



# MASTER CosmoWhite CPO-TW & CPO-TW Xtra



# MASTER CosmoWhite CPO-TW Xtra 90W/728 PGZ12

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

#### **Warnings and Safety**

- · Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- · 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.

#### **Product data**

General information					
Cap-Base	PGZ12 [ PGZ12]				
Operating Position	UNIVERSAL [ Any or Universal (U)]				
Life to 5% Failures (Nom)	21500 h				
Life To 10% Failures (Nom)	24000 h				
Life to 20% Failures (Nom)	27000 h				
Life to 50% Failures (Nom)	32000 h				
ANSI Code HID	C188/E				
LSF 2000 h Rated	99 %				
LSF 4000 h Rated	99 %				

LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
LSF 12000 h Rated	99 %
LSF 16000 h Rated	99 %
LSF 20000 h Rated	97 %
LSF 24000 h Rated	90 %
LSF 30000 h Rated	63 %
Flux measurement reference	Sphere

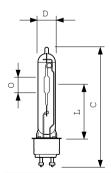
Datasheet, 2022, January 14 data subject to change

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

Light technical					
Color Code	728 [ CCT of 2800K]				
Luminous Flux (Nom)	10800 lm				
Luminous Flux (Rated) (Nom)	10800 lm				
Color Designation	White (WH)				
Chromaticity Coordinate X (Nom)	0.447				
Chromaticity Coordinate Y (Nom)	0.4				
Correlated Color Temperature (Nom)	2800 K				
Luminous Efficacy (rated) (Nom)	120 lm/W				
Color Rendering Index (Min)	67				
Color Rendering Index (Nom)	70				
LLMF 2000 h Rated	94 %				
LLMF 4000 h Rated	93 %				
LLMF 6000 h Rated	93 %				
LLMF 8000 h Rated	93 %				
LLMF 12000 h Rated	92 %				
LLMF 16000 h Rated	91 %				
LLMF 20000 h Rated	90 %				
Ratio Scotopic/Photopic Lumens	1.15				
Operating and electrical					
Power (Nom)	90.0 W				
Ignition Peak Voltage (Max)	5000 V				
Re-Ignition Time (Min) (Max)	900 s				
Ignition Time (Max)	30 s				
Voltage (Max)	98 V				
Voltage (Min)	86 V				
Voltage (Nom)	92 V				
Controls and dimming					
Dimmable	Yes				
Run-Up Time 90% (Max)	4 min				

Mechanical and housing					
Bulb Finish	Clear				
Bulb Shape	T19 [ T 19mm]				
Approval and application					
Energy Efficiency Class	E				
Mercury (Hg) Content (Max)	3 mg				
Mercury (Hg) Content (Nom)	3.0 mg				
Energy Consumption kWh/1000 h	90 kWh				
EPREL Registration Number	473351				
UV					
Pet (Niosh) (Min)	8 h/500lx				
Pet (Niosh) (Nom)	38 h/500lx				
Damage Factor D/fc (Nom)	0.18				
Luminaire design requirements					
Bulb Temperature (Max)	470 °C				
Cap-Base Temperature (Max)	300 ℃				
Product data					
Full product code	871150021121715				
Order product name	MASTER CosmoWhite CPO-TW Xtra 90W/728				
	PGZ12				
EAN/UPC - Product	8711500211217				
Order code	928093505127				
Numerator - Quantity Per Pack	1				
Numerator - Packs per outer box	12				
Material Nr. (12NC)	928093505127				
Net Weight (Piece)	0.037 kg				
ILCOS Code	MT-90/728-H-PGZ12-20/143				

# Dimensional drawing

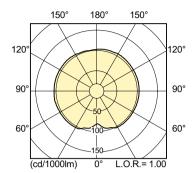


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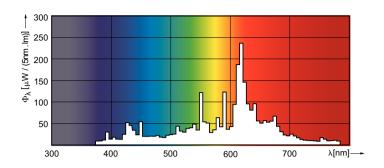
Product	D (max)	D	0	L	C (max)
MASTER CosmoWhite CPO-TW Xtra	20 mm	19 mm	18 mm	66 mm	143 mm
90W/728 PGZ12					

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

#### Photometric data

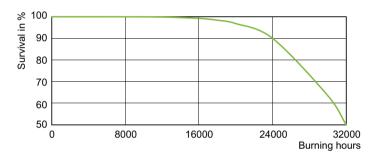


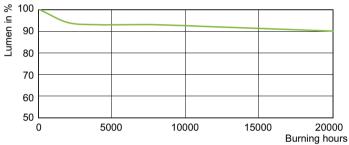
LDLD\_CPO-TW\_0003-Light distribution diagram



LDPO\_CPO-TW\_90W\_728-Spectral power distribution Colour

### Lifetime





LDLE\_CPO-TW\_0001-Life expectancy diagram

LDLM\_CPO-TW\_0003-Lumen maintenance diagram



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