



Simply irresistible. Superior light quality from start to finish

MasterColor CDM-TC T4

MasterColor CDM lamp gives a unique combination of unbeatable light quality and consistent performance over lifetime while keeping running costs low. The Philips MasterColor Tubular Single-Ended T4 lamp is a compact, energy efficient, ceramic metal halide lamp that provides crisp, sparkling light.

Benefits

- Energy-efficient alternative to incandescent/halogen.
- Improved lumen maintenance over standard metal halide.
- Lamp to lamp color consistency over life.

Features

- 90 CRI (color rendering index)
- High lamp efficacy (up to 104LPW)
- Vertical position $\pm 60^\circ$ (39W); Universal operating position (70W)
- Dimensions, base and light center length are same as MasterColor.
- Features FadeBlock™—an integrated UV blocking medium for reduced fading of fabrics and paintings.
- 39W and 70 Watt versions.

Application

- Ideal for retail display lighting, and accent lighting.

MasterColor CDM-TC T4

Versions

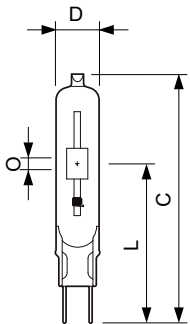
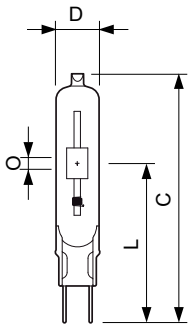


CDM-TC, 35W



CDM-TC 70W /830

Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MasterColor CDM-TC 35W/842 G8.5.1CT/12	15 mm	0.5 in	5 mm	51 mm	53 mm	52 mm	85 mm
MasterColor CDM-TC 35W/830 G8.5 T4 CL	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)
MasterColor CDM-TC 70W/830 G8.5 T4 CL	15 mm	0.5 in	7 mm	51 mm	53 mm	52 mm	85 mm

MasterColor CDM-TC T4

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 (CL)
Bulb Material	UV-Block Quartz
Bulb Shape	T4

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	43 kWh	A	3.1 mg
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	43 kWh	A+	2.7 mg
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	80 kWh	A+	4.6 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.53 A	96 V	80 V	88 V
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	-	93 V	77 V	85 V

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	-	87 V	78 V	83 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Min)	Power (Rated) (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	-	39.0 W
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	39.0 W	35 W

Order Code	Full Product Name	Power (Rated) (Min)	Power (Rated) (Nom)
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	-	73 W

General Information

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 5% Failures (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	10000 h	11000 h	9000 h
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	10000 h	9000 h	6000 h

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 5% Failures (Nom)
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	8000 h	9000 h	9000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	500 °C
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	550 °C

MasterColor CDM-TC T4

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.432	0.394	830	Warm White (WW)
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	0.370	0.365	842	Cool White (CW)

Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	0.439	0.398	830	Warm White (WW)

Light Technical (2/2)

Order Code	Full Product Name	Correlated								
		Color Temperature (Nom)	Color 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)	Luminous Flux (Rated) (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	3000 K	81	50 %	70 %	80 %	50 %	65 %	79 lm/W	3100 lm
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	4200 K	85	70 %	75 %	85 %	70 %	80 %	79 lm/W	3100 lm
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	3000 K	83	65 %	75 %	85 %	65 %	75 %	88 lm/W	6400 lm

Color Rendering Diagrams

