

MASTERCcolour CDM

MASTERCcolour CDM-TD



CDM-TD 70W

Product Description

- Range of double-ended, compact, high-efficiency, discharge lamps with a stable color over lifetime and a crisp, sparkling light

Product Features

- Warm or cool white color impression
- Color rendering good to excellent
- Retrofit in double-ended luminaires for quartz metal halide lamps (MHN/W-TD), thereby allowing to reduce operating costs and improve color quality
- Burning position horizontal $\pm 45^\circ$

Product Benefits

- Stable color impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation. Provides better operating costs and improved light quality versus standard quartz metal halide (MHN/W-TD)
- Long lamp life compared with incandescent, halogen and quartz metal halide (MHN/W-TD) lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting of facades, statues and monuments

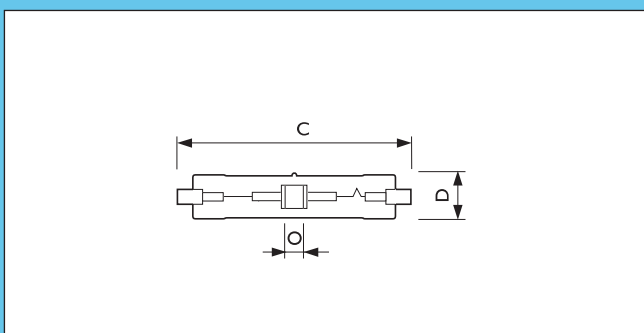
Luminaires

- Must be used in closed luminaires with a proper cover (IEC 61167 and 60598)

System

- Must be used in combination with a ballast and ignitor or electronic gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 61167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used, and increases lamp-life, improves system efficacy, and eliminates visible flicker

Dimensions in mm



	Overall length	Width	Arc length
Product ID	C max.	D max.	O nom.
70W/830	119.63	22	8
70W/942	119.63	22	6.85
150W/830	137.43	25	10.00
150W/942	137.43	25	10.00

Preferred selection

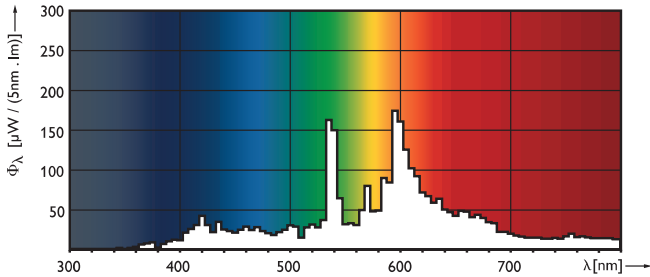
Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	System Power EL	Lamp Voltage (V)	Mains Voltage Stable Operation min. (V)	Cap/ Base	Color Temperature (K)	Color Rendering Index (Ra)
MASTERCcolour CDM-TD 70W/830	71	0.97	83	92	198	RX7s	3000	82
MASTERCcolour CDM-TD 70W/942	71	0.99	83	89	198	RX7s	4200	92
MASTERCcolour CDM-TD 150W/830	145	1.80	170	96	198	RX7s	3000	88
MASTERCcolour CDM-TD 150W/942	149	1.82	170	100	198	RX7s	4200	96

Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/W)	Operating Position	Ignition Peak Voltage max. (V)	Ignition Supply Voltage min. (V)
MASTERCcolour CDM-TD 70W/830	434	397	Clear	6500	78	P45	5000	198
MASTERCcolour CDM-TD 70W/942	375	364	Clear	6000	72	P45	5000	198
MASTERCcolour CDM-TD 150W/830	431	390	Clear	13250	78	P45	5000	198
MASTERCcolour CDM-TD 150W/942	370	368	Clear	14200	84	P45	5000	198

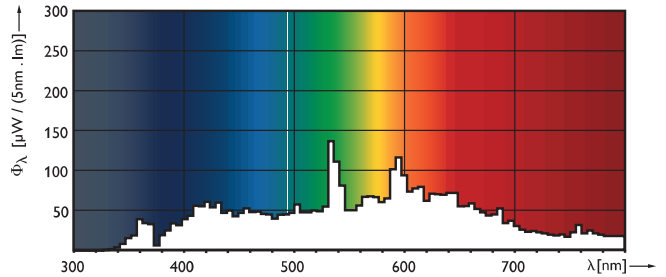
Product ID	Ignition Time max. (sec)	Re-ignition Time max. (min)	Run-up Time 90% max. (min)	Cap-Base Temperature max. (°C)	Bulb Temperature max. (°C)	Pinch Temperature max. (°C)	Net Weight Per Piece (g)
MASTERCcolour CDM-TD 70W/830	30	15	3	280	500	280	21
MASTERCcolour CDM-TD 70W/942	30	15	3	280	500	280	21
MASTERCcolour CDM-TD 150W/830	30	15	3	300	650	300	30
MASTERCcolour CDM-TD 150W/942	30	15	3	300	650	300	30

Spectral power distribution

CDM-TD /830



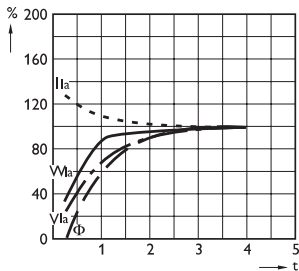
CDM-TD /942



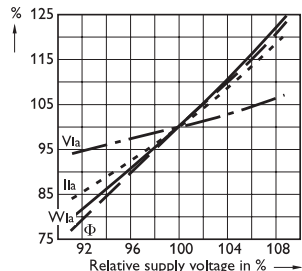
Performance diagrams

MASTERCcolour CDM-T /830

Lamp performance during run up



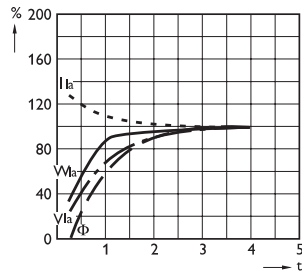
Effects of mains voltage variations



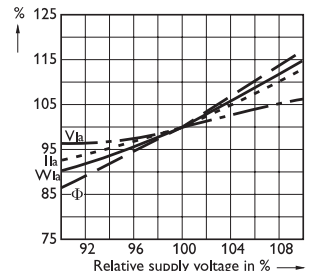
- I_{la} = Lamp current
- Φ = Luminous Flux
- V_{la} = Lamp Voltage
- W_{la} = Lamp Wattage

MASTERCcolour CDM-T /942

Lamp performance during run up



Effects of mains voltage variations



- I_{la} = Lamp current
- Φ = Luminous Flux
- V_{la} = Lamp Voltage
- W_{la} = Lamp Wattage