

Philips PL-C 2-Pin Compact Fluorescent Lamps

featuring ALTO® Lamp Technology

High Color Rendering, High Efficacy, Long Life Lamps



Photo © Z. Jedrus

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

Enhanced Performance

- PL-C 2-Pin has 80% light output between 55°F and 127°F¹
- PL-C 2-Pin has 80% lumen maintenance at 9,000 hrs²

Quad Tube Design

Very compact design: available in 13W, 18W, and 26W

10,000 Hour Rated Average Life³

PL-C 15MM 2-Pin Lamps Also Available (not TCLP⁴ 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

ALTO® Lamp Technology

Passes EPA's TCLP⁴ test for non-hazardous waste

1) 80% light output in a base-up position

2) 80% lumen maintenance on conventional gear (inductive)

3) 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.

4) Toxic Characteristic Leaching Procedure



PHILIPS

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

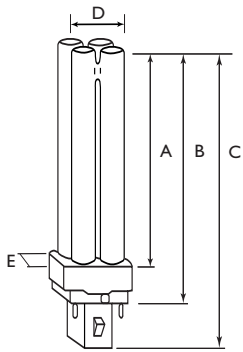
Product Number	Ordering Code	Watts	Bulb	Base	Generic Description	Pkg. Qty.	Color Temp. (Kelvin)	MOL (In.)	Rated Avg. Life (Hrs.) ¹	Approx. Initial Lumens ²	Design Lumens ³	CRI
38310-9	PL-C 13W/827/USA/ALTO	13	PL-C	GX23-2	CFQ13W/GX23/827	10	2700	4%	10,000	860	735	82
38311-7	PL-C 13W/830/USA/ALTO	13	PL-C	GX23-2	CFQ13W/GX23/830	10	3000	4%	10,000	860	735	82
38312-5	PL-C 13W/835/USA/ALTO	13	PL-C	GX23-2	CFQ13W/GX23/835	10	3500	4%	10,000	860	735	82
38313-3	PL-C 13W/841/USA/ALTO	13	PL-C	GX23-2	CFQ13W/GX23/841	10	4100	4%	10,000	860	835	82
38314-1	PL-C 13W/827/ALTO*	13	PL-C	G24d-1	CFQ13W/G24d/827	10	2700	5½%	10,000	900	770	82
38315-8	PL-C 13W/830/ALTO*	13	PL-C	G24d-1	CFQ13W/G24d/830	10	3000	5½%	10,000	900	770	82
38316-6	PL-C 18W/827/ALTO	18	PL-C	G24d-2	CFQ18W/G24d/827	10	2700	6	10,000	1250	1070	82
38317-4	PL-C 18W/830/ALTO	18	PL-C	G24d-2	CFQ18W/G24d/830	10	3000	6	10,000	1250	1070	82
38318-2	PL-C 18W/835/ALTO	18	PL-C	G24d-2	CFQ18W/G24d/835	10	3500	6	10,000	1250	1070	82
38319-0	PL-C 18W/841/ALTO	18	PL-C	G24d-2	CFQ18W/G24d/841	10	4100	6	10,000	1250	1070	82
38321-6	PL-C 26W/827/ALTO	26	PL-C	G24d-3	CFQ26W/G24d/827	10	2700	6½%	10,000	1800	1545	82
38322-4	PL-C 26W/830/ALTO	26	PL-C	G24d-3	CFQ26W/G24d/830	10	3000	6½%	10,000	1800	1545	82
38323-2	PL-C 26W/835/ALTO	26	PL-C	G24d-3	CFQ26W/G24d/841	10	3500	6½%	10,000	1800	1545	82
38324-0	PL-C 26W/841/ALTO	26	PL-C	G24d-3	CFQ26W/G24d/841	10	4100	6½%	10,000	1800	1545	82

Philips PL-C 15mm 2-Pin Compact Fluorescent Lamps (not available with ALTO® Lamp Technology)

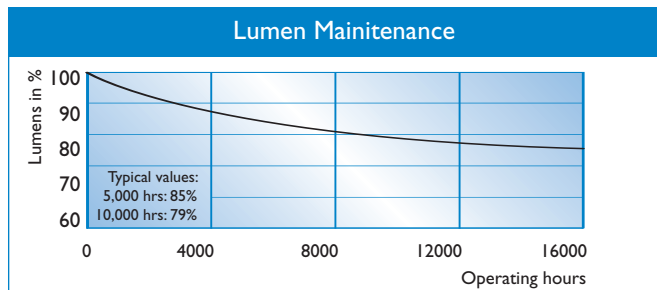
Electrical, Technical and Ordering Data (Subject to change without notice)

Product Number	Ordering Code	Watts	Bulb	Base	Generic Description	Pkg. Qty.	Color Temp. (Kelvin)	Rated MOL (In.)	Avg. Life (Hrs.) ¹	Approx. Initial Lumens ²	Design Lumens ³	CRI
20478-4	PL-C 15mm/22W/827	20	PL-C	GX32d-2	CFQ20W/GX32d/827	40	2700	6	10,000	1200	995	82
20479-2	PL-C 15mm/28W/827	27	PL-C	GX32d-3	CFQ27W/GX32d/827	40	2700	6½%	10,000	1600	1325	82

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.
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/27 is physically and electrically incompatible with more popular PL-C 13W/27/USA types.



	PL-C 13W/USA Inches (mm)	PL-C 13W Inches (mm)	PL-C 18W Inches (mm)	PL-C 26W Inches (mm)	PL-C 15mm/22W Inches (mm)	PL-C 15mm/28W Inches (mm)
A	3.2 82	3.9 99	4.4 111	5.2 132	4.1 105	4.7 121
B	3.8 98	4.6 117	5.1 129	5.9 150	5.1 130	5.7 146
C	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
E	1.4 35	1.4 35	1.4 35	1.4 35	1.8 45	1.8 45



PL mp Specification

Lamps shall be Philips PL-C 2 pin lamps having:

- Color rendering index of 82
- _____ base (GX23-2, G24d-1, G24d-2, G24d-3, GX32d-2 or GX32d-3)
- Color temperature of _____ (2700K, 3000K, 3500K, 4100K)
- Nominal Wattage _____ (13, 18, 20, 26, 27)
- Tubes connected by bridge weld for optimal thermal characteristics

