



# MASTER CosmoWhite CPO-TW & CPO-TW Xtra

## MASTER CosmoWhite CPO-TW Xtra 45W/628 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]	LSF 6000 h Rated	99 %
Operating position	UNIVERSAL [ Any or Universal (U)]	LSF 8000 h Rated	99 %
Life to 5% failures (nom.)	21500 h	LSF 12000 h Rated	99 %
Life to 10% failures (nom.)	24000 h	LSF 16000 h Rated	99 %
Life to 20% failures (nom.)	27000 h	LSF 20000 h Rated	97 %
Life to 50% failures (nom.)	32000 h	LSF 24000 h Rated	90 %
ANSI code HID	C196/E	LSF 30000 h Rated	63 %
LSF 2000 h Rated	99 %		Sphere
LSF 4000 h Rated	99 %		

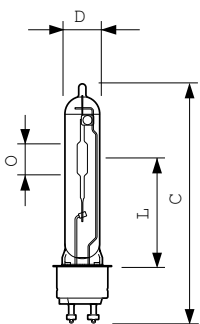
# MASTER CosmoWhite CPO-TW & CPO-TW Xtra

Light technical	
Colour Code	628 [ CCT of 2,800 K]
Luminous flux (nom.)	4900 lm
Luminous flux (rated) (nom.)	4900 lm
Colour designation	White (WH)
Chromaticity coordinate X (nom.)	0.447
Chromaticity coordinate Y (nom.)	0.4
Correlated Colour Temperature (Nom)	2800 K
Luminous efficacy (rated) (nom.)	110 lm/W
Colour-rendering index (min.)	63
Colour rendering index (nom.)	66
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 %
Ratio scotopic/photopic lumens	1.15

Operating and electrical	
Power (Rated) (Nom)	44.5 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)	84 V
Voltage (Nom)	91 V

Controls and dimming	
Dimmable	Yes
Run-up time 90% (max.)	4 min

## Dimensional drawing



MASTER CosmoWhite CPO-TW Xtra 45W/628 PGZ12

Mechanical and housing	
Lamp Finish	Clear
Bulb shape	T19 [ T 19mm]

Approval and application	
Energy Efficiency Class	F
Mercury (Hg) content (max.)	2 mg
Mercury (Hg) content (nom.)	2.0 mg
Energy consumption kWh/1,000 hours	45 kWh
	473336

UV	
PET (NIOSH) (min.)	8 h/500lx
PET (NIOSH) (nom.)	20 h/500lx
Damage factor D/fc (nom.)	0.21

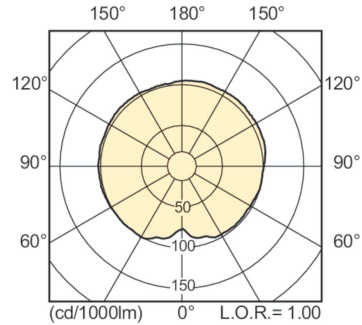
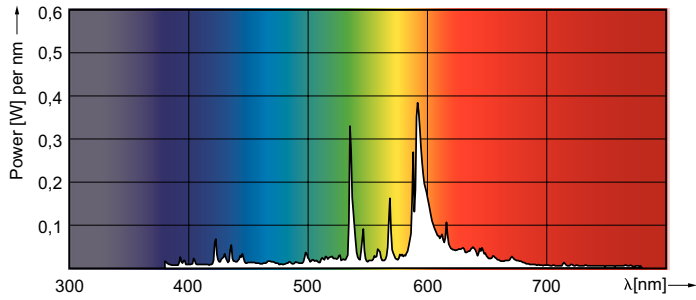
Luminaire design requirements	
Bulb temperature (max.)	380 °C
Cap-base temperature (max.)	250 °C
Cap-base temperature (max.)	482 °F

Product data	
Full product code	871829115001500
Order product name	MASTER CosmoWhite CPO-TW Xtra 45W/628 PGZ12
EAN/UPC – product	8718291150015
Order code	15001500
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928083805127
Net Weight (Piece)	0.034 kg
ILCOS code	MT-45/628-H-PGZ12-20/132

Product	D (max)	D	O	L	C (max)
MASTER CosmoWhite CPO-TW Xtra 45W/628 PGZ12	20 mm	19 mm	14 mm	59 mm	132 mm

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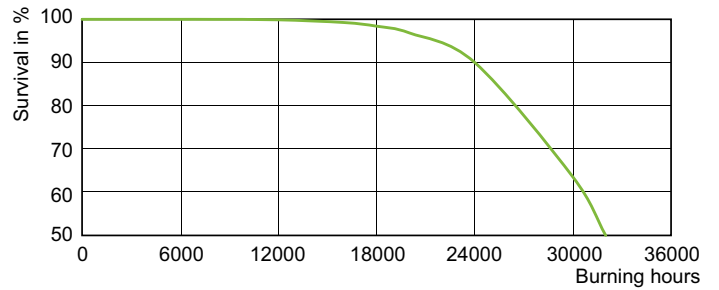
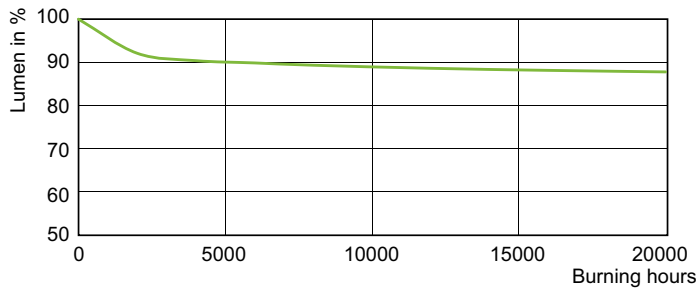
## Photometric data



LDPO\_CPO-TW\_45W\_628-Spectral power distribution Colour

LDLD\_CPO-TW\_0001-Light distribution diagram

## Lifetime



LDLM\_CPO-TW\_0001-Lumen maintenance diagram

LDLE\_CPO-TW\_0006-Life expectancy diagram

