



# MASTER CosmoWhite CPO-TW & CPO-TW Xtra

## MASTER CosmoWhite CPO-TW Xtra 60W/728 PGZ12

New-generation ceramic metal halide lamps used in Outdoor offering efficient and pleasant white light

#### **Product data**

General Information		Light Technical
Cap-Base	PGZ12 [ PGZ12]	Color Code
Operating Position	UNIVERSAL [ Any or Universal (U)]	Luminous Flux (Rate
Life to 5% Failures (Nom)	21500 h	Color Designation
Life To 10% Failures (Nom)	24000 h	Chromaticity Coordi
Life to 20% Failures (Nom)	27000 h	Chromaticity Coordi
Life to 50% Failures (Nom)	32000 h	Luminous Efficacy (r
ANSI Code HID	C187/E	Color Rendering Ind
LSF 2000 h Rated	99 %	Color Rendering Ind
LSF 4000 h Rated	99 %	LLMF 2000 h Rated
LSF 6000 h Rated	99 %	LLMF 4000 h Rated
LSF 8000 h Rated	99 %	LLMF 6000 h Rated
LSF 12000 h Rated	99 %	LLMF 8000 h Rated
LSF 16000 h Rated	99 %	LLMF 12000 h Rate
LSF 20000 h Rated	97 %	LLMF 16000 h Rate
LSF 24000 h Rated	90 %	LLMF 20000 h Rate
LSF 30000 h Rated	63 %	LLMF 24000 h Rate
		LLME 30000 h Rate

Light Technical			
Color Code	728 [ CCT of 2800K]		
Luminous Flux (Rated) (Nom)	7200 lm		
Color Designation	White (WH)		
Chromaticity Coordinate X (Nom)	453		
Chromaticity Coordinate Y (Nom)	405		
Luminous Efficacy (rated) (Nom)	120 lm/W		
Color Rendering Index (Min)	70		
Color Rendering Index (Nom)	73		
LLMF 2000 h Rated	92 %		
LLMF 4000 h Rated	90 %		
LLMF 6000 h Rated	90 %		
LLMF 8000 h Rated	90 %		
LLMF 12000 h Rated	89 %		
LLMF 16000 h Rated	87 %		
LLMF 20000 h Rated	86 %		
LLMF 24000 h Rated	84 %		
LLMF 30000 h Rated	82 %		

## MASTER CosmoWhite CPO-TW & CPO-TW Xtra

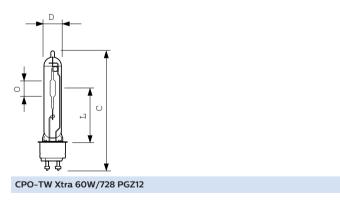
Ratio Scotopic/Photopic Lumen	<b>s</b> 1.15	UV				
		Pet (Niosh) (Min)	8 h/500lx			
Operating and Electrical		Pet (Niosh) (Nom)	19 h/500lx			
Power (Rated) (Nom)	60.0 W	Damage Factor D/fc (Nom)	0.17			
Ignition Peak Voltage (Max)	5000 V					
Re-Ignition Time (Min) (Max)	900 s	Luminaire Design Requireme	uminaire Design Requirements			
Ignition Time (Max)	30 s	Bulb Temperature (Max)	400 °C			
Voltage (Max)	99 V	Cap-Base Temperature (Max)	300 °C			
Voltage (Min)	85 V					
Voltage (Nom)	92 V	Product Data				
		Full product code	871150020851415			
Controls and Dimming		Order product name	MASTER CosmoWhite CPO-TW Xtra 60W/728 PGZ12			
Dimmable	Yes	EAN/UPC - Product	8711500208514			
Run-Up Time 90% (Max)	3 min	Order code	928088505127			
		Numerator - Quantity Per Pack	1			
Mechanical and Housing		Numerator - Packs per outer box	12			
Bulb Finish	Clear	Material Nr. (12NC)	928088505127			
		Net Weight (Piece)	0.034 kg			
Approval and Application		ILCOS Code	MT-60/728-H-PGZ12-20/132			
Energy Efficiency Label (EEL)	A+					
Mercury (Hg) Content (Nom)	2.0 mg					
Energy Consumption kWh/1000	<b>h</b> 66 kWh					

#### Warnings and Safety

• Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)

- $\cdot$  The luminaire must be able to contain hot lamp parts if the lamp ruptures
- $\cdot$  Use only with electronic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

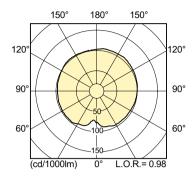
#### **Dimensional drawing**



F	Product	D (max)	D	0	L	C (max)
ſ	MASTER CosmoWhite CPO-TW Xtra	20 mm	19 mm	14 mm	59 mm	132 mm
6	50W/728 PGZ12					

### MASTER CosmoWhite CPO-TW & CPO-TW Xtra

#### Photometric data



300 ł - [(μ] 250 200 200 150 100 100 50 300 400 500 600 700 λ[nm]

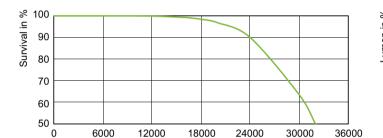
CPO-TW 60W

Lifetime



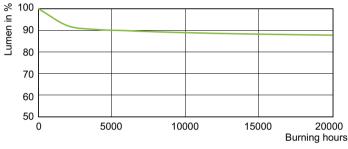






CPO-TW Xtra Life Expectancy 45 W /628, 60 W /728

MASTER CosmoWhite CPO-TW Xtra 60W /728



CPO-TW Xtra 60 W Lumen Maintenance /728



Burning hours

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