The easy-fitting solution for highly energy-efficient and reliable white light outdoors

MASTER CosmoWhite CPO-TT Xtra

New-generation ceramic metal-halide tubular lamps used in outdoor applications, offering efficient and pleasant white light

Benefits

- Attractive white-light alternative to current standard mercury-vapor, HPS and ceramic solutions
- Offering easy access to low-cost high-performance new system with existing standard components
- Best combination of low investment and high energy savings (up to 65%), resulting in very low cost of ownership

Features

- Highly efficient white light; extremely high system efficacy
- Long reliable lifetime; new Xtra range offering service life of up to 6 years (> 30kh average life)
- Unique new burner design in combination with glass outer bulb and Edison lamp base offering easy fit into existing HPS / SON luminaire platform
- Designed for electronic gear platforms including all control features and dimming options offering flexible light levels and reduced energy consumption

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Application
· Street lighting and area lighting, urban and residential areas and city centers; for
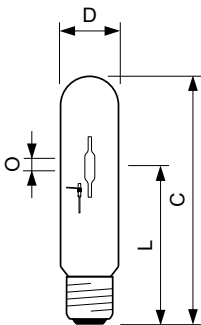 functional lighting and city beautification

Warnings and Safety
· Use only in a totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
· The luminaire must be able to contain hot lamp parts if the lamp ruptures
· Use only with suitable electronic control gear
· Control gear must include end-of-life protection (IEC 61167, IEC 62035)
· E27 lamp holders and other parts in luminaires should be designed to withstand the ignition voltage of the electronic control gear
  (rated at 5 kV ignition pulse)
· 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.

Versions

LPPR CPO-TT 0002

Dimensional drawing

Product	D (max)	D	O	L	C (max)
MST CosmoWhite CPO-TT Xtra 140W/628 E40	47 mm	46 mm	23 mm	132 mm	211 mm
MST CosmoWhite CPO-TT Xtra 45W/628 E27	36 mm	35 mm	14 mm	103 mm	156 mm
MST CosmoWhite CPO-TT Xtra 60W/628 E27	36 mm	35 mm	14 mm	102 mm	156 mm
MST CosmoWhite CPO-TT Xtra 90W/628 E40	47 mm	46 mm	18 mm	132 mm	211 mm

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General Information

Operating Position	P20
Light Technical	
Chromaticity Coordinate X (Nom)	0.447
Chromaticity Coordinate Y (Nom)	0.4
Color Designation	Warm White (WW)
Correlated Color Temperature (Nom)	2800 K
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Finish	Clear

General Information

Order Code	Full Product Name	Cap-Base
928060109227	MST CosmoWhite CPO-TT Xtra 60W/628 E27	E27
928060809227	MST CosmoWhite CPO-TT Xtra 45W/628 E27	E27

Order Code	Full Product Name	Cap-Base
928060209227	MST CosmoWhite CPO-TT Xtra 90W/628 E40	E40
928060309227	MST CosmoWhite CPO-TT Xtra 140W/628 E40	E40

Light Technical

Order Code	Full Product Name	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
928060109227	MST CosmoWhite CPO-TT Xtra 60W/628 E27	70	119.17 lm/W	7,150 lm
928060809227	MST CosmoWhite CPO-TT Xtra 45W/628 E27	65	105 lm/W	4,725 lm

Order Code	Full Product Name	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
928060209227	MST CosmoWhite CPO-TT Xtra 90W/628 E40	66	113.48 lm/W	10,200 lm
928060309227	MST CosmoWhite CPO-TT Xtra 140W/628 E40	68	116.31 lm/W	16,400 lm

Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928060109227	MST CosmoWhite CPO-TT Xtra 60W/628 E27	92 V	60.0 W
928060809227	MST CosmoWhite CPO-TT Xtra 45W/628 E27	91 V	45.0 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928060209227	MST CosmoWhite CPO-TT Xtra 90W/628 E40	92 V	90.0 W
928060309227	MST CosmoWhite CPO-TT Xtra 140W/628 E40	90 V	141.0 W

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928060109227	MST CosmoWhite CPO-TT Xtra 60W/628 E27	T35
928060809227	MST CosmoWhite CPO-TT Xtra 45W/628 E27	T35

Order Code	Full Product Name	Bulb Shape
928060209227	MST CosmoWhite CPO-TT Xtra 90W/628 E40	T46
928060309227	MST CosmoWhite CPO-TT Xtra 140W/628 E40	T46

Approval and Application

MASTER CosmoWhite CPO-TT Xtra

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928060109227	MST CosmoWhite CPO-TT Xtra 60W/628 E27	60 kWh	2 mg	2.0 mg
928060809227	MST CosmoWhite CPO-TT Xtra 45W/628 E27	45 kWh	2 mg	2.0 mg
928060209227	MST CosmoWhite CPO-TT Xtra 90W/628 E40	90 kWh	3 mg	3.0 mg
928060309227	MST CosmoWhite CPO-TT Xtra 140W/628 E40	141 kWh	3.9 mg	3.90 mg

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