



# The easiest switch to comfortable white light

## MASTER CityWhite CDO-TT

A ceramic metal halide lamp with clear tubular outer bulb shape, used outdoors, offering pleasant white light

### Benefits

- A warm white 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 harmonised warm white colour temperature
- Dimmable

### Application

- Beautification and functional lighting for city centres, shopping centres 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 electromagnetic control gear or electronic gear suitable to drive CDO lamps (e.g. HID-PV Xt CDO)
- 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

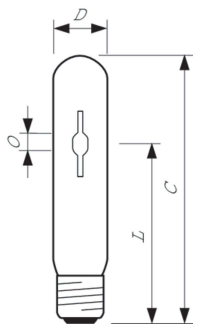
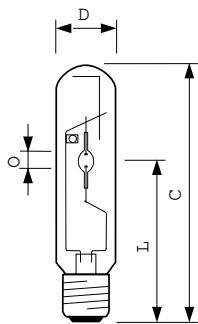


LPPR CDO-TT 0002



LPPR CDO-TT 0004

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 150W/942 E40	46 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 70W/828 E27	36 mm	7.15 mm	102 mm	156 mm

MASTER CityWhite CDO-TT

General Information	
Operating position	UNIVERSAL
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Lamp Finish	Clear

General Information

Order Code	Full Product Name	Cap base	Order Code	Full Product Name	Cap base
928082519230	MASTER CityWh CDO-TT Plus 150W/942 E40	E40	928082219231	MASTER CityWh CDO-TT Plus 150W/828 E40	E40
928082019235	MASTER CityWh CDO-TT Plus 70W/828 E27	E27	928082319230	MASTER CityWh CDO-TT Plus 250W/830 E40	E40
928082119231	MASTER CityWh CDO-TT Plus 100W/828 E40	E40			

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Colour designation	Correlated Colour Temperature (Nom)	Colour	Luminous efficacy (rated) (nom.)	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)			rendering index (CRI)		
928082519230	MASTER CityWh CDO-TT Plus 150W/942 E40	0.371	0.366	Cool White (CW)	4200 K	91	107 lm/W	16,100 lm
928082019235	MASTER CityWh CDO-TT Plus 70W/828 E27	0.447	0.4	Warm White (WW)	2800 K	86	105 lm/W	7,750 lm
928082119231	MASTER CityWh CDO-TT Plus 100W/828 E40	0.447	0.4	Warm White (WW)	2800 K	88	106 lm/W	10,450 lm
928082219231	MASTER CityWh CDO-TT Plus 150W/828 E40	0.447	0.4	Warm White (WW)	2800 K	87	110 lm/W	16,400 lm
928082319230	MASTER CityWh CDO-TT Plus 250W/830 E40	0.434	0.398	Warm White (WW)	3000 K	88	113 lm/W	28,400 lm

Operating and Electrical

Order Code	Full Product Name	Voltage (nom.)	Power Consumption	Order Code	Full Product Name	Voltage (nom.)	Power Consumption
928082519230	MASTER CityWh CDO-TT Plus 150W/942 E40	97 V	150.0 W	928082219231	MASTER CityWh CDO-TT Plus 150W/828 E40	99 V	148.5 W
928082019235	MASTER CityWh CDO-TT Plus 70W/828 E27	91 V	73.5 W	928082319230	MASTER CityWh CDO-TT Plus 250W/830 E40	99 V	250.0 W
928082119231	MASTER CityWh CDO-TT Plus 100W/828 E40	100 V	99.0 W				

Mechanical and Housing

Order Code	Full Product Name	Bulb shape	Order Code	Full Product Name	Bulb shape
928082519230	MASTER CityWh CDO-TT Plus 150W/942 E40	T46	928082219231	MASTER CityWh CDO-TT Plus 150W/828 E40	T46
928082019235	MASTER CityWh CDO-TT Plus 70W/828 E27	T35	928082319230	MASTER CityWh CDO-TT Plus 250W/830 E40	T46
928082119231	MASTER CityWh CDO-TT Plus 100W/828 E40	T46			

Approval and Application

MASTER CityWhite CDO-TT

Order Code	Full Product Name	Energy consumption kWh/1,000 hours	Mercury (Hg) content (max.)	Mercury (Hg) content (nom.)
928082519230	MASTER CityWh CDO-TT Plus 150W/942 E40	150 kWh	13 mg	12.6 mg
928082019235	MASTER CityWh CDO-TT Plus 70W/828 E27	74 kWh	7.8 mg	7.8 mg
928082119231	MASTER CityWh CDO-TT Plus 100W/828 E40	99 kWh	12 mg	11.6 mg
928082219231	MASTER CityWh CDO-TT Plus 150W/828 E40	149 kWh	15.8 mg	15.8 mg
928082319230	MASTER CityWh CDO-TT Plus 250W/830 E40	250 kWh	25 mg	25.3 mg

