



Product Description

MASTERColour CDM-T

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

Benefits

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

Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Allows small-size luminaire designs that give high beam intensities

Application

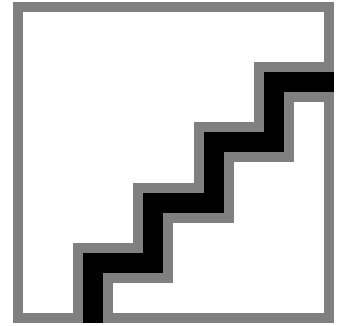
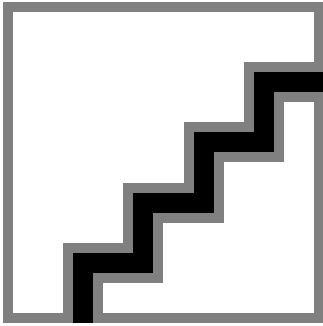
- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

Warnings and Safety

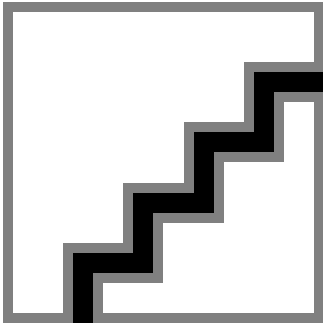
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35W/942 and 20W lamps, which must use electronic control gear.
- 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.

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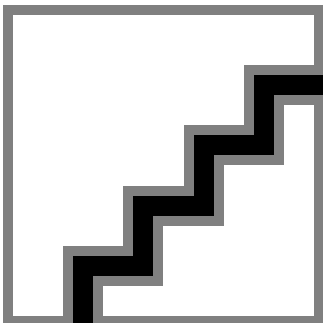
Versions



Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T 70W/830 G12 1CT/12	20 mm	0.75 in	7 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 70W/942 G12 1CT/12	20 mm	0.75 in	6 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 70W/942 G12 1CT/12	20 mm	0.75 in	6 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 150W/830 G12 1CT							
MASTERColour CDM-T 35W/830 G12 1CT/12	20 mm	0.75 in	5 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 35W/830 G12 1CT/12							
MASTERColour CDM-T 35W/842 G12 1CT/12	20 mm	0.75 in	5 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T 35W/842 G12 1CT/12							
MASTERColour CDM-T 150W/942 G12 1CT	20 mm	0.75 in	8 mm	55 mm	57 mm	56 mm	110 mm
MASTERColour CDM-T 70W/830 G12 1CT/12							



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T 250W/830 G12 1CT/12	25 mm	12.3 mm	71.5 mm	73.5 mm	72.5 mm	135 mm
MASTERColour CDM-T 250W/942 G12 1CT/12	25 mm	12.3 mm	71.5 mm	73.5 mm	72.5 mm	135 mm

MASTERCcolour CDM-T

Controls and Dimming	
Dimmable	no
Operating and Electrical	
Re-ignition Time (Min) (Max)	15 min
General Information	
Cap-Base	G12
Life To 10% Failures (Nom)	10000 h
Operating Position	UNIVERSAL
Mechanical and Housing	
Bulb Finish	Clear

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928082305125	MASTERCcolour CDM-T 70W/830 G12 1CT/12	80 kWh	A+	4.6 mg
928082305129	MASTERCcolour CDM-T 70W/830 G12 1CT/12	80 kWh	A+	4.6 mg
928084505129	MASTERCcolour CDM-T 70W/942 G12 1CT/12	80 kWh	A+	6.1 mg
928084505131	MASTERCcolour CDM-T 70W/942 G12 1CT/12	80 kWh	A+	6.1 mg
928083105125	MASTERCcolour CDM-T 35W/830 G12 1CT/12	43 kWh	A	3.1 mg
928083105129	MASTERCcolour CDM-T 35W/830 G12 1CT/12	43 kWh	A	3.1 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928094305125	MASTERCcolour CDM-T 35W/842 G12 1CT/12	43 kWh	A	2.7 mg
928094305129	MASTERCcolour CDM-T 35W/842 G12 1CT/12	43 kWh	A	2.7 mg
928083705125	MASTERCcolour CDM-T 150W/830 G12 1CT	162 kWh	A+	14.3 mg
928084605131	MASTERCcolour CDM-T 150W/942 G12 1CT	162 kWh	A	10.4 mg
928089805131	MASTERCcolour CDM-T 250W/830 G12 1CT/12	274 kWh	A+	27.5 mg
928094205131	MASTERCcolour CDM-T 250W/942 G12 1CT/12	272 kWh	A+	20.0 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Nom)
928082305125	MASTERCcolour CDM-T 70W/830 G12 1CT/12	0.98 A	96 V	80 V	88 V	73 W
928082305129	MASTERCcolour CDM-T 70W/830 G12 1CT/12	0.98 A	96 V	80 V	88 V	73 W
928084505129	MASTERCcolour CDM-T 70W/942 G12 1CT/12	0.98 A	96 V	80 V	88 V	73 W
928084505131	MASTERCcolour CDM-T 70W/942 G12 1CT/12	0.98 A	96 V	80 V	88 V	73 W
928083105125	MASTERCcolour CDM-T 35W/830 G12 1CT/12	0.53 A	90 V	76 V	82 V	39 W
928083105129	MASTERCcolour CDM-T 35W/830 G12 1CT/12	0.53 A	90 V	76 V	82 V	39 W
928094305125	MASTERCcolour CDM-T 35W/842 G12 1CT/12	-	93 V	77 V	85 V	39 W
928094305129	MASTERCcolour CDM-T 35W/842 G12 1CT/12	-	93 V	77 V	85 V	39 W
928083705125	MASTERCcolour CDM-T 150W/830 G12 1CT	1.8 A	106 V	86 V	96 V	147 W
928084605131	MASTERCcolour CDM-T 150W/942 G12 1CT	1.9 A	98 V	82 V	90 V	147 W
928089805131	MASTERCcolour CDM-T 250W/830 G12 1CT/12	2.99 A	103 V	87 V	95 V	249 W
928094205131	MASTERCcolour CDM-T 250W/942 G12 1CT/12	3.04 A	104 V	84 V	93 V	247 W

General Information

MASTERColour CDM-T

Order Code	Full Product Name	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928082305125	MASTERColour CDM-T 70W/830 G12 1CT/12	11000 h	12000 h	9000 h
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	11000 h	12000 h	9000 h
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	11000 h	12000 h	9000 h
928084505131	MASTERColour CDM-T 70W/942 G12 1CT/12	11000 h	12000 h	9000 h
928083105125	MASTERColour CDM-T 35W/830 G12 1CT/12	11000 h	12000 h	9000 h
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	11000 h	12000 h	9000 h

Order Code	Full Product Name	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928094305125	MASTERColour CDM-T 35W/842 G12 1CT/12	11000 h	12000 h	9000 h
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	11000 h	12000 h	9000 h
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	11000 h	12000 h	9000 h
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	11000 h	12000 h	9000 h
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	12000 h	15000 h	3500 h
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	12000 h	15000 h	3500 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928082305125	MASTERColour CDM-T 70W/830 G12 1CT/12	500 °C
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	500 °C
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	500 °C
928084505131	MASTERColour CDM-T 70W/942 G12 1CT/12	500 °C
928083105125	MASTERColour CDM-T 35W/830 G12 1CT/12	500 °C
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928094305125	MASTERColour CDM-T 35W/842 G12 1CT/12	500 °C
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	500 °C
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	650 °C
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	650 °C
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	700 °C
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	700 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Colour Code	Colour Designation	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)					
928082305125	MASTERColour CDM-T 70W/830 G12 1CT/12	0.432	0.395	830	Warm white (WW)	3000 K	84	70 %
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	0.432	0.395	830	Warm white (WW)	3000 K	84	70 %
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	0.377	0.376	942	Cool White (CW)	4200 K	92	65 %
928084505131	MASTERColour CDM-T 70W/942 G12 1CT/12	0.377	0.376	942	Cool White (CW)	4200 K	92	65 %
928083105125	MASTERColour CDM-T 35W/830 G12 1CT/12	0.428	0.397	830	Warm white (WW)	3000 K	83	50 %
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	0.428	0.397	830	Warm white (WW)	3000 K	83	50 %
928094305125	MASTERColour CDM-T 35W/842 G12 1CT/12	0.370	0.367	842	Cool White (CW)	4200 K	84	70 %
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	0.370	0.367	842	Cool White (CW)	4200 K	84	70 %
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	0.436	0.396	830	Warm white (WW)	3000 K	88	60 %
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	0.375	0.363	942	Cool White (CW)	4200 K	96	70 %

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Order Code	Full Product Name	Chromaticity	Chromaticity	Colour		Correlated Colour	Colour	Lumen
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation	Temperature (Nom)	Rendering Index (Nom)	Maintenance 10000 h (Nom)
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	0.435	0.393	830	Warm white (WW)	3000 K	85	92 %
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	0.376	0.368	942	Cool White (CW)	4200 K	91	86 %

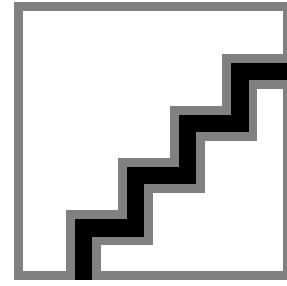
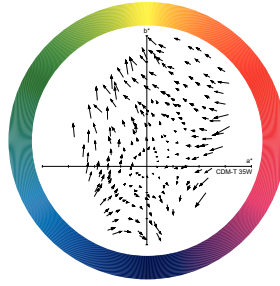
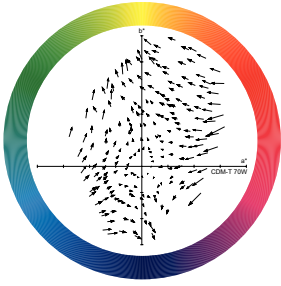
Light Technical (2/2)

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous	Luminous	Ratio
		Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Flux (Rated) (Min)	Flux (Rated) (Nom)	Scotopic/Photopic Lumens
928082305125	MASTERColour CDM-T 70W/830 G12 1CT/12	75 %	85 %	70 %	80 %	88 lm/W	5800 lm	6400 lm	-
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	75 %	85 %	70 %	80 %	88 lm/W	5800 lm	6400 lm	-
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	75 %	85 %	65 %	75 %	86 lm/W	-	6300 lm	-
928084505131	MASTERColour CDM-T 70W/942 G12 1CT/12	75 %	85 %	65 %	75 %	86 lm/W	-	6300 lm	-
928083105125	MASTERColour CDM-T 35W/830 G12 1CT/12	70 %	80 %	60 %	70 %	79 lm/W	-	3100 lm	-
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	70 %	80 %	60 %	70 %	79 lm/W	-	3100 lm	-
928094305125	MASTERColour CDM-T 35W/842 G12 1CT/12	80 %	90 %	75 %	85 %	77 lm/W	-	3000 lm	-
928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	80 %	90 %	75 %	85 %	77 lm/W	-	3000 lm	-
928083705125	MASTERColour CDM-T 150W/830 G12 1CT	65 %	75 %	60 %	70 %	90 lm/W	12000 lm	13300 lm	-
928084605131	MASTERColour CDM-T 150W/942 G12 1CT	75 %	85 %	70 %	80 %	84 lm/W	11200 lm	12400 lm	-
928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	-	98 %	-	97 %	111 lm/W	24780 lm	27540 lm	1.30
928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	-	98 %	-	94 %	105 lm/W	23400 lm	26000 lm	1.75

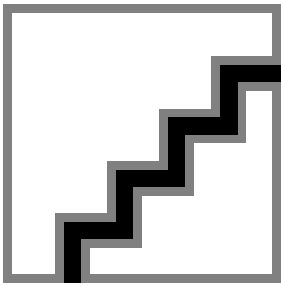
Mechanical and Housing

Order Code	Full Product Name	Bulb Shape	Order Code	Full Product Name	Bulb Shape
928082305125	MASTERColour CDM-T 70W/830 G12 1CT/12	T19	928094305125	MASTERColour CDM-T 35W/842 G12 1CT/12	T19
928082305129	MASTERColour CDM-T 70W/830 G12 1CT/12	T19	928094305129	MASTERColour CDM-T 35W/842 G12 1CT/12	T19
928084505129	MASTERColour CDM-T 70W/942 G12 1CT/12	T19	928083705125	MASTERColour CDM-T 150W/830 G12 1CT	T19
928084505131	MASTERColour CDM-T 70W/942 G12 1CT/12	T19	928084605131	MASTERColour CDM-T 150W/942 G12 1CT	T19
928083105125	MASTERColour CDM-T 35W/830 G12 1CT/12	T19	928089805131	MASTERColour CDM-T 250W/830 G12 1CT/12	T24
928083105129	MASTERColour CDM-T 35W/830 G12 1CT/12	T19	928094205131	MASTERColour CDM-T 250W/942 G12 1CT/12	T24

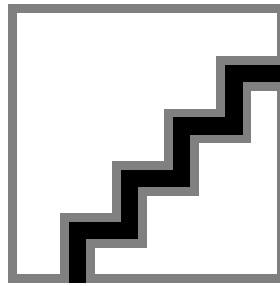
Colour Rendering Diagrams



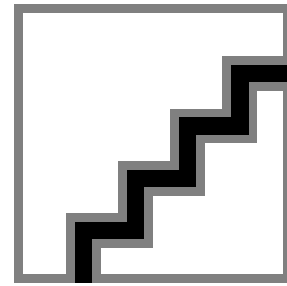
LDCR_CDM-T_150W_830-Colour rendering diagram



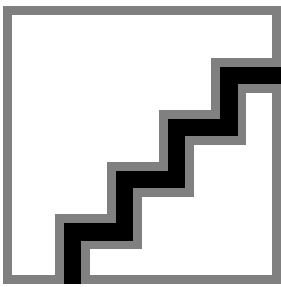
LDCR_CDM-T_70W_942-Colour rendering diagram



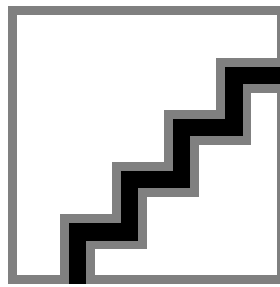
LDCR_CDM-T_150W_942-Colour rendering diagram



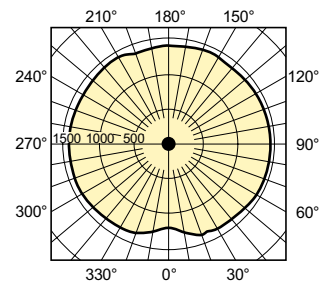
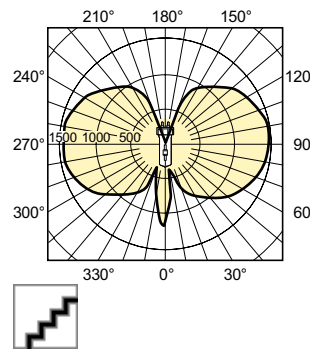
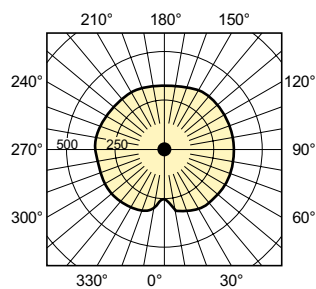
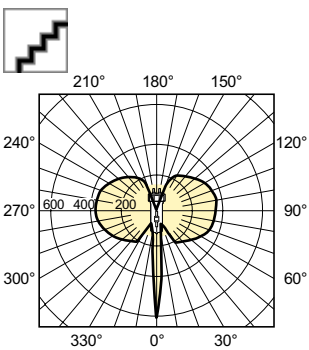
LDCR_CDM-T_250W_830-Colour rendering diagram



LDCR_CDM-T_250W_942-Colour rendering diagram



LDCR_CDM-T_35W_842_942-Colour rendering diagram



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