

## MASTER City white

## MASTERCcolour CDM-TT



CDM-TT 150W E40

### Product Description

- High-intensity discharge lamps with a CDM discharge tube inside a SON lamp clear tubular outer bulb

### Product Feature

- Robust lamp giving a pleasant white light and a stable color over lifetime
- Good color rendering
- Dimming not recommended because of negative effects on lamp performance (lumen maintenance, color and life)

### Product Benefit

- Runs on SON gear so directly replaces equivalent wattage SON lamp for simple upgrade from yellow to white light

### Application

- City centres, shopping centres and pedestrian areas, residential areas, road lighting
- City beautification: decorative lighting and floodlighting

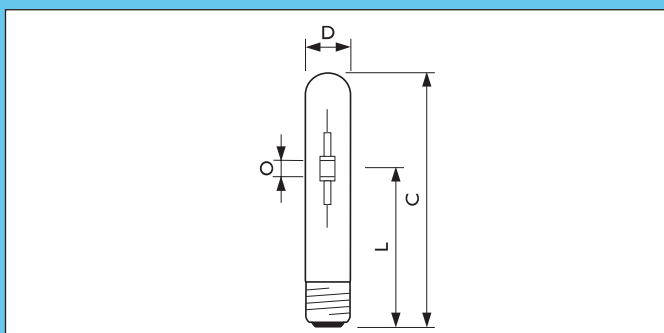
### Luminaires

- In the highly unlikely event of lamp breakage by incorrect use, vandalism or end of life effects, the luminaire housing should be able to contain heated glass, metal and/or ceramic particles
- 250W and 400W protected version which allow to use open luminaires

### System

- Must be used in combination with a ballast and an ignitor
- Must be used with a SON ballast and SON ignitor in accordance with SON IEC standards (ignition pulse between 1.8 kV and 2.5 kV for 70W)
- For optimum lamp performance, the mains voltage may deviate by max. +6/-8% from the voltage indicated on the type plate
- Warm restart time can be up to 15 minutes. if the lamp does not start (e.g. with T5 ignitors), the installation must be switched off for 15 minutes

Dimensions in mm



	Overall length	Diameter	Light center length	Arc length
Product ID	C max.	D max.	L nom.	O nom.
70W	156	32.5	102	7
150W	211	47	132	9
250W	254	47	158	25.4
400W	279	47	175	32

Preferred selection

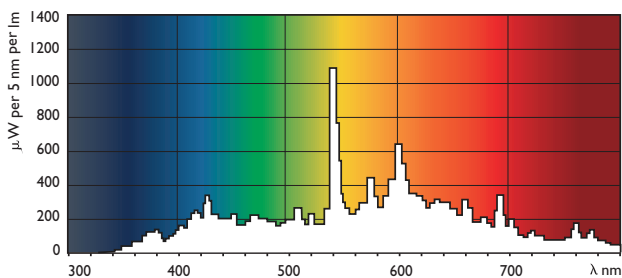
Product ID	Lamp Wattage EM (W)	Lamp Voltage (V)	Mains Voltage Stable Operation (V)	Cap Base	Color Temperature (K)	Color Rendering Index (Ra)
MASTERCcolour City CDM-TT 70W/830 E27	72	90	198	E27	3000	83
MASTERCcolour City CDM-TT 70W/942 E27	73	90	198	E27	4200	90
MASTERCcolour City CDM-TT 150W/830 E40	147	100	198	E40	3000	85
MASTERCcolour City CDM-TT 150W/942 E40	146	94	198	E40	4200	90
MASTERCcolour City CDM-TT 250W/840 E40	250	100	198	E40	4000	85
MASTERCcolour City CDM-TT 400W/840 E40	380	95	198	E40	4000	85

Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp EM/CuFe (lm)	Lamp Current EM/CuFe (A)	Luminous Efficacy Lamp EM (lm/W)	Operating Position
MASTERCcolour City CDM-TT 70W/830 E27	430	400	Clear	6300	1	88	ANY
MASTERCcolour City CDM-TT 70W/942 E27	369	370	Clear	6400	0.970	85	ANY
MASTERCcolour City CDM-TT 150W/830 E40	440	400	Clear	13500	1.8	92	ANY
MASTERCcolour City CDM-TT 150W/942 E40	384	368	Clear	12100	1.8	83	ANY
MASTERCcolour City CDM-TT 250W/840 E40	384	368	Clear	21500	3	86	ANY
MASTERCcolour City CDM-TT 400W/840 E40	377	365	Clear	34000	4.6	89	ANY

Product ID	Ignition Peak Voltage (V)	Ignition Supply Voltage (V)	Cap-Base Temperature (C)	Bulb Temperature (C)	Nett Weight Product In Grams (gr)
MASTERCcolour City CDM-TT 70W/830 E27	2500	198	200	350	46
MASTERCcolour City CDM-TT 70W/942 E27	2500	198	200	350	47
MASTERCcolour City CDM-TT 150W/830 E40	5000	198	250	450	155
MASTERCcolour City CDM-TT 150W/942 E40	5000	198	250	450	135
MASTERCcolour City CDM-TT 250W/840 E40	5000	198	250	450	170
MASTERCcolour City CDM-TT 400W/840 E40	5000	198	250	530	190

Spectral power distribution

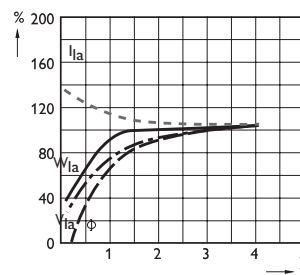
CDM-TT / 840



Performance diagrams

MASTERCcolour CDM-TT / 840 normal white

Lamp performance during run up



$I_{la}$  = Lamp current  
 $\Phi$  = Luminous Flux  
 $V_{la}$  = Lamp Voltage  
 $W_{la}$  = Lamp Wattage

Effects of mains voltage variations

