



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 colour 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 colour rendering and harmonized warm white colour temperature
- Dimmable

Application

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

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)

MASTER CityWhite CDO-ET

Controls and dimming

Dimmable	Yes
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General information

Life To 50% Failures (Nom)	27000 h
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LSF 2000 h Rated	99 %
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LSF 4000 h Rated	99 %
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Operating Position	UNIVERSAL
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Luminaire design requirements

Bulb Temperature (Max)	350 °C
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Light technical

Chromaticity Coordinate X (Nom)	0.447
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Chromaticity Coordinate Y (Nom)	0.4
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Colour Code	828
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Colour Designation	Warm white (WW)
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Correlated Colour Temperature (Nom)	2800 K
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Ratio Scotopic/Photopic Lumens	1.30
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Mechanical and housing

Bulb Finish	Coated glass
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Approval and application

Order Code	Full Product Name	Energy Consumption	Mercury (Hg)	Mercury (Hg)
		kWh/1000 h	Content (Max)	Content (Nom)
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	71 kWh	7.8 mg	7.8 mg
928154908835	MASTER CityWhite CDO-ET Plus 150W/828 E40	143 kWh	15.8 mg	15.8 mg

Operating and electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	0.99 A	96 V	80 V	83 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928154908835	MASTER CityWhite CDO-ET Plus 150W/828 E40	1.85 A	98 V	82 V	89 V

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)	Re-ignition Time	
			(Min)	(Max)
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	71.0 W	720 s	

Order Code	Full Product Name	Power (Nom)	Re-ignition Time	
			(Min)	(Max)
928154908835	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)
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	E27	15000 h	17000 h	13000 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 5%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
928154908835	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	LSF	LSF	LSF	LSF
		12000 h Rated	16000 h Rated	20000 h Rated	6000 h Rated	8000 h Rated
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	90 %	81 %	71 %	98 %	96 %
928154908835	MASTER CityWhite CDO-	99 %	97 %	90 %	99 %	99 %

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

Light technical (1/2)

Order Code	Full Product Name	Colour Rendering Index (Min)	Colour Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated
		928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	81	84
928154908835	MASTER CityWhite CDO-ET	-	85	85 %	82 %

Order Code	Full Product Name	Colour Rendering Index (Min)	Colour Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated
			Plus 150W/828 E40		

Light technical (2/2)

Order Code	Full Product Name	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 (Nom)	Luminous Flux (Rated) (Nom)
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	97 %	73.5 %	93 %	89.5 %	86 %	99 lm/W	7030 lm	7030 lm
928154908835	MASTER CityWhite CDO-ET Plus 150W/828 E40	95 %	80 %	92 %	90 %	88 %	108 lm/W	15400 lm	15400 lm

Mechanical and housing

Order Code	Full Product Name	Bulb Shape
928154708835	MASTER CityWhite CDO-ET Plus 70W/828 E27	B70

Order Code	Full Product Name	Bulb Shape
928154908835	MASTER CityWhite CDO-ET Plus 150W/828 E40	BD90

