

Philips PL-S 2-Pin Compact Fluorescent Lamps

featuring ALTO® Lamp Technology

The Original Compact Fluorescent Lamp



They are ideal for recessed and surface mounted downlights, task lighting, corridor, security and general lighting

▶ High Lamp Efficacy

Lower energy costs

▶ 10,000 Hour Rated Average Life¹

▶ Trichromatic Phosphors

Provide high quality of light

▶ Designed for Use with Magnetic Ballasts

Integral starter cuts installation wiring costs and permits use of small choke ballasts

▶ Offered in 2700K, 3000K, 3500K, 4100K & 5000K, with 82 CRI

Choice of warm, neutral or cool tones to evoke a mood or enhance the desired ambiance

▶ Integral Starter in Base

Enables use of small choke ballasts for attractive, compact luminaires and incandescent retrofit applications

▶ ALTO® Lamp Technology

Passes EPA's TCLP² test for non-hazardous waste

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) The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

† This product utilizes ALTO® Lamp Technology. ALTO products pass the U.S. EPA's Toxicity Characteristic Leaching Procedure (TCLP) and can be classified as non-hazardous waste. Check with state and local regulations regarding disposal.



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PHILIPS

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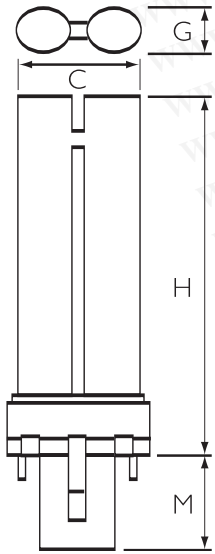
Electrical, Technical and Ordering Data (Subject to change without notice)

Old Product Number	New 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
33233-8	14671-2	PL-S 5W/827/2P/ALTO	5	PL-S	G23	CFT5W/G23/827	10	2700	4½	10,000	250	210	82
NEW!	14868-4	PL-S 5W/841/2P/ALTO	5	PL-S	G23	CFT5W/G23/841	10	4100	4½	10,000	250	210	82
34256-8	14871-8	PL-S 7W/827/2P/ALTO	7	PL-S	G23	CFT7W/G23/827	10	2700	5½	10,000	400	360	82
32780-9	14872-6	PL-S 7W/835/2P/ALTO	7	PL-S	G23	CFT7W/G23/835	10	3500	5½	10,000	400	360	82
33869-9	14873-4	PL-S 7W/841/2P/ALTO	7	PL-S	G23	CFT7W/G23/841	10	4100	5½	10,000	400	360	82
33384-9	14874-2	PL-S 7W/850/2P/ALTO	7	PL-S	G23	CFT7W/G23/850	10	5000	5½	10,000	380	340	82
34257-6	14867-6	PL-S 9W/827/2P/ALTO	9	PL-S	G23	CFT9W/G23/827	10	2700	6½	10,000	600	540	82
32786-6	14869-2	PL-S 9W/835/2P/ALTO	9	PL-S	G23	CFT9W/G23/835	10	3500	6½	10,000	600	540	82
33870-7	14870-0	PL-S 9W/841/2P/ALTO	9	PL-S	G23	CFT9W/G23/841	10	4100	6½	10,000	600	540	82
33385-6	14680-3	PL-S 9W/850/2P/ALTO	9	PL-S	G23	CFT9W/G23/850	10	5000	6½	10,000	570	510	82
26219-6	14681-1	PL-S 13W/827/2P/ALTO	13	PL-S	GX23	CFT13W/GX23/827	10	2700	7¼	10,000	825	740	82
26212-1	14682-9	PL-S 13W/827/2P/ALTO BULK	13	PL-S	GX23	CFT13W/GX23/827	50	2700	7¼	10,000	825	740	82
26202-2	14683-7	PL-S 13W/830/2P/ALTO	13	PL-S	GX23	CFT13W/GX23/830	10	3000	7¼	10,000	825	740	82
26214-7	14684-5	PL-S 13W/835/2P/ALTO	13	PL-S	GX23	CFT13W/GX23/835	10	3500	7¼	10,000	825	740	82
26213-9	14685-2	PL-S 13W/841/2P/ALTO	13	PL-S	GX23	CFT13W/GX23/841	10	4100	7¼	10,000	825	740	82
26229-5	14686-0	PL-S 13W/841/2P/ALTO BULK	13	PL-S	GX23	CFT13W/GX23/841	50	4100	7¼	10,000	825	740	82
26216-2	14687-8	PL-S 13W/850/2P/ALTO	13	PL-S	GX23	CFT13W/GX23/850	10	5000	7¼	10,000	800	720	82
14308-1	14688-6	PL-S 13W/850/2P/ALTO BULK	13	PL-S	GX23	CFT13W/GX23/850	50	5000	7¼	10,000	800	720	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-S Lamp Dimensions: Inches (mm)				
	5W	7W	9W	13W
C	1.1 (28)	1.1 (28)	1.1 (28)	1.1 (28)
G	0.6 (13)	0.6 (13)	0.6 (13)	0.6 (13)
H	3.3 (83)	4.5 (113)	5.7 (145)	6.2 (156)
M	0.9 (23)	0.9 (23)	0.9 (23)	0.9 (23)

PL-S 2-Pin Lamp Specification

Lamps shall be Philips PL-S 2 Pin lamps having:

- Color rendering index of 82
- _____ base (G23 or GX23)
- Color temperature of _____ (2700K, 3000K, 3500K, 4100K, 5000K)
- Nominal Wattage _____ (5, 7, 9, 13)
- Tubes connected by bridge weld for optimal thermal characteristics



Compact fluorescent lamps non-integrated

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PL-S PRO 2 Pins

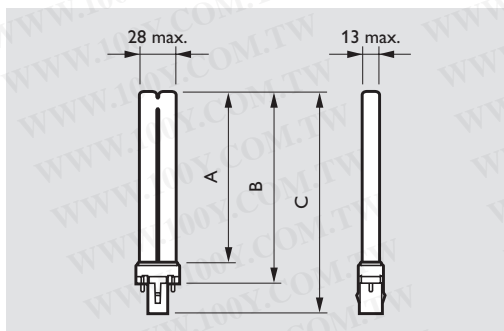


The PL-S PRO 2-pin range of lamps forms part of the compact fluorescent non-integrated family of lamps. Compact long-arc low-pressure mercury discharge lamp with a clear glass envelope consisting of two parallel narrow fluorescent tubes welded together near the ends. It has a two-pin base with a housing incorporating the special instant starter and capacitor, and operates on conventional ballasts. It is equipped with two pre-heated tungsten electrodes and filled with a mixture of saturated mercury vapour and an inert buffer gas.

Dimming is not possible. The lamp characteristics are influenced by operating conditions and control gear used. A radio-interference suppression capacitor is installed. The lamp performance is strongly governed by the temperature of the coolest spot, which is influenced by the lamp position.

Applications

- Hotels, restaurants, homes and theatres.
- Signs, corridors, security and orientation lighting.



Dimensions in mm

Type	A max.	B max.	C max.
PL-S 5W/2P	67	83	105
PL-S 7W/2P	97	113	135
PL-S 9W/2P	129	145	167
PL-S 11W/2P	198	214	236

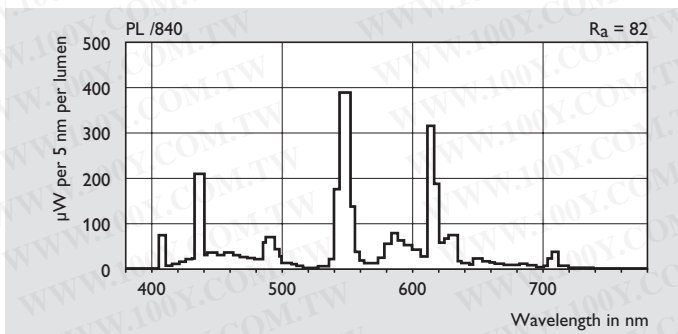
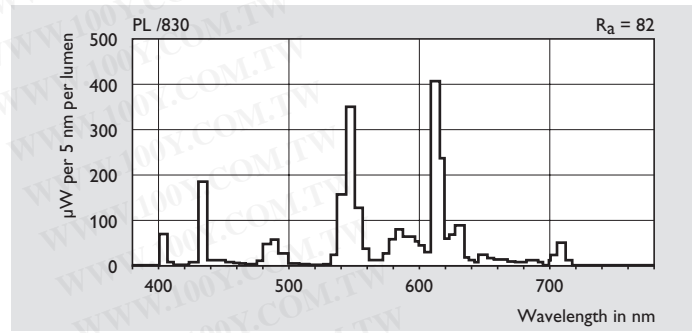
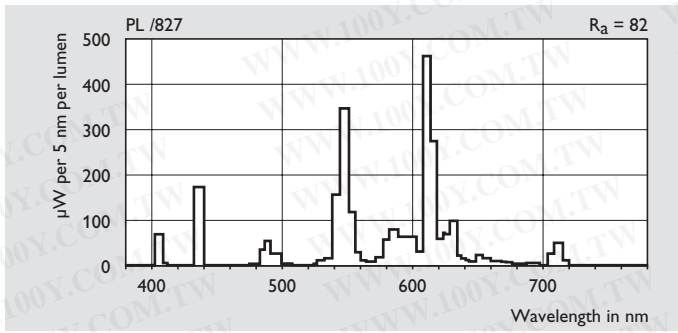
Commercial name	Type	Cap/ base	Lamp voltage	Lamp wattage	Lamp current	Lumen output	Efficacy	Corr. colour temp.	Chromaticity coordinates		Colour designation	Lumen maint. 2000hrs	Lumen maint. 5000hrs	Nett weight	EOC	
			V	W	mA	lm	lm/W	K	x	y		%	%	g		
/827																
PL-S PRO	PL-S PRO	5W/827/2P	G23	35	5.4	180	250	46	2700	455	417	INCAND.LIGHT	85	75	30	706768
PL-S PRO	PL-S PRO	7W/827/2P	G23	47	7.1	175	400	56	2700	455	417	INCAND.LIGHT	90	80	35	706775
PL-S PRO	PL-S PRO	9W/827/2P	G23	60	8.7	170	600	69	2700	455	417	INCAND.LIGHT	90	85	41	706799
PL-S PRO	PL-S PRO	11W/827/2P	G23	91	11.8	155	900	76	2700	455	417	INCAND.LIGHT	95	90	58	706652
/830																
PL-S PRO	PL-S PRO	7W/830/2P	G23	47	7.1	175	400	56	3000	435	401	WARM WHITE	90	80	35	707185
PL-S PRO	PL-S PRO	9W/830/2P	G23	60	8.7	170	600	69	3000	435	401	WARM WHITE	90	85	41	707208
PL-S PRO	PL-S PRO	11W/830/2P	G23	91	11.8	155	900	76	3000	435	401	WARM WHITE	95	90	58	707222
/840																
PL-S PRO	PL-S PRO	5W/840/2P	G23	35	5.5	180	250	46	4000	381	379	COOL WHITE	85	75	30	610003
PL-S PRO	PL-S PRO	7W/840/2P	G23	47	7.1	175	400	56	4000	381	379	COOL WHITE	90	80	35	706782
PL-S PRO	PL-S PRO	9W/840/2P	G23	60	8.7	170	600	69	4000	381	379	COOL WHITE	90	85	41	706805
PL-S PRO	PL-S PRO	11W/840/2P	G23	91	11.8	155	900	76	4000	381	379	COOL WHITE	95	90	58	706669



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PL-S PRO 2 Pins



Spectral power distributions

