



# Product Description

## MASTERColour CDM-T Elite

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

### Benefits

- Outstanding rendering of displayed merchandise due to high colour rendering (Ra 90) in combination with high lumen output; best offer in the market for 'enhancing merchandize'
- Excellent colour quality, which 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

### Features

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

### Application

- Accent and display lighting with a sparkling effect, excellent solution for Retail
- Decorative outdoor floodlighting

# MASTERColour CDM-T Elite

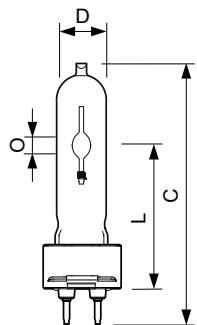
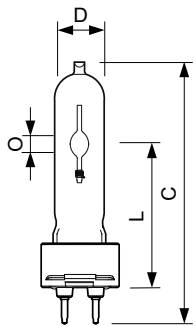
## Warnings and Safety

- 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. 35W & 70W lamps may also use electromagnetic 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

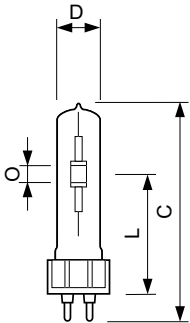


Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T Elite 35W/930 G12 1CT/12	20 mm	4.8 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T Elite 70W/942 G12 1CT	20 mm	7.75 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T Elite 50W/930 G12 1CT/12	20 mm	6 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T Elite 70W/930 G12 1CT/12	20 mm	7.15 mm	55 mm	57 mm	56 mm	103 mm
MASTERColour CDM-T Elite 35W/942 G12 1CT	20 mm	5.2 mm	55 mm	57 mm	56 mm	103 mm

Product	D (max)	D O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T Elite 20W/830 G12 1CT/12	20 mm	4 mm	55 mm	57 mm	56 mm	103 mm

# MASTERColour CDM-T Elite

## Dimensional drawing



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-T Elite 150W/930 G12 1CT/12	20 mm	9 mm	55 mm	57 mm	56 mm	110 mm

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	G12
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	T19

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	164 kWh	9.5 mg
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	22 kWh	3.5 mg
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	43 kWh	4.7 mg
928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	43 kWh	4.9 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	80 kWh	6.6 mg
928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	80 kWh	6.6 mg
928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	55 kWh	6.6 mg

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)			Power (Rated)	
			Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)	Power (Rated) (Nom)
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	-	98 V	86 V	92 V	-	150.1 W
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	-	100 V	90 V	95 V	20.0 W	20.1 W
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	0.500 A	90 V	80 V	85 V	-	39.1 W
928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	0.51 A	96 V	84 V	90 V	-	39.1 W

## MASTERColour CDM-T Elite

Order Code	Full Product Name	Lamp Current (EM)			Power (Rated)		
		(Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	(Min)	Power (Rated) (Nom)
928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	1 A	90 V	79 V	85 V	-	73.2 W
928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	0.97 A	93 V	81 V	87 V	-	73.2 W
928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	-	96 V	84 V	90 V	50.0 W	50.2 W

### General Information

Order Code	Full Product Name	Life To 10% Failures	Life To 20% Failures	Life To 50% Failures	Life To 5% Failures	Operating
		(Nom)	(Nom)	(Nom)	(Nom)	Position
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	10000 h	11000 h	12000 h	9000 h	P10
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	14000 h	16000 h	20000 h	12000 h	UNIVERSAL
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	14000 h	16000 h	20000 h	12000 h	UNIVERSAL
928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	10000 h	12000 h	15000 h	9000 h	UNIVERSAL
928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	14000 h	16000 h	20000 h	12000 h	UNIVERSAL
928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	10000 h	12000 h	15000 h	9000 h	UNIVERSAL
928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	14000 h	16000 h	20000 h	12000 h	UNIVERSAL

### Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)	Order Code	Full Product Name	Bulb Temperature (Max)
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	650 °C	928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	500 °C
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	250 °C	928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	500 °C
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	500 °C	928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	500 °C
			928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	500 °C

### Light Technical (1/2)

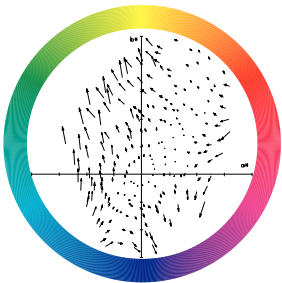
Order Code	Full Product Name	Chromaticity	Chromaticity	Colour		Correlated Colour	Colour	Colour
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation	Temperature (Nom)	Rendering Index (Min)	Rendering Index (Nom)
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	0.443	0.391	930	Warm white (WW)	3000 K	89	92
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	0.434	0.391	830	Warm white (WW)	3000 K	-	84
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	0.435	0.395	930	Warm white (WW)	3000 K	87	90
928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	0.366	0.364	942	Cool White (CW)	4200 K	87	90
928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	0.435	0.396	930	Warm white (WW)	3000 K	87	90
928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	0.362	0.363	942	Cool White (CW)	4200 K	87	90
928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	0.435	0.396	930	Warm white (WW)	3000 K	87	90

### Light Technical (2/2)

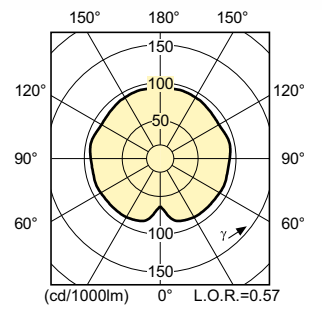
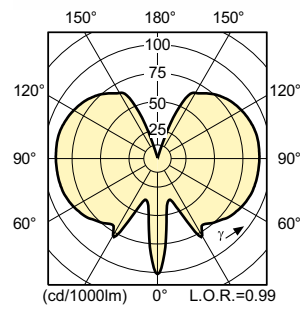
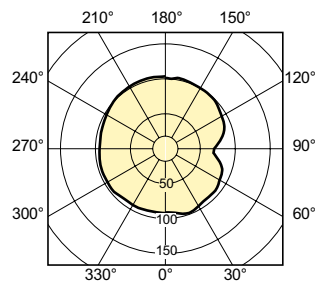
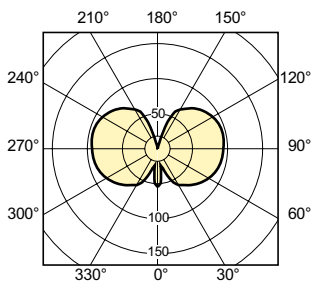
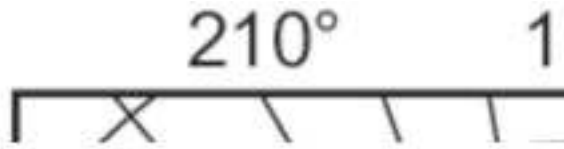
## MASTERColour CDM-T Elite

Order Code	Full Product Name	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 4000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928094705125	MASTERColour CDM-T Elite 150W/930 G12 1CT/12	95 %	75 %	73 %	91 %	86 %	84 %	98 lm/W	-	14600 lm
928183305125	MASTERColour CDM-T Elite 20W/830 G12 1CT/12	-	78 %	77 %	87 %	-	83 %	90 lm/W	1620 lm	1800 lm
928185205129	MASTERColour CDM-T Elite 35W/930 G12 1CT/12	95 %	83 %	80 %	93 %	90 %	88 %	98 lm/W	-	4050 lm
928193605129	MASTERColour CDM-T Elite 35W/942 G12 1CT	89 %	73 %	71 %	84 %	80 %	79 %	98 lm/W	-	3850 lm
928185305129	MASTERColour CDM-T Elite 70W/930 G12 1CT/12	97 %	83 %	82 %	95 %	90 %	88 %	103 lm/W	-	7800 lm
928193705129	MASTERColour CDM-T Elite 70W/942 G12 1CT	91 %	80 %	79 %	88 %	85 %	84 %	100 lm/W	-	7500 lm
928191705131	MASTERColour CDM-T Elite 50W/930 G12 1CT/12	97 %	83 %	82 %	95 %	90 %	88 %	108 lm/W	-	5450 lm

### Colour Rendering Diagrams



MASTERColour CDM-T Elite



## MASTERColour CDM-T Elite

