

MASTERColour CDM-TD



MASTERColour CDM-TD 150W/942 RX7s ICT

Product Description

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

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-TD)
- Long lamp life compared with incandescent, halogen and quartz metal halide (MHN-TD) lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Product Features

- Crisp white light
- Superior color quality
- Retrofit in double-ended luminaires for quartz metal halide lamps (MHN-TD), thereby allowing to reduce operating costs and improve color quality
- Burning position horizontal +/-45°

Application

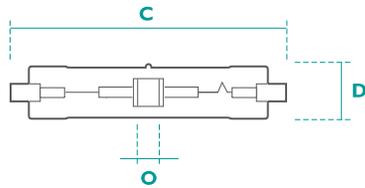
- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting of facades, statues and monuments

Luminaires

- Must be used in closed luminaires with a hard-glass cover

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 1167)
- 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

Product ID	Overall length (C) [mm]	Diameter (D) [mm]	Arc Length (O) [mm]
MASTERColour CDM-TD 70W/830 RX7s ICT	119.63	22	8
MASTERColour CDM-TD 70W/942 RX7s ICT	119.63	22	7
MASTERColour CDM-TD 150W/830 RX7s ICT	137.43	25	10
MASTERColour CDM-TD 150W/942 RX7s ICT	137.43	25	10

Light Technical Characteristics

Order code	Full product name	Color Code	Color Designation (text)	Luminous Flux Lamp EM	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index
928082205125	MASTERColour CDM-TD 70W/830 RX7s ICT	830	Warm White	6500	0.434	0.397	82
928084705133	MASTERColour CDM-TD 70W/942 RX7s ICT	942	Cool White	6000	0.375	0.364	92
928083605133	MASTERColour CDM-TD 150W/830 RX7s ICT	830	Warm White	13250	0.431	0.390	88
928084805133	MASTERColour CDM-TD 150W/942 RX7s ICT	942	Cool White	14200	0.370	0.368	96

Order code	Full product name	Lumen Maintenance 10000h	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Luminous Efficacy Lamp EM	Color Temperature	Design Mean Lumens
928082205125	MASTERColour CDM-TD 70W/830 RX7s ICT	70	87	80	86	3000	-
928084705133	MASTERColour CDM-TD 70W/942 RX7s ICT	60	85	70	80	4200	-
928083605133	MASTERColour CDM-TD 150W/830 RX7s ICT	75	90	85	85	3000	-
928084805133	MASTERColour CDM-TD 150W/942 RX7s ICT	70	90	85	91	4200	-

Electrical Characteristics

Order code	Full product name	Lamp Wattage EM	Lamp Voltage	Lamp Current EM	Dimmable
928082205125	MASTERColour CDM-TD 70W/830 RX7s ICT	71.0	92	0.97	No
928084705133	MASTERColour CDM-TD 70W/942 RX7s ICT	71.0	89	0.99	No
928083605133	MASTERColour CDM-TD 150W/830 RX7s ICT	145.0	96	1.8	No
928084805133	MASTERColour CDM-TD 150W/942 RX7s ICT	149.0	100	1.82	No

Luminaire Design Requirements

Order code	Full product name	Bulb Temperature
928082205125	MASTERColour CDM-TD 70W/830 RX7s ICT	500(max)
928084705133	MASTERColour CDM-TD 70W/942 RX7s ICT	500(max)
928083605133	MASTERColour CDM-TD 150W/830 RX7s ICT	650(max)
928084805133	MASTERColour CDM-TD 150W/942 RX7s ICT	650(max)

Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content
928082205125	MASTERColour CDM-TD 70W/830 RX7s ICT	3.7
928084705133	MASTERColour CDM-TD 70W/942 RX7s ICT	4.8
928083605133	MASTERColour CDM-TD 150W/830 RX7s ICT	10.23
928084805133	MASTERColour CDM-TD 150W/942 RX7s ICT	8.4

General Characteristics

Full product name	Cap-Base	Bulb Finish	Operating Position	Life to 5% failures	Life to 10% failures	Life to 20% failures	Life to 50% failures
MASTERColour CDM-TD 70W/830 RX7s ICT	RX7s	Clear	p49	9000	13000	15000	16000
MASTERColour CDM-TD 70W/942 RX7s ICT	RX7s	Clear	p51	9000	13000	15000	16000
MASTERColour CDM-TD 150W/830 RX7s ICT	RX7s	Clear	p45	9000	13000	15000	16000
MASTERColour CDM-TD 150W/942 RX7s ICT	RX7s	Clear	p47	9000	13000	15000	16000

Preferred Selection

Product ID	Lamp Wattage	Color Code	Color Designation	Bulb	Bulb finish	Operating Position	Life to 5% failures [hrs]
MASTERColour CDM-TD 70W/830 RX7s ICT	70	830	Warm White	T22	Clear	p45	9000 [nom]
MASTERColour CDM-TD 70W/942 RX7s ICT	70	942	Cool White	T22	Clear	p45	9000 [nom]
MASTERColour CDM-TD 150W/830 RX7s ICT	150	830	Warm White	T25	Clear	p45	9000 [nom]
MASTERColour CDM-TD 150W/942 RX7s ICT	150	942	Cool White	T2	Clear	p45	9000 [nom]

Product ID	Life to 10% failures [hrs]	Life to 20% failures [hrs]	Life to 50% failures [hrs]	System Power EM [W]	System Power EL [W]	Lamp Wattage EM [W]	Main Voltage Stable Operation [V]
MASTERColour CDM-TD 70W/830 RX7s ICT	13000 [nom]	15000 [nom]	16000 [nom]	88 [nom]	83 [nom]	71.0 [nom]	198 [min]
MASTERColour CDM-TD 70W/942 RX7s ICT	13000 [nom]	15000 [nom]	16000 [nom]	87 [nom]	83 [nom]	71.0 [nom]	198 [min]
MASTERColour CDM-TD 150W/830 RX7s ICT	13000 [nom]	15000 [nom]	16000 [nom]	165 [nom]	170 [nom]	145.0 [nom]	198 [min]
MASTERColour CDM-TD 150W/942 RX7s ICT	13000 [nom]	15000 [nom]	16000 [nom]	165 [nom]	170 [nom]	149.0 [nom]	198 [min]

Product ID	Lamp Voltage [V]	Lamp Current EM [A]	Lamp Current Run-Up [A]	Ignition Time [sec]	Run-up Time 90% [sec]	Ignition Supply Voltage [V]	Ignition Peak Voltage [V]
MASTERColour CDM-TD 70W/830 RX7s ICT	84 [min] 92 [nom] 100 [max]	0.97 [nom]	1.4 [max]	30 [max]	3 [max]	198 [min]	5000 [max]
MASTERColour CDM-TD 70W/942 RX7s ICT	- [min] 89 [nom] - [max]	0.99 [nom]	1.4 [max]	30 [max]	3 [max]	198 [min]	5000 [max]
MASTERColour CDM-TD 150W/830 RX7s ICT	- [min] 96 [nom] - [max]	1.8 [nom]	2.5 [max]	30 [max]	3 [max]	198 [min]	5000 [max]
MASTERColour CDM-TD 150W/942 RX7s ICT	- [min] 100 [nom] - [max]	1.82 [nom]	2.5 [max]	30 [max]	3 [max]	198 [min]	5000 [max]

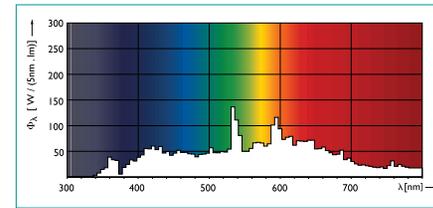
Product ID	Re-ignition Time [min]	Dimmable	Mercury (Hg) Content [mg]	Color Rendering Index [Ra]	Color Temperature [K]	Color Temperature Technical [K]	Chromatic Coordinate X	Chromatic Coordinate Y
MASTERColour CDM-TD 70W/830 RX7s ICT	15 [max]	No	3.7 [nom]	- [min] 82 [nom]	3000 [nom]	2990 [nom]	434 [nom]	397 [nom]
MASTERColour CDM-TD 70W/942 RX7s ICT	15 [max]	No	4.8 [nom]	- [min] 92 [nom]	4200 [nom]	4060 [nom]	375 [nom]	364 [nom]
MASTERColour CDM-TD 150W/830 RX7s ICT	15 [max]	No	10 [nom]	- [min] 88 [nom]	3000 [nom]	2985 [nom]	431 [nom]	390 [nom]
MASTERColour CDM-TD 150W/942 RX7s ICT	15 [max]	No	8.4 [nom]	- [min] 96 [nom]	4200 [nom]	4240 [nom]	370 [nom]	368 [nom]

Product ID	Luminous Efficacy System EL [lm/W]	Luminous Flux Lamp [lm]	Luminous Efficacy Lamp [lm/W]	Lumen Maintenance 2000h [%]	Lumen Maintenance 5000h [%]	Lumen Maintenance 10000h [%]
MASTERColour CDM-TD 70W/830 RX7s ICT	78 [nom]	- [min] 6500 [nom]	86 [nom]	- [min] 87 [nom]	- [min] 80 [nom]	- [min] 70 [nom]
MASTERColour CDM-TD 70W/942 RX7s ICT	72 [nom]	- [min] 6000 [nom]	80 [nom]	- [min] 85 [nom]	- [min] 70 [nom]	- [min] 60 [nom]
MASTERColour CDM-TD 150W/830 RX7s ICT	78 [nom]	- [min] 13250 [nom]	85 [nom]	- [min] 90 [nom]	- [min] 85 [nom]	- [min] 75 [nom]
MASTERColour CDM-TD 150W/942 RX7s ICT	84 [nom]	- [min] 14200 [nom]	91 [nom]	- [min] 90 [nom]	- [min] 85 [nom]	- [min] 70 [nom]

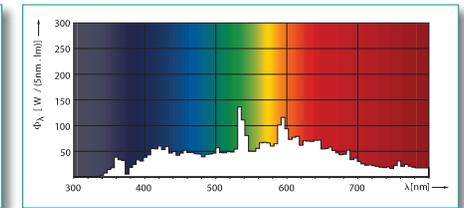
Product ID	Permitted Exposure Time (PET) [hrs.klx]	Damage Factor Dfc	Pinch Temperature [°C]	Bulb Temperature [°C]
MASTERColour CDM-TD 70W/830 RX7s ICT	41 [nom]	0.23 [nom]	280 [max]	500 [max]
MASTERColour CDM-TD 70W/942 RX7s ICT	38 [nom]	0.23 [nom]	280 [max]	500 [max]
MASTERColour CDM-TD 150W/830 RX7s ICT	333 [nom]	0.14 [nom]	300 [max]	650 [max]
MASTERColour CDM-TD 150W/942 RX7s ICT	150 [nom]	0.40 [nom]	300 [max]	650 [max]

Spectral Power Distribution

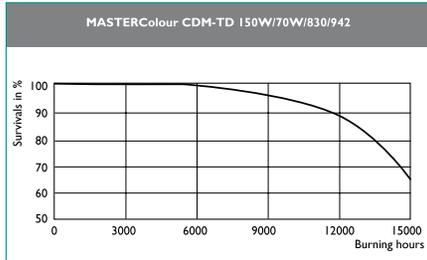
MASTERColour CDM-TD 830



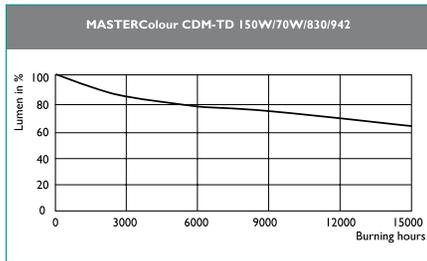
MASTERColour CDM-TD 942



Life Expectancy

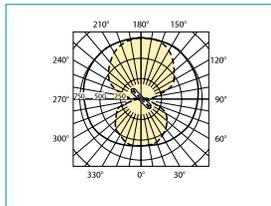


Lumen Maintenance

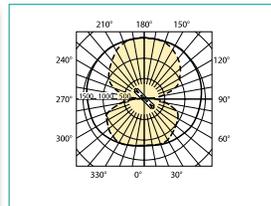


Light Technical

MASTERColour CDM-TD 70W

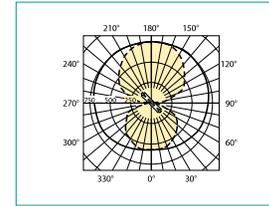


MASTERColour CDM-TD 150W

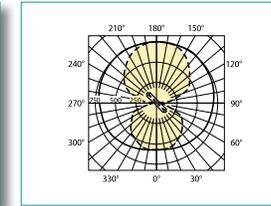


Light Distribution

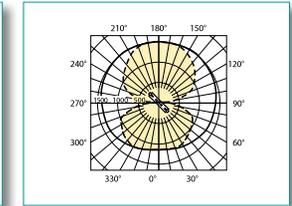
MASTERColour CDM-TD 70W/830



MASTERColour CDM-TD 70W/942



MASTERColour CDM-TD 150W/830



MASTERColour CDM-TD 150W/942

