



Beautiful sparkle, reliable life

MASTERColour CDM-TD

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

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

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

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Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

Versions



Dimensional drawing



Product	D (max)	D	O	C (max)
MASTERColour CDM-TD 70W/830 RX7s 1CT/12	22 mm		8 mm	119.63 mm
MASTERColour CDM-TD 150W/942 RX7s 1CT	22 mm		10 mm	137.43 mm
MASTERColour CDM-TD 70W/942 RX7s 1CT/12	22 mm	0.75 in	7 mm	119.63 mm
MASTERColour CDM-TD 150W/830 RX7s 1CT	22 mm		10 mm	137.43 mm

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Controls and Dimming

Dimmable	No
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Operating and Electrical

Re-ignition Time (Min) (Max)	15 min
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General Information

Cap-Base	RX7S
Life To 10% Failures (Nom)	13000 h
Life To 20% Failures (Nom)	15000 h
Life To 50% Failures (Nom)	16000 h
Life To 5% Failures (Nom)	9000 h
Operating Position	P45

Mechanical and Housing

Bulb Finish	Clear
Bulb Shape	T22

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
19782515	MASTERCLOUR CDM-TD 70W/830 RX7S 1CT/12	71 kWh	3.4 mg	3.4 mg
20002015	MASTERCLOUR CDM-TD 70W/942 RX7S 1CT/12	72 kWh	4.7 mg	4.8 mg
19784915	MASTERCLOUR CDM-TD 150W/830 RX7s 1CT	147 kWh	10.2 mg	10.23 mg
20025915	MASTERCLOUR CDM-TD 150W/942 RX7s 1CT	152 kWh	8.3 mg	8.29 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
19782515	MASTERCLOUR CDM-TD 70W/830 RX7S 1CT/12	0.95 A	102 V	86 V	94 V
20002015	MASTERCLOUR CDM-TD 70W/942 RX7S 1CT/12	0.98 A	98 V	82 V	90 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
19784915	MASTERCLOUR CDM-TD 150W/830 RX7s 1CT	1.8 A	106 V	90 V	98 V
20025915	MASTERCLOUR CDM-TD 150W/942 RX7s 1CT	1.8 A	110 V	96 V	103 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
19782515	MASTERCLOUR CDM-TD 70W/830 RX7S 1CT/12	71.0 W
20002015	MASTERCLOUR CDM-TD 70W/942 RX7S 1CT/12	71.5 W

Order Code	Full Product Name	Power (Rated) (Nom)
19784915	MASTERCLOUR CDM-TD 150W/830 RX7s 1CT	147.0 W
20025915	MASTERCLOUR CDM-TD 150W/942 RX7s 1CT	152.0 W

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
19782515	MASTERCLOUR CDM-TD 70W/830 RX7S 1CT/12	500 °C
20002015	MASTERCLOUR CDM-TD 70W/942 RX7S 1CT/12	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
19784915	MASTERCLOUR CDM-TD 150W/830 RX7s 1CT	650 °C
20025915	MASTERCLOUR CDM-TD 150W/942 RX7s 1CT	650 °C

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity			
		Coordinate X (Nom)	Coordinate Y (Nom)	Colour Code	Colour Designation
19782515	MASTERCLOUR CDM-TD 70W/830 RX7S 1CT/12	0.434	0.398	830	Warm White (WW)
20002015	MASTERCLOUR CDM-TD 70W/942 RX7S 1CT/12	0.371	0.366	942	Cool White (CW)

Order Code	Full Product Name	Chromaticity			
		Coordinate X (Nom)	Coordinate Y (Nom)	Colour Code	Colour Designation
19784915	MASTERCLOUR CDM-TD 150W/830 RX7s 1CT	0.434	0.398	830	Warm White (WW)
20025915	MASTERCLOUR CDM-TD 150W/942 RX7s 1CT	0.371	0.366	942	Cool White (CW)

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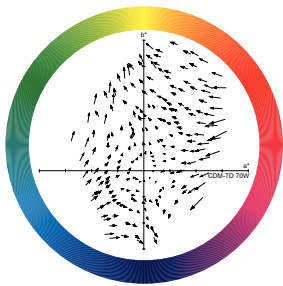
Light Technical (2/3)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Min)	Colour Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
		(K)	(Min)	(Nom)	(%)	(%)	(%)	(%)	(%)	(lm/W)
19782515	MASTERColour CDM-TD 70W/830 RX7S 1CT/12	3000 K	77	80	70 %	80 %	85 %	70 %	80 %	85 lm/W
20002015	MASTERColour CDM-TD 70W/942 RX7S 1CT/12	4200 K	-	92	60 %	70 %	85 %	60 %	70 %	76 lm/W
19784915	MASTERColour CDM-TD 150W/830 RX7s 1CT	3000 K	-	88	75 %	80 %	90 %	75 %	85 %	87 lm/W
20025915	MASTERColour CDM-TD 150W/942 RX7s 1CT	4200 K	-	96	70 %	80 %	90 %	75 %	85 %	90 lm/W

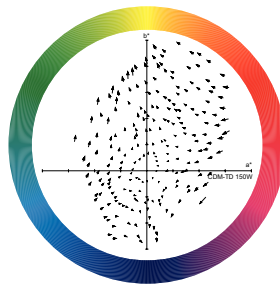
Light Technical (3/3)

Order Code	Full Product Name	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
19782515	MASTERColour CDM-TD 70W/830 RX7S 1CT/12	6000 lm	6000 lm	19784915	MASTERColour CDM-TD 150W/830 RX7s 1CT	12750 lm	12750 lm
20002015	MASTERColour CDM-TD 70W/942 RX7S 1CT/12	5450 lm	5450 lm	20025915	MASTERColour CDM-TD 150W/942 RX7s 1CT	13650 lm	13650 lm

Colour Rendering Diagrams



LDCR_CDM-TD_70W-Colour rendering diagram



LDCR_CDM-TD_150W-Colour rendering diagram

