



A new age in outdoor city lighting

CosmoPolis CosmoWhite

Philips Cosmopolis Outdoor Lighting System simplifies outdoor lighting with the combination of a miniature lamp and an optimized electronic ballast system.

Benefits

- Energy efficiency and long, dependable service, not only to reduce your lighting cost of ownership but also to address environmental concerns.
- Improved visibility and enhanced ambience to attract people back into your city centers at night.
- \cdot Miniaturization enables unobtrusive lighting and exciting new luminaire designs.

Features

- · Crisp, white light.
- · Rated average life of 30,000 hours*
- Compact system allows for smaller, lightweight luminaires, using light-duty poles, and uses less raw materials to conserve resources.
- · Increased luminous efficacy.
- · Available in 60, 90 and 140 watts.
- * Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average. 30,000 hours rated average life at horizontal application. For vertical application, rated average life for 90W and 140W is 20,000 hours, while rated average life for 60W is 15,000 hours.

Application

- · Ideal for indoor and outdoor applications of industrial facilities and warehouses
- Lamp optimized for horizontal position; when positioned vertically, the lifetime specification is much lower (as much as - 40%)

Warnings and Safety

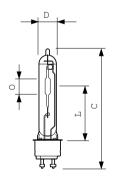
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)
- · Lamp contains mercury.
- · Manage in Accord with Disposal Laws.
- See: www.lamprecycle.org or 1-800-555-0050

Versions



140.0 W PGZ12 T 19mm Clear CCT of 2800K

Dimensional drawing



Product	D (max)	D	0	L	C (max)
CPO-TW 60W/728 White PGZ12	13/16 in	3/4 in	9/16 in	2-3/8 in	5-1/4 in
CPO-TW 140W/728 White PGZ12	13/16 in	3/4 in	7/8 in	2-5/8 in	5-15/16 in
CPO-TW 90W/728 White PGZ12	13/16 in	3/4 in	3/4 in	2-5/8 in	5-5/8 in

Controls and dimming	
Dimmable	Yes
Operating and electrical	
Re-Ignition Time (Min) (Max)	900 s
General information	
Cap-Base	PGZ12
LSF 12000 h Rated	99 %
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
Operating Position	Universal
Light technical	
Color Code	728
Color Designation	White (WH)
Mechanical and housing	
Bulb Finish	Clear

Approval and application

			Mercury (Hg) Content
Order Code	Full Product Name	Energy Consumption kWh/1000 h	(Nom)
157313	CPO-TW 60W/728 White PGZ12	66 kWh	2.0 mg
406041	CPO-TW 90W/728 White PGZ12	99 kWh	3.0 mg
157321	CPO-TW 140W/728 White PGZ12	154 kWh	3.9 mg

Operating and electrical

Order		Voltage	Voltage	Voltage	Power
Code	Full Product Name	(Max)	(Min)	(Nom)	(Nom)
157313	CPO-TW 60W/728	99 V	85 V	92 V	60.0 W
	White PGZ12				
406041	CPO-TW 90W/728	98 V	86 V	92 V	90.0 W
	White PGZ12				

Order		Voltage	Voltage	Voltage	Power
Code	Full Product Name	(Max)	(Min)	(Nom)	(Nom)
157321	CPO-TW 140W/728	100 V	88 V	94 V	141.0 W
	White PGZ12				

General information (1/2)

		Life To 10%	Life To 20%	Life To 50%	Life To 5%
Order	Full Product	Failures	Failures	Failures	Failures
Code	Name	(Nom)	(Nom)	(Nom)	(Nom)
157313	CPO-TW	24000 h	27000 h	32000 h	21500 h
	60W/728 White				
	PGZ12				
406041	CPO-TW	24000 h	27000 h	32000 h	21500 h
	90W/728 White				
	PGZ12				

		Life To 10%	Life To 20%	Life To 50%	Life To 5%
Order	Full Product	Failures	Failures	Failures	Failures
Code	Name	(Nom)	(Nom)	(Nom)	(Nom)
157321	CPO-TW	20000 h	24000 h	30000 h	18000 h
	140W/728 White				
	PGZ12				

General information (2/2)

Order		LSF 16000	LSF 20000	LSF 24000	LSF 30000
Code	Full Product Name	h Rated	h Rated	h Rated	h Rated
157313	CPO-TW 60W/728 White PGZ12	99 %	97 %	90 %	63 %
406041	CPO-TW 90W/728 White PGZ12	99 %	97 %	90 %	63 %

Order		LSF 16000	LSF 20000	LSF 24000	LSF 30000
Code	Full Product Name	h Rated	h Rated	h Rated	h Rated
157321	CPO-TW 140W/728	97 %	90 %	80 %	50 %
	White PGZ12				

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
157313	CPO-TW 60W/728 White PGZ12	752 °F
406041	CPO-TW 90W/728 White PGZ12	878 °F

Order Code	Full Product Name	Bulb Temperature (Max)
157321	CPO-TW 140W/728 White PGZ12	1022 °F

Light technical (1/3)

		Chromaticity	Chromaticity	Color	Color
Order	Full Product	Coordinate X	Coordinate Y	Rendering	Rendering
Code	Name	(Nom)	(Nom)	Index (Min)	Index (Nom)
157313	CPO-TW	453	405	70	73
	60W/728				
	White PGZ12				
406041	CPO-TW	449	412	67	70
	90W/728				
	White PGZ12				

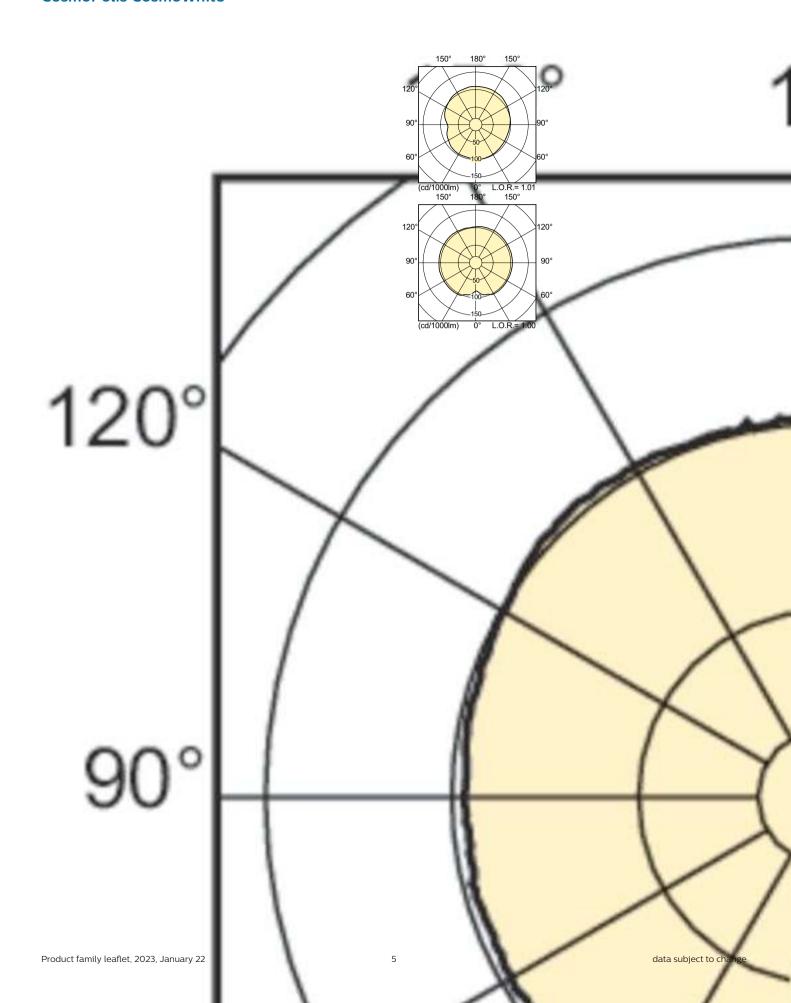
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Order	Full Product	Coordinate X	Coordinate Y	Rendering	Rendering
Code	Name	(Nom)	(Nom)	Index (Min)	Index (Nom)
157321	CPO-TW	440	413	-	72
	140W/728				
	White PGZ12				

Light technical (2/3)

Order		LLMF 12000 h	LLMF 16000 h	LLMF 2000 h	LLMF 20000 h	LLMF 24000	LLMF 30000	LLMF 4000 h	LLMF 6000 h	LLMF 8000 h
Code	Full Product Name	Rated	Rated	Rated	Rated	h Rated	h Rated	Rated	Rated	Rated
157313	CPO-TW 60W/728 White	89 %	87 %	92 %	86 %	84 %	82 %	90 %	90 %	90 %
	PGZ12									
406041	CPO-TW 90W/728 White	92 %	91%	94 %	90 %	-	-	93 %	93 %	93 %
	PGZ12									
157321	CPO-TW 140W/728	89 %	88 %	94 %	87 %	86 %	-	93 %	92 %	91 %
	White PGZ12									

Light technical (3/3)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)	Ratio Scotopic/ Photopic Lumens
157313	CPO-TW 60W/728 White PGZ12	120 lm/W	7200 lm	1.15
406041	CPO-TW 90W/728 White PGZ12	120 lm/W	10800 lm	1.15
157321	CPO-TW 140W/728 White PGZ12	125 lm/W	17600 lm	1.30





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