



# Beautiful sparkle, reliable life

## MASTERColour CDM-TC

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

### Benefits

- Long lamp life compared with incandescent and halogen lamps
- UV-Block quartz outer bulb for reduced fading risks
- Stable color impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation (which enhances comfort for shoppers and staff)

### Features

- Crisp white light
- Superior color quality
- Allows very small-size luminaires designs that give high beam intensities

### Application

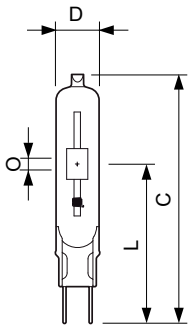
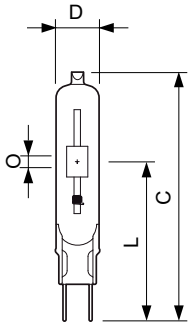
- Accent lighting display lighting with sparkling effect
- General and decorative lighting

### 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)
- Use only with electronic control gear. 35W/830 lamps may also use electromagnetic 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.

# MASTERCcolour CDM-TC

## Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-TC 35W/830 G8.5 1CT/12	15 mm	0.5 in	5 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC 35W/842 G8.5 1CT/12	15 mm	0.5 in	5 mm	51 mm	53 mm	52 mm	85 mm

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MASTERColour CDM-TC 70W/830 G8.5 1CT/12	15 mm	0.5 in	7 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC 70W/830 G8.5 1CT/12	15 mm	0.5 in	7 mm	51 mm	53 mm	52 mm	85 mm

### 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	G8.5
Life To 50% Failures (Nom)	12000 h
Operating Position	UNIVERSAL

### Mechanical and housing

Bulb Finish	Clear
Bulb Material	UV-Block Quartz
Bulb Shape	T14

## Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
48459300	MASTERColour CDM-TC 35W/830 G8.5 1CT/12	43 kWh	-	3.1 mg
20167615	MASTERColour CDM-TC 70W/830 G8.5 1CT/12	74 kWh	4.6 mg	4.6 mg
48461600	MASTERColour CDM-TC 35W/842 G8.5 1CT/12	43 kWh	-	2.7 mg
48463000	MASTERColour CDM-TC 70W/830 G8.5 1CT/12	80 kWh	-	4.6 mg

## Operating and electrical (1/2)

Order Code	Full Product Name	Lamp Current			
		(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
48459300	MASTERColour CDM-TC 35W/830 G8.5 1CT/12	0.53 A	96 V	80 V	88 V
20167615	MASTERColour CDM-TC 70W/830 G8.5 1CT/12	-	87 V	78 V	83 V

Order Code	Full Product Name	Lamp Current			
		(EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
48461600	MASTERColour CDM-TC 35W/842 G8.5 1CT/12	-	93 V	77 V	85 V
48463000	MASTERColour CDM-TC 70W/830 G8.5 1CT/12	-	87 V	78 V	83 V

# MASTERCcolour CDM-TC

## Operating and electrical (2/2)

Order Code	Full Product Name	Power	
		(Rated) (Min)	Power (Nom)
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	-	39.1 W
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	-	73.2 W

Order Code	Full Product Name	Power	
		(Rated) (Min)	Power (Nom)
48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	39.0 W	39.1 W
48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	-	73.2 W

## General information

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	10000 h	11000 h	9000 h
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	8000 h	9000 h	9000 h

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)
48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	8000 h	9000 h	6000 h
48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	8000 h	9000 h	9000 h

## Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	500 °C
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	550 °C

Order Code	Full Product Name	Bulb Temperature (Max)
48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	500 °C
48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	550 °C

## Light technical (1/3)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	0.432	0.394	830	Warm White (WW)
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	0.434	0.398	830	Warm White (WW)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	0.374	0.369	842	Cool White (CW)
48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	0.439	0.398	830	Warm White (WW)

## Light technical (2/3)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Lumen Maintenance					Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)
				10000 h (Nom)	2000 h (Min)	2000 h (Nom)	5000 h (Min)	5000 h (Nom)		
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	3000 K	81	50 %	70 %	80 %	50 %	65 %	79 lm/W	-
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	3000 K	83	65 %	75 %	85 %	65 %	75 %	86 lm/W	6300 lm
48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	4200 K	85	70 %	75 %	85 %	70 %	80 %	79 lm/W	-

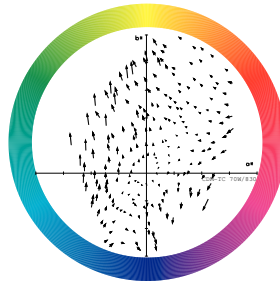
# MASTERCcolour CDM-TC

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour						Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)
			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)		
48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	3000 K	83	65 %	75 %	85 %	65 %	75 %	86 lm/W	-

## Light technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
48459300	MASTERCcolour CDM-TC 35W/830 G8.5 1CT/12	3100 lm	48461600	MASTERCcolour CDM-TC 35W/842 G8.5 1CT/12	3100 lm
20167615	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	6300 lm	48463000	MASTERCcolour CDM-TC 70W/830 G8.5 1CT/12	6300 lm

## Colour Rendering Diagrams



210°

180°

150°

