



# 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)

## Versions

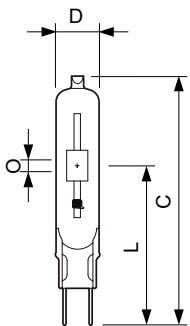
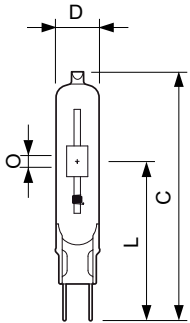


CDM-TC, 35W



CDM-TC 70W /830

## Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MasterColor CDM-TC 35W/830 G8.5 T4 CL	15 mm	0.5 in	5 mm	51 mm	53 mm	52 mm	85 mm
MasterColor 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)
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	T14

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy	
			Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	43 kWh	A	3.1 mg
928099905115	MasterColor CDM-TC 35W/842 G8.5.1CT/12	43 kWh	A+	2.7 mg
928086505115	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)
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.53 A	96 V	80 V	88 V
928099905115	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)
928086505115	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)	(Rated) (Nom)
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	-	39.1 W
928099905115	MasterColor CDM-TC 35W/842 G8.5.1CT/12	39.0 W	35 W

Order Code	Full Product Name	Power	
		(Rated) (Min)	(Rated) (Nom)
928086505115	MasterColor CDM-TC 70W/830 G8.5 T4 CL	-	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)
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	10000 h	11000 h	9000 h
928099905115	MasterColor CDM-TC 35W/842 G8.5.1CT/12	10000 h	9000 h	6000 h

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 5%
		Failures (Nom)	Failures (Nom)	Failures (Nom)
928086505115	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)
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	500 °C
928099905115	MasterColor CDM-TC 35W/842 G8.5.1CT/12	500 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928086505115	MasterColor CDM-TC 70W/830 G8.5 T4 CL	550 °C

# MasterColor CDM-TC T4

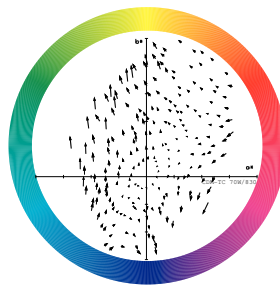
## Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Color		Order Code	Full Product Name	Chromaticity		Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation			Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.432	0.394	830	Warm White (WW)		35W/842 G8.5.1CT/12				
928099905115	MasterColor CDM-TC	0.370	0.365	842	Cool White (CW)	928086505115	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			Luminous Efficacy			Luminous Flux (Rated)
				10000 h (Nom)	2000 h (Min)	2000 h (Nom)	5000 h (Min)	5000 h (Nom)	(rated) (Nom)	
928085205115	MasterColor CDM-TC 35W/830 G8.5 T4 CL	3000 K	81	50 %	70 %	80 %	50 %	65 %	79 lm/W	3100 lm
928099905115	MasterColor CDM-TC 35W/842 G8.5.1CT/12	4200 K	85	70 %	75 %	85 %	70 %	80 %	79 lm/W	3100 lm
928086505115	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°

