



# 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

## Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)
- Lamp contains mercury. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-555-0050

## Versions

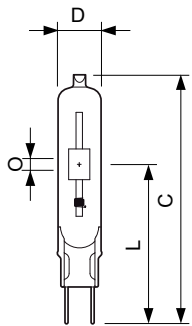
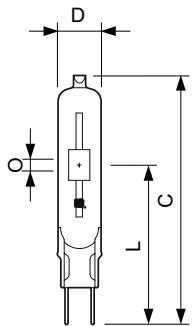


CDM-TC, 35W



CDM-TC 70W /830

## Dimensional drawing



### Product

MasterColor CDM-TC 35W/842 G8.5.1CT/12

MasterColor CDM-TC 35W/830 G8.5 T4 CL

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
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	-	39.1 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	-	73.2 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

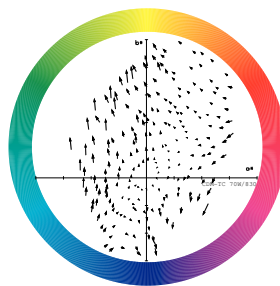
## Light Technical (1/2)

Order		Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Code	Color Designation	Order		Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Code	Color Designation
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.432	0.394	830	Warm White (WW)	373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	0.439	0.398	830	Warm White (WW)
208835	MasterColor CDM-TC 35W/842 G8.5.1CT/12	0.370	0.365	842	Cool White (CW)						

## Light Technical (2/2)

Order		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)
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 %	86 lm/W	6300 lm

## Color Rendering Diagrams



210°

180°

150°

