



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

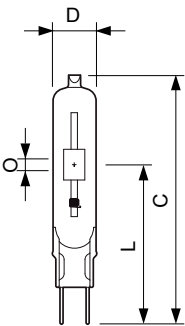
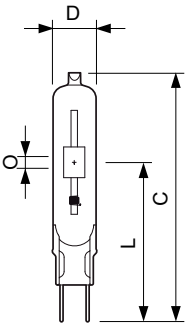
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain 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 or 1-800-555-0050

Versions



G8.5 T 14 mm Clear CCT of 3000K

Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MasterColor CDM-TC 35W/830 G8.5 T4 CL	5/8 in	0.5 in	1/4 in	2-1/16 in	2-1/8 in	2-1/16 in	3-3/8 in

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
MasterColor CDM-TC 70W/830 G8.5 T4 CL	5/8 in	0.5 in	5/16 in	2-1/16 in	2-1/8 in	2-1/16 in	3-3/8 in

MasterColor CDM-TC T4

Controls and dimming	
Dimmable	No
Operating and electrical	
Re-Ignition Time (Min) (Max)	15 min
General information	
Cap-Base	G8.5
Life To 50% Failures (Nom)	12000 h
Life To 5% Failures (Nom)	9000 h
Operating Position	Universal
Light technical	
Color Code	830
Color Designation	Warm White (WW)
Correlated Color Temperature (Nom)	3000 K
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/	Mercury (Hg) Content
		1000 h	(Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	43 kWh	3.1 mg
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	80 kWh	4.6 mg

Operating and electrical (1/2)

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

Order Code	Full Product Name	Lamp	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		Current (EM) (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 (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	39.1 W

Order Code	Full Product Name	Power (Nom)
373738	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%
		Failures (Nom)	Failures (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	10000 h	11000 h

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

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	932 °F

Order Code	Full Product Name	Bulb Temperature (Max)
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	1022 °F

Light technical (1/2)

MasterColor CDM-TC T4

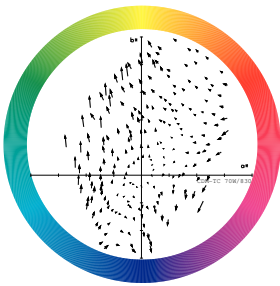
Order Code	Full Product Name	Chromaticity	Chromaticity	Color Rendering Index	Lumen Maintenance
		Coordinate X (Nom)	Coordinate Y (Nom)	(Nom)	10000 h (Nom)
373720	MasterColor CDM-TC 35W/830 G8.5 T4 CL	0.432	0.394	81	50 %
373738	MasterColor CDM-TC	0.439	0.398	83	65 %

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Rendering Index	Lumen Maintenance
		Coordinate X (Nom)	Coordinate Y (Nom)	(Nom)	10000 h (Nom)
	70W/830 G8.5 T4 CL				

Light technical (2/2)

Order Code	Full Product Name	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	70 %	80 %	50 %	65 %	79 lm/W	3100 lm
373738	MasterColor CDM-TC 70W/830 G8.5 T4 CL	75 %	85 %	65 %	75 %	86 lm/W	6300 lm

Color Rendering Diagrams



210°

180°

150°

