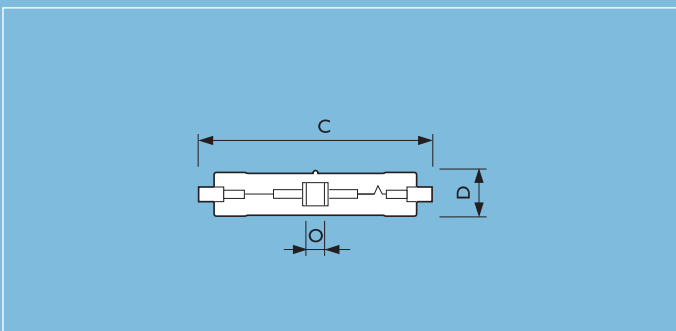


CDM-TD 70W

recommended ballast pag. 2.4

Dimensions in mm



Product Description

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

Product Features

- Warm or cool white colour impression
- Colour 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 colour quality
- Burning position horizontal +/-45°

Product Benefits

- Stable colour 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

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Dim. no.	C max.	D max.	O nom.
1	119.63	22	8
2	119.63	22	6.85
3	137.43	25	10.00

Preferred selection

Type	EOC	Cap/ Base	Packing configuration	Luminous Flux Lamp EM (lm)	Colour Temperature (K)	Operating position	Dim. no.	Colour Rendering Index (Ra)
MASTER Colour CDM-TD 70W/830	197825 15	RX7s	12	6500	3000	P45	1	82
MASTER Colour CDM-TD 70W/942	200020 15	RX7s	12	6000	4200	P45	2	92
MASTER Colour CDM-TD 150W/830	197849 15	RX7s	12	13250	3000	P45	3	88
MASTER Colour CDM-TD 150W/942	200259 15	RX7s	12	14200	4200	P45	3	96

Type	Lamp Voltage (V)	Cap/Base Temperature max. (° C)	Bulb Temperature max. (° C)	Lamp Current Run-up max. (A)	Dimmable	System Power EM (W)	Re-ignition Time max. (min.)	Run-up Time 90% max. (min.)
MASTER Colour CDM-TD 70W/830	92	280	500	1.4	No	88	15	3
MASTER Colour CDM-TD 70W/942	89	280	500	1.4	No	87	15	3
MASTER Colour CDM-TD 150W/830	96	300	650	2.5	No	165	15	3
MASTER Colour CDM-TD 150W/942	100	300	650	2.5	No	165	15	3

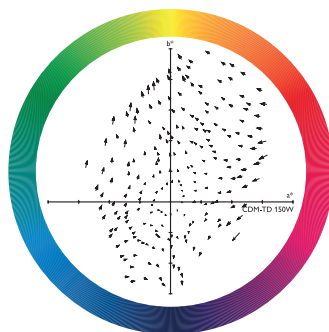
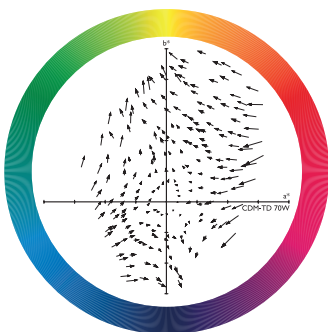
Type	Lamp Current EM (A)	Lamp Wattage EM (W)	Recommended ballast	Net weight per piece (g)	Ignition Peak Voltage max. (V)	Ignition Supply Voltage min. (V)	Ignition Time max. (sec.)	Colour Designation
MASTER Colour CDM-TD 70W/830	0.97	71	HID-PV 070/...	21	5000	198	30	Warm White
MASTER Colour CDM-TD 70W/942	0.99	71	HID-PV 070/...	21	5000	198	30	Cool White
MASTER Colour CDM-TD 150W/830	1.80	145	HID-PV 150/...	30	5000	198	30	Warm White
MASTER Colour CDM-TD 150W/942	1.82	149	HID-PV 150/...	30	5000	198	30	Cool White

Type	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb finish	Luminous Efficacy Lamp EM (lm/W)	ILCOS	Mains Voltage Stable Operation min. (V)	Pinch Temperature max. (° C)
MASTER Colour CDM-TD 70W/830	434	397	Clear	78	MD-70/30/1B-H-RX7s	198	280
MASTER Colour CDM-TD 70W/942	375	364	Clear	72	MD-70/42/1A-H-RX7s	198	280
MASTER Colour CDM-TD 150W/830	431	390	Clear	78	MD-150/30/1B-H-RX7s	198	300
MASTER Colour CDM-TD 150W/942	370	368	Clear	84	MD-150/42/1A-H-RX7s	198	300

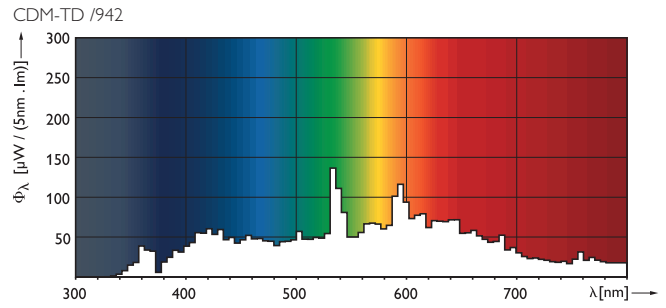
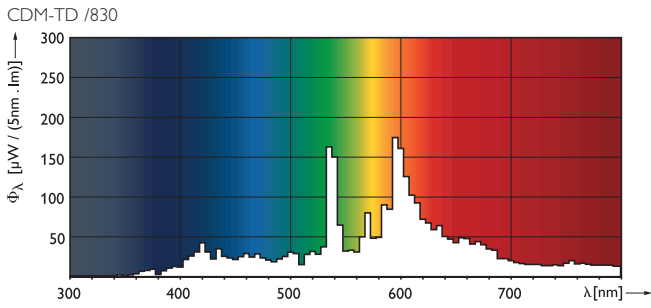
CRV diagrams

CDM-TD 70W/380

CDM-TD 150W/380



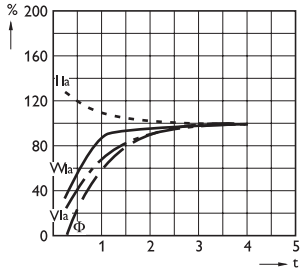
Spectral power distribution



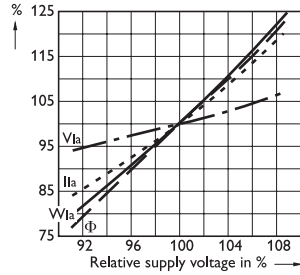
Performance diagrams

MASTER Colour CDM-T /830

Lamp performance during run up



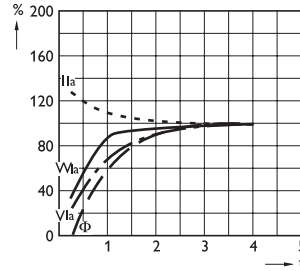
Effects of mains voltage variations



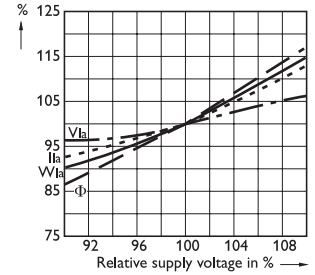
I_{la} = Lamp current
 Φ = Luminous Flux
 V_{la} = Lamp Voltage
 W_{la} = Lamp Wattage

MASTER Colour 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

