

MASTERCcolour CDM

MASTERCcolour CDM-TP



CDM-TP PGX12-2

Product Description

- Range of protected, high-efficiency, discharge lamps with a stable color over lifetime and a crisp, sparkling light to be used in open luminaires

Product Features

- Warm or cool white color impression
- Color rendering good to excellent
- Lamp design is well-suited to be used in luminaires for power-spots (high intensity) and high-bay general lighting
- Double UV-Block quartz sleeves and a hard-glass outer bulb

Product Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Stable color impression over lifetime
- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types have UV-Block filtering for reduced fading risks

Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

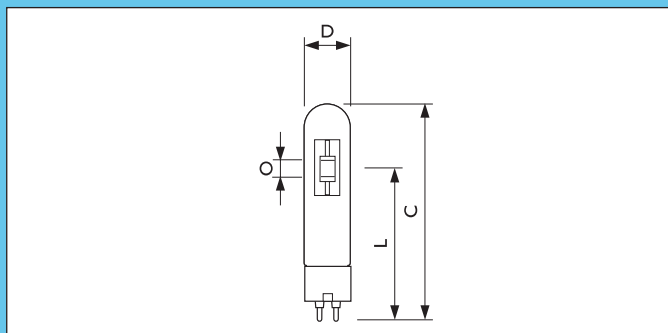
Luminaires

- Suitable for use in open luminaires

System

- Must be used in combination with a ballast and ignitor or electrical 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 to increase lamp-life, improve system efficacy, and offer flicker-free operation

Dimensions in mm



	Overall length	Diameter	Light center length	Arc length
Product ID	C max.	D max.	L nom.	O nom.
70W/830	149	32	91	7
70W/942	149	32	91	6
150W/830	149	32	91	9
150W/942	149	32	91	8

Preferred selection

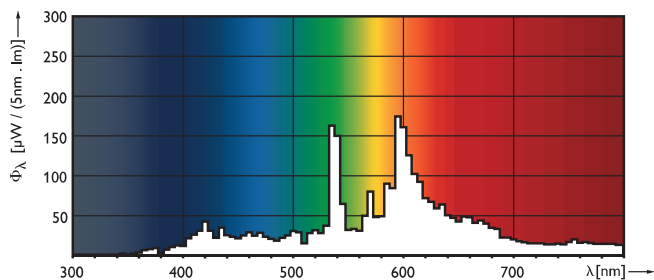
Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	System Power EL (W)	Lamp Voltage (V)	Mains Voltage Stable Operation min. (V)	Cap/ Base	Color Temperature (k)	Color Rendering Index (Ra)
MASTERColour CDM-TP 70W/830 PG12-2	73	0.98	88	90	198	PG12-2	3000	81
MASTERColour CDM-TP 70W/942 PG12-2	74	0.98	88	90	198	PG12-2	4200	90
MASTERColour CDM-TP 150W/830 PGX12-2	149	1.80	165	98	198	PGX12-2	3000	85
MASTERColour CDM-TP 150W/942 PGX12-2	148	1.80	165	96	198	PGX12-2	4200	95

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-TP 70W/830 PG12-2	427	396	Clear	6000	82	ANY	5000	198
MASTERColour CDM-TP 70W/942 PG12-2	370	370	Clear	5800	78	ANY	5000	198
MASTERColour CDM-TP 150W/830 PGX12-2	438	402	Clear	13000	87	ANY	5000	198
MASTERColour CDM-TP 150W/942 PGX12-2	371	370	Clear	12000	81	ANY	5000	198

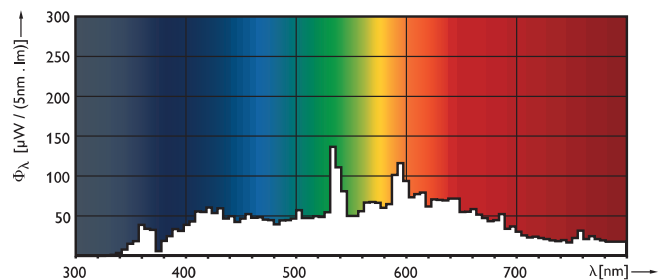
Product ID	Ignition Time max. (sec)	Re-ignition Time max. (min)	Run-up Time 90% max. (min)	Cap-Base Temperature max. (°C)	Bulb Temperature max. (°C)	Net Weight Per Piece (g)
MASTERColour CDM-TP 70W/830 PG12-2	30	15	3	210	400	73
MASTERColour CDM-TP 70W/942 PG12-2	30	15	4	210	400	73
MASTERColour CDM-TP 150W/830 PGX12-2	30	15	3	240	480	77
MASTERColour CDM-TP 150W/942 PGX12-2	30	15	4	240	480	77

Spectral power distribution

CDM-TP /830



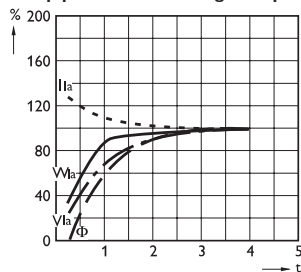
CDM-TP /942



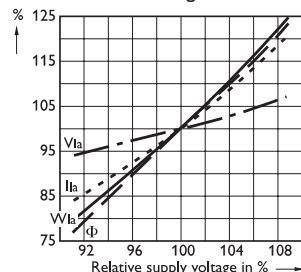
Performance diagrams

MASTERColour CDM-TP /830

Lamp performance during run up



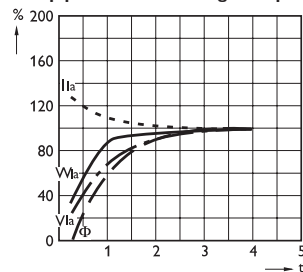
Effects of mains voltage variations



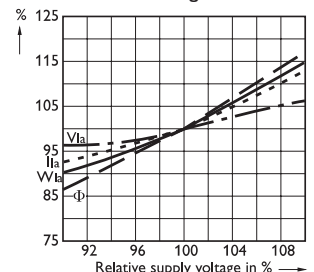
I_{la} = Lamp current
 Φ = Luminous Flux
 V_{la} = Lamp Voltage
 W_{la} = Lamp Wattage

MASTERColour CDM-TP /942

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