

COMPACT FLUORESCENT LAMPS

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FLUORESCENT LAMPS

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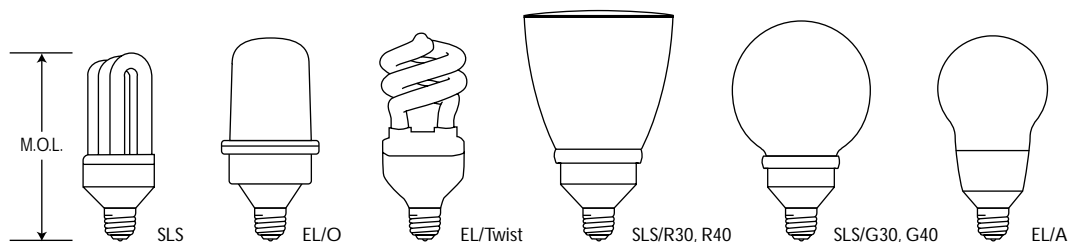
Marathon Lamps

Screw-in Compact Fluorescent with integral ballast. All are electronic.
Direct replacement for incandescent, offering energy savings, high color rendering and long life. (217, 218)

Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (230)	Approx. Initial (231) Lumens	CRI		
15	SLS	Med. Screw	\$	37104-7	UNIVERSAL SLS 15	6	Ultra-Compact (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	4 ⁵ / ₁₆	10,000	900	82	
			\$	37105-4	UNIVERSAL BC-SLS 15	6	Ultra-Compact/Blister (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	4 ⁵ / ₁₆	10,000	900	82	
			† □	\$	37162-5	DIMMABLE SLS/D 15	6	Dimmable (216, 232) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	800	82
			† □	\$	37169-0	DIMMABLE BC-SLS/D 15	6	Dimmable/Blister (216, 232, 233) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	800	82
			EL/O	\$	37118-7	OUTDOOR EL/O 15	6	Translucent Cover (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	800	82
	†	\$	37119-5	OUTDOOR BC-EL/O 15	6	Translucent Cover/Blister (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	800	82		
	† □	\$	28781-3	OUTDOOR EL/O DL50 15	6	Daylight 50 (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	750	80		
	† □	\$	36772-2	OUTDOOR BC-EL/O DL50 15	6	Daylight 50/Blister (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	750	80		
		\$	37148-4	BUG-A-WAY EL/O 15 BAW	6	Yellow Cover (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	5 ⁷ / ₁₆	10,000	750	—		
	†	\$	37149-2	BUG-A-WAY BC-EL/O 15 BAW	6	Translucent Cover/Blister (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	5 ⁷ / ₁₆	10,000	750	—		
	EL/Twist	†	\$	38109-5	TWISTER BC-EL/TWIST 15	6	Decorative Shape (227) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	6000	825	82	
	SLS/R30	\$	37246-6	FLOOD SLS/R30 15	6	Snap-On Reflector (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 50 WATT LAMPS	6	8000	500	82		
	SLS/R40	□	\$	37256-5	FLOOD SLS/R40 15	6	Snap-On Reflector (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	6 ⁷ / ₁₆	8000	625	82	
	SLS/G30	\$	37264-9	DECOR GLOBE SLS/G30 15	6	G30 Globe (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	5 ⁷ / ₁₆	10,000	750	82		
	SLS/G40	□	\$	37266-4	DECOR GLOBE SLS/G40 15	6	G40 Globe (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	6 ¹ / ₁₆	10,000	750	82	
16	SLS	Med. Screw	□	\$	37268-0	UNIVERSAL/RH SLS/RH 16	6	Reduced Harmonic/Utility (216, 228) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	10,000	900	82
			EL/A	\$	37092-4	HOUSEHOLD BC-EL/A 16	6	Incandescent-like Shape (216, 227) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 60 WATT LAMPS	5 ⁷ / ₁₆	6000	825	82
18	EL/O	Med. Screw	□	\$	37123-7	OUTDOOR EL/O 18	6	Translucent Cover (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	6 ⁷ / ₁₆	10,000	1100	82
			† □	\$	37152-5	OUTDOOR BC-EL/O 18	6	Translucent Cover/Blister (216) ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS	6 ⁷ / ₁₆	10,000	1100	82

- — Exclusive Philips Product
- \$ — Energy Saving Product
- † — New Since Last Printing

- — High Color Rendering Lamps
- Footnotes located on page 78

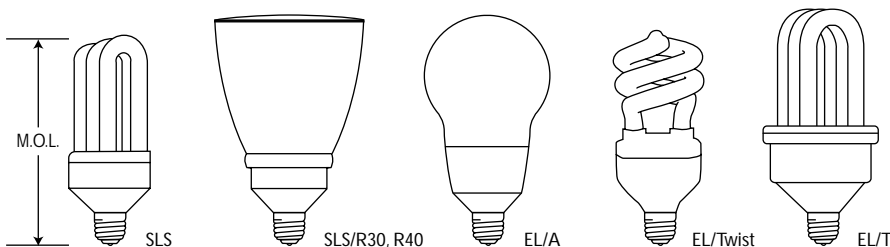


Marathon Lamps, continued

Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (230)	Approx. Initial (231) Lumens	CRI	
20	SLS	Med. Screw	\$ 37108-8	UNIVERSAL SLS 20	6	Ultra-Compact (216)	5 ⁵ / ₈	10,000	1200	82	
			\$ 37109-6	UNIVERSAL BC-SLS 20	6	Ultra-Compact/Blister (216)	5 ⁵ / ₈	10,000	1200	82	
			☐ \$ 37177-3	DIMMABLE SLS/D 20	6	Dimmable (216, 232)	6	10,000	1100	82	
			☐ \$ 37179-9	DIMMABLE BC-SLS/D 20	6	Dimmable/Blister (216, 232, 233)	6	10,000	1100	82	
			☐ \$ 37270-6	UNIVERSAL/RH SLS/RH 20	6	Reduced Harmonics/Utility (216, 228)	6	10,000	1200	82	
			\$ 37248-2	FLOOD SLS/R30 20	6	Snap-On Reflector (216)	6	8000	575	82	
	SLS/R30	† § ☐ \$	38488-3	DIMMABLE FLOOD SLS/R30 20		6	Dimmable Snap-On Reflector (216, 232)	6 ⁵ / ₁₆	7000	575	82
				\$ 37262-3	FLOOD SLS/R40 20	6	Snap-On Reflector (216)	6 ⁵ / ₈	8000	825	82
	SLS/R40	† § ☐ \$	38489-1	DIMMABLE FLOOD SLS/R40 20		6	Dimmable Snap-On Reflector (216, 232)	6 ¹⁵ / ₁₆	7000	800	82
				† § 37096-5	HOUSEHOLD BC-EL/A 20	6	Incandescent-like Shape/Blister (216, 227)	6	6000	1100	82
	EL/A	† §	38110-3	TWISTER BC-EL/TWIST 20		6	Decorative Shape (227)	5 ⁵ / ₈	6000	1100	82
	EL/Twist	† §	ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 75 WATT LAMPS								
23	SLS	Med. Screw	\$ 37112-0	UNIVERSAL SLS 23	6	Ultra-Compact (216)	6 ⁵ / ₁₆	10,000	1500	82	
			☐ \$ 37193-0	DIMMABLE SLS/D 23	6	Dimmable (216, 232, 233)	6 ⁵ / ₈	10,000	1400	82	
			☐ \$ 37202-9	DIMMABLE BC-SLS/D 23	6	Dimmable/Blister (216, 232, 233)	6 ⁵ / ₈	10,000	1400	82	
			☐ \$ 37272-2	UNIVERSAL/RH SLS/RH 23	6	Reduced Harmonics/Utility (216, 228)	6 ⁵ / ₈	10,000	1500	82	
	EL/Twist	† §	38111-1	TWISTER BC-EL/TWIST 23		6	Decorative Shape (227)	5 ¹³ / ₁₆	6000	1400	82
ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 90 WATT LAMPS											
25	SLS	Med. Screw	\$ 37114-6	UNIVERSAL SLS 25	6	Ultra-Compact (216)	6 ³ / ₁₆	10,000	1750	82	
			\$ 37115-3	UNIVERSAL BC-SLS 25	6	Ultra-Compact/Blister (216)	6 ³ / ₁₆	10,000	1750	82	
	EL/T	† §	37067-6	TABLE LAMP EL/T 25		6	Low Cost (227)	6 ³ / ₁₆	7000	1750	82
			37069-2	TABLE LAMP BC-EL/T 25		6	Low Cost/Blister (227)	6 ³ / ₁₆	7000	1750	82
ENERGY-SAVING SUBSTITUTE FOR INCANDESCENT 100 WATT LAMPS											

- ☐ — Exclusive Philips Product
- \$ — Energy Saving Product
- § — Available Q4 2001

- † — New Since Last Printing
 - — High Color Rendering Lamps
- Footnotes located on page 78



Marathon Lamps, continued

Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (230)	Approx. Initial Lumens (231)	CRI
34	SLS	Med. 3-Way	† \$ 37216-9	THREE-WAY SLS 34	6	60/90/150W Equivalents (227)	6 ⁵ / ₁₆	7000	1100/1600/2100	82
			† \$ 37219-3	THREE-WAY BC-SLS 34	6	60/90/150W Equivalents (227)	6 ⁵ / ₁₆	7000	1100/1600/2100	82
	EL/T	Med. Screw	† \$ 37082-5	TABLE LAMP EL/T 34	6	Low Cost (227)	6 ³ / ₁₆	7000	2100	82
			† \$ 37084-1	TABLE LAMP BC-EL/T 34	6	Low Cost (227)	6 ³ / ₁₆	7000	2100	82

Circline Adapter System

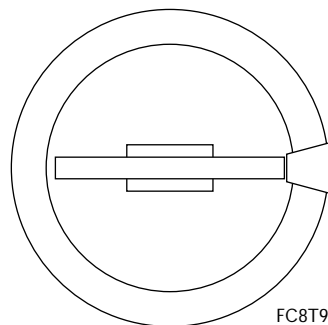
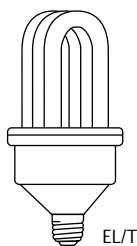
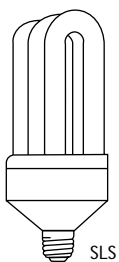
Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (230)	Approx. Initial Lumens (231)	CRI
24	FC8T9	Med. (E26)	† \$ 29384-5	FC8T9/SYS	10	Magnetic adapter with replaceable lamp (220)	8 ¹ / ₄ OD	10,000	1100	53

Marathon Lamp Anti-Theft Devices A locking device which can be installed in conjunction with the common table lamp socket to prevent theft. Includes special driver and assembly instructions.

Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description
			23671-1	LOCKING DEVICE SLS	100	Bulk, one driver per case
			23672-9	LOCKING DEVICE SLS/RH	100	Bulk, one driver per case

- ☐ — Exclusive Philips Product
- \$ — Energy Saving Product
- † — New Since Last Printing

- — High Color Rendering Lamps
- Footnotes located on page 78



PL-S Short Fluorescent Lamps

High color rendering, high efficacy, long life lamps with integral starter.
For operation with preheat electromagnetic ballast. (204)

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial (203) Lumens	Design Lumens (208)	CRI
5	PL-S	G23	\$ 33233-8	PL-S 5W/827	CFT5W/G23/827	60	2700K (219)	4 $\frac{1}{4}$	10,000	250	210	82
			\$ 34256-8	PL-S 7W/827	CFT7W/G23/827	60	2700K	5 $\frac{1}{4}$	10,000	400	340	82
7	PL-S	G23	\$ 30663-9	PL-S 7W/827	CFT7W/G23/827	50	2700K, Bulk	5 $\frac{1}{4}$	10,000	400	340	82
			\$ 32780-9	PL-S 7W/835	CFT7W/G23/835	60	3500K	5 $\frac{1}{4}$	10,000	400	340	82
			\$ 33869-9	PL-S 7W/841	CFT7W/G23/841	60	4100K	5 $\frac{1}{4}$	10,000	400	340	82
			\$ 36809-2	PL-S 7W/841	CFT7W/G23/841	50	4100K, Bulk	5 $\frac{1}{4}$	10,000	400	340	82
			\$ 33384-9	PL-S 7W/850	CFT7W/G23/850	60	5000K	5 $\frac{1}{4}$	10,000	380	320	82
			\$ 34257-6	PL-S 9W/827	CFT9W/G23/827	60	2700K	6 $\frac{1}{2}$	10,000	600	510	82
9	PL-S	G23	\$ 30665-4	PL-S 9W/827	CFT9W/G23/827	50	2700K, Bulk	6 $\frac{1}{2}$	10,000	600	510	82
			\$ 32786-6	PL-S 9W/835	CFT9W/G23/835	60	3500K	6 $\frac{1}{2}$	10,000	600	510	82
			\$ 33870-7	PL-S 9W/841	CFT9W/G23/841	60	4100K	6 $\frac{1}{2}$	10,000	600	510	82
			\$ 36810-0	PL-S 9W/841	CFT9W/G23/841	50	4100K, Bulk	6 $\frac{1}{2}$	10,000	600	510	82
			\$ 33385-6	PL-S 9W/850	CFT9W/G23/850	60	5000K	6 $\frac{1}{2}$	10,000	570	485	82
			\$ 26219-6	PL-S 13W/827	CFT13W/GX23/827	60	2700K	7	10,000	825	700	82
13	PL-S	GX23	\$ 26212-1	PL-S 13W/827	CFT13W/GX23/827	50	2700K, Bulk	7	10,000	825	700	82
			\$ 26202-2	PL-S 13W/830	CFT13W/GX23/830	60	3000K	7	10,000	825	700	82
			\$ 26214-7	PL-S 13W/835	CFT13W/GX23/835	60	3500K	7	10,000	825	700	82
			\$ 26213-9	PL-S 13W/841	CFT13W/GX23/841	60	4100K	7	10,000	825	700	82
			\$ 26229-5	PL-S 13W/841	CFT13W/GX23/841	50	4100K, Bulk	7	10,000	825	700	82
			\$ 26216-2	PL-S 13W/850	CFT13W/GX23/850	60	5000K	7	10,000	800	680	82

PL-C Cluster 2-Pin Fluorescent Lamps

High color rendering, high efficacy, long life lamps with integral starter.
For operation with preheat electromagnetic ballast. Featuring ALTO® Lamp Technology. (204)

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial (203) Lumens	Design Lumens (208)	CRI
13	PL-C	GX23-2	† \$ 38310-9	PL-C 13W/827/USA/ALTO	CFQ13W/GX23/827	10	2700K	4 $\frac{5}{8}$	10,000	860	735	82
			† \$ 38311-7	PL-C 13W/830/USA/ALTO	CFQ13W/GX23/830	10	3000K	4 $\frac{5}{8}$	10,000	860	735	82
			† \$ 38312-5	PL-C 13W/835/USA/ALTO	CFQ13W/GX23/835	10	3500K	4 $\frac{5}{8}$	10,000	860	735	82
			† \$ 38313-3	PL-C 13W/841/USA/ALTO	CFQ13W/GX23/841	10	4100K	4 $\frac{5}{8}$	10,000	860	735	82
	PL-C	G24d-1	† \$ 38314-1	PL-C 13W/827/ALTO	CFQ13W/G24d/827	10	2700K (221)	5 $\frac{1}{2}$	10,000	900	770	82
			† \$ 38315-8	PL-C 13W/830/ALTO	CFQ13W/G24d/830	10	3000K (221)	5 $\frac{1}{2}$	10,000	900	770	82
18	PL-C	G24d-2	† \$ 38316-6	PL-C 18W/827/ALTO	CFQ18W/G24d/827	10	2700K	6	10,000	1250	1070	82
			† \$ 38317-4	PL-C 18W/830/ALTO	CFQ18W/G24d/830	10	3000K	6	10,000	1250	1070	82
			† \$ 38318-2	PL-C 18W/835/ALTO	CFQ18W/G24d/835	10	3500K	6	10,000	1250	1070	82
			† \$ 38319-0	PL-C 18W/841/ALTO	CFQ18W/G24d/841	10	4100K	6	10,000	1250	1070	82
26	PL-C	G24d-3	† \$ 38321-6	PL-C 26W/827/ALTO	CFQ26W/G24d/827	10	2700K	6 $\frac{13}{16}$	10,000	1800	1545	82
			† \$ 38322-4	PL-C 26W/830/ALTO	CFQ26W/G24d/830	10	3000K	6 $\frac{13}{16}$	10,000	1800	1545	82
			† \$ 38323-2	PL-C 26W/835/ALTO	CFQ26W/G24d/835	10	3500K	6 $\frac{13}{16}$	10,000	1800	1545	82
			† \$ 38324-0	PL-C 26W/841/ALTO	CFQ26W/G24d/841	10	4100K	6 $\frac{13}{16}$	10,000	1800	1545	82

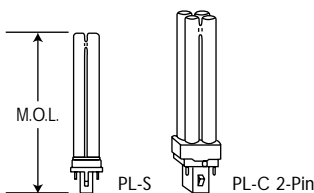
\$ — Energy Saving Product

† — New Since Last Printing

Footnotes located on page 78

■ — Features ALTO Lamp Technology

■ — High Color Rendering Lamps



PL-C Cluster 2-Pin Fluorescent Lamps 15mm Tube Diameter

High color rendering, high efficacy, long life lamps with integral starter. For operation with preheat electromagnetic ballast. Low temperature starting for outdoor applications. (204, 222)

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203)	Design Lumens (208)	CRI
20	PL-C	GX32d-2	\$ 20478-4	PL-C 15mm/22W/827	CFQ20W/GX32d/827	40	2700K	6	10,000	1200	995	82
27	PL-C	GX32d-3	\$ 20479-2	PL-C 15mm/28W/827	CFQ27W/GX32d/827	40	2700K	6 ^{13/16}	10,000	1600	1325	82

PL-C Cluster 4-Pin Fluorescent Lamps Electronic Operation

High color rendering, high efficacy, long life lamps featuring 4-pin base with no integral starter. For operation with rapid start electronic and dimming ballasts. Featuring ALTO® Lamp Technology. (204)

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203)	Design Lumens (208)	CRI
13	PL-C	G24q-1	† \$ 38325-7	PL-C 13W/827/4P/ALTO	CFQ13W/G24q/827	10	2700K	5 ^{5/16}	10,000	900	775	82
			† \$ 38326-5	PL-C 13W/830/4P/ALTO	CFQ13W/G24q/830	10	3000K	5 ^{5/16}	10,000	900	775	82
			† \$ 38327-3	PL-C 13W/835/4P/ALTO	CFQ13W/G24q/835	10	3500K	5 ^{5/16}	10,000	900	775	82
			† \$ 38328-1	PL-C 13W/841/4P/ALTO	CFQ13W/G24q/841	10	4100K	5 ^{5/16}	10,000	900	775	82
18	PL-C	G24q-2	† \$ 38329-9	PL-C 18W/827/4P/ALTO	CFQ18W/G24q/827	10	2700K	5 ^{11/16}	10,000	1250	1075	82
			† \$ 38330-7	PL-C 18W/830/4P/ALTO	CFQ18W/G24q/830	10	3000K	5 ^{11/16}	10,000	1250	1075	82
			† \$ 38332-3	PL-C 18W/835/4P/ALTO	CFQ18W/G24q/835	10	3500K	5 ^{11/16}	10,000	1250	1075	82
			† \$ 38333-1	PL-C 18W/841/4P/ALTO	CFQ18W/G24q/841	10	4100K	5 ^{11/16}	10,000	1250	1075	82
26	PL-C	G24q-3	† \$ 38334-9	PL-C 26W/827/4P/ALTO	CFQ26W/G24q/827	10	2700K	6 ^{1/2}	10,000	1800	1550	82
			† \$ 38335-6	PL-C 26W/830/4P/ALTO	CFQ26W/G24q/830	10	3000K	6 ^{1/2}	10,000	1800	1550	82
			† \$ 38336-4	PL-C 26W/835/4P/ALTO	CFQ26W/G24q/835	10	3500K	6 ^{1/2}	10,000	1800	1550	82
			† \$ 38337-2	PL-C 26W/841/4P/ALTO	CFQ26W/G24q/841	10	4100K	6 ^{1/2}	10,000	1800	1550	82

PL-L Long Fluorescent Lamps

High color rendering, high efficacy lamps feature 4-pin base for use with preheat, rapid start, electronic and dimming circuits.

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. •	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203)	Design Lumens (208)	CRI
18	PL-L	2G11	\$ 34500-9	PL-L 18W/830	FT18W/2G11/830	25	3000K	8 ^{15/16}	12,000	1250	1125	82
			† \$ 35932-3	PL-L 18W/835	FT18W/2G11/835	25	3500K	8 ^{15/16}	12,000	1250	1125	82
			\$ 34501-7	PL-L 18W/841	FT18W/2G11/841	25	4100K	8 ^{15/16}	12,000	1250	1125	82
24	PL-L	2G11	\$ 34505-8	PL-L 24W/830	FT24W/2G11/830	25	3000K	12 ^{11/16}	12,000	1800	1620	82
			† \$ 35933-1	PL-L 24W/835	FT24W/2G11/835	25	3500K	12 ^{11/16}	12,000	1800	1620	82
			\$ 34508-2	PL-L 24W/841	FT24W/2G11/841	25	4100K	12 ^{11/16}	12,000	1800	1620	82
36	PL-L	2G11	\$ 34511-6	PL-L 36W/830	FT36W/2G11/830	25	3000K	16 ^{7/16}	12,000	2900	2610	82
			\$ 34942-3	PL-L 36W/835	FT36W/2G11/835	25	3500K	16 ^{7/16}	12,000	2900	2610	82
			\$ 34513-2	PL-L 36W/841	FT36W/2G11/841	25	4100K	16 ^{7/16}	12,000	2900	2610	82

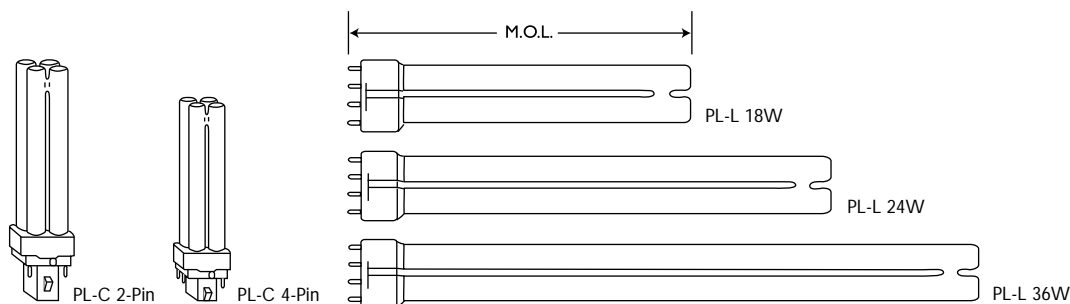
\$ — Energy Saving Product

† — New Since Last Printing

Footnotes located on page 78

 — Features ALTO Lamp Technology

 — High Color Rendering Lamps



PL-L Long Fluorescent Lamps, continued

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. *	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial (203) Lumens	Design Lumens (208)	CRI
38	PL-L	2G11	\$ 30042-6	PL-L 40W/830/RS/IS	FT40W/2G11/RS/830	25	3000K	22 1/2	20,000	3300	2970	82
			\$ 30043-4	PL-L 40W/835/RS/IS	FT40W/2G11/RS/835	25	3500K	22 1/2	20,000	3300	2970	82
			\$ 30044-2	PL-L 40W/841/RS/IS	FT40W/2G11/RS/841	25	4100K	22 1/2	20,000	3300	2970	82
50	PL-L	2G11	\$ 34747-6	PL-L 50W/830/RS	FT50W/2G11/RS/830	25	3000K	22 1/2	14,000	4300	3870	82
			\$ 34753-4	PL-L 50W/835/RS	FT50W/2G11/RS/835	25	3500K	22 1/2	14,000	4300	3870	82
			† \$ 34770-8	PL-L 50W/841/RS	FT50W/2G11/RS/841	25	4100K	22 1/2	14,000	4300	3870	82
80	PL-L	2G11	† § □ \$ 38697-9	PL-L 80W/830	FT80W/2G11/830	25	3000K	22 1/2	10,000	6000	5400	82
			† § □ \$ 38698-7	PL-L 80W/835	FT80W/2G11/835	25	3500K	22 1/2	10,000	6000	5400	82
			† § □ \$ 38699-5	PL-L 80W/841	FT80W/2G11/841	25	4100K	22 1/2	10,000	6000	5400	82

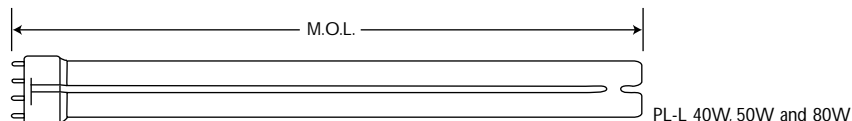
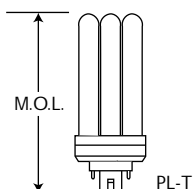
PL-T Triple 4-Pin Fluorescent Lamps*

High color rendering, high efficacy lamps feature 4-pin base for use with preheat, rapid start, electronic and dimming circuits. Featuring ALTO® Lamp Technology.

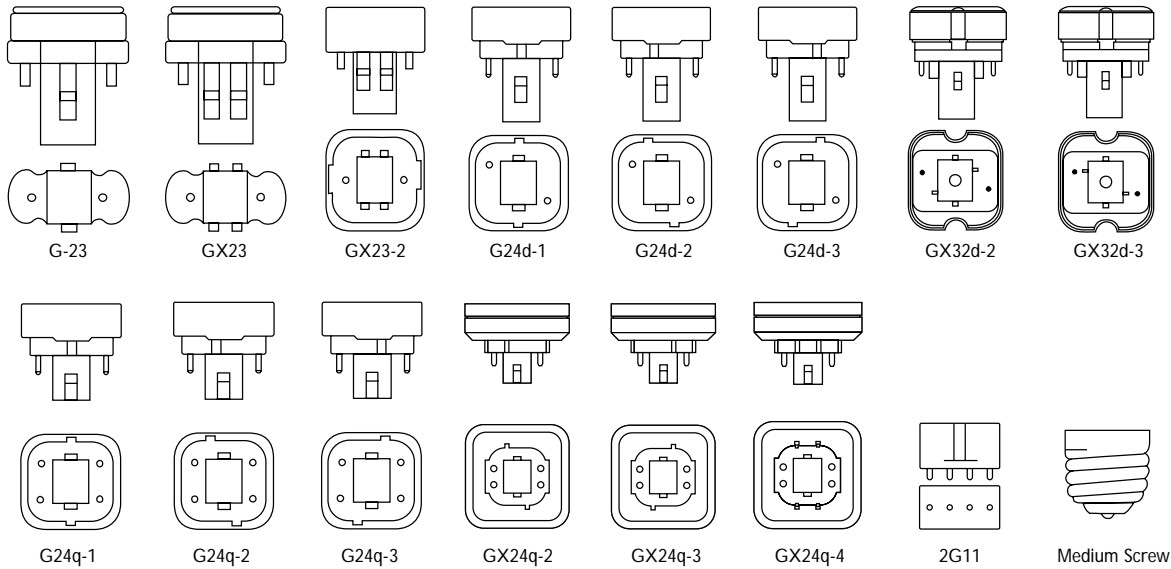
Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Generic Designation	Pkg. Qty. *	Description	M.O.L. (In.)	Avg. Life, Hrs. (202)	Approx. Initial (203) Lumens	Design Lumens (208)	CRI
18	PL-T	GX24q-2 † §	\$ 38437-0	PL-T 18W/827/4P/ALTO	CFTR18W/GX24q/827	12	2700K	4 5/8	10,000	1200	1020	82
			\$ 26802-9	PL-T 18W/830/4P/ALTO	CFTR18W/GX24q/830	12	3000K	4 5/8	10,000	1200	1020	82
			\$ 26820-1	PL-T 18W/835/4P/ALTO	CFTR18W/GX24q/835	12	3500K	4 5/8	10,000	1200	1020	82
			\$ 26822-7	PL-T 18W/841/4P/ALTO	CFTR18W/GX24q/841	12	4100K	4 5/8	10,000	1200	1020	82
26	PL-T	GX24q-3 † §	\$ 38440-4	PL-T 26W/827/4P/ALTO	CFTR26W/GX24q/827	12	2700K	5	10,000	1800	1530	82
			\$ 26823-5	PL-T 26W/830/4P/ALTO	CFTR26W/GX24q/830	12	3000K	5	10,000	1800	1530	82
			\$ 26824-3	PL-T 26W/835/4P/ALTO	CFTR26W/GX24q/835	12	3500K	5	10,000	1800	1530	82
			\$ 26825-0	PL-T 26W/841/4P/ALTO	CFTR26W/GX24q/841	12	4100K	5	10,000	1800	1530	82
32	PL-T	GX24q-3 † §	\$ 38443-8	PL-T 32W/827/4P/ALTO	CFTR32W/GX24q/827	12	2700K	5 5/8	10,000	2400	2040	82
			\$ 26832-6	PL-T 32W/830/4P/ALTO	CFTR32W/GX24q/830	12	3000K	5 5/8	10,000	2400	2040	82
			\$ 26833-4	PL-T 32W/835/4P/ALTO	CFTR32W/GX24q/835	12	3500K	5 5/8	10,000	2400	2040	82
			\$ 26872-2	PL-T 32W/841/4P/ALTO	CFTR32W/GX24q/841	12	4100K	5 5/8	10,000	2400	2040	82
42	PL-T	GX24q-4 † §	\$ 38450-3	PL-T 42W/827/4P/ALTO	CFTR42W/GX24q/827	12	2700K	6 3/8	10,000	3200	2720	82
			\$ 26873-0	PL-T 42W/830/4P/ALTO	CFTR42W/GX24q/830	12	3000K	6 3/8	10,000	3200	2720	82
			\$ 26875-5	PL-T 42W/835/4P/ALTO	CFTR42W/GX24q/835	12	3500K	6 3/8	10,000	3200	2720	82
			\$ 26876-3	PL-T 42W/841/4P/ALTO	CFTR42W/GX24q/841	12	4100K	6 3/8	10,000	3200	2720	82

- — Exclusive Philips Product
- * — Contains Amalgam
- \$ — Energy Saving Product
- § — Available Q4 2001

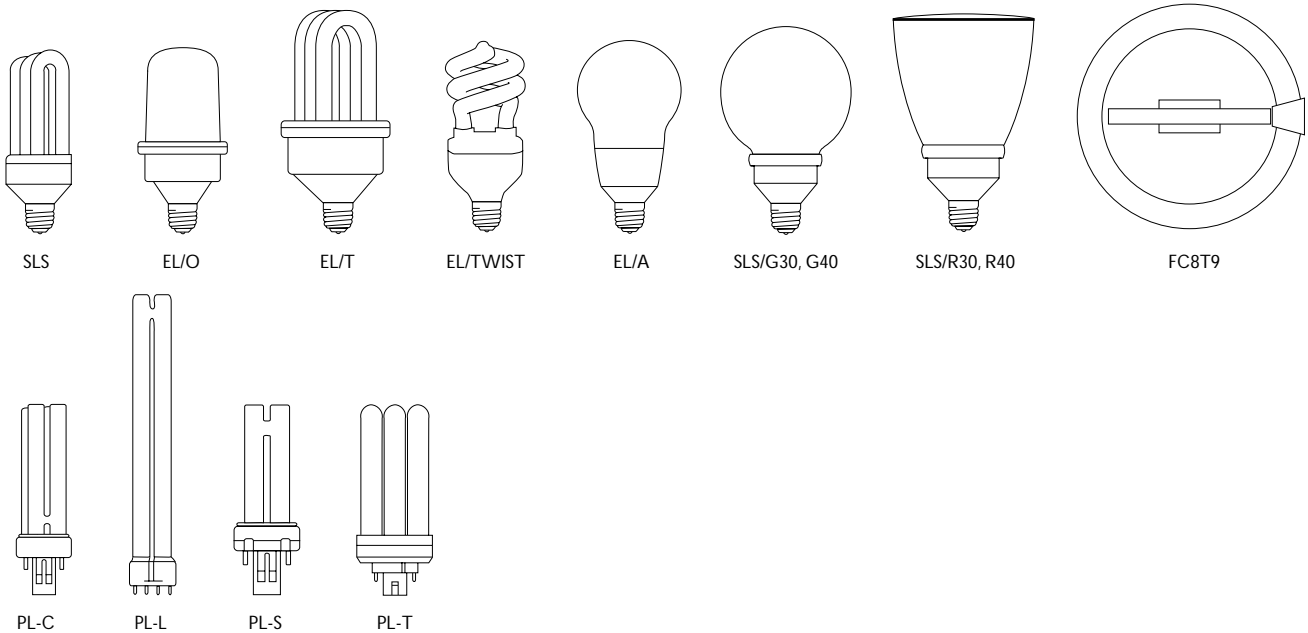
- † — New Since Last Printing
 - — Features ALTO Lamp Technology
 - — High Color Rendering Lamps
- Footnotes located on page 78



Compact Fluorescent Base Types



Compact Fluorescent Bulb Shapes



Compact Fluorescent Lamps Ordering Code Cross Reference Guide

Philips	Generic Description	General Electric	Osram/Sylvania	
PL-S	PL-S 5W/827	CFT5W/G23/827	F5BX/SPX27	CF5DS/827
	PL-S 7W/827	CFT7W/G23/827	F7BX/SPX27	CF7DS/827
	PL-S 7W/835	CFT7W/G23/835	F7BX/SPX35	CF7DS/835
	PL-S 7W/841	CFT7W/G23/841	F7BX/SPX41	CF7DS/841
	PL-S 7W/850	CFT7W/G23/850	F7BX/SPX50	CF7DS/850
	PL-S 9W/827	CFT9W/G23/827	F9BX/SPX27	CF9DS/827
	PL-S 9W/835	CFT9W/G23/835	F9BX/SPX35	CF9DS/835
	PL-S 9W/841	CFT9W/G23/841	F9BX/SPX41	CF9DS/841
	PL-S 9W/850	CFT9W/G23/850	F9BX/SPX50	CF9DS/850
	PL-S 13W/827	CFT13W/GX23/827	F13BX/SPX27	CF13DS/827
	PL-S 13W/830	CFT13W/GX23/830	F13BX/SPX30	CF13DS/830
	PL-S 13W/835	CFT13W/GX23/835	F13BX/SPX35	CF13DS/835
	PL-S 13W/841	CFT13W/GX23/841	F13BX/SPX41	CF13DS/841
	PL-S 13W/850	CFT13W/GX23/850	F13BX/SPX50	CF13DS/850

Compact Fluorescent Lamps Ordering Code Cross Reference Guide, continued

Philips		Generic Description	General Electric	Osram/Sylvania
PL-C 2-PIN	PL-C 13W/827/USA/ALTO PL-C 13W/830/USA/ALTO PL-C 13W/835/USA/ALTO PL-C 13W/841/USA/ALTO PL-C 13W/827/ALTO PL-C 13W/830/ALTO PL-C 18W/827/ALTO PL-C 18W/830/ALTO PL-C 18W/835/ALTO PL-C 18W/841/ALTO PL-C 26W/827/ALTO PL-C 26W/830/ALTO PL-C 26W/835/ALTO PL-C 26W/841/ALTO	CFQ13W/GX23/827 CFQ13W/GX23/830 CFQ13W/GX23/835 CFQ13W/GX23/841 CFQ13W/G24d/827 CFQ13W/G24d/830 CFQ18W/G24d/827 CFQ18W/G24d/830 CFQ18W/G24d/835 CFQ18W/G24d/841 CFQ26W/G24d/827 CFQ26W/G24d/830 CFQ26W/G24d/835 CFQ26W/G24d/841	F13DBX23T4/SPX27 F13DBX23T4/SPX30 F13DBX23T4/SPX35 F13DBX23T4/SPX41 F13DBXT4/SPX27 F13DBXT4/SPX30 F18DBXT4/SPX27 F18DBXT4/SPX30 F18DBXT4/SPX35 F18DBXT4/SPX41 F26DBXT4/SPX27 F26DBXT4/SPX30 F26DBXT4/SPX35 F26DBXT4/SPX41	CF13DD/827 CF13DD/830 CF13DD/835 CF13DD/841 — — CF18DD/827 CF18DD/830 CF18DD/835 CF18DD/841 CF26DD/827 CF26DD/830 CF26DD/835 CF26DD/841
PL-C 2-PIN 15MM	PL-C 15MM/22W/827 PL-C 15MM/28W/827	CFQ20W/GX32d/827 CFQ27W/GX32d/827	— —	— —
PL-C 4-PIN	PL-C 13W/827/4P/ALTO PL-C 13W/830/4P/ALTO PL-C 13W/835/4P/ALTO PL-C 13W/841/4P/ALTO PL-C 18W/827/4P/ALTO PL-C 18W/830/4P/ALTO PL-C 18W/835/4P/ALTO PL-C 18W/841/4P/ALTO PL-C 26W/827/4P/ALTO PL-C 26W/830/4P/ALTO PL-C 26W/835/4P/ALTO PL-C 26W/841/4P/ALTO	CFQ13W/G24q/827 CFQ13W/G24q/830 CFQ13W/G24q/835 CFQ13W/G24q/841 CFQ18W/G24q/827 CFQ18W/G24q/830 CFQ18W/G24q/835 CFQ18W/G24q/841 CFQ26W/G24q/827 CFQ26W/G24q/830 CFQ26W/G24q/835 CFQ26W/G24q/841	F13DBX/SPX27/4P F13DBX/SPX30/4P F13DBX/SPX35/4P F13DBX/SPX41/4P F18DBX/SPX27/4P F18DBX/SPX30/4P F18DBX/SPX35/4P F18DBX/SPX41/4P F26DBX/SPX27/4P F26DBX/SPX30/4P F26DBX/SPX35/4P F26DBX/SPX41/4P	CF13DD/E/827 CF13DD/E/830 CF13DD/E/835 CF13DD/E/841 CF18DD/E/827 CF18DD/E/830 CF18DD/E/835 CF18DD/E/841 CF26DD/E/827 CF26DD/E/830 CF26DD/E/835 CF26DD/E/841
PL-L	PL-L 18W/830 PL-L 18W/835 PL-L 18W/841 PL-L 18W/830 PL-L 18W/835 PL-L 18W/841 PL-L 24W/830 PL-L 24W/835 PL-L 24W/841 PL-L 36W/830 PL-L 36W/835 PL-L 36W/841 PL-L 40W/830/RS/IS PL-L 40W/835/RS/IS PL-L 40W/841/RS/IS PL-L 50W/830/RS PL-L 50W/835/RS PL-L 50W/841/RS PL-L 80W/830 PL-L 80W/835 PL-L 80W/841	FT18W/2G11/830 FT18W/2G11/835 FT18W/2G11/841 FT18W/2G11/RS/830 FT18W/2G11/RS/835 FT18W/2G11/RS/841 FT24W/2G11/830 FT24W/2G11/835 FT24W/2G11/841 FT36W/2G11/830 FT36W/2G11/835 FT36W/2G11/841 FT40W/2G11/RS/830 FT40W/2G11/RS/835 FT40W/2G11/RS/841 FT50W/2G11/RS/830 FT50W/2G11/RS/835 FT50W/2G11/RS/841 FT80W/2G11/830 FT80W/2G11/835 FT80W/2G11/841	F18BX/SPX30 F18BX/SPX35 F18BX/SPX41 F18BX/SPX30/RS F18BX/SPX35/RS F18BX/SPX41/RS F27/24BX/SPX30 F27/24BX/SPX35 F27/24BX/SPX41 F39/36BX/SPX30 F39/36BX/SPX35 F39/36BX/SPX41 F40/30BX/SPX30 F40/30BX/SPX35 F40/30BX/SPX41 F50BX/SPX30/RS F50BX/SPX35/RS F50BX/SPX41/RS — — —	FT18DL/830 FT18DL/835 FT18DL/841 FT18DL/830/RS FT18DL/835/RS FT18DL/841/RS FT24DL/830 FT24DL/835 FT24DL/841 FT36DL/830 FT36DL/835 FT36DL/841 FT40DL/830/RS FT40DL/835/RS FT40DL/841/RS — — — — —
PL-T 4-PIN	PL-T 18W/827/4P/ALTO PL-T 18W/830/4P/ALTO PL-T 18W/835/4P/ALTO PL-T 18W/841/4P/ALTO PL-T 26W/827/4P/ALTO PL-T 26W/830/4P/ALTO PL-T 26W/835/4P/ALTO PL-T 26W/841/4P/ALTO PL-T 32W/827/4P/ALTO PL-T 32W/830/4P/ALTO PL-T 32W/835/4P/ALTO PL-T 32W/841/4P/ALTO PL-T 42W/827/4P/ALTO PL-T 42W/830/4P/ALTO PL-T 42W/835/4P/ALTO PL-T 42W/841/4P/ALTO PL-T 42W/827/4P/ALTO PL-T 42W/830/4P/ALTO PL-T 42W/835/4P/ALTO PL-T 42W/841/4P/ALTO	CFTR18W/GX24q/827 CFTR18W/GX24q/830 CFTR18W/GX24q/835 CFTR18W/GX24q/841 CFTR26W/GX24q/827 CFTR26W/GX24q/830 CFTR26W/GX24q/835 CFTR26W/GX24q/841 CFTR32W/GX24q/827 CFTR32W/GX24q/830 CFTR32W/GX24q/835 CFTR32W/GX24q/841 CFTR42W/GX24q/827 CFTR42W/GX24q/830 CFTR42W/GX24q/835 CFTR42W/GX24q/841 CFTR42W/GX24q/827 CFTR42W/GX24q/830 CFTR42W/GX24q/835 CFTR42W/GX24q/841	F18TBX/SPX27/A/4P F18TBX/SPX30/A/4P F18TBX/SPX35/A/4P F18TBX/SPX41/A/4P F26TBX/SPX27/A/4P F26TBX/SPX30/A/4P F26TBX/SPX35/A/4P F26TBX/SPX41/A/4P F32TBX/SPX27/A/4P F32TBX/SPX30/A/4P F32TBX/SPX35/A/4P F32TBX/SPX41/A/4P F42TBX/SPX27/A/4P F42TBX/SPX30/A/4P F42TBX/SPX35/A/4P F42TBX/SPX41/A/4P F42QBX/SPX27/A/4P F42QBX/SPX30/A/4P F42QBX/SPX35/A/4P F42QBX/SPX41/A/4P	CF18DT/E/IN/827 CF18DT/E/IN/830 CF18DT/E/IN/835 CF18DT/E/IN/841 CF26DT/E/IN/827 CF26DT/E/IN/830 CF26DT/E/IN/835 CF26DT/E/IN/841 CF32DT/E/IN/827 CF32DT/E/IN/830 CF32DT/E/IN/835 CF32DT/E/IN/841 CF42DT/E/IN/827 CF42DT/E/IN/830 CF42DT/E/IN/835 CF42DT/E/IN/841 CF42DT/E/IN/827 CF42DT/E/IN/830 CF42DT/E/IN/835 CF42DT/E/IN/841

T5 Lamps

SILHOUETTE™ Programmed Start T5 Miniature Bipin Fluorescent Lamps (See dimension chart on page 63)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
14	\$ 23077-1	F14T5/830	40	TL 830, 3000K	22	20,000	1350	1275	85
	\$ 23079-7	F14T5/835	40	TL 835, 3500K	22	20,000	1350	1275	85
	\$ 23080-5	F14T5/841	40	TL 841, 4100K	22	20,000	1350	1275	85
21	\$ 23081-3	F21T5/830	40	TL 830, 3000K	34	20,000	2100	2000	85
	\$ 23082-1	F21T5/835	40	TL 835, 3500K	34	20,000	2100	2000	85
	\$ 23083-9	F21T5/841	40	TL 841, 4100K	34	20,000	2100	2000	85
28	ⓔ \$ 23084-7	F28T5/830	40	TL 830, 3000K	46	20,000	2900	2750	85
	ⓔ \$ 23085-4	F28T5/835	40	TL 835, 3500K	46	20,000	2900	2750	85
	ⓔ \$ 23086-2	F28T5/841	40	TL 841, 4100K	46	20,000	2900	2750	85
35	\$ 23088-8	F35T5/830	40	TL 830, 3000K	58	20,000	3650	3450	85
	\$ 23091-2	F35T5/835	40	TL 835, 3500K	58	20,000	3650	3450	85
	\$ 23095-3	F35T5/841	40	TL 841, 4100K	58	20,000	3650	3450	85

SILHOUETTE High Output Programmed Start T5 Miniature Bipin Fluorescent Lamps (See dimension chart on page 63)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
24	\$ 29019-7	F24T5/830/HO	40	TL 830, 3000K	22	20,000	2000	1895	85
	\$ 29020-5	F24T5/835/HO	40	TL 835, 3500K	22	20,000	2000	1895	85
	\$ 29021-3	F24T5/841/HO	40	TL 841, 4100K	22	20,000	2000	1895	85
39	\$ 29022-1	F39T5/830/HO	40	TL 830, 3000K	34	20,000	3500	3320	85
	\$ 29023-9	F39T5/835/HO	40	TL 835, 3500K	34	20,000	3500	3320	85
	\$ 29025-4	F39T5/841/HO	40	TL 841, 4100K	34	20,000	3500	3320	85
54	ⓔ \$ 29026-2	F54T5/830/HO	40	TL 830, 3000K	46	20,000	5000	4740	85
	ⓔ \$ 29028-8	F54T5/835/HO	40	TL 835, 3500K	46	20,000	5000	4740	85
	ⓔ \$ 29083-3	F54T5/841/HO	40	TL 841, 4100K	46	20,000	5000	4740	85
80	† \$ 29084-1	F80T5/830/HO	40	TL 830, 3000K	58	20,000	7000	6650	85
	† \$ 29088-2	F80T5/841/HO	40	TL 841, 4100K	58	20,000	7000	6650	85

SILHOUETTE Circular Programmed Start T5 Fluorescent Lamps (2GX13 base)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
22	\$ 29010-6	FC9T5/830	10	TL 830, 3000K	9 O.D.	16,000	1800	1530	85
	\$ 29011-4	FC9T5/835	10	TL 835, 3500K	9 O.D.	16,000	1800	1530	85
	\$ 29012-2	FC9T5/841	10	TL 841, 4100K	9 O.D.	16,000	1800	1530	85
40	\$ 29014-8	FC12T5/830	10	TL 830, 3000K	12 O.D.	16,000	3300	2805	85
	\$ 29016-3	FC12T5/835	10	TL 835, 3500K	12 O.D.	16,000	3300	2805	85
	\$ 29017-1	FC12T5/841	10	TL 841, 4100K	12 O.D.	16,000	3300	2805	85

SILHOUETTE Circular High Output Programmed Start T5 Fluorescent Lamps (2GX13 base)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
55	† \$ 38479-2	FC12T5/830/HO	10	TL 830, 3000K	12 O.D.	16,000	3300	2805	85
	† \$ 38480-0	FC12T5/841/HO	10	TL 841, 4100K	12 O.D.	16,000	3300	2805	85

\$ — Energy Saving Product

ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

† — New Since Last Printing

■ — Highest Color Rendering Lamps (CRI≥80)

Footnotes located on page 78

Preheat Fluorescent Lamps T5 Miniature Bipin (Requires Use of Starters)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
4	33236-1	F4T5/CW	25	Cool White, 4100K	6	6000	135	95	62
	24963-1	BC-F4T5/HL CW	12	Home Light Cool, 4100K	6	6000	135	95	62
6	33241-1	F6T5/CW	25	Cool White, 4100K	9	7500	295	230	62
	24965-6	BC-F6T5/HL CW	12	Home Light Cool, 4100K	9	7500	295	230	62
	33242-9	F6T5/D	25	Daylight, 6500K	9	7500	230	180	79
8	□ 20702-7	F8T5/30U	25	Ultralume, 3000K	12	7500	450	360	85
	33252-8	F8T5/WW	25	Warm White, 3000K	12	7500	400	300	53
	33247-8	F8T5/CW	25	Cool White, 4100K	12	7500	400	300	62
	24967-2	BC-F8T5/HL CW	12	Home Light Cool, 4100K	12	7500	400	300	62
	33249-4	F8T5/D	25	Daylight, 6500K	12	7500	330	265	79
13	□ 20703-5	F13T5/30U	25	Ultralume, 3000K	21	7500	1000	800	85
	33253-6	F13T5/CW	25	Cool White, 4100K	21	7500	820	655	62
	24969-8	BC-F13T5/HL CW	12	Home Light Cool, 4100K	21	7500	820	655	62

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70-79)

□ — Exclusive Philips Product

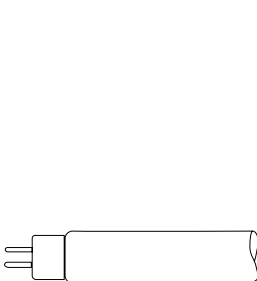
Footnotes located on page 78

T5 Lumens at 35° C and 25° C

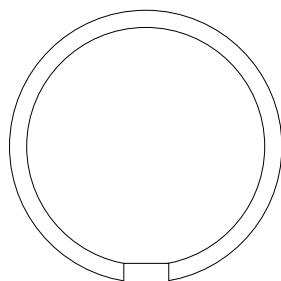
LAMP TYPE	INITIAL LUMENS AT 35° C	INITIAL LUMENS AT 25° C
F14T5	1350	1200
F21T5	2100	1900
F28T5	2900	2600
F35T5	3650	3300
F24T5/HO	2000	1750
F39T5/HO	3500	3100
F54T5/HO	5000	4450
F80T5/HO	7000	6150

SILHOUETTE™ and SILHOUETTE High Output Dimensions (226)

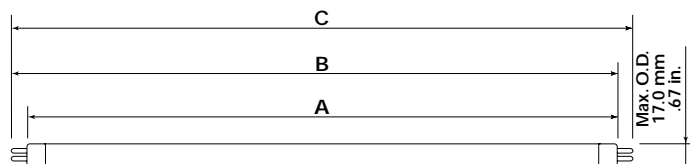
TYPE	A MAX.		B MIN.		B MAX.		C MAX.	
	inches	mm	inches	mm	inches	mm	inches	mm
T5 14W/24W	21.61	549.0	21.80	553.7	21.89	556.1	22.17	563.2
T5 21W/39W	33.42	849.0	33.61	853.7	33.70	856.1	33.98	863.2
T5 28W/54W	45.24	1149.0	45.42	1153.7	45.52	1156.1	45.80	1163.2
T5 35W/80W	57.05	1449.0	57.23	1453.7	57.33	1456.1	57.61	1463.2



T5 Miniature Bipin



T5 Circular 2GX13 base



T8 Lamps

Rapid Start Fluorescent Lamps T8 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life Hrs. Rapid Start (202, 224)	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI	
17	<input type="checkbox"/> \$	22083-0	F17T8/TL930	25	TL 90, 3000K	24	20,000	910	850	95
	<input type="checkbox"/> \$	22154-9	F17T8/TL950	25	TL 90, 5000K	24	20,000	910	850	98
	\$	31980-6	F17T8/TL830	25	TL 80, 3000K	24	20,000	1400	1300	85
	\$	32304-8	F17T8/TL835	25	TL 80, 3500K	24	20,000	1400	1300	85
	\$	31983-0	F17T8/TL841	25	TL 80, 4100K	24	20,000	1400	1300	85
	\$	32061-4	F17T8/TL730	25	TL 70, 3000K	24	20,000	1325	1200	75
	\$	32297-4	F17T8/TL735	25	TL 70, 3500K	24	20,000	1325	1200	75
	\$	32062-2	F17T8/TL741	25	TL 70, 4100K	24	20,000	1325	1200	75
25	<input type="checkbox"/> \$	22158-0	F25T8/TL930	25	TL 90, 3000K	36	20,000	1550	1450	95
	<input type="checkbox"/> \$	22159-8	F25T8/TL950	25	TL 90, 5000K	36	20,000	1550	1450	98
	\$	31984-8	F25T8/TL830	25	TL 80, 3000K	36	20,000	2225	2050	85
	\$	25798-0	F25T8/TL835	25	TL 80, 3500K	36	20,000	2225	2050	85
	\$	31989-7	F25T8/TL841	25	TL 80, 4100K	36	20,000	2225	2050	85
	\$	32050-7	F25T8/TL730	25	TL 70, 3000K	36	20,000	2125	1925	75
	\$	32298-2	F25T8/TL735	25	TL 70, 3500K	36	20,000	2125	1925	75
	\$	32051-5	F25T8/TL741	25	TL 70, 4100K	36	20,000	2125	1925	75

NEW!
30 Watt
T8/EW

ALTO® Energy Advantage™ Instant Start Fluorescent Lamps T8 Medium Bipin featuring Hi-Vision® Phosphor

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life Hrs. Instant Start (202, 234)	Approx. Initial Lumens	Design Lumens	CRI	
30	<input checked="" type="checkbox"/> \$	38780-3	F32T8/ADV830/EW/ALTO	25	Energy Saving T8, 3000K	48	15,000	2900	2750	86
	<input checked="" type="checkbox"/> \$	38781-1	F32T8/ADV835/EW/ALTO	25	Energy Saving T8, 3500K	48	15,000	2900	2750	86
	<input checked="" type="checkbox"/> \$	38783-7	F32T8/ADV841/EW/ALTO	25	Energy Saving T8, 4100K	48	15,000	2900	2750	86

Advantage Universal Start Ultimate Performance Lamps T8 Medium Bipin featuring Hi-Vision Phosphor

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. (202) Life Hours Rap. Start	Avg. (235) Life Hours Inst. Start	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI
32	<input type="checkbox"/> <input checked="" type="checkbox"/> \$	27064-5	F32T8/ADV830/ALTO	25	Advantage T8, 3000K	48	24,000	3200	3040	86
	<input type="checkbox"/> <input checked="" type="checkbox"/> \$	27065-2	F32T8/ADV835/ALTO	25	Advantage T8, 3500K	48	24,000	3200	3040	86
	<input type="checkbox"/> <input checked="" type="checkbox"/> \$	27066-0	F32T8/ADV841/ALTO	25	Advantage T8, 4100K	48	24,000	3200	3040	86
	<input type="checkbox"/> <input checked="" type="checkbox"/> \$	27068-6	F32T8/ADV850/ALTO	25	Advantage T8, 5000K	48	24,000	3200	3040	86

NEW!
Long Life
6500K

Long Life Universal Start Fluorescent Lamps T8 Medium Bipin featuring Hi-Vision Phosphor. 24,000 Hour

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. (202) Life Hours Rap. Start	Avg. (235) Life Hours Inst. Start	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI	
15	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> \$	38419-8	F15T8/TL865 PLUS	24	TL 80, 6500K	18	24,000	24,000	975	925	86
17	<input checked="" type="checkbox"/> \$	38215-0	F17T8/TL865 PLUS	25	TL 80, 6500K	24	24,000	24,000	1300	1235	86
25	<input checked="" type="checkbox"/> \$	38258-0	F25T8/TL865 PLUS	25	TL 80, 6500K	36	24,000	24,000	2150	2040	86
32	<input type="checkbox"/> <input checked="" type="checkbox"/> \$	38261-4	F32T8/TL865 PLUS/ALTO	25	TL 80, 6500K	48	24,000	24,000	2850	2710	86

◇ — Designed for Instant Start Operation

\$ — Energy Saving Product

— Exclusive Philips Product

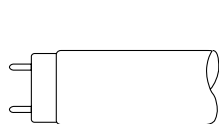
— This Bulb Meets US Federal Minimum Efficiency Standard

— Features ALTO Lamp Technology

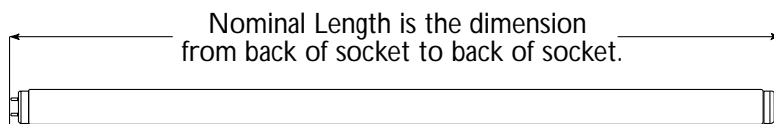
— Highest Color Rendering Lamps (CRI≥80)

— High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T8 Medium Bipin



Nominal Length is the dimension from back of socket to back of socket.

Long Life Universal Start Fluorescent Lamps, continued

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. (202) Life Hours Rap. Start	Avg. (235) Life Hours Inst. Start	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI	
32	Ⓔ \$	36000-8	F32T8/TL830 PLUS/ALTO	25	TL 80, 3000K, Long Life	48	24,000	24,000	2950	2800	86
	Ⓔ \$	36001-6	F32T8/TL835 PLUS/ALTO	25	TL 80, 3500K, Long Life	48	24,000	24,000	2950	2800	86
	Ⓔ \$	36002-4	F32T8/TL841 PLUS/ALTO	25	TL 80, 4100K, Long Life	48	24,000	24,000	2950	2800	86
	Ⓔ \$	36003-2	F32T8/TL850 PLUS/ALTO	25	TL 80, 5000K, Long Life	48	24,000	24,000	2950	2800	86
	Ⓔ \$	38261-4	F32T8/TL865 PLUS/ALTO	25	TL 80, 6500K, Long Life	48	24,000	24,000	2850	2710	86
	Ⓔ \$	36004-0	F32T8/TL730 PLUS/ALTO	25	TL 70, 3000K, Long Life	48	24,000	24,000	2850	2710	78
	Ⓔ \$	36005-7	F32T8/TL735 PLUS/ALTO	25	TL 70, 3500K, Long Life	48	24,000	24,000	2850	2710	78
	Ⓔ \$	36013-1	F32T8/TL741 PLUS/ALTO	25	TL 70, 4100K, Long Life	48	24,000	24,000	2850	2710	78
	Ⓔ \$	36014-9	F32T8/TL750 PLUS/ALTO	25	TL 70, 5000K, Long Life	48	24,000	24,000	2850	2710	78

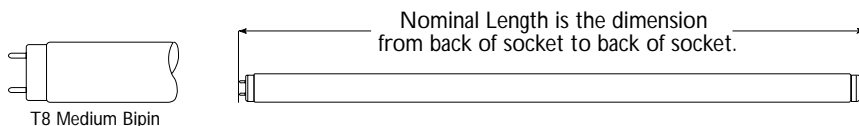
Universal Start Fluorescent Lamps T8 Medium Bipin featuring Hi-Vision® Phosphor

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. (202) Life Hours Rap. Start	Avg. (205) Life Hours Inst. Start	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI	
32	☐ \$	20904-9	F32T8/TL930	25	TL 90, 3000K	48	20,000	20,000	2000	1860	95
	☐ \$	20905-6	F32T8/TL950	25	TL 90, 5000K	48	20,000	20,000	2000	1860	98
	Ⓔ \$	24667-8	F32T8/TL830/ALTO	25	TL 80, 3000K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	27236-9	F32T8/TL830/ALTO PLZ	1350	TL 80, 3000K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	24670-2	F32T8/TL835/ALTO	25	TL 80, 3500K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	27233-6	F32T8/TL835/ALTO PLZ	1350	TL 80, 3500K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	24671-0	F32T8/TL841/ALTO	25	TL 80, 4100K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	27235-1	F32T8/TL841/ALTO PLZ	1350	TL 80, 4100K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	27229-4	F32T8/TL850/ALTO	25	TL 80, 5000K	48	20,000	20,000	2950	2800	86
	Ⓔ \$	27252-6	F32T8/TL730 ALTO	25	TL 70, 3000K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27282-3	F32T8/TL730/ALTO PLZ	1350	TL 70, 3000K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27228-1	F32T8/TL730/ALTO UPC	25	TL 70, 3000K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27249-2	F32T8/TL735/ALTO	25	TL 70, 3500K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27259-1	F32T8/TL735/ALTO PLZ	1350	TL 70, 3500K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27274-0	F32T8/TL735/ALTO UPC	25	TL 70, 3000K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27248-4	F32T8/TL741/ALTO	25	TL 70, 4100K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	38351-3	F32T8/TL741/ALTO	10	TL 70, 4100K, 10 Pack	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27255-9	F32T8/TL741/ALTO PLZ	1350	TL 70, 4100K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27269-0	F32T8/TL741/ALTO UPC	25	TL 70, 3000K	48	20,000	20,000	2850	2710	78
	Ⓔ \$	27268-2	F32T8/TL750/ALTO	25	TL 70, 5000K	48	20,000	20,000	2750	2550	78

Rapid Start Fluorescent Lamps T8 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life Hrs. Rapid Start (202, 224)	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI	
40	\$	36831-6	F40T8/TL830/ALTO	25	TL 80, 3000K	60	20,000	3775	3500	85
	\$	36834-0	F40T8/TL835/ALTO	25	TL 80, 3500K	60	20,000	3775	3500	85
	\$	36847-2	F40T8/TL841/ALTO	25	TL 80, 4100K	60	20,000	3775	3500	84
	\$	36851-4	F40T8/TL730/ALTO	25	TL 70, 3000K	60	20,000	3600	3250	75
	\$	36852-2	F40T8/TL735/ALTO	25	TL 70, 3500K	60	20,000	3600	3250	75
	\$	36853-0	F40T8/TL741/ALTO	25	TL 70, 4100K	60	20,000	3600	3250	75

- Ⓔ — Energy Saving Product
 - ☐ — Exclusive Philips Product
 - Ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard
 - ☐ — Features ALTO® Lamp Technology
 - ⬜ — Highest Color Rendering Lamps (CRI≥80)
 - ⬜ — High Color Rendering Lamps (CRI 70–79)
- Footnotes located on page 78



T8 Lamps

U-Bent Rapid Start Fluorescent Lamps T8 Medium Bipin with 6" long spacing (212)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life Hrs. Rapid Start (202, 224)	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI
32	Ⓔ \$ 37897-6	FB32T8/TL830/6/ALTO	20	TL 80, 3000K	22 ⁷ / ₁₆	20,000	2800	2535	85
	Ⓔ \$ 37900-8	FB32T8/TL835/6/ALTO	20	TL 80, 3500K	22 ⁷ / ₁₆	20,000	2800	2535	85
	Ⓔ \$ 37902-4	FB32T8/TL841/6/ALTO	20	TL 80, 4100K	22 ⁷ / ₁₆	20,000	2800	2535	85
	Ⓔ \$ 37880-2	FB32T8/TL850/6/ALTO	20	TL 80, 5000K	22 ⁷ / ₁₆	20,000	2750	2500	84
	Ⓔ \$ 37892-7	FB32T8/TL730/6/ALTO	20	TL 70, 3000K	22 ⁷ / ₁₆	20,000	2650	2370	75
	Ⓔ \$ 37893-5	FB32T8/TL735/6/ALTO	20	TL 70, 3500K	22 ⁷ / ₁₆	20,000	2650	2370	75
	Ⓔ \$ 37888-5	FB32T8/TL735/6/ALTO/UPC	20	TL 70, 3500K	22 ⁷ / ₁₆	20,000	2650	2370	75
	Ⓔ \$ 37894-3	FB32T8/TL741/6/ALTO	20	TL 70, 4100K	22 ⁷ / ₁₆	20,000	2650	2370	75
	Ⓔ \$ 37889-3	FB32T8/TL741/6/ALTO/UPC	20	TL 70, 4100K	22 ⁷ / ₁₆	20,000	2650	2370	75
	Ⓔ \$ 37882-8	FB32T8/TL750/6/ALTO	20	TL 70, 5000K	22 ⁷ / ₁₆	20,000	2600	2325	75

Instant Start Fluorescent Lamps T8 Single Pin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Average Life Hours	Approx. Initial Lum. (203, 204)	Design Lumens (208)	CRI
59	Ⓔ \$ 34457-2	F96T8/TL830	24	TL 80, 3000K	96	15,000	5900	5490	85
	Ⓔ \$ 34460-6	F96T8/TL835	24	TL 80, 3500K	96	15,000	5900	5490	85
	Ⓔ \$ 34462-2	F96T8/TL841	24	TL 80, 4100K	96	15,000	5900	5490	85
	Ⓔ \$ 21479-1	F96T8/TL850	24	TL 80, 5000K	96	15,000	5780	5375	84
	Ⓔ \$ 34453-1	F96T8/TL730	24	TL 70, 3000K	96	15,000	5700	5190	75
	Ⓔ \$ 34455-6	F96T8/TL735	24	TL 70, 3500K	96	15,000	5700	5190	75
	Ⓔ \$ 34456-4	F96T8/TL741	24	TL 70, 4100K	96	15,000	5700	5190	75
	Ⓔ \$ 21477-5	F96T8/TL750	24	TL 70, 5000K	96	15,000	5580	5080	75

High Output Fluorescent Lamps T8 Recessed Double Contact (224)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Average Life Hours	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
44	\$ 28299-6	F48T8/TL830/HO	24	TL 80, 3000K	48	18,000	4000	3600	85
	\$ 28306-9	F48T8/TL835/HO	24	TL 80, 3500K	48	18,000	4000	3600	85
	\$ 28309-3	F48T8/TL841/HO	24	TL 80, 4100K	48	18,000	4000	3600	85
	\$ 28268-1	F48T8/TL730/HO	24	TL 70, 3000K	48	18,000	3800	3420	75
	\$ 28273-1	F48T8/TL735/HO	24	TL 70, 3500K	48	18,000	3800	3420	75
	\$ 28282-2	F48T8/TL741/HO	24	TL 70, 4100K	48	18,000	3800	3420	75
	55	\$ 28316-8	F60T8/TL830/HO	24	TL 80, 3000K	60	18,000	5050	4545
\$ 28317-6		F60T8/TL835/HO	24	TL 80, 3500K	60	18,000	5050	4545	85
\$ 28320-0		F60T8/TL841/HO	24	TL 80, 4100K	60	18,000	5050	4545	85
\$ 28283-0		F60T8/TL730/HO	24	TL 70, 3000K	60	18,000	4800	4320	75
\$ 28286-3		F60T8/TL735/HO	24	TL 70, 3500K	60	18,000	4800	4320	75
\$ 28291-3		F60T8/TL741/HO	24	TL 70, 4100K	60	18,000	4800	4320	75

\$ — Energy Saving Product

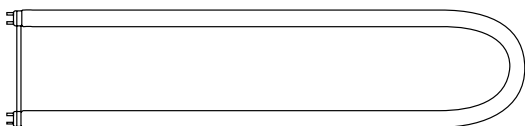
Ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

Footnotes located on page 78

■ — Features ALTO® Lamp Technology

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)



T8 Medium Bipin U-Bent



T8 Single Pin



T8 Recessed D.C.

High Output Fluorescent Lamps, continued

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs.	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
65	\$ 28324-2	F72T8/TL830/HO	24	TL 80, 3000K	72	18,000	6100	5490	85
	\$ 28325-9	F72T8/TL835/HO	24	TL 80, 3500K	72	18,000	6100	5490	85
	\$ 28326-7	F72T8/TL841/HO	24	TL 80, 4100K	72	18,000	6100	5490	85
	\$ 28293-9	F72T8/TL730/HO	24	TL 70, 3000K	72	18,000	5800	5220	75
	\$ 28296-2	F72T8/TL735/HO	24	TL 70, 3500K	72	18,000	5800	5220	75
	\$ 28297-0	F72T8/TL741/HO	24	TL 70, 4100K	72	18,000	5800	5220	75
86	ⓔ \$ 20513-8	F96T8/TL830/HO	24	TL 80, 3000K	96	18,000	8200	7625	85
	ⓔ \$ 20514-6	F96T8/TL835/HO	24	TL 80, 3500K	96	18,000	8200	7625	85
	ⓔ \$ 20515-3	F96T8/TL841/HO	24	TL 80, 4100K	96	18,000	8200	7625	85
	ⓔ \$ 20508-8	F96T8/TL730/HO	24	TL 70, 3000K	96	18,000	7900	7100	75
	ⓔ \$ 20511-2	F96T8/TL735/HO	24	TL 70, 3500K	96	18,000	7900	7100	75
	ⓔ \$ 20512-0	F96T8/TL741/HO	24	TL 70, 4100K	96	18,000	7900	7100	75

Preheat Fluorescent Lamps T8 Medium Bipin (Requires Use of Starters) (202)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
13	25910-1	F13T8/CW	24	Cool White, 4100K	12	7500	500	400	62
15	31515-0	F15T8/30U	24	Ultralume, 3000K	18	7500	1000	910	85
	25853-3	F15T8/SPEC35	24	SPEC, 3500K	18	7500	940	825	73
	37823-2	F15T8D/ALTO	24	Daylight, 6500K	18	7500	750	660	79
	39996-7	F15T8/D	96	Daylight, Bulk Pack	18	7500	750	660	79
	38298-6	F15T8/WW/ALTO	24	Warm White, 3000K	18	7500	870	740	53
	36720-1	F15T8/CW/ALTO	24	Cool White, 4100K	18	7500	870	765	62
	38299-4	F15T8/HL Cool/ALTO	24	Home Light Cool, 4100K, Sleeved	18	7500	870	765	62
	38300-0	F15T8/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	18	7500	870	765	62
	24987-0	F15T8/HL Cool	24	Home Light Cool, 4100K, Sleeved	24	7500	870	765	62
	36436-4	F15T8/CW	96	Cool White, Bulk Pack	18	7500	850	750	62
25460-7	F15T8/AGRO	6	Agro-Lite, Sleeved	18	7500	410	—	—	
30	26063-8	F30T8/D	24	Daylight, 6500K	36	7500	1500	1350	79
	38691-2	F30T8/CW/ALTO	24	Cool White, 4100K	36	7500	2200	2000	62
	38343-0	F30T8/HL Cool/ALTO	24	Home Light Cool, 4100K, Sleeved	36	7500	2200	2000	62
	38301-8	F30T8/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	36	7500	2200	2000	62

\$ — Energy Saving Product

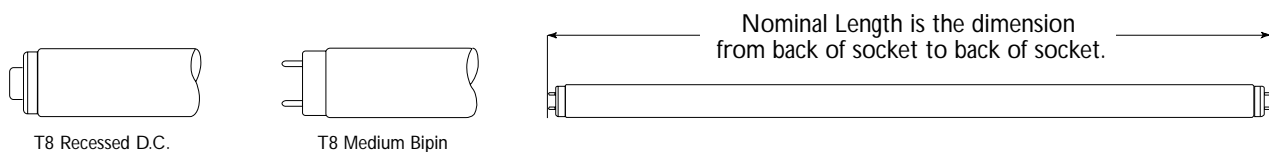
ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

Footnotes located on page 78

■ — Features ALTO® Lamp Technology

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)



T12 Lamps

Rapid Start Fluorescent Lamps T12 Medium Bipin

NEW!
F25T12
Designation

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
25	\$ 31365-0	F25T12/WW/RS/EW	30	Warm White, 3000K (209, 214)	36	18,000	2000	1700	53
	\$ 27247-6	F25T12/CW/RS/EW/ALTO	30	Cool White, 4100K (209, 214)	36	18,000	1950	1650	62
30	31377-5	F30T12/30U/RS	30	Ultralume, 3000K	36	18,000	2400	2160	85
	31379-1	F30T12/35U/RS	30	Ultralume, 3500K	36	18,000	2400	2160	85
	□ 31380-9	F30T12/41U/RS	30	Ultralume, 4100K	36	18,000	2400	2160	85
	□ 31381-7	F30T12/50U/RS	30	Ultralume, 5000K	36	18,000	2380	2140	85
	25447-4	F30T12/HL WX	6	Home Light Warm Deluxe, 3000K, Sleeved	36	18,000	2400	2100	85
	31376-7	F30T12/C50/RS	30	Colortone 50, 5000K	36	18,000	1650	1400	92
	31369-2	F30T12/SPEC30/RS	30	SPEC, 3000K	36	18,000	2350	2080	70
	31371-8	F30T12/SPEC35/RS	30	SPEC, 3500K	36	18,000	2350	2080	73
	31372-6	F30T12/SPEC41/RS	30	SPEC, 4100K	36	18,000	2350	2080	70
	37649-1	F30T12/D/RS/ALTO	30	Daylight, 6500K	36	18,000	1950	1700	79
	31374-2	F30T12/WW/RS	30	Warm White, 3000K	36	18,000	2300	1950	53
	27242-7	F30T12/CW/RS/ALTO	30	Cool White, 4100K	36	18,000	2250	1900	62
	33949-9	F30T12/HL COOL/ALTO UPC	30	Home Light Cool, 4100K (225)	36	18,000	2250	1900	62
34	ⓔ \$ 23781-8	F34/30U/RS/EW/ALTO	30	Ultralume, 3000K	48	20,000	2900	2600	85
	ⓔ \$ 23782-6	F34/35U/RS/EW/ALTO	30	Ultralume, 3500K	48	20,000	2900	2600	85
	ⓔ \$ 23783-4	F34/41U/RS/EW/ALTO	30	Ultralume, 4100K	48	20,000	2900	2600	85
	ⓔ \$ 23784-2	F34/50U/RS/EW/ALTO	30	Ultralume, 5000K	48	20,000	2880	2580	85
	\$ 28511-4	F34/CWX/RS/EW	30	Deluxe Cool White, 4200K	48	20,000	1925	1580	89
	\$ 26659-3	F34/DX/RS/EW//ALTO	30	Daylight Deluxe, 6500K	48	20,000	2025	1775	84
	ⓔ \$ 23775-0	F34/SPEC30/RS/EW/ALTO	30	SPEC, 3000K	48	20,000	2800	2520	70
	ⓔ \$ 23777-6	F34/SPEC35/RS/EW/ALTO	30	SPEC, 3500K	48	20,000	2800	2520	73
	ⓔ \$ 26793-0	F34/SPEC35/RS/EW/ALTO UPC	30	SPEC, 3500K	48	20,000	2800	2520	73
	ⓔ \$ 23779-2	F34/SPEC41/RS/EW/ALTO	30	SPEC, 4100K	48	20,000	2800	2520	70
	ⓔ \$ 25686-7	F34/WW/RS/EW/ALTO	30	Warm White, 3000K	48	20,000	2700	2350	53
	ⓔ \$ 24470-7	F34/CW/RS/EW/ALTO	30	Cool White, 4100K	48	20,000	2650	2300	62
	ⓔ \$ 24445-9	F34/CW/RS/EW/ALTO	30	Cool White, 4100K, 2 Pack	48	20,000	2650	2300	62
	ⓔ \$ 22046-7	F34/CW/RS/EW/ALTO	10	Cool White, 4100K, 10 Pack	48	20,000	2650	2300	62
	ⓔ \$ 24472-3	F34/CW/RS/EW/ALTO PLTZ	650	Cool White, 4100K, Palletized	48	20,000	2650	2300	62
ⓔ \$ 24475-6	F34/CW/RS/EW/ALTO UPC	30	Cool White, 4100K (225)	48	20,000	2650	2300	62	
ⓔ \$ 27321-9	F34/LW/RS/EW/ALTO	30	Lite White, 4200K	48	20,000	2750	2400	51	

NEW!
F34T12
Designation

U-Bent Fluorescent Lamps T12 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.) (212)	Avg. Life, Hrs. (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
34	ⓔ \$ 37871-1	FB34/SPEC30/6/EW/ALTO	12	SPEC, 3000K	22 ¹ / ₆	18,000	2760	2500	70
	ⓔ \$ 37872-9	FB34/SPEC35/6/EW/ALTO	12	SPEC, 3500K	22 ¹ / ₆	18,000	2760	2500	73
	ⓔ \$ 37874-5	FB34/SPEC41/6/EW/ALTO	12	SPEC, 4100K	22 ¹ / ₆	18,000	2760	2500	70
	ⓔ \$ 37862-0	FB34/WW/6/EW/ALTO	12	Warm White, 3000K	22 ¹ / ₆	18,000	2400	2050	53
	ⓔ \$ 37863-8	FB34/CW/6/EW/ALTO	12	Cool White, 4100K	22 ¹ / ₆	18,000	2400	2050	62
	ⓔ \$ 37839-8	FB34/CW/6/EW/ALTO UPC	12	Cool White, 4100K	22 ¹ / ₆	18,000	2400	2050	62
	ⓔ \$ 37865-3	FB34/LW/6/EW/ALTO	12	Lite White, 4200K	22 ¹ / ₆	18,000	2500	2150	51
	ⓔ \$ 20705-0	FB34/WW/3/EW	12	Warm White, 3000K	22 ¹ / ₆	18,000	2425	2125	51
	ⓔ \$ 20704-3	FB34/CW/3/EW	12	Cool White, 4100K	22 ¹ / ₆	18,000	2350	2050	62

NEW!
F34T12
Designation

- \$ — Energy Saving Product
- — Exclusive Philips Product
- ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

- — Features ALTO® Lamp Technology
- — Highest Color Rendering Lamps (CRI≥80)
- — High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



Advantage™ Rapid Start Ultimate Performance Fluorescent Lamps T12 Medium Bipin;

Advantage Lamps feature ALTO® Lamp Technology

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
40	<input type="checkbox"/> (E)	26604-9	F40T12/ADV30/ALTO	30	Advantage T12, 3000K	48	24,000	3600	3250	85
	<input type="checkbox"/> (E)	26631-2	F40T12/ADV35/ALTO	30	Advantage T12, 3500K	48	24,000	3600	3250	85
	<input type="checkbox"/> (E)	26640-3	F40T12/ADV41/ALTO	30	Advantage T12, 4100K	48	24,000	3600	3250	85
	<input type="checkbox"/> (E)	26643-7	F40T12/ADV50/ALTO	30	Advantage T12, 5000K	48	24,000	3600	3250	85

Rapid Start Fluorescent Lamps T12 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
40	(E)	27298-9	F40/30U/ALTO	30	Ultralume, 3000K	48	20,000	3300	2970	85
	(E)	27299-7	F40/35U/ALTO	30	Ultralume, 3500K	48	20,000	3300	2970	85
	(E)	27309-4	F40/41U/ALTO	30	Ultralume, 4100K	48	20,000	3300	2970	85
	(E)	27315-1	F40/50U/ALTO	30	Ultralume, 5000K	48	20,000	3280	2950	85
	(E)	24640-5	F40/HL WX/ALTO	30	Home Light Warm Deluxe, 3000K, Sleeved	48	20,000	3300	2970	85
	(E)	23764-4	F40/HL WX/ALTO	6	Home Light Warm Deluxe, 3000K, Sleeved	48	20,000	3300	2970	85
		36056-0	F40/KB/ALTO	30	Kitchen & Bath, 3000K, 2 Pack	48	20,000	3300	2970	85
		30203-4	F40/C50	30	Colortone 50, 5000K	48	20,000	2200	1915	92
		26790-6	F40/C50 UPC	30	Colortone 50, 5000K	48	20,000	2200	1915	92
		33464-9	F40/C75	30	Colortone 75, 7500K	48	20,000	2000	1720	95
		27359-9	F40/DX/ALTO	30	Daylight Deluxe, 6500K	48	20,000	2325	2025	84
		37653-3	F40/DX/ALTO UPC	30	Daylight Deluxe, 6500K (225)	48	20,000	2325	2025	84
		38690-4	F40/DX/ALTO	30	Daylight Deluxe, 6500K, 2 Pack	48	20,000	2325	2025	84
		26659-3	F40/CWX/ALTO	30	Deluxe Cool White, 4200K	48	20,000	2200	1800	89
		29491-8	F40/HL Everywhere	30	Deluxe Cool White, 4200K, 2 Pack	48	20,000	2200	1800	89
		35929-9	F40/HL Everywhere	10	Deluxe Cool White, 4200K	48	20,000	2200	1800	89
		38392-7	F40/HL Everywhere/ALTO	10	Deluxe Cool White, 4200K	48	20,000	2200	1800	89
		30198-6	F40/N	30	Natural, 3700K	48	20,000	2100	1870	90
	(E)	27311-0	F40/SPEC30/ALTO	30	SPEC, 3000K	48	20,000	3200	2880	70
	(E)	27291-4	F40/SPEC35/ALTO	30	SPEC, 3500K	48	20,000	3200	2880	73
	(E)	27295-5	F40/SPEC41/ALTO	30	SPEC, 4100K	48	20,000	3200	2880	70
	(E)	26276-6	F40/HL Warm/ALTO	30	Home Light Warm, 3500K, 2 Pack	48	20,000	3200	2880	73
	(E)	24639-7	F40/HL Warm/ALTO	30	Home Light Warm, 3500K, Sleeved	48	20,000	3200	2880	73
	(E)	26272-5	F40/HL Cool/ALTO	30	Home Light Cool, 4100K, 2 Pack	48	20,000	3200	2880	70
	(E)	24864-1	F40/HL Cool/ALTO	30	Home Light Cool, 4100K, Sleeved	48	20,000	3200	2880	70
		36530-4	F40/HL Cool/ALTO	30	Home Light Cool, 4100K	48	20,000	3200	2800	70
	(E)	23762-8	F40/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	48	20,000	3200	2880	70
	(E)	22606-8	F40/HL Cool/ALTO	10	Home Light Cool, 4100K	48	20,000	3200	2880	70
		25467-2	F40/BB	6	Agro-Lite, Sleeved	48	20,000	1600	1360	—
	<input type="checkbox"/>	20189-7	F40/AGRO	6	Special Blue (211)	48	20,000	550	385	—
		22630-8	F40/GO	30	Gold Sleeved Lamp	48	20,000	1700	1465	—

— Exclusive Philips Product

(E) — This Bulb Meets US Federal Minimum Efficiency Standard

Footnotes located on page 78

— Features ALTO Lamp Technology

— Highest Color Rendering Lamps (CRI≥80)

— High Color Rendering Lamps (CRI 70–79)



T12 Medium Bipin

T12 Lamps

U-Bent Fluorescent Lamps T12 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)(212)	Avg. Life, Hrs. (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
40	ⓔ 37879-4	FB40/30U/6/ALTO	12	Ultralume, 3000K	22 ⁷ / ₁₆	18,000	3100	2850	85
	ⓔ 37840-6	FB40/35U/6/ALTO	12	Ultralume, 3500K	22 ⁷ / ₁₆	18,000	3100	2850	85
	ⓔ 37876-0	FB40/41U/6/ALTO	12	Ultralume, 4100K	22 ⁷ / ₁₆	18,000	3100	2850	85
	☐ 21993-1	FB40/DX/6	12	Daylight Deluxe 6500K (225)	22 ⁷ / ₁₆	18,000	2250	1950	84
	ⓔ 37866-1	FB40/SPEC30/6/ALTO	12	SPEC, 3000K	22 ⁷ / ₁₆	18,000	3050	2775	70
	ⓔ 37854-7	FB40/SPEC35/6/ALTO	12	SPEC, 3500K	22 ⁷ / ₁₆	18,000	3050	2775	73
	ⓔ 37875-8	F40/SPEC35/6/ALTO UPC	12	SPEC, 3500K	22 ⁷ / ₁₆	18,000	3050	2775	73
	ⓔ 37868-7	FB40/SPEC41/6/ALTO	12	SPEC, 4100K	22 ⁷ / ₁₆	18,000	3050	2775	70
	ⓔ 37861-2	FB40/HL Cool/ALTO	12	Home Light Cool, 4100K, Sleeved	22 ⁷ / ₁₆	18,000	3050	2775	70

Slimline Fluorescent Lamps (Instant Start) T12 Single Pin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
20	26277-4	F24T12/CW	24	Cool White, 4100K	24	7500	1090	960	62
30	26284-0	F36T12/CW	24	Cool White, 4100K	36	7500	1850	1630	62
35	26303-8	F42T12/CW	24	Cool White, 4100K	42	7500	2200	1920	62
30	\$ 36605-4	F48T12/SPEC35/EW/ALTO	15	SPEC, 3500K	48	9000	2575	2350	73
	\$ 36609-6	F48T12/SPEC41/EW/ALTO	15	SPEC, 4100K	48	9000	2575	2350	70
	\$ 37650-9	F48T12/CW/EW/ALTO	15	Cool White, 4100K	48	9000	2400	2150	62
39	☐ 36610-4	F48T12/41U/ALTO	15	Ultralume, 4100K	48	9000	3150	2950	85
	36613-8	F48T12/SPEC35/ALTO	15	SPEC, 3500K	48	9000	3000	2800	73
	36219-4	F48T12/D/ALTO	15	Daylight, 6500K	48	9000	2500	2200	79
	36660-9	F48T12/WW/ALTO	15	Warm White, 3000K	48	9000	2950	2650	53
	36321-8	F48T12/CW/ALTO	15	Cool White, 4100K	48	9000	2950	2600	62
50	36323-4	F48T12/41U/ALTO UPC	15	Cool White, 4100K (225)	48	9000	2900	2600	62
	35564-4	F60T12/D	15	Daylight, 6500K	60	12,000	3150	2850	79
51	35563-6	F60T12/CW	15	Cool White, 4100K	60	12,000	3450	3050	62
	35577-6	F64T12/D	15	Daylight, 6500K	64	12,000	3200	2800	79
	35576-8	F64T12/CW	15	Cool White, 4100K	64	12,000	3750	3300	62

\$ — Energy Saving Product

☐ — Exclusive Philips Product

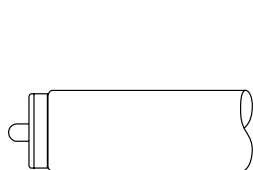
ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

☐ — Features ALTO® Lamp Technology

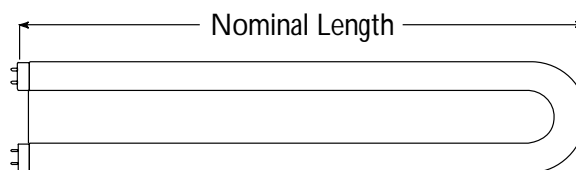
■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T12 Single Pin



T12 Medium Bipin U-Bent

Nominal Length of U-Bent is base face

Slimline Fluorescent Lamps (Instant Start), continued

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI	
56		36614-6	F72T12/30U/ALTO	15	Ultralume, 3000K	72	12,000	4850	4550	85
		36618-7	F72T12/35U/ALTO	15	Ultralume, 3500K	72	12,000	4850	4550	85
	☐	36621-1	F72T12/41U/ALTO	15	Ultralume, 4100K	72	12,000	4850	4550	85
		30753-8	F72T12/SPEC35	15	SPEC, 3500K	72	12,000	4700	4400	73
		36985-0	F72T12/D/ALTO	15	Daylight, 6500K	72	12,000	3800	3350	79
		36661-7	F72T12/WW/ALTO	15	Warm White, 3000K	72	12,000	4550	4000	53
		36989-2	F72T12/CW/ALTO	15	Cool White, 4100K	72	12,000	4450	3900	62
		36999-1	F72T12/CW/ALTO UPC	15	Cool White, 4100K (225)	72	12,000	4450	3900	62
60	ⓔ \$	36624-5	F96T12/30U/EW/ALTO	15	Ultralume, 3000K	96	12,000	5900	5550	85
	ⓔ \$	36625-2	F96T12/35U/EW/ALTO	15	Ultralume, 3500K	96	12,000	5900	5550	85
	ⓔ \$	36627-8	F96T12/41U/EW/ALTO	15	Ultralume, 4100K	96	12,000	5900	5550	85
	☐ ⓔ \$	36628-6	F96T12/50U/EW/ALTO	15	Ultralume, 5000K	96	12,000	5850	5500	85
	\$	34198-2	F96T12/C50/EW	15	Colortone 50, 5000K	96	12,000	4100	3700	92
	☐ \$	36654-2	F96T12/DX/EW/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4200	3675	84
	ⓔ \$	36630-2	F96T12/SPEC30/EW/ALTO	15	SPEC, 3000K	96	12,000	5750	5400	70
	ⓔ \$	26018-2	F96T12/SPEC35/EW/ALTO	15	SPEC, 3500K	96	12,000	5750	5400	73
	ⓔ \$	36631-0	F96T12/SPEC35/EW/ALTO UPC	15	SPEC, 3500K (225)	96	12,000	5750	5400	73
	ⓔ \$	26022-4	F96T12/SPEC41/EW/ALTO	15	SPEC, 4100K	96	12,000	5750	5400	70
	ⓔ \$	36656-7	F96T12/WW/EW/ALTO	15	Warm White, 3000K	96	12,000	5500	4850	53
	ⓔ \$	25840-0	F96T12/CW/EW/ALTO	15	Cool White, 4100K	96	12,000	5400	4750	62
	ⓔ \$	33994-5	F96T12/CW/EW/ALTO UPC	15	Cool White, 4100K (225)	96	12,000	5400	4750	62
	ⓔ \$	20523-7	F96T12/CW/EW/ALTO	16	Cool White, 4100K, 2 Pack	96	12,000	5400	4750	62
	ⓔ \$	36655-9	F96T12/LW/EW/ALTO	15	Lite White, 4200K	96	12,000	5600	4950	51
75	ⓔ	36633-6	F96T12/30U/ALTO	15	Ultralume, 3000K	96	12,000	6600	6225	85
	ⓔ	36634-4	F96T12/35U/ALTO	15	Ultralume, 3500K	96	12,000	6600	6225	85
	ⓔ	36635-1	F96T12/41U/ALTO	15	Ultralume, 4100K	96	12,000	6600	6225	85
	ⓔ	36636-9	F96T12/50U/ALTO	15	Ultralume, 5000K	96	12,000	6500	6125	85
		34170-1	F96T12/C50	15	Colortone 50, 5000K	96	12,000	4650	4200	92
		20574-0	F96T12/C50 UPC	15	Colortone 50, 5000K (225)	96	12,000	4650	4200	92
		37282-1	F96T12/DX/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4500	3950	84
	☐ \$	38689-6	F96T12/DX/ALTO UPC	15	Daylight Deluxe, 6500K (225)	96	12,000	4500	3950	84
	☐ \$	37663-2	F96T12/DX/ALTO	16	Daylight Deluxe, 6500K, 2 Pack	96	12,000	4500	3950	84
		34161-0	F96T12/CWX	15	Deluxe Cool White, 4200K	96	12,000	4500	3950	89
		34165-1	F96T12/N	15	Natural, 3700K	96	12,000	4300	3850	90
	ⓔ	36647-6	F96T12/SPEC30/ALTO	15	SPEC, 3000K	96	12,000	6425	6050	70
	ⓔ	36648-4	F96T12/SPEC35/ALTO	15	SPEC, 3500K	96	12,000	6425	6050	73
	ⓔ	36650-0	F96T12/SPEC41/ALTO	15	SPEC, 4100K	96	12,000	6425	6050	73
		22689-4	F96T12/GO	15	Gold Sleeved Lamp	96	12,000	3400	—	—

\$ — Energy Saving Product

☐ — Exclusive Philips Product

ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

☐ — Features ALTO® Lamp Technology

☐ — Highest Color Rendering Lamps (CRI≥80)

☐ — High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T12 Single Pin

T12 Lamps

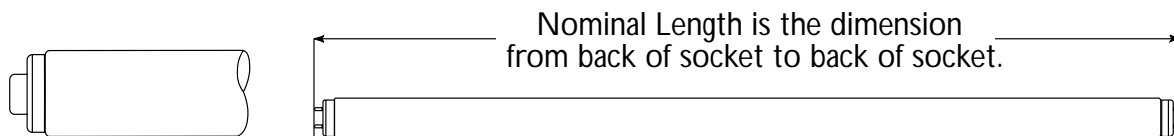
High Output Fluorescent Lamps (800 ma) T12 Recessed D.C. (207, 214)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
35	26274-1	F24T12/D/HO	24	Daylight, 6500K	24	9000	1400	1160	79
	26279-0	F24T12/CW/HO	24	Cool White, 4100K	24	9000	1650	1390	62
40	34334-3	F30T12/D/HO	24	Daylight, 6500K	30	9000	1920	1590	79
	22646-4	F30T12/CW/HO	24	Cool White, 4100K	30	9000	2290	1900	62
50	26290-7	F36T12/D/HO	24	Daylight, 6500K	36	9000	2500	2150	79
	26286-5	F36T12/CW/HO	24	Cool White, 4100K	36	9000	2800	2450	62
55	26306-1	F42T12/D/HO	24	Daylight, 6500K	42	9000	3000	2610	79
	26304-6	F42T12/CW/HO	24	Cool White, 4100K	42	9000	3400	2950	62
60	36610-4	F48T12/41U/HO/ALTO	15	Ultralume, 4100K	48	12,000	4400	4000	85
	21896-6	F48T12/SPEC30/HO	15	SPEC, 3000K	48	12,000	4250	3830	70
	21897-4	F48T12/SPEC35/HO	15	SPEC, 3500K	48	12,000	4250	3830	73
	26775-7	F48T12/SPEC41/HO	15	SPEC, 4100K	48	12,000	4250	3830	70
	36984-3	F48T12/D/HO/ALTO	15	Daylight, 6500K	48	12,000	3400	3000	79
	21816-4	F48T12/WW/HO	15	Warm White, 3000K	48	12,000	4100	3550	53
	36978-5	F48T12/CW/HO/ALTO	15	Cool White, 4100K	48	12,000	4050	3500	62
	36982-7	F48T12/CW/HO/ALTO UPC	15	Cool White, 4100K (225)	48	12,000	4050	3500	62
75	35567-7	F60T12/D/HO	15	Daylight, 6500K	60	12,000	4650	4050	79
	35566-9	F60T12/CW/HO	15	Cool White, 4100K	60	12,000	5150	4500	62
80	35584-2	F64T12/D/HO	15	Daylight, 6500K	64	12,000	4900	4250	79
	35578-4	F64T12/CW/HO	15	Cool White, 4100K	64	12,000	5600	4850	62
85	27305-2	F72T12/30U/HO	15	Ultralume, 3000K	72	12,000	6800	6200	85
	26723-7	F72T12/35U/HO	15	Ultralume, 3500K	72	12,000	6800	6200	85
	26742-7	F72T12/41U/HO	15	Ultralume, 4100K	72	12,000	6800	6200	85
	21204-3	F72T12/N/HO	15	Natural, 3700K	72	12,000	4200	3610	90
	30001-2	F72T12/SPEC35/HO	15	SPEC, 3500K	72	12,000	6650	6000	73
	30756-1	F72T12/SPEC41/HO	15	SPEC, 4100K	72	12,000	6650	6000	70
	36653-4	F72T12/D/HO/ALTO	15	Daylight, 6500K	72	12,000	5600	4850	79
	33053-0	F72T12/WW/HO	15	Warm White, 3000K	72	12,000	6500	5700	53
	36651-8	F72T12/CW/HO	15	Cool White, 4100K	72	12,000	6350	5500	62
	36652-6	F72T12/CW/HO/ALTO UPC	15	Cool White, 4100K (225)	72	12,000	6350	5500	62
95	21206-8	F84T12/D/HO/ALTO	15	Daylight, 6500K	84	12,000	6900	6000	79
	21205-0	F84T12/CW/HO	15	Cool White, 4100K	84	12,000	7800	6800	62
	ⓔ \$ 27319-3	F96T12/30U/HO/EW	15	Ultralume, 3000K	96	12,000	8625	7750	85
	ⓔ \$ 34862-3	F96T12/41U/HO/EW	15	Ultralume, 4100K	96	12,000	8620	7750	85
ⓔ \$ 20525-2	F96T12/50U/HO/EW	15	Ultralume, 5000K	96	12,000	8520	7675	85	
☐ \$ 21471-8	F96T12/DX/HO/EW	15	Daylight Deluxe, 6500K	96	12,000	5850	5000	84	
ⓔ \$ 34861-5	F96T12/SPEC30/HO/EW	15	SPEC, 3000K	96	12,000	8350	7500	70	
ⓔ \$ 22117-6	F96T12/SPEC35/HO/EW	15	SPEC, 3500K	96	12,000	8350	7500	73	
ⓔ \$ 34848-2	F96T12/SPEC41/HO/EW	15	SPEC, 4100K	96	12,000	8350	7500	70	
ⓔ \$ 34219-6	F96T12/WW/HO/EW	15	Warm White, 3000K	96	12,000	8100	7050	53	
ⓔ \$ 26660-1	F96T12/CW/HO/EW/ALTO	15	Cool White, 4100K	96	12,000	8000	6950	62	
ⓔ \$ 37528-7	F96T12/CW/HO/EW/ALTO UPC	15	Cool White, 4100K (225)	96	12,000	8000	6950	62	
ⓔ \$ 34216-2	F96T12/LW/HO/EW	15	Lite White, 4100K	96	12,000	8300	7200	51	

- \$ — Energy Saving Product
- ☐ — Exclusive Philips Product
- ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

- ☐ — Features ALTO® Lamp Technology
- ☐ — Highest Color Rendering Lamps (CRI≥80)
- ☐ — High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T12 Recessed D.C.

High Output Fluorescent Lamps (800 ma) T12 Recessed D.C. (207, 214)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
110	ⓔ 34863-1	F96T12/30U/HO	15	Ultralume, 3000K	96	12,000	9500	8550	85
	ⓔ 26710-4	F96T12/35U/HO	15	Ultralume, 3500K	96	12,000	9500	8550	85
	ⓔ 34864-9	F96T12/41U/HO	15	Ultralume, 4100K	96	12,000	9500	8550	85
	☐ ⓔ 34865-6	F96T12/50U/HO	15	Ultralume, 5000K	96	12,000	9350	8350	85
	34226-1	F96T12/C50/HO	15	Colortone 50, 5000K	96	12,000	6300	5400	92
	☐ 21489-0	F96T12/DX/HO	15	Daylight Deluxe, 6500K	96	12,000	6750	5800	84
	34222-0	F96T12/CWX/HO	15	Deluxe Cool White, 4200K	96	12,000	6600	5500	89
	34230-3	F96T12/N/HO	15	Natural, 3700K	96	12,000	6250	5400	90
	ⓔ 27276-5	F96T12/SPEC30/HO	15	SPEC, 3000K	96	12,000	9300	8375	70
	ⓔ 27681-6	F96T12/SPEC35/HO	15	SPEC, 3500K	96	12,000	9300	8375	73
	ⓔ 27279-9	F96T12/SPEC41/HO	15	SPEC, 4100K	96	12,000	9300	8375	70

High Output Fluorescent Lamps (800 ma) For Low Temperature Applications; T12 Recessed D.C. (223)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
110	38177-4	F96T12/D/HO-O/ALTO	15	Daylight, 6500K	96	12,000	7800	6800	79
	38176-4	F96T12/CW/HO-O/ALTO	15	Cool White, 4100K	96	12,000	8800	7650	62
	38178-0	F96T12/CW/HO-O/ALTO UPC	15	Cool White, 4100K (225)	96	12,000	7800	6800	62

Very-High Output Fluorescent Lamps (1500 ma) T12 Recessed D.C. (214)

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
110	21819-8	F48T12CW/VHO	15	Cool White, 4100K	48	12,000	7050	4950	62
135	21785-1	F60T12/CW/VHO	15	Cool White, 4100K	60	12,000	9000	6300	62
160	33054-8	F72T12/D/VHO	15	Daylight, 6500K	72	12,000	9100	6400	79
	21210-0	F72T12/CW/VHO	15	Cool White, 4100K	72	12,000	11,250	7850	62
185	\$ 34232-9	F96T12/CW/VHO/EW	15	Cool White, 4100K	96	12,000	14,200	9900	62
	\$ 34233-7	F96T12/LW/VHO/EW	15	Lite White, 4100K	96	12,000	14,400	10,100	51
215	☐ 38213-5	F96T12/41U/VHO/ALTO	15	Ultralume 41, 4100K	96	12,000	17,500	16,100	82
	34237-8	F96T12/D/VHO	15	Daylight, 6500K	96	12,000	12,505	8750	79
	34242-8	F96T12/WW/VHO	15	Warm White, 3000K	96	12,000	15,700	11,200	53
	34234-5	F96T12/CW/VHO	15	Cool White, 4100K	96	12,000	15,200	10,700	62

Outdoor Very-High Output Fluorescent Lamps (1500 ma) T12 Recessed D.C.

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
116	21820-6	F48T12/CW/VHO-O	15	Cool White, 4100K	48	10,000	7000 †	4900	62
140	21786-9	F60T12/CW/VHO-O	15	Cool White, 4100K	60	10,000	8900 †	6250	62
162	21211-8	F72T12/CW/VHO-O	15	Cool White, 4100K	72	10,000	11,100 †	7750	62
212	34243-6	F96T12/CW/VHO-O	15	Cool White, 4100K	96	10,000	14,900 †	10,400	62

\$ — Energy Saving Product

☐ — Exclusive Philips Product

† — Peak Values

ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

☐ — Features ALTO® Lamp Technology

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T12 Recessed D.C.

T12 Lamps

Low Temperature Jacketed Very-High Output Fluorescent Lamps (1500 ma) T14½

(1¹³/₁₆" Dia. Jacket) T12 Recessed D.C.

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
116	28409-1	FJ48T12/CW/VHO-O	12	Cool White, 4100K	48	10,000	7000 ‡	4900	62
140	26471-3	FJ60T12/CW/VHO-O	12	Cool White, 4100K	60	10,000	8900 ‡	6250	62
162	28410-9	FJ72T12/CW/VHO-O	8	Cool White, 4100K	72	10,000	11,100 ‡	7750	62
212	28397-8	FJ96T12/CW/VHO-O	8	Cool White, 4100K	96	10,000	14,900 ‡	10,400	62

Preheat Fluorescent Lamps T12 Medium Bipin

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
14	25916-8	F14T12/CW	24	Cool White, 4100K	15	9000	710	590	62
	24985-4	F14T12/HL Cool	24	Home Light Cool, 4100K, Sleeved	15	9000	710	590	62
	27145-2	F14T12/HL Cool	6	Home Light Cool, 4100K, Sleeved	15	9000	710	590	62
15	25980-4	F15T12/D	24	Daylight, 6500K	18	9000	650	535	79
	25975-4	F15T12/WW	24	Warm White, 3000K	18	9000	800	670	53
	25971-3	F15T12/CW	24	Cool White, 4100K	18	9000	800	695	62
	24980-5	F15T12/HL Cool	24	Home Light Cool, 4100K, Sleeved	18	9000	800	695	62
	27147-8	F15T12/HL Cool	6	Home Light Cool, 4100K	18	9000	800	695	62
20	31399-9	F20T12/30U	30	Ultralume, 3000K	24	9000	1350	1270	85
	31400-5	F20T12/35U	30	Ultralume, 3500K	24	9000	1350	1270	85
	<input type="checkbox"/> 31401-3	F20T12/41U	30	Ultralume, 4100K	24	9000	1350	1270	85
	<input type="checkbox"/> 31403-9	F20T12/50U	30	Ultralume, 5000K	24	9000	1340	1260	85
	31396-5	F20T12/C50	30	Colortone 50, 5000K	24	9000	850	755	92
	31386-6	F20T12/SPEC30	30	SPEC, 3000K	24	9000	1275	1190	70
	31388-2	F20T12/SPEC35	30	SPEC, 3500K	24	9000	1275	1190	73
	27328-4	F20T12/D/ALTO	30	Daylight, 6500K	24	9000	1075	960	79
	21331-4	F20T12/D/ ALTO UPC	30	Daylight, 6500K (225)	24	9000	1075	960	79
	27349-0	F20T12/WW/ALTO	30	Warm White, 3000K	24	9000	1250	1100	53
	27332-6	F20T12/CW/ALTO	30	Cool White, 4100K	24	9000	1200	1050	62
	27160-1	F20T12/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	24	9000	1200	1050	62
	33948-1	F20T12/HL Cool/ALTO UPC	30	Home Light Cool, 4100K	24	9000	1200	1050	62
	25465-6	F20T12/AGRO	6	Agro-Lite, Sleeved	24	9000	600	500	—
	<input type="checkbox"/> 31745-3	F20T12/BB	6	Special Blue (211)	24	9000	225	180	—
25	26041-4	F25T12/D	24	Daylight, 6500K	33	7500	1600	1440	79
	26030-7	F25T12/CW	24	Cool White, 4100K	33	7500	1900	1710	62

Econ-o-watt® Preheat Fluorescent Lamps T12 Medium Bipin; For Operation Only On Preheat Ballasts.

Nominal Lamp Watts	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
34	X (E) \$ 28477-8	F34/CW/EW-PH	30	Cool White, 4100K (214, 215)	48	11,500	2700	2350	62

\$ — Energy Saving Product

— Exclusive Philips Product

‡ — Peak Values

(E) — This Bulb Meets US Federal Minimum Efficiency Standard

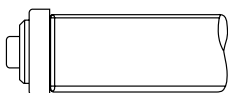
X — Orders will be shipped until inventory is depleted; no longer manufactured

— Features ALTO® Lamp Technology

— Highest Color Rendering Lamps (CRI≥80)

— High Color Rendering Lamps (CRI 70–79)

Footnotes located on page 78



T12 Recessed D.C. (jacketed)



T12 Medium Bipin

Circline Fluorescent Lamps For Use with Rapid Start, Trigger Start or Preheat Circuits

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
20	T9	4-Pin	24982-1	FC6T9/CW	12	Cool White, 4100K	O.D. 6½	12,000	800	590	62
22	T9	4-Pin	25455-7	FC8T9/HL WX	12	Home Light Warm Deluxe, 3000K	O.D. 8¼	12,000	1150	875	85
			26234-5	FC8T9/D	12	Daylight, 6500K	O.D. 8¼	12,000	910	675	79
			25449-0	FC8T9/HL CW	12	Home Light Cool, 4100K	O.D. 8¼	12,000	1050	775	62
32	T9	4-Pin	25459-9	FC12T9/HL WX	12	Home Light Warm Deluxe, 3000K	O.D. 12	12,000	1900	1600	85
			26260-0	FC12T9/D	12	Daylight, 6500K	O.D. 12	12,000	1570	1300	79
			25453-2	FC12T9/HL CW	12	Home Light Cool, 4100K	O.D. 12	12,000	1800	1500	62
40	T9	4-Pin	25454-0	FC16T9/HL CW	12	Home Light Cool, 4100K	O.D. 16	12,000	2500	1975	62

Appliance Fluorescent Lamps For Use with Starters

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
14	T8	Med. Bipin	25914-3	F14T8/CW/15	24	Cool White, 4100K	15	7500	700	595	62
16	T8	Med. Bipin	25989-5	F16T8/CW/26	24	Cool White, 4100K	26	7500	1275	1020	62
17	T8	Med. Bipin	25990-3	F17T8/CW/28	24	Cool White, 4100K	28	7500	1350	1080	62
18	T8	Med. Bipin	25992-9	F18T8/CW/30	24	Cool White, 4100K	30	7500	1400	1120	62
			36520-5	F18T8/24	24	Cool White, 4100K	24	7500	1175	940	62
25	T12	Med. Bipin	26034-9	F25T12/CW/28	24	Cool White, 4100K	28	7500	1600	1280	62
			26033-1	F25T12/CW/30	24	Cool White, 4100K	30	7500	1600	1280	62

For Black Light Lamps, turn to page 135.

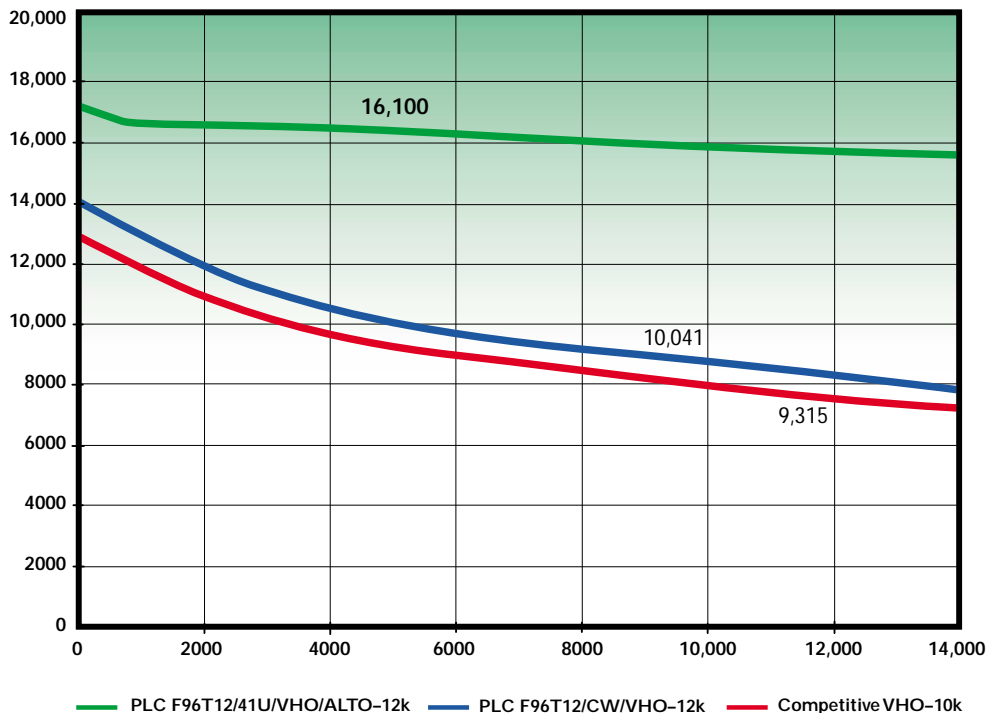
Footnotes located on page 78

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)

MORE LIGHT OVER LIFE

F96T12/CW/VHO vs. F96T12/41U/VHO/ALTO



Retail Fluorescent Package

Universal Home Light Lamps

For all residential applications.

Home Light Cool: Its cool color appearance makes it ideal for utility rooms, basements, garages and home offices.

Home Light Warm: Brings out warm tones of wood and furnishings—ideal for kitchens and bathrooms.

Home Light Warm Deluxe: The best soft warm decorative light to bring out the natural tones in all the rooms of your home.

Preheat Fluorescent Lamps Requires Use of Starters

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
4	T5	Min. Bipin	24963-1	BC-F4T5/HL Cool	12	Home Light Cool, 4100K	6	6000	135	95	62
6	T5	Min. Bipin	24965-6	BC-F6T5/HL Cool	12	Home Light Cool, 4100K	9	7500	295	230	62
8	T5	Min. Bipin	24967-2	BC-F8T5/HL Cool	12	Home Light Cool, 4100K	12	7500	400	300	62
13	T5	Min. Bipin	24969-8	BC-F13T5/HL Cool	12	Home Light Cool, 4100K	21	7500	820	655	62
15	T8	Med. Bipin	38299-4	F15T8/HL Cool/ALTO	24	Home Light Cool, 4100K, Sleeved	18	7500	870	765	62
			38300-0	F15T8/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	18	7500	870	765	62
			24987-0	F15T8/HL Cool	24	Home Light Cool, 4100K, Sleeved	24	7500	1175	944	62
			25460-7	F15T8/AGRO	6	Agro-Lite, Sleeved	18	7500	410	--	--
30	T8	Med. Bipin	38343-0	F30T8/HL Cool/ALTO	24	Home Light Cool, 4100K, Sleeved	36	7500	2200	2000	62
			38301-8	F30T8/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	36	7500	2200	2000	62
14	T12	Med. Bipin	24985-4	F14T12/HL Cool	24	Home Light Cool, 4100K, Sleeved	15	9000	710	590	62
			27145-2	F14T12/HL Cool	6	Home Light Cool, 4100K, Sleeved	15	9000	710	590	62
15	T12	Med. Bipin	24980-5	F15T12/HL Cool	24	Home Light Cool, 4100K, Sleeved	18	9000	800	695	62
			27147-8	F15T12/HL Cool	6	Home Light Cool, 4100K, Sleeved	18	9000	800	695	62
20	T12	Med. Bipin	33948-1	F20T12/HL Cool/ALTO UPC	30	Home Light Cool, 4100K	24	9000	1200	1050	62
			27160-1	F20T12/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	24	9000	1200	1050	62
			25465-6	F20T12/AGRO	6	Agro-Lite, Sleeved	24	9000	600	500	—

Rapid Start Fluorescent Lamps

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
30	T12	Med. Bipin	25447-4	F30T12/HL WX	6	Home Light WX, 3000K, Sleeved	36	18,000	2400	2100	85
			33949-9	F30T12/HL Cool/ALTO UPC	30	Home Light Cool, 4100K	36	18,000	2250	1900	62
40	T12	Med. Bipin	Ⓔ 36056-0	F40T12/K&B	30	Kitchen & Bath, 3000K, 2 Pack	48	20,000	3300	2970	85
			Ⓔ 36932-2	F40T12/K&B	168	Kitchen & Bath, 3000K, 2 Pack	48	20,000	3300	2970	85
			Ⓔ 24640-5	F40/HL WX/ALTO	30	Home Light WX, 3000K, Sleeved	48	20,000	3300	2970	85
			Ⓔ 23764-4	F40/HL WX/ALTO	6	Home Light WX, 3000K, Sleeved	48	20,000	3300	2970	85
			Ⓔ 24639-7	F40/HL Warm/ALTO	30	Home Light Warm, 3500K, Sleeved	48	20,000	3200	2880	73
			Ⓔ 26276-6	F40/HL Warm/ALTO	30	Home Light Warm, 3500K, 2 Pack	48	20,000	3200	2880	73
			Ⓔ 24864-1	F40/HL Cool/ALTO	30	Home Light Cool, 4100K, Sleeved	48	20,000	3200	2880	70
			Ⓔ 36530-4	F40/HL Cool/ALTO	30	Home Light Cool, 4100K	48	20,000	3200	2880	70
			Ⓔ 22606-8	F40/HL Cool/ALTO	10	Home Light Cool, 4100K	48	20,000	3200	2880	70
			Ⓔ 23762-8	F40/HL Cool/ALTO	6	Home Light Cool, 4100K, Sleeved	48	20,000	3200	2880	70
			Ⓔ 26272-5	F40/HL Cool/ALTO	30	Home Light Cool, 4100K, 2 Pack	48	20,000	3200	2880	70
			Ⓔ 36936-3	F40/HL Cool/ALTO	168	Home Light Cool, 4100K, 2 Pack	48	20,000	3200	2880	70
			25467-2	F40/AGRO	6	Agro-Lite, Sleeved	48	20,000	1600	1360	—

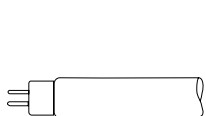
Ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard

Footnotes located on page 78

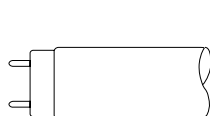
■ — Features ALTO® Lamp Technology

■ — Highest Color Rendering Lamps (CRI≥80)

■ — High Color Rendering Lamps (CRI 70–79)



T5 Miniature Bipin



T8 Medium Bipin



T12 Medium Bipin

U-Bent Fluorescent Lamps

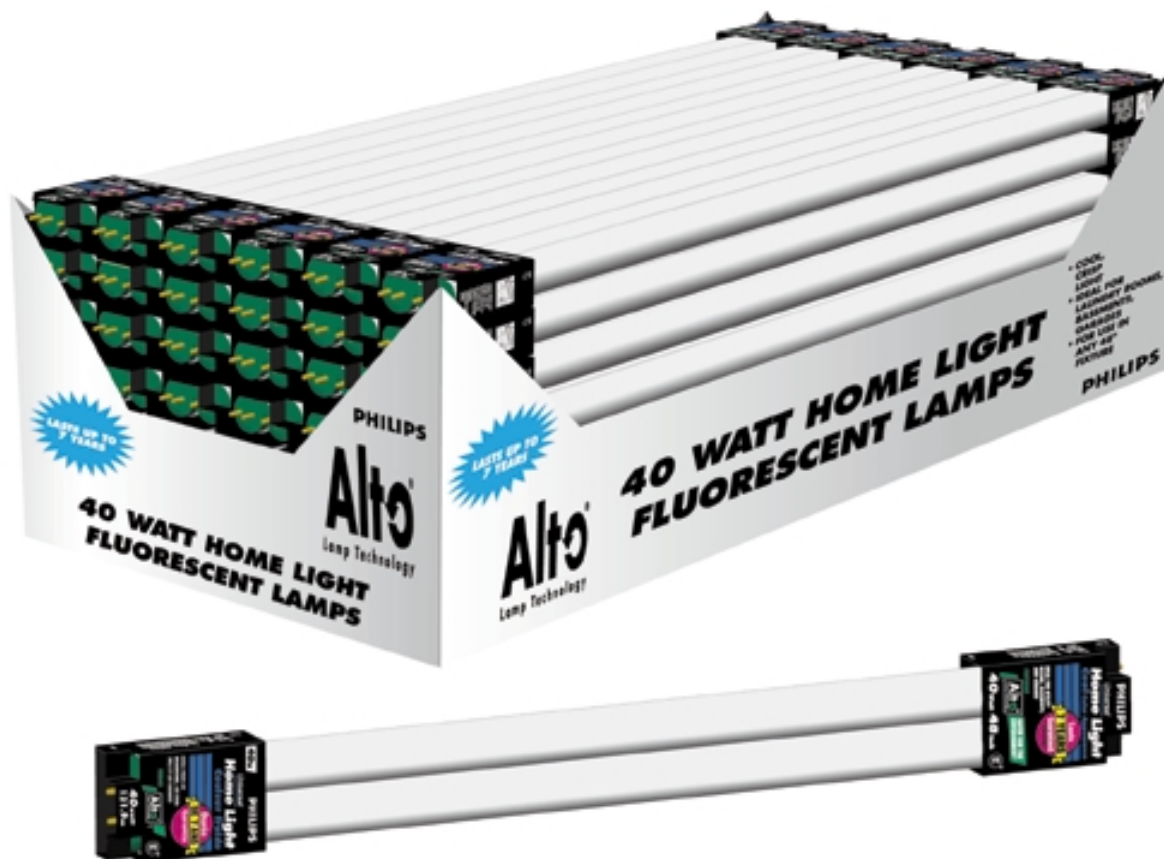
Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
40	T12	Ⓔ	37861-2	FB40/HL Cool/ALTO	12	Home Light Cool, 4100K, Sleeved	22 7/8	18,000	3050	2775	70

Circline Fluorescent Lamps For Use with Rapid Start, Trigger Start or Preheat Circuits

Nominal Lamp Watts	Bulb	Base	Product Number 046677-	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
22	T9	4-Pin	25455-7	FC8T9/HL WX	12	Home Light Warm Deluxe, 3000K	O.D. 8 3/4	12,000	1150	875	85
			25449-0	FC8T9/HL Cool	12	Home Light Cool, 4100K	O.D. 8 3/4	12,000	1050	775	62
32	T9	4-Pin	25459-9	FC12T9/HL WX	12	Home Light Warm Deluxe, 3000K	O.D. 12	12,000	1900	1600	85
			25453-2	FC12T9/HL Cool	12	Home Light Cool, 4100K	O.D. 12	12,000	1800	1500	62
40	T9	4-Pin	25454-0	FC16T9/HL Cool	12	Home Light Cool, 4100K	O.D. 16	12,000	2500	1975	62

Ⓔ — This Bulb Meets US Federal Minimum Efficiency Standard
Footnotes located on page 78

- Features ALTO® Lamp Technology
- Highest Color Rendering Lamps (CRI ≥ 80)
- High Color Rendering Lamps (CRI 70–79)



Because of frequent improvements, the values listed may not be current ratings. For design purposes, obtain ratings from current Product Bulletins.

- Quantity shown is a minimum shipping container—refer to net Price Schedule for number of lamps to qualify as a standard case.

(202) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

(203) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions.

(204) For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The Ballast Factor is a multiplier applied to the designated lamp lumen output.

(205) Approximate hours of life for F40 lamps operated by standard rapid start ballasts at three hours per start. When these lamps are operated on modified rapid start or preheat circuits the operating life will be reduced by approximately 25 percent. When employing dimming systems or energy-saving device systems, the device manufacturer can advise of the effect of their system upon lamp life.

(206) The pins of these lamps are short circuited inside the end caps and the lamp will not operate on preheat or rapid start ballast circuits.

(207) Approximate initial lumens are for 800 ma. operation. For 1000 ma. operation, lumens are approximately 10% higher and watts approximately 15% higher.

(208) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

(209) Operation on existing single lamp ballasts is not recommended because of marginal starting.

(210) Approximate initial lumens are for operation at 200 ma.

(211) Designed for service other than illumination.

(212) Nominal length measured from face of base to maximum distant outside point of U. Measurement does not include base pins. Leg spacing center to center approximately 6", for /6 and 3 3/4" for /3 lamps.

(213) Unique construction maintains light output over a wide range of operating temperatures.

(214) Econ-o-watt® lamps are only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamps are not recommended for use in drafty areas, or locations where the ambient temperature is less than 60°F, except as noted. Also they should not be operated on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts.

(215) This lamp will operate on rapid start circuits provided ambient temperature is above 60°F, line voltage is 116 volts or higher and the lamps are located within 1/4" of the grounded starting aid (usually the reflector).

(216) The use of amalgam technology results in relatively stable light output across a broad range of ambient temperatures and operating positions.

(217) Most Marathon™ lamps are suitable for indoor or outdoor use down to -10°F. Outdoor use requires weather-protected fixture. The table lamp will operate down to 32°F. All these products comply with part 18 of the FCC rules. These products may cause interference with AM radios, cordless telephones, and remote control devices. Interference may be caused after a brief 90-second lamp warm-up period. If interference continues, relocate the lamp away from the device or plug into a different outlet.

(218) All lamps are electronically ballasted and designed for 120 volt operation. Lamps operated in extreme environments will have reduced life (ie. recessed or enclosed lighting fixtures with elevated line voltage). Caution: except for lamps marked dimmable, do not use with dimmers. Before using these lamps with electronic timing or photocell devices, check to determine whether the device is compatible with compact fluorescent lamps. Use with incompatible devices will result in premature lamp failure. These products are UL listed.

(219) PL-S 5W lamps should not be used in sockets or adapters intended for PL-S 7W and PL-S 9W lamps.

(220) Total wattage consumption for adapter systems is higher than lamp wattage due to ballast losses. Total system wattage equals lamp wattage plus 2 ballast watts.

(221) The PL-C13W/27 is physically and electrically incompatible with the more popular PL-C13W/27/USA types.

(222) Low temperature starting down to -20°F at nominal line voltage.

(223) Meets the National Energy Policy Act of 1992 exemption for outdoor or cold temperature applications only.

(224) Average rated life for TL 70, TL 80, TL 90 and Advantage™ T8 straight and U-Bent lamps based on 3 hours per start when operated on rapid start ballasts. Operation on electronic instant start ballasts will provide an average rated life of 15,000 hours at 3 hours per start.

(225) Lamp includes scannable Universal Product Code (UPC).

(226) SILHOUETTE™ T5 nominal lamp lengths are shorter than standard sizes. See chart on page 65 for details.

(227) Do not use in recessed cans or totally enclosed fixtures.

(228) Use in recessed cans or enclosed indoor fixtures will result in reduced lamp life.

(230) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours.

(231) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life under standard laboratory conditions.

(232) Lamp is designed for use with most standard incandescent dimmers.

(233) Average rated life of 7,000 hours when wired in recessed cans or totally enclosed fixtures.

(234) Average rated life 15,000 hours. Operate on Instant Start ballasts only.

(235) Universal T8 lamps have full rated life on Instant Start, Rapid Start and Programmed Start ballasts.

Light Source Color Chart

Fluorescent Color	Color Abbreviation	Atmosphere	Light Output (%) In 4' Lamp	Correlated Color Temperature	Color Rendering Index, CRI	Lighted Appearance CIE Color Coordinates	
						X	Y
Cool White	CW	Cool	100	4100K	62	0.380	0.380
Deluxe Cool White	CWX	Cool	72	4100K	89	0.376	0.367
Daylight	D	Cool Daylight	85	6500K	79	0.313	0.337
Daylight Deluxe	DX	Cool Daylight	76	6500K	84	0.314	0.341
Lite White	LW	Cool	104	4200K	51	0.376	0.386
Natural	N	Neutral	69	3700K	90	0.384	0.357
3000K, SPEC30	SPEC30	Warm	105	3000K	70	0.444	0.409
3500K, SPEC35	SPEC35	Neutral	105	3500K	73	0.410	0.395
4100K, SPEC41	SPEC41	Cool	105	4100K	70	0.382	0.385
Advantage™ T12 30	ADV30	Warm	118	3000K	82	0.444	0.409
Advantage T12 35	ADV35	Neutral	118	3500K	82	0.410	0.395
Advantage T12 41	ADV41	Cool	118	4100K	82	0.382	0.385
Advantage T12 50	ADV50	Daylight	118	5000K	82	0.346	0.360
Warm White	WW	Warm	102	3000K	53	0.440	0.403
Colortone 50	C50	Daylight	72	5000K	92	0.345	0.359
Colortone 75	C75	Daylight Plus	66	7500K	95	0.299	0.316
3000K, Ultralume	30U	Warm	108	3000K	85	0.444	0.409
3500K, Ultralume	35U	Neutral	108	3500K	85	0.413	0.395
4100K, Ultralume	41U	Cool	108	4100K	85	0.382	0.385
5000K, Ultralume	50U	Daylight	93	5000K	85	0.346	0.356
3000K, TL 70	TL730	Warm	93	3000K	78	0.439	0.402
3500K, TL 70	TL735	Neutral	93	3500K	78	0.410	0.395
4100K, TL 70	TL741	Cool	93	4100K	78	0.382	0.385
5000K, TL 70	TL750	Daylight	90	5000K	76	0.346	0.356
3000K, TL 80	TL830	Warm	98	3000K	86	0.439	0.402
3500K, TL 80	TL835	Neutral	98	3500K	86	0.410	0.395
4100K, TL 80	TL841	Cool	98	4100K	86	0.382	0.385
5000K, TL 80	TL850	Daylight	97	5000K	86	0.346	0.356
3000K, TL 90	TL930	Warm	66	3000K	95	0.438	0.399
5000K, TL 90	TL950	Daylight	66	5000K	98	0.344	0.355
Advantage T8 830	ADV830	Warm	105	3000K	86	0.444	0.409
Advantage T8 835	ADV835	Neutral	105	3500K	86	0.410	0.395
Advantage T8 841	ADV841	Cool	105	4100K	86	0.382	0.385
Advantage T8 850	ADV850	Daylight	105	5000K	86	0.346	0.360

Residential Applications Light Source Color Chart

Fluorescent Color	Color Abbreviation	Atmosphere	Light Output (%) In 4' Lamp	Correlated Color Temperature	Color Rendering Index, CRI	Lighted Appearance CIE Color Coordinates	
						X	Y
Home Light Cool	HL Cool	Cool	105	4100K	62-70	0.382	0.385
Home Light Warm	HL Warm	Neutral	105	3500K	73	0.410	0.395
Home Light Warm Deluxe	HL WX	Warm	108	3000K	85	0.444	0.409

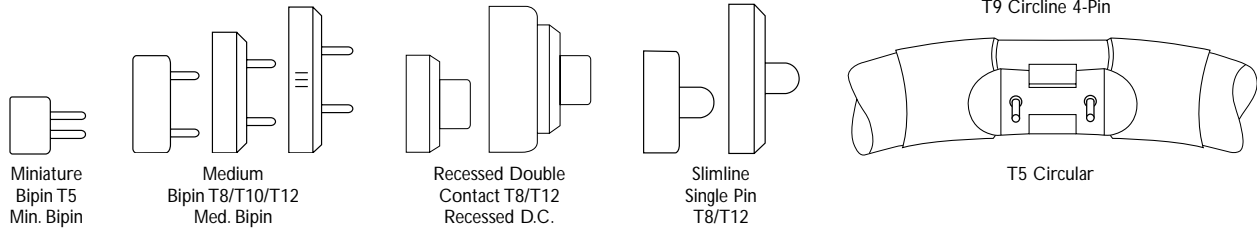
Correlated Color Temperature, CCT, describes the apparent color, or chromaticity, of a light source. Fluorescent light sources of 3000K, for example, Warm White or 3000K Ultralume, have a warm chromaticity, while 5000K lamps such as Colortone® 50 or 5000K Ultralume have a higher blue content and are considered to be cooler in color.

Color Rendering Index, CRI, is a relative value that indicates the color rendering quality of illumination provided by a light source. The higher the index number, the better the quality of illumination. While one lamp may have the same apparent color in CCT as another, its ability to render colors properly may be more or less than another light source. For example, Warm White 3000K 53 CRI lamps will not render colors of objects in an illuminated space as well as 3000K Ultralume 85 CRI lamps.

Both CCT and CRI should be cited together when properly describing light source color attributes.

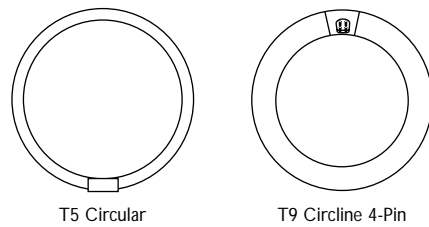
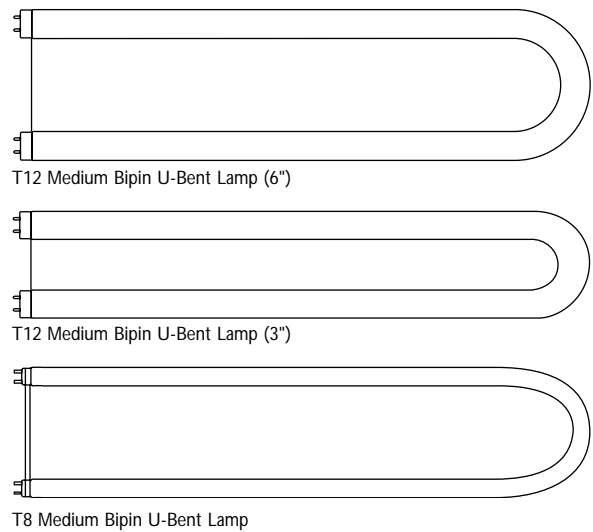
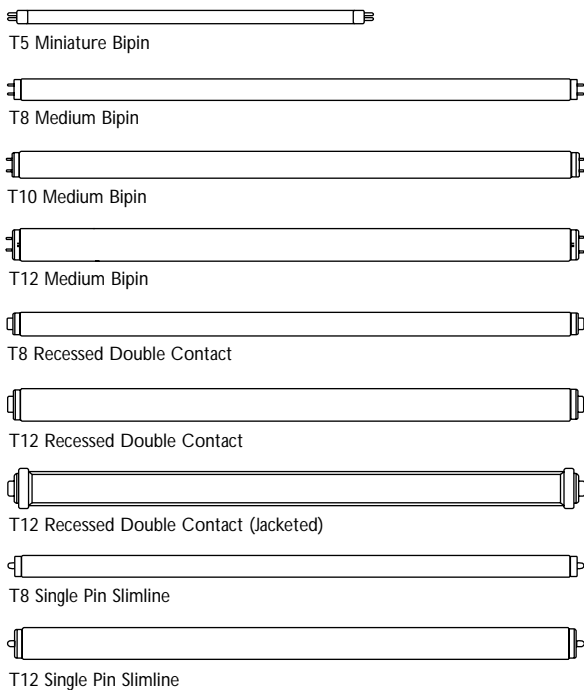
Fluorescent Base Types and Bulb Shapes

Base Types (Not Actual Sizes)



Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T12" indicates a tubular shaped bulb having a diameter of $\frac{12}{8}$ or $1\frac{1}{2}$ inches. The following illustrations show some of the more popular bulb shapes and sizes.



Fluorescent Lamps Ordering Code Cross Reference Guide

Although certain fluorescent lamp types listed by Philips, General Electric and Sylvania have different ordering codes, they are physically and electrically interchangeable. For your convenience, we are listing a direct type comparison between manufacturers. In the Econ-o-watt® line only Philips makes an F40/EW-PH lamp for preheat installations.

Philips	General Electric	Osram/Sylvania
F15T8/CW/24 F16T8/CW/26 F17T8/CW/28 F18T8/CW/30 F20T12/CW (6 Pack) F25T12/CW F30T12/CW/RS/EW	F24T8/CW/4 F26T8/CW/4 F28T8/CW/4 F30T8/CW/4 F20T12/CW (6 Pack) F25T12/CW/33 F30T12/CW/RS/WM	F18T8/CW/K/24 F18T8/CW/K/26 F18T8/CW/K/28 F18T8/CW/K/30 F20T12/CW/6 F25T12/CW/33 F30T12/CW/RS/SS
TL 70 F17T8/TL741 F25T8/TL741 F32T8/TL741 F40T8/TL741 F96T8/TL741 FB32T8/TL741	Trimline F17T8/SP41/RS F25T8/SP41/RS F32T8/SP41/RS F40T8/SP41/RS F96T8/SP41 F32T8/SP41/U/6	Octron FO17/741 FO25/741 FO32/741 FO40/741 FO96T8/741 FB032/741/6
TL 80 F17T8/TL841 F25T8/TL841 F32T8/TL841 F40T8/TL841 F96T8/TL841 FB32T8/TL841	F17T8/SPX41 F25T8/SPX41 F32T8/SPX41 F40T8/SPX41 F96T8/SPX41 F32T8/SPX41/U/6	FO17/841 FO25/841 FO32/841 FO40/841 FO96/841 FB032/841/6
F40CW/RS/EW F40AX41 F40LW/RS/EW F40/SPEC41 F40/41U F96T12/CW/EW F96T12/CW/HO/EW F96T12/CW/HO-O F96T12/CW/VHO/EW FB40CW/6/EW FB40CW/3 FB40CW/6 F48T12/CW/VHO — F72T12/CW/VHO — F96T12/CW/VHO — F48T12/CW/VHO-O — F60T12/CW/VHO-O F72T12/CW/VHO-O F96T12/CW/VHO-O FJ48T12/CW/VHO-O FJ60T12/CW/VHO-O FJ72T12/CW/VHO-O FJ96T12/CW/VHO-O	F40CW/RS/WM F40SPX41/XL F40LW/RS/WM-11 F40/SP41 F40/SPX41 F96T12/CW/WM F96T12/CW/HO/WM F96T12/CW/HO/CT F96PG17/CW/WM F40CW/U/6/WM FB40CW/U/3 F40CW/U/6 F48T12/CW/1500 F48PG17/CW F72T12/CW/1500 F72PG17/CW F96T12/CW/1500 F96PG17/CW F48T12/CW/1500/0 — F60T10/CW F72T12/CW/1500/0 F96T12/CW/1500/0 F48T10J/CW F60T10J/CW F72T10J/CW F96T10J/CW	F40CW/RS/SS — F40LW/RS/SS F40/D41 F40/D841 F96T12/CW/SS F96T12/CW/HO/SS — F96T12/CW/VHO/SS FB40CW/6/SS — FB40/CW/6* F48T12/CW/VHO — F72T12/CW/VHO — F96T12/CW/VHO — F48T12/CW/VHO/LT F48T12/CW/VHO/O — F72T12/CW/VHO/LT F96T12/CW/VHO/LT FJ48T12/CW/VHO/LT — FJ72T12/CW/VHO/LT FJ96T12/CW/VHO/LT

Fluorescent Lamps Color Cross Reference Guide

Philips	General Electric	Osram/Sylvania
SPEC 30 or 730 SPEC 35 or 735 SPEC 41 or 741	SP 30 SP 35 SP 41	D 30 D 35 D 41
Ultralume 27 or 27U 30U or 830 35U or 835 41U or 841	SPX 27 SPX 30 SPX 35 SPX 41	Designer 800 27K D 830 D 835 D 841
C50	C50	DSGN50

This table is to be used as a guide only. Colors may represent the nearest equivalent rather than an identical match.

