



MASTER CityWhite CDO-ET

MASTER CityWhite CDO-ET Plus 150W/828 E40

Ceramic metal halide lamp, with opalized ovoid outer bulb shape, used in outdoor offering 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
- 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.

Product data

General Information	
Cap-Base	E40 [E40]
Operating Position	UNIVERSAL [Any or Universal (U)]
Life to 5% Failures (Nom)	18000 h
Life To 10% Failures (Nom)	20000 h
Life to 20% Failures (Nom)	22500 h
Life to 50% Failures (Nom)	27000 h
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	97 %

LSF 20000 h Rated	90 %
Light Technical	
Color Code	828 [CCT of 2800K]
Luminous Flux (Rated) (Nom)	15400 lm
Color Designation	Warm White (WW)
Chromaticity Coordinate X (Nom)	443
Chromaticity Coordinate Y (Nom)	402
Correlated Color Temperature (Nom)	2830 K
Luminous Efficacy (rated) (Nom)	107.69 lm/W
Color Rendering Index (Nom)	85
LLMF 2000 h Rated	95 %
LLMF 4000 h Rated	92 %

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LLMF 6000 h Rated	90 %
LLMF 8000 h Rated	88 %
LLMF 12000 h Rated	85 %
LLMF 16000 h Rated	82 %
LLMF 20000 h Rated	80 %
Ratio Scotopic/Photopic Lumens	1.30

Operating and Electrical

Power (Nom)	143 W
Lamp Current Run-Up (Max)	3 A
Lamp Current (EM) (Nom)	1.85 A
Ignition Supply Voltage (Max)	198 V
Ignition Peak Voltage (Max)	5000 V
Ignition Supply Voltage (Min)	198 V
Re-Ignition Time (Min) (Max)	900 s
Ignition Time (Max)	30 s
Voltage (Max)	98 V
Voltage (Min)	82 V
Voltage (Nom)	89 V

Controls and Dimming

Dimmable	Yes
Run-Up Time 90% (Max)	3 min

Mechanical and Housing

Bulb Finish	Coated glass
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Approval and Application

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content (Nom)	15.8 mg
Energy Consumption kWh/1000 h	157 kWh

UV

Pet (Niosh) (Min)	8 h/500lx
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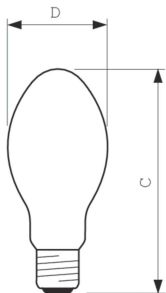
Luminaire Design Requirements

Bulb Temperature (Max)	350 °C
Cap-Base Temperature (Max)	250 °C

Product Data

Full product code	871829115881300
Order product name	MASTER CityWhite CDO-ET Plus 150W/828 E40
EAN/UPC - Product	8718291158813
Order code	928154908835
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928154908835
Net Weight (Piece)	0.157 kg
ILCOS Code	ME150/28/1B-H-E40

Dimensional drawing

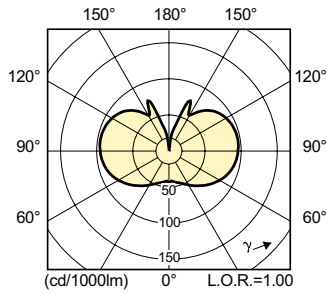


CDO-ET Plus 150W/828 E40

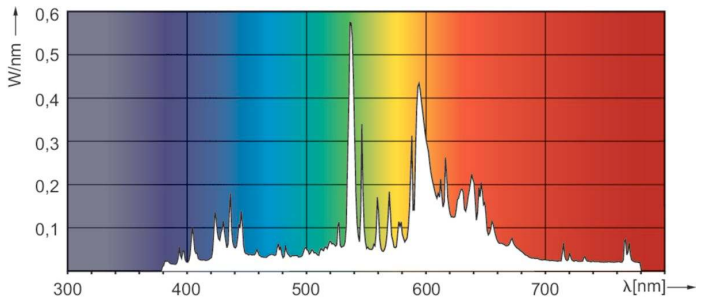
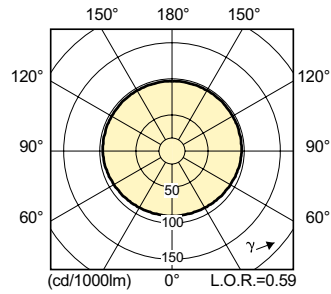
Product	D (max)	C (max)
MASTER CityWhite CDO-ET Plus 150W/828 E40	91 mm	227 mm

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Photometric data

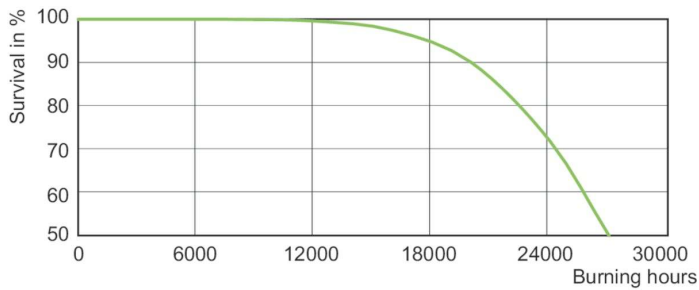


LDLD_CDO-ET_0003-Light distribution diagram

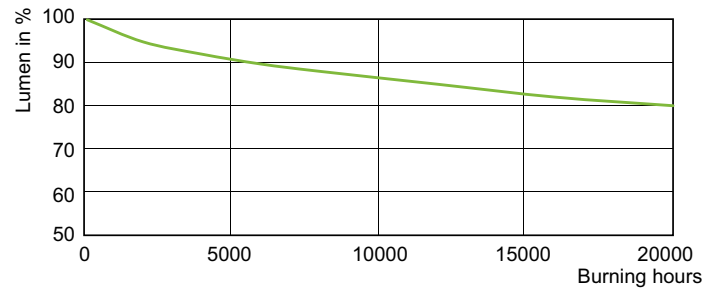


LDPO_CDO-ET_0002-Spectral power distribution Colour

Lifetime



LDLE_CDO-ET_0002-Life expectancy diagram



LDLM_CDO-ET_0002-Lumen maintenance diagram

