



# The easiest switch to comfortable white light

## MASTER CityWhite CDO-ET

Ceramic metal halide lamp, with opalized ovoid outer bulb shape, used in outdoor offering pleasant white light

### Benefits

- White warm color impression providing comfort and safety
- Easy upgrade from SON to white light without additional cost
- Flexible light levels and reduced energy consumption possible via dimming option

### Features

- High-quality white light
- Directly retrofit on HPS (SON/NAV) installations for upgrade from yellow to white light
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Good color rendering and harmonized warm white color temperature
- Dimmable

### Application

- Beautification and functional lighting for City centers, shopping centers and pedestrian areas, residential areas, road lighting and floodlighting

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## 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
- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Warm restart time can be up to 15 minutes; T15 ignitors therefore advised
- 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



## Dimensional drawing

Product	D (max)	C (max)
MASTER CityWhite CDO-ET Plus 150W/828 E40	91 mm	227 mm
MASTER CityWhite CDO-ET Plus 70W/828 E27	71 mm	156 mm

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## Approval and Application

Energy Efficiency Label (EEL)	A+
<b>Controls and Dimming</b>	
Dimmable	Yes
<b>General Information</b>	
Life To 50% Failures (Nom)	27000 h
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
Operating Position	UNIVERSAL
<b>Luminaire Design Requirements</b>	
Bulb Temperature (Max)	350 °C
<b>Light Technical</b>	
Colour Code	828
Colour Designation	Warm White (WW)
Ratio Scotopic/Photopic Lumens	1.30
<b>Mechanical and Housing</b>	
Bulb Finish	Coated glass

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg) Content
		1000 h	(Nom)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	78 kWh	7.8 mg
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	157 kWh	15.8 mg

## Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	0.98 A	96 V	80 V	88 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	1.85 A	98 V	82 V	90 V

## Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated)	Re-Ignition Time
		(Nom)	(Min) (Max)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	70,5 W	720 s

Order Code	Full Product Name	Power (Rated)	Re-Ignition Time
		(Nom)	(Min) (Max)
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	143.0 W	900 s

## General Information (1/2)

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 5%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	E27	12000 h	16500 h	9500 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 5%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	E40	20000 h	22500 h	18000 h

## General Information (2/2)

## MASTER CityWhite CDO-ET

Order Code	Full Product Name	LSF 12000 h Rated	LSF 16000 h Rated	LSF 20000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	90 %	81 %	71 %	98 %	96 %
15881300	MASTER CityWhite CDO-	99 %	97 %	90 %	99 %	99 %

Order Code	Full Product Name	LSF 12000 h Rated	LSF 16000 h Rated	LSF 20000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated
	ET Plus 150W/828 E40					

### Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	438	398	2900 K	87
15881300	MASTER CityWhite	443	402	2830 K	85

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)
	CDO-ET Plus 150W/828 E40				

### Light Technical (2/2)

Order Code	Full Product Name	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	80.5 %	76.5 %	97 %	73.5 %	93 %	89.5 %	86 %	100 lm/W	7050 lm
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	85 %	82 %	95 %	80 %	92 %	90 %	88 %	106 lm/W	15100 lm

### Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
15875200	MASTER CityWhite CDO-ET Plus 70W/828 E27	B70
15881300	MASTER CityWhite CDO-ET Plus 150W/828 E40	BD90



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