



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)

Product data

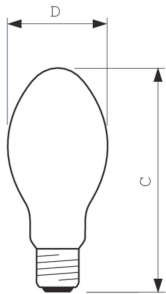
General Information		Lamp Luminous Flux (Nom)	
Cap base	E40 [E40]	Lamp Luminous Flux (Nom)	15400 lm
Burning Position	UNIVERSAL [Any/Universal]	Colour Designation	Warm white (WW)
Life to 5% failures (nom.)	18000 h	Chromaticity coordinate X (nom.)	443
Life to 10% failures (nom.)	20000 h	Chromaticity coordinate Y (nom.)	402
Life to 20% failures (nom.)	22500 h	Colour Temperature, horizontal (Nom)	2830 K
Life to 50% failures (nom.)	27000 h	Lamp Luminous Efficacy EM (Nom)	107.69 lm/W
LSF 2000 h Rated	99 %	Colour Rendering Index,horiz (Nom)	85
LSF 4000 h Rated	99 %	LLMF 2000 h Rated	95 %
LSF 6000 h Rated	99 %	LLMF 4000 h Rated	92 %
LSF 8000 h Rated	99 %	LLMF 6000 h Rated	90 %
LSF 12000 h Rated	99 %	LLMF 8000 h Rated	88 %
LSF 16000 h Rated	97 %	LLMF 12000 h Rated	85 %
LSF 20000 h Rated	90 %	LLMF 16000 h Rated	82 %
		LLMF 20000 h Rated	80 %
		Ratio scotopic/photopic lumens	1.30
Light Technical			
Colour Code	828 [CCT of 2,800 K]		

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Operating and Electrical	
Power (Rated) (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	
Lamp Finish	Coated glass
Approval and Application	
Energy efficiency label (EEL)	A+

Mercury (Hg) content (nom.)	15.8 mg
Energy consumption kWh/1,000 hours	157 kWh
UV	
PET (NIOSH) (min.)	8 h/500lx
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
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928154908835
SAP net weight (piece)	0.157 kg
ILCOS code	ME150/28/1B-H-E40

Dimensional drawing

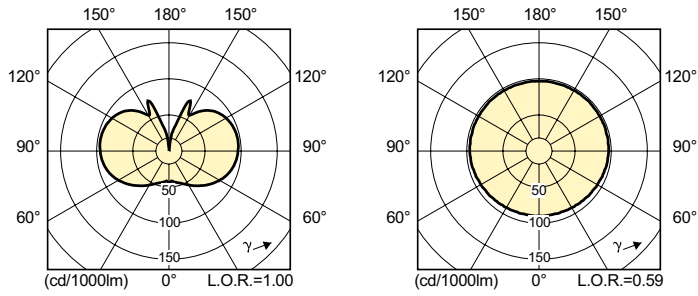


CDO-ET Plus 150W/828 E40

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

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Photometric data

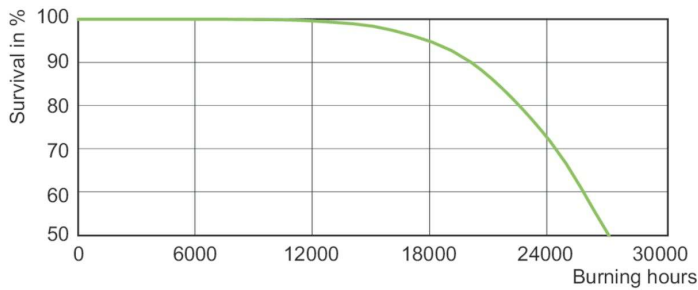


LDLD_CDO-ET_0003-Light distribution diagram

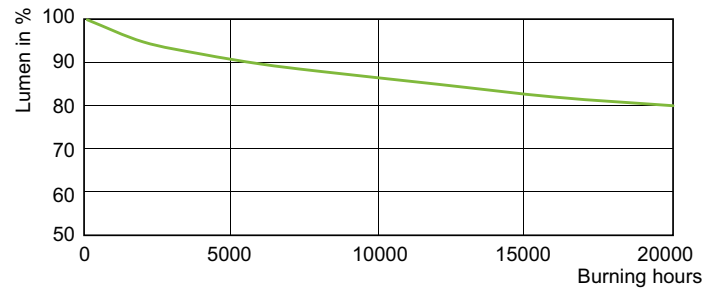


LDPO_CDO-ET_0002-Spectral power distribution Colour

Lifetime



LDLE_CDO-ET_0002-Life expectancy diagram



LDLM_CDO-ET_0002-Lumen maintenance diagram

