

MASTERCcolour CDM



CDM-TC 70W

Product Description

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

Product Features

- Warm or cool white color impression with good color rendering
- Allows very small-size luminaires designs that give high beam intensities

Product Benefits

- Long lamp life compared with incandescent and halogen lamps
- UV-Block quartz outer bulb for reduced fading risks
- Stable color impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation (which enhances comfort for shoppers and staff)

Application

- Accent lighting display lighting with sparkling effect
- General and decorative lighting

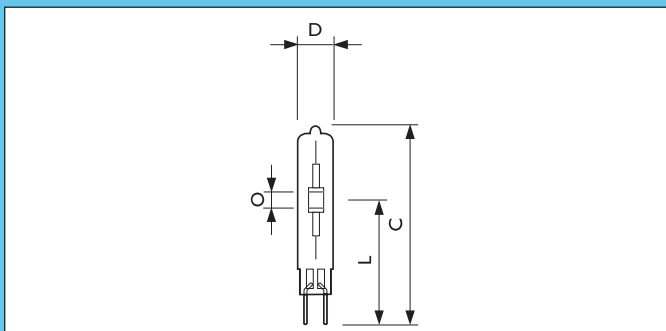
Luminaires

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

System

- Preferably used with electronic gear, which offers minimum system volume, increases lamp-life, improves system efficacy, and offers flicker-free operation
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 61167)

Dimensions in mm



	Overall length	Diameter	Light center length	Arc length
Product ID	C max.	D max.	L nom.	O nom.
35W	85	15	52	5
70W	85	15	52	7

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)
MASTERColour CDM-TC 35W/830 G8.5	38	0.53	44	88	198	G8.5	3000	81
MASTERColour CDM-TC 35W/942 G8.5*	38	0.46	44	85	198	G8.5	4200	87
MASTERColour CDM-TC 70W/830 G8.5*	73	0.87	83	83	198	G8.5	3000	83

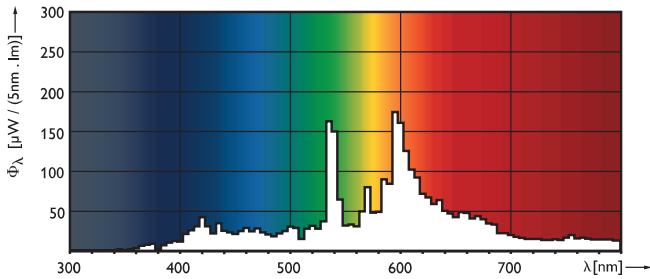
Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/W)	Operating Position	Ignition Peak Voltage max. (V)	Ignition Supply Voltage min. (V)
MASTERColour CDM-TC 35W/830 G8.5	432	394	Clear	3300	87	ANY	5000	198
MASTERColour CDM-TC 35W/942 G8.5*	370	465	Clear	3000	79	ANY	5000	198
MASTERColour CDM-TC 70W/830 G8.5*	439	398	Clear	6400	87	ANY	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)
MASTERColour CDM-TC 35W/830 G8.5	30	15	3	300	500	300	10
MASTERColour CDM-TC 35W/942 G8.5*	30	15	3	300	500	300	10
MASTERColour CDM-TC 70W/830 G8.5*	30	15	3	300	550	300	10

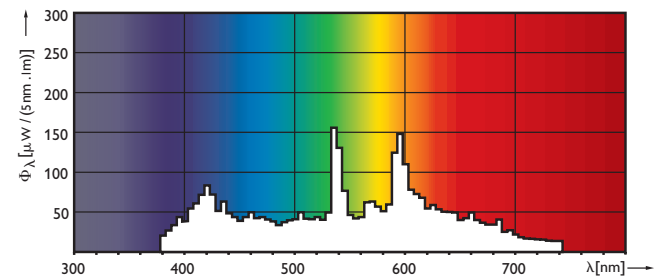
Note: * Electronic ballast only.

Spectral power distribution

CDM-TC /830



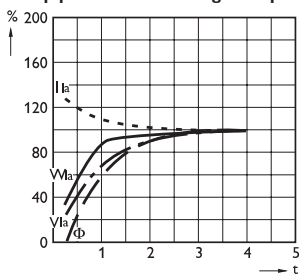
CDM-TC /942



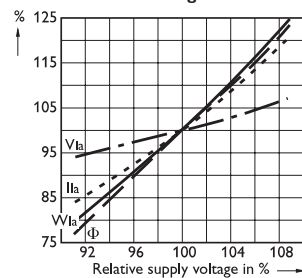
Performance diagrams

MASTERColour CDM-TC

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