



# MASTER CityWhite CDO-TT

MASTER CityWhite CDO-TT Plus 100W/828 E40

Ceramic metal halide lamp with clear tubular outer bulb shape, used in outdoor offering pleasant white light

## Product data

### • General Characteristics

Cap-Base	E40
Bulb	T46 [T 46mm]
Bulb Finish	Clear
Operating Position	any [Any or Universal (U)]
Life to 5% failures	15000 hr
Life to 10% failures	18000 hr
Life to 20% failures	21000 hr
Life to 50% failures	27000 hr
LSF EM 2000h Rated, 12h cycle	99 %
LSF EM 4000h Rated, 12h cycle	99 %
LSF EM 6000h Rated, 12h cycle	99 %
LSF EM 8000h Rated, 12h cycle	99 %
LSF EM 12000h Rated, 12h cycle	98 %
LSF EM 16000h Rated, 12h cycle	94 %
LSF EM 20000h Rated, 12h cycle	84 %

### • Light Technical Characteristics

Color Code	828 [CCT of 2800K]
Color Rendering Index	88 Ra8
Color Designation (text)	Warm White
Color Temperature	2800 K
Color Temperature Technical	2800 K
Luminous Flux EM 25°C, Rated	10700 Lm

Lum Efficacy Rated EM 25°C	109 Lm/W
LLMF EM 2000h Rated	95 %
LLMF EM 4000h Rated	92 %
LLMF EM 6000h Rated	90 %
LLMF EM 8000h Rated	88 %
LLMF EM 12000h Rated	85 %
LLMF EM 16000h Rated	82 %
LLMF EM 20000h Rated	80 %
Chromaticity Coordinate X	445 -
Chromaticity Coordinate Y	395 -

### • Electrical Characteristics

Lamp Wattage	100 W
Lamp Wattage EM 25°C, Nominal	100.0 W
Lamp Wattage EM 25°C, Rated	98.0 W
Lamp Voltage	97 V
Lamp Current EM	1.2 A
Ignition Time	30 (max) s
Run-up time 90%	2 (max) min
Dimmable	Yes
Re-ignition Time [sec]	900 (max) s
Ratio scotopic/photopic lumens	1.30 -

**PHILIPS**

## • Environmental Characteristics

Energy Efficiency Label (EEL)	A+
Mercury (Hg) Content	11 mg
Energy consumption kWh/1000h	107 kWh

## • UV-related Characteristics

PET (NIOSH)	8 (min) h500lx
-------------	----------------

## • Luminaire Design Requirements

Cap-Base Temperature	250 (max) C
Bulb Temperature	450 (max) C

## • Product Dimensions

Overall Length C	211 (max) mm
Diameter D	47 (max) mm

Light Center Length L	132 mm
Arc Length O	8.5 mm

## • Product Data

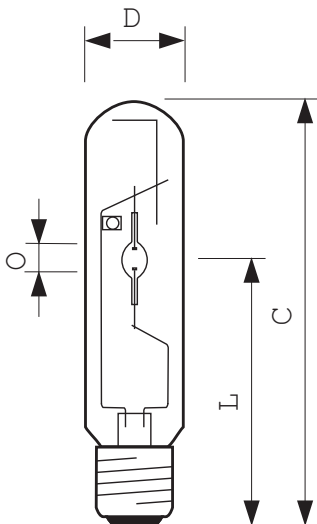
Order code	928082119231
Full product code	928082119231
Full product name	MASTER CityWhite CDO-TT Plus 100W/828 E40
Order product name	MASTER CityWh CDO-TT Plus 100W/828 E40
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8718291120322
Bar code on outerbox - EAN3	8718291120339
Logistic code(s) - 12NC	928082119231
ILCOS code	MT-100/828-H-E40-48/211
Net weight per piece	0.137 kg

## 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

## Dimensional drawing

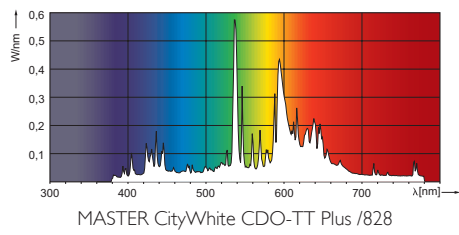


## MASTER CityWhite CDO-TT Plus 100W/828 E40

Product	C (Max)	D (Max)	L (Norm)	O (Norm)
CDO-TT Plus 100W/828 E40	211	47	132	8.5

E40

Photometric data



© 2013 Koninklijke Philips N.V. (Royal Philips)  
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

[www.philips.com/lighting](http://www.philips.com/lighting)

2013, October 9  
data subject to change