

Philips PL-C 2-Pin Compact Fluorescent Lamps featuring ALTO Lamp Technology

Ideal for downlights and wall washers in general lighting and wall sconces in decorative lighting

PL Lamps





- † This lamp is better for the environment because of its reduced mercury content. All Philips ALTO® lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.
- * Fluorescent lamps that are TCLP compliant reduce the amount of pollutants released into the environment.

High color rendering, high efficacy, long life lamps

Philips PL-C 2-Pin Compact Fluorescent Lamps featuring ALTO Lamp Technology are a sustainable lighting solution for general lighting.

Quad tube design

• Compact design: available in 13W, 18W, and 26W

10,000 hours rated average life¹

PL-C 15mm 2-pin lamps also available (not TCLP compliant)

 Available in 22W and 28W (2700K only) with low starting temperature (-20°F) ideal for outdoor applications

Excellent color rendering and broad range of color temperature

• 82 color rendering index (CRI) available in 2700, 3000, 3500 and 4100K

Sustainable solution

I.4mg of mercury**

1) 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.

** Does not include PL-C 15mm 2-pin lamps



Philips PL-C 2-Pin Compact Fluorescent Lamps featuring ALTO Lamp Technology

Ordering, Electrical and Technical Data (Subject to change without notice)

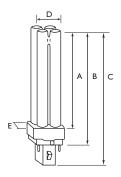
Product Number	Ordering Code	Watts	Base	Description	Std. Pack. Qty.	Color Temp. (K)	MOL (ln.)	Rated Avg. Life (3-Hr. Start) ¹	Approx. Initial Lumens ²	Design Lumens ³	CRI
38310-9	PL-C 13W/827/USA/ALTO	13	GX23-2	CFQ13W/GX23/827	10	2700	4%	10,000	860	735	82
38311-7	PL-C 13W/830/USA/ALTO	13	GX23-2	CFQ13W/GX23/830	10	3000	4%	10,000	860	735	82
38312-5	PL-C 13W/835/USA/ALTO	13	GX23-2	CFQ13W/GX23/835	10	3500	4%	10,000	860	735	82
38313-3	PL-C 13W/841/USA/ALTO	13	GX23-2	CFQ13W/GX23/841	10	4100	4%	10,000	860	835	82
38314-1	PL-C 13W/827/ALTO*	13	G24d-I	CFQ13W/G24d/827	10	2700	5½	10,000	900	770	82
38316-6	PL-C 18W/827/ALTO	18	G24d-2	CFQ18W/G24d/827	10	2700	6	10,000	1250	1070	82
38317-4	PL-C 18W/830/ALTO	18	G24d-2	CFQ18W/G24d/830	10	3000	6	10,000	1250	1070	82
38318-2	PL-C 18W/835/ALTO	18	G24d-2	CFQ18W/G24d/835	10	3500	6	10,000	1250	1070	82
38319-0	PL-C 18W/841/ALTO	18	G24d-2	CFQ18W/G24d/841	10	4100	6	10,000	1250	1070	82
38321-6	PL-C 26W/827/ALTO	26	G24d-3	CFQ26W/G24d/827	10	2700	613/16	10,000	1800	1545	82
38322-4	PL-C 26W/830/ALTO	26	G24d-3	CFQ26W/G24d/830	10	3000	613/16	10,000	1800	1545	82
38323-2	PL-C 26W/835/ALTO	26	G24d-3	CFQ26W/G24d/841	10	3500	613/16	10,000	1800	1545	82
38324-0	PL-C 26W/841/ALTO	26	G24d-3	CFQ26W/G24d/841	10	4100	613/16	10,000	1800	1545	82
Philips PL-C 15mm 2-Pin Compact Fluorescent Lamps (not available with ALTO Lamp Technology)											
24168-7	PL-C 15mm/22W/827	22	GX32d-2	CFQ20W/GX32d/827	40	2700	6	10,000	1200	995	82
24169-5	PL-C 15mm/28W/827	28	GX32d-3	CFQ27W/GX32d/827	40	2700	613/16	10,000	1600	1325	82
	Number 38310-9 38311-7 38312-5 38313-3 38314-1 38316-6 38317-4 38318-2 38319-0 38321-6 38322-4 38323-2 38324-0 Philips PL 24168-7	Number Code 38310-9 PL-C 13W/827/USA/ALTO 38311-7 PL-C 13W/830/USA/ALTO 38312-5 PL-C 13W/835/USA/ALTO 38313-3 PL-C 13W/827/ALTO* 38314-1 PL-C 13W/827/ALTO* 38316-6 PL-C 18W/827/ALTO 38317-4 PL-C 18W/830/ALTO 38318-2 PL-C 18W/835/ALTO 38319-0 PL-C 18W/841/ALTO 38321-6 PL-C 26W/827/ALTO 38321-6 PL-C 26W/827/ALTO 38321-0 PL-C 26W/821/ALTO 38322-4 PL-C 26W/830/ALTO 38323-2 PL-C 26W/831/ALTO 38324-0 PL-C 26W/841/ALTO Philips PL-C 15mm 2-Pin Compact Flue 24168-7 PL-C 15mm/22W/827	Number Code Watts 38310-9 PL-C 13W/827/USA/ALTO 13 38311-7 PL-C 13W/830/USA/ALTO 13 38312-5 PL-C 13W/835/USA/ALTO 13 38313-3 PL-C 13W/821/USA/ALTO 13 38314-1 PL-C 13W/827/ALTO* 13 38316-6 PL-C 18W/827/ALTO 18 38317-4 PL-C 18W/830/ALTO 18 38318-2 PL-C 18W/835/ALTO 18 38319-0 PL-C 18W/841/ALTO 18 38321-6 PL-C 26W/827/ALTO 26 38322-4 PL-C 26W/830/ALTO 26 38323-2 PL-C 26W/835/ALTO 26 38324-0 PL-C 26W/841/ALTO 26 Philips PL-C 15mm 2-Pin Compact Fluorescent 24168-7 PL-C 15mm/22W/827 22	Number Code Watts Base 38310-9 PL-C 13W/827/USA/ALTO 13 GX23-2 38311-7 PL-C 13W/830/USA/ALTO 13 GX23-2 38312-5 PL-C 13W/835/USA/ALTO 13 GX23-2 38313-3 PL-C 13W/821/USA/ALTO 13 GX23-2 38314-1 PL-C 13W/827/ALTO* 13 G24d-1 38317-4 PL-C 18W/827/ALTO 18 G24d-2 38318-2 PL-C 18W/835/ALTO 18 G24d-2 38319-0 PL-C 18W/841/ALTO 18 G24d-2 38321-6 PL-C 26W/830/ALTO 26 G24d-3 38319-0 PL-C 26W/830/ALTO 26 G24d-3 38322-4 PL-C 26W/835/ALTO 26 G24d-3 38323-2 PL-C 26W/835/ALTO 26 G24d-3 38324-0 PL-C 26W/841/ALTO 26 G24d-3 38324-0 PL-C 26W/841/ALTO 26 G24d-3 38324-7 PL-C 15mm/22W/827 22 GX32d-2	Number Code Watts Base Description 38310-9 PL-C 13W/827/USA/ALTO 13 GX23-2 CFQ13W/GX23/827 38311-7 PL-C 13W/830/USA/ALTO 13 GX23-2 CFQ13W/GX23/830 38312-5 PL-C 13W/835/USA/ALTO 13 GX23-2 CFQ13W/GX23/835 38313-3 PL-C 13W/821/IALTO 13 GX23-2 CFQ13W/GX23/841 38314-1 PL-C 13W/827/IALTO* 13 G24d-1 CFQ13W/G24d/827 38316-6 PL-C 18W/827/IALTO 18 G24d-2 CFQ18W/G24d/827 38317-4 PL-C 18W/835/ALTO 18 G24d-2 CFQ18W/G24d/830 38318-2 PL-C 18W/835/ALTO 18 G24d-2 CFQ18W/G24d/835 38319-0 PL-C 18W/821/ALTO 26 G24d-3 CFQ26W/G24d/841 38321-6 PL-C 26W/835/ALTO 26 G24d-3 CFQ26W/G24d/830 38322-4 PL-C 26W/835/ALTO 26 G24d-3 CFQ26W/G24d/841 38323-2 PL-C 26W/835/ALTO 26 G24d-3 CFQ26W/G24d/841	Product Number Ordering Code Watts Base Description Pack. 38310-9 PL-C 13W/827/USA/ALTO 13 GX23-2 CFQ13W/GX23/827 10 38311-7 PL-C 13W/830/USA/ALTO 13 GX23-2 CFQ13W/GX23/830 10 38312-5 PL-C 13W/841/USA/ALTO 13 GX23-2 CFQ13W/GX23/835 10 38313-3 PL-C 13W/827/ALTO* 13 GX23-2 CFQ13W/GX24/827 10 38314-1 PL-C 13W/827/ALTO* 13 G24d-1 CFQ18W/G24d/827 10 38317-4 PL-C 18W/827/ALTO 18 G24d-2 CFQ18W/G24d/830 10 38318-2 PL-C 18W/830/ALTO 18 G24d-2 CFQ18W/G24d/830 10 38319-0 PL-C 18W/841/ALTO 18 G24d-2 CFQ18W/G24d/835 10 38321-6 PL-C 26W/827/ALTO 26 G24d-3 CFQ26W/G24d/827 10 38322-4 PL-C 26W/830/ALTO 26 G24d-3 CFQ26W/G24d/841 10 38323-2 PL-C 26W/830/ALTO 26	Product Number Code Watts Base Description Qty. (K)	Product Number Code Watts Base Description Qty. (K) (In.)	Product Number Ordering Code Watts Base Description Temp. (K) MOL (In.) Avg. Life (3-Hr. Start)¹ 38310-9 PL-C 13W/827/USA/ALTO 13 GX23-2 CFQ13W/GX23/827 10 2700 4½ 10,000 38311-7 PL-C 13W/830/USA/ALTO 13 GX23-2 CFQ13W/GX23/830 10 3000 4½ 10,000 38312-5 PL-C 13W/835/USA/ALTO 13 GX23-2 CFQ13W/GX23/835 10 3500 4½ 10,000 38313-3 PL-C 13W/827/ALTO* 13 GX23-2 CFQ13W/GX23/841 10 4100 4½ 10,000 38314-1 PL-C 13W/827/ALTO* 13 GX24-2 CFQ13W/GX24/827 10 2700 5½ 10,000 38316-6 PL-C 18W/827/ALTO 18 G24d-2 CFQ18W/G24d/827 10 2700 6 10,000 38318-2 PL-C 18W/830/ALTO 18 G24d-2 CFQ18W/G24d/830 10 3500 6 10,000 38321-6 PL-C 18W/841/ALTO 18 </td <td>Product Number Ordering Number Watts Base Description Pack. (K) Temp. (In.) MOL (3-Hr. Start)¹ Lumens² 38310-9 PL-C I3W/827/USA/ALTO 13 GX23-2 CFQ13W/GX23/827 10 2700 4⅓ 10,000 860 38311-7 PL-C I3W/830/USA/ALTO 13 GX23-2 CFQ13W/GX23/830 10 3000 4⅓ 10,000 860 38312-5 PL-C I3W/835/USA/ALTO 13 GX23-2 CFQ13W/GX23/835 10 3500 4⅙ 10,000 860 38313-3 PL-C I3W/821/USA/ALTO* 13 GX23-2 CFQ13W/GX23/841 10 4100 4⅙ 10,000 860 38314-1 PL-C I3W/827/ALTO* 13 GX24-2 CFQ13W/GX24/827 10 2700 5½ 10,000 900 38316-6 PL-C I8W/827/ALTO 18 G24d-2 CFQ18W/G24d/827 10 2700 6 10,000 1250 38318-2 PL-C I8W/835/ALTO 18 G24d-2 CFQ18W/G24d/835 10</td> <td>Product Number Ordering Code Watts Base Description Qty. Temp. (K) MOL (In.) Avg. Life (3-Hr. Start)! 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¹⁾ 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.

Lamp Dimensions

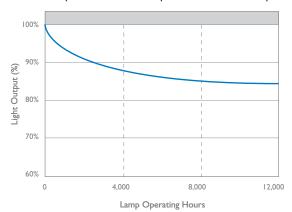
Philips PL-C 2-Pin Compact Fluorescent Lamps

	PL-C 13W/USA		PL-C 13VV		PL-C 18VV		PL-C 26VV		PL-C 15mm/22W		PL-C 15mm/28W	
	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches		Inches	
Α	3.2	82	3.9	99	4.4	111	5.2	132	4.1	105	4.7	121
В	3.8	98	4.6	117	5.1	129	5.9	150	5.1	130	5.7	146
С	4.7	120	5.5	140	6.0	152	6.8	173	6.0	154	6.8	172
D	1.1	28	1.1	28	1.1	28	1.1	28	1.5	37	1.5	37
Е	1.4	35	1.4	35	1.4	35	1.4	35	1.8	45	1.8	45



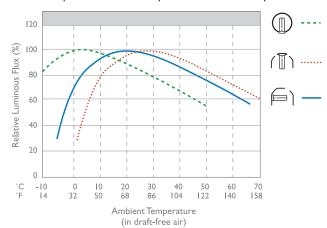
85% Lumen Maintenance

Philips PL-C 2-Pin Compact Fluorescent Lamps



Luminous Flux vs. Burning Positions

Philips PL-C 2-Pin Compact Fluorescent Lamps



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²⁾ 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.

³⁾ 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.

^{*} PL-C 13W/827 is physically and electrically incompatible with more popular PL-C 13W/827/USA types.

[•] This lamp is better for the environment because of its reduced mercury content. All Philips ALTO lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.