



Product Description

MASTERColour CDM-TC Elite

Single-ended, compact size, high-efficiency Ceramic Metal Halide discharge lamp

Benefits

- Outstanding rendering of displayed merchandise due to high color rendering (Ra 90) in combination with high lumen output; best offer in the market for 'enhancing merchandize'
- Excellent color quality remains stable over lifetime
- Light output over lifetime maintains display brightness
- High efficacy and long lifetime for lowest operating costs and low heat generation
- Relatively low heat generation enhances comfort for shoppers and staff
- UV Block for reduced fading risk of merchandise
- Allows design of very compact luminaires with high beam intensities

Features

- Crisp white light
- Excellent color rendering (Ra 90)
- Reliable lifetime performance
- Stable color performance during lifetime
- Increased light output compared with regular MASTERColour lamps
- Improved maintenance compared with regular MASTERColour lamps
- Burning position for
 - CDM Elite-TC 35W: vertical +/- 60 degrees
 - CDM Elite-TC 70W: universal

Application

- Accent and display lighting with a sparkling effect, excellent solution for Retail
- General and decorative lighting

MASTERColour CDM-TC Elite

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
- Use only with electronic 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



CDM-TC Elite 35W /930 /942



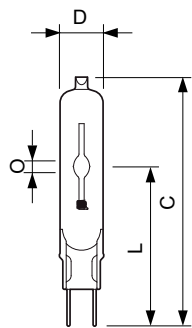
CDM-TC Elite 70W /930 /942



CDM-TC Elite 50W /930, /942

Dimensional drawing

D



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-TC Elite 35W/942 G8.5 1CT	15 mm	5.2 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC Elite 70W/942 G8.5 1CT	15 mm	7.75 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	15 mm	7.15 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC Elite 35W/930 G8.5 1CT/12	15 mm	4.8 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC Elite 50W/930 G8.5 1CT/12	15 mm	6 mm	51 mm	53 mm	52 mm	85 mm

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-TC Elite 20W/830 G8.5 1CT/12	15 mm	0.55 in	4 mm	51 mm	53 mm	52 mm	85 mm

MASTERCcolour CDM-TC Elite

Approval and Application	
Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
Operating and Electrical	
Re-Ignition Time (Min) (Max)	15 min
General Information	
Cap-Base	G8.5
Operating Position	UNIVERSAL
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	T14

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
87158600	MASTERCcolour CDM-TC Elite 20W/830 G8.5 1CT/12	22 kWh	3.5 mg
91149700	MASTERCcolour CDM-TC Elite 35W/930 G8.5 1CT/12	43 kWh	4.7 mg
16366400	MASTERCcolour CDM-TC Elite 35W/942 G8.5 1CT	43 kWh	4.9 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
91153400	MASTERCcolour CDM-TC Elite 70W/930 G8.5 1CT/12	80 kWh	6.6 mg
16368800	MASTERCcolour CDM-TC Elite 70W/942 G8.5 1CT	80 kWh	6.6 mg
93062700	MASTERCcolour CDM-TC Elite 50W/930 G8.5 1CT/12	55 kWh	6.6 mg

Operating and Electrical

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)	Power (Rated) (Nom)
87158600	MASTERCcolour CDM-TC Elite 20W/830 G8.5 1CT/12	100 V	90 V	95 V	20.0 W	20.1 W
91149700	MASTERCcolour CDM-TC Elite 35W/930 G8.5 1CT/12	90 V	80 V	85 V	-	39.1 W
16366400	MASTERCcolour CDM-TC Elite 35W/942 G8.5 1CT	97 V	85 V	91 V	-	39.1 W
91153400	MASTERCcolour CDM-TC Elite 70W/930 G8.5 1CT/12	90 V	80 V	85 V	-	73.2 W
16368800	MASTERCcolour CDM-TC Elite 70W/942 G8.5 1CT	94 V	82 V	88 V	-	73.2 W
93062700	MASTERCcolour CDM-TC Elite 50W/930 G8.5 1CT/12	96 V	84 V	90 V	-	50.2 W

General Information

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 50%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)	Failures (Nom)
87158600	MASTERCcolour CDM-TC Elite 20W/830 G8.5 1CT/12	14000 h	16000 h	20000 h	12000 h
91149700	MASTERCcolour CDM-TC Elite 35W/930 G8.5 1CT/12	14000 h	16000 h	20000 h	12000 h
16366400	MASTERCcolour CDM-TC Elite 35W/942 G8.5 1CT	10000 h	12000 h	15000 h	9000 h

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 50%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)	Failures (Nom)
91153400	MASTERCcolour CDM-TC Elite 70W/930 G8.5 1CT/12	14000 h	16000 h	20000 h	12000 h
16368800	MASTERCcolour CDM-TC Elite 70W/942 G8.5 1CT	10000 h	12000 h	15000 h	9000 h

MASTERCLOUR CDM-TC Elite

Order Code	Full Product Name	Life To	Life To	Life To	Life To
		10% Failures (Nom)	20% Failures (Nom)	50% Failures (Nom)	Life To 5% Failures (Nom)
93062700	MASTERCLOUR CDM-TC Elite 50W/930 G8.5 1CT/12	14000 h	16000 h	20000 h	12000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
87158600	MASTERCLOUR CDM-TC Elite 20W/830 G8.5 1CT/12	320 °C
91149700	MASTERCLOUR CDM-TC Elite 35W/930 G8.5 1CT/12	500 °C
16366400	MASTERCLOUR CDM-TC Elite 35W/942 G8.5 1CT	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
91153400	MASTERCLOUR CDM-TC Elite 70W/930 G8.5 1CT/12	550 °C
16368800	MASTERCLOUR CDM-TC Elite 70W/942 G8.5 1CT	500 °C
93062700	MASTERCLOUR CDM-TC Elite 50W/930 G8.5 1CT/12	550 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color	Color
		Coordinate X (Nom)	Coordinate Y (Nom)				Rendering Index (Min)	Rendering Index (Nom)
87158600	MASTERCLOUR CDM-TC Elite 20W/830 G8.5 1CT/12	0.434	0.391	830	Warm White (WW)	-	-	85
91149700	MASTERCLOUR CDM-TC Elite 35W/930 G8.5 1CT/12	0.435	0.396	930	Warm White (WW)	3000 K	87	90
16366400	MASTERCLOUR CDM-TC Elite 35W/942 G8.5 1CT	0.371	0.366	942	Cool White (CW)	4200 K	87	90
91153400	MASTERCLOUR CDM-TC Elite 70W/930 G8.5 1CT/12	0.435	0.396	930	Warm White (WW)	3000 K	87	90
16368800	MASTERCLOUR CDM-TC Elite 70W/942 G8.5 1CT	0.365	0.363	942	Cool White (CW)	4200 K	89	92
93062700	MASTERCLOUR CDM-TC Elite 50W/930 G8.5 1CT/12	0.435	0.396	930	Warm White (WW)	3000 K	88	91

Light Technical (2/2)

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
		Maintenance 10000 h (Nom)	Maintenance 12000 h (Nom)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)		
87158600	MASTERCLOUR CDM-TC Elite 20W/830 G8.5 1CT/12	78 %	77 %	87 %	83 %	87 lm/W	1620 lm	1750 lm
91149700	MASTERCLOUR CDM-TC Elite 35W/930 G8.5 1CT/12	80 %	78 %	93 %	88 %	102 lm/W	3600 lm	4000 lm
16366400	MASTERCLOUR CDM-TC Elite 35W/942 G8.5 1CT	73 %	71 %	84 %	79 %	97 lm/W	3420 lm	3800 lm
91153400	MASTERCLOUR CDM-TC Elite 70W/930 G8.5 1CT/12	83 %	82 %	95 %	88 %	107 lm/W	-	7800 lm
16368800	MASTERCLOUR CDM-TC Elite 70W/942 G8.5 1CT	81 %	80 %	88 %	85 %	102 lm/W	6700 lm	7450 lm

MASTERCLOUR CDM-TC Elite

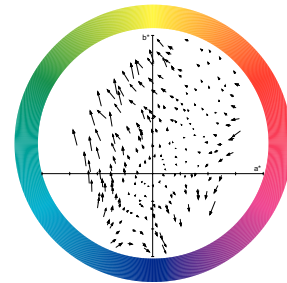
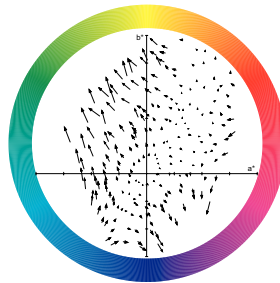
Order Code	Full Product Name	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
93062700	MASTERCLOUR CDM-TC Elite 50W/930 G8.5 1CT/12	83 %	82 %	95 %	88 %	108 lm/W	4900 lm	5400 lm

Mechanical and Housing

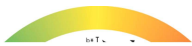
Order Code	Full Product Name	Bulb Material
87158600	MASTERCLOUR CDM-TC Elite 20W/830 G8.5 1CT/12	UV-Block Quartz
91149700	MASTERCLOUR CDM-TC Elite 35W/930 G8.5 1CT/12	-
16366400	MASTERCLOUR CDM-TC Elite 35W/942 G8.5 1CT	-

Order Code	Full Product Name	Bulb Material
91153400	MASTERCLOUR CDM-TC Elite 70W/930 G8.5 1CT/12	-
16368800	MASTERCLOUR CDM-TC Elite 70W/942 G8.5 1CT	-
93062700	MASTERCLOUR CDM-TC Elite 50W/930 G8.5 1CT/12	-

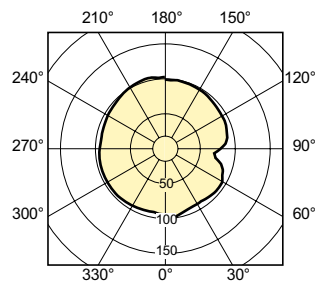
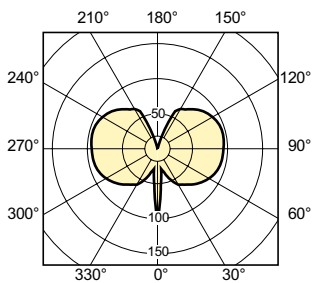
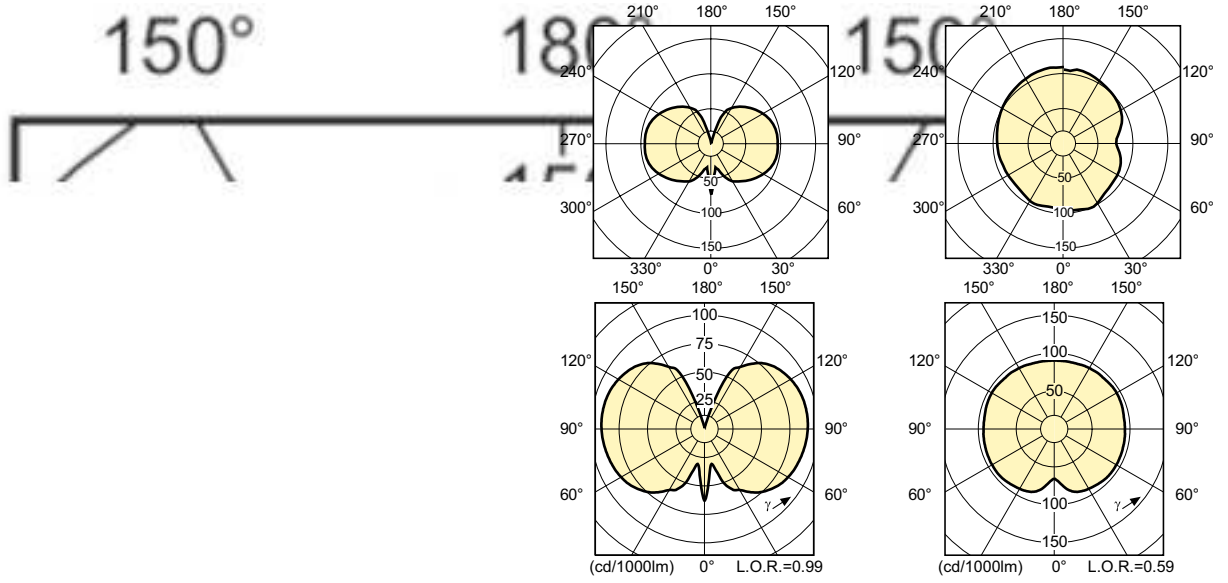
Colour Rendering Diagrams



LDCR_CDMTC-E_0002-Colour rendering diagram



MASTERColour CDM-TC Elite



MASTERColour CDM-TC Elite

