32T8/765/ECO/IC	F32T8/SP65/ECO	F32T8/TL765/ALTO	FO32/765/ECO
F32T8/830/ECO/IC	F32T8/SPX30/ECO	F32T8/TL830/ALTO	FO32/830/ECO
F32T8/830/ECO/HL	F32T8/XL/SPX30/HL/ECO	F32T8/ADV/830/ALTO	-
F32T8/835/ECO/IC	F32T8/SPX35/ECO	F32T8/TL835/ALTO	FO32/835/ECO
F32T8/835/ECO/HL	F32T8/XL/SPX35/HL/ECO	F32T8/ADV835/ALTO	-
F32T8/835/ECO/XL	F32T8/XL/SPX35/ECO	F32T8/TL835/XLL/ALTO	FO32/835/XP/ECO
F32T8/841/ECO/IC	F32T8/SPX41/ECO	F32T8/TL841/ALTO	FO32/841/ECO

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
T-8 Rapid Start (cont'd)			
F32T8/841/ECO/HL	F32T8/XL/SPX41/HL/ECO	F32T8/ADV841/ALTO	-
F32T8/841/ECO/XL	F32T8/XL/SPX41/ECO	F32T8/TL841/XLL/ALTO	FO32/841/XP/ECO
F32T8/850/ECO/IC	F32T8/SPX50/ECO	F32T8/TL850/ALTO	FO32/850/ECO
F32T8/850/ECO/HL	F32T8/XL/SPX50/HL/ECO	F32T8/ADV850/ALTO	-
F32T8/850/ECO/XL	F32T8/XL/SPX50/ECO	F32T8/TL850/XLL/ALTO	FO32/850/XP/ECO
F32T8/865/ECO/IC	-	-	-
F32T8BLB	-	-	-
F32T8/ULTRA950	-	F32T8/TL950	FO32/950/48in
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-10 Rapid Start			
F40T10/ULTRA50	-	-	-
T-12 Rapid Start			
F34CWES/ECO	F34CW/RS/WM/ECO	F34CW/RS/EW/ALTO	F34CW/SS/ECO
F40DX/A	F40/DX/ECO	F40/DX/ALTO	F40/DX
F40/ULTRA50	F40/SPX50	F40T12/850/ALTO	-
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
F96CWES/A	F96T12/CW/WM/ECO	F96T12/CW/EW/ALTO	F96T12/CW/SS/ECO
F96DX/A	F96T12/DX	F96T12/DX/ALTO	F96T12/DX/SS
Rapid Start High Output & Very High Output			
F48CWVHO/M	F48T12/CW/1500	F48T12CW/VHO	F48T12/CW/VHO
F72CWVHO/M	F72T12/CW/1500	F72T12/CW/VHO	F72T12/CW/VHO
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

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
U-Bend Fluorescent			
FB28/830/6/ECO/IC	-	-	-
FB28/835/6/ECO/IC	-	-	-
FB28/841/6/ECO/IC	-	-	-
FB32/730/6/ECO/IC	F32T8/SP30/U/6	FB32T8/TL730/6/ALTO	FBO32/730/6/ECO
FB32/735/6/ECO/IC	F32T8/SP35/U/6	FB32T8/TL735/6/ALTO	FBO32/735/6/ECO
FB32/741/6/ECO/IC	F32T8/SP41/U/6	FB32T8/TL741/6/ALTO	FBO32/741/6/ECO
FB32/750/6/ECO/IC	-	FB32T8/TL750/6/ALTO	FBO32/750/6/ECO
FB32/830/6/ECO/IC	F32T8/SPX30/U/6	FB32T8/TL830/6/ALTO	FBO32/830/6/ECO
FB32/835/6/ECO/IC	F32T8/SPX35/U/6	FB32T8/TL835/6/ALTO	FBO32/835/6/ECO
FB32/841/6/ECO/IC	F32T8/SPX41/U/6	FB32T8/TL841/6/ALTO	FBO32/841/6/ECO
FB32/850/6/ECO/IC	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	-	-	-
FB34CWU6ES/M	F35CW/U/6/WM	FB34CW/6/EW	FB34/CW/6/SS/ECO
FB34CWU3ES/M	F35CW/U/3/WM	FB34CW/3/EW	-
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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Symbols, Footnotes and Abbreviations

SYMBOLS	
†	New product introduced within the past year.
$	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.

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. Lamp operates at 170mA. Minimum starting temperature is -15°F, with peak operating temperature at 95°F.
8	This lamp should only be operated on high efficiency or anti-striation type ballasts.
9	Lumen specifications provided as tested per IEC 60081 test methods.

ABBREVIATIONS	
3	Code abbreviation for 3-5/8" U-Bend lamps.
6	Code abbreviation for 6" U-Bend lamps.
/120	Suffix used to indicate 120 Volt ballasts.
/277	Suffix used to indicate 277 Volt ballasts.
/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.

ABBREVIATIONS	
/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.
/950	Suffix used to indicate lamps with CRI of 90+ and color temperature of 5000K.
/955	Suffix used to indicate lamps with CRI of 90+ and color temperature of 5550K.
AB	Code abbreviation for Arctic Brite lamps.
BL	Code abbreviation for Blacklight lamps.
BLB	Code abbreviation for Blacklight Blue lamps.
CR	Code abbreviation for ProLume® electronic ballasts for circline lamps.
/CS	Suffix used to indicate CoverShield® safety coated lamps.
CW	Code abbreviation for Cool White lamps.
CWX	Code abbreviation for ProLume® Cool White Deluxe lamps.
DL	Code abbreviation for Daylight lamps.
DX	Code abbreviation for Daylight lamps.
E	Code abbreviation for ProLume® Electronic ballasts.
/ECO	Suffix used to indicate Eco-Shield® TCLP compliant lamps.
EP	Code abbreviation for ProLume® ProFormance® Electronic ballasts.
/ES	Suffix used to indicate Energy Saving Fluorescent lamps.
ESB	Code abbreviation for ProLume® Electronic Sign ballasts.
FB	Code abbreviation for Fluorescent U-Bend lamps.
FC	Code abbreviation for Fluorescent Circline lamps.
/HE	Suffix used to indicate High Efficiency.
/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.
IS	Code abbreviation for Instant Start ballasts and lamps.
/M	Suffix used to indicate Major brand Fluorescent lamps (GE, Philips, Osram/Sylvania).
/MC	Suffix used to indicate ballasts with Micro Case design.
/MV	Suffix used to indicate Multi-Volt (120-277) ballasts.
PS	Code abbreviation for Programmed Start ballasts.
/PT	Suffix used to indicate ballasts with Pigtail wires.
/R	Suffix to indicate ballast designed for Residential lighting.
RS	Code abbreviation for Rapid Start ballasts.
/SL	Suffix used to indicate ballast with Slim Case design.
T50	Code abbreviation for Triten50 lamps.
/VHO	Suffix used to indicate Very High Output lamps.
WW	Code abbreviation for Warm White lamps.
/XL	Suffix used to indicate Extended Life lamps.