



The easiest switch to comfortable white light

MASTER CityWhite CDO-TT

Ceramic metal halide lamp with clear tubular 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

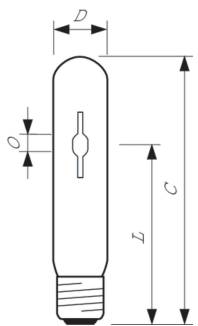
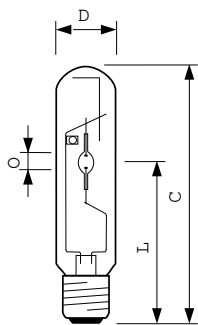
- Beautification and functional lighting for City centers, shopping centers and pedestrian areas, residential areas, road lighting and floodlighting

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)

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Dimensional drawing



Product	D (max)	O	L	C (max)
MASTER CityWh CDO-TT Plus 100W/828 E40	47 mm	8.5 mm	132 mm	211 mm
MASTER CityWh CDO-TT Plus 150W/828 E40	47 mm	10 mm	132 mm	211 mm
MASTER CityWh CDO-TT Plus 250W/830 E40	47 mm	12.1 mm	157 mm	257 mm

Product	D (max)	O	L	C (max)
MASTER CityWh CDO-TT Plus 50W/828 E27	36 mm	5.25 mm	102 mm	156 mm
MASTER CityWh CDO-TT Plus 70W/828 E27	36 mm	7.15 mm	102 mm	156 mm

General Information	
Operating position	UNIVERSAL
Light Technical	
Colour designation	Warm White (WW)
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Lamp Finish	Clear

General Information

Order Code	Full Product Name	Cap base
12030800	MASTER CityWhite CDO-TT Plus 70W/828 1SL/12	E27
12032200	MASTER CityWhite CDO-TT Plus 100W/828 E40	E40
12034600	MASTER CityWhite CDO-TT Plus 150W/828 E40	E40

Order Code	Full Product Name	Cap base
12197800	MASTER CityWhite CDO-TT Plus 250W/830 E40	E40
18561100	MASTER CityWhite CDO-TT Plus 50W/828 E27	E27

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Colour Temperature	Colour rendering index	Luminous efficacy	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)		(CRI)	(rated) (nom.)	
12030800	MASTER CityWhite CDO-TT Plus 70W/828 1SL/12	0.447	0.4	2800 K	86	105 lm/W	7,750 lm

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Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Colour Temperature	Colour rendering index (CRI)	Luminous efficacy (rated) (nom.)	Luminous Flux
12032200	MASTER CityWhite CDO-TT Plus 100W/828 E40	0.447	0.4	2800 K	88	106 lm/W	10,450 lm
12034600	MASTER CityWhite CDO-TT Plus 150W/828 E40	0.447	0.4	2800 K	87	110 lm/W	16,400 lm
12197800	MASTER CityWhite CDO-TT Plus 250W/830 E40	0.434	0.398	3000 K	88	113 lm/W	28,400 lm
18561100	MASTER CityWhite CDO-TT Plus 50W/828 E27	0.447	0.4	2800 K	84	104 lm/W	5,500 lm

Operating and Electrical

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
12030800	MASTER CityWhite CDO-TT Plus 70W/828 1SL/12	91 V	73.5 W
12032200	MASTER CityWhite CDO-TT Plus 100W/828 E40	100 V	99.0 W
12034600	MASTER CityWhite CDO-TT Plus 150W/828 E40	99 V	148.5 W

Order Code	Full Product Name	Voltage (nom.)	Power Consumption
12197800	MASTER CityWhite CDO-TT Plus 250W/830 E40	99 V	250.0 W
18561100	MASTER CityWhite CDO-TT Plus 50W/828 E27	83 V	53.0 W

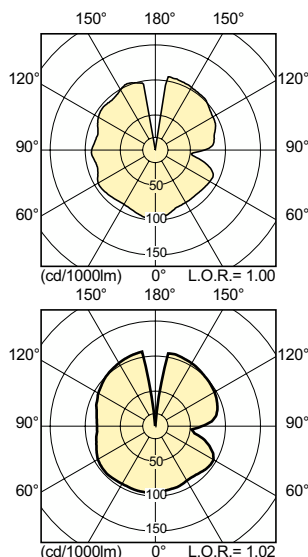
Mechanical and Housing

Order Code	Full Product Name	Bulb shape
12030800	MASTER CityWhite CDO-TT Plus 70W/828 1SL/12	T35
12032200	MASTER CityWhite CDO-TT Plus 100W/828 E40	T46
12034600	MASTER CityWhite CDO-TT Plus 150W/828 E40	T46

Order Code	Full Product Name	Bulb shape
12197800	MASTER CityWhite CDO-TT Plus 250W/830 E40	T46
18561100	MASTER CityWhite CDO-TT Plus 50W/828 E27	T31

Approval and Application

Order Code	Full Product Name	Energy consumption kWh/1,000 hours	Mercury (Hg) content (max.)	Mercury (Hg) content (nom.)
12030800	MASTER CityWhite CDO-TT Plus 70W/828 1SL/12	74 kWh	7.8 mg	7.8 mg
12032200	MASTER CityWhite CDO-TT Plus 100W/828 E40	99 kWh	12 mg	11.6 mg
12034600	MASTER CityWhite CDO-TT Plus 150W/828 E40	149 kWh	15.8 mg	15.8 mg
12197800	MASTER CityWhite CDO-TT Plus 250W/830 E40	250 kWh	25 mg	25.3 mg
18561100	MASTER CityWhite CDO-TT Plus 50W/828 E27	53 kWh	5.4 mg	5.4 mg



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