



A compact solution for retail

MasterColor CDM-TC T4 Elite

Philips MasterColor CDM Evolution 3000K Tubular Single-Ended T4 Lamp is the next evolution of MasterColor.

Benefits

- Color stability over life within $\pm 200\text{K}$
- Excellent color with 90 CRI (color rendering index)
- Color stability over life within $\pm 200\text{K}$
- Lamp-to-lamp color consistency over life
- High lamp efficacy (up to 112 LPW)
- Up to 33% better initial efficacy than existing MasterColor T4 lamps*
- 20,000 hours rated average life†
- 80% lumen maintenance at 15,000 hours
- * Based on a MasterColor Evolution 3000K Tubular Single-Ended T4 39W lamp with 4400 initial lumens vs. a CDM T4 35W lamp with 3,300 initial lumens.
- † Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

Features

- Universal operating position
- Dimensions, base and light center length are same as MasterColor and MasterColor Elite T4 lamps
- Features FadeBlock—an integrated UV blocking medium for reduced fading of fabrics and paintings
- Available in new 20W and 39W lamps

Application

- Ideal for retail display lighting and accent lighting

MasterColor CDM-TC T4 Elite

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

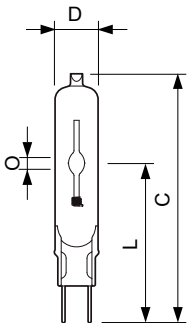


G8.5 T 14 mm Clear CCT of 3000K



G8.5 T 14 mm Clear CCT of 3000K

Dimensional drawing



Product	D (max)	D	O	L (min)	L (max)	L	C (max)
CDM20/TC/830 Elite	15 mm	0.55 in	4 mm	51 mm	53 mm	52 mm	85 mm

Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColor CDM-TC Elite	15 mm	4.8 mm	51 mm	53 mm	52 mm	85 mm
35W/930 G8.5						

MasterColor CDM-TC T4 Elite

Controls and dimming	
Dimmable	No
Operating and electrical	
Re-ignition Time (Min) (Max)	15 min
General information	
Cap-Base	G8.5
Life To 10% Failures (Nom)	14000 h
Life To 20% Failures (Nom)	16000 h
Life To 50% Failures (Nom)	20000 h
Life To 5% Failures (Nom)	12000 h
Operating Position	Universal
Light technical	
Color Designation	Warm White (WW)
Mechanical and housing	
Bulb Finish	Clear
Bulb Shape	T4

Approval and application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg) Content
		1000 h	(Nom)
410464	CDM20/TC/830 Elite	22 kWh	3.5 mg
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	43 kWh	4.7 mg

Operating and electrical (1/2)

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)
410464	CDM20/TC/830 Elite	100 V	90 V	95 V	20.0 W

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	90 V	80 V	85 V	-

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)
410464	CDM20/TC/830 Elite	20.1 W

Order Code	Full Product Name	Power (Nom)
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	39.1 W

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
410464	CDM20/TC/830 Elite	320 °C

Order Code	Full Product Name	Bulb Temperature (Max)
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	500 °C

Light technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Correlated Color Temperature (Nom)
410464	CDM20/TC/830 Elite	0.434	0.391	830	-
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	0.435	0.396	930	3000 K

Light technical (2/2)

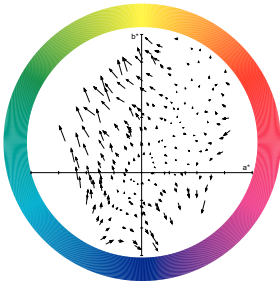
MasterColor CDM-TC T4 Elite

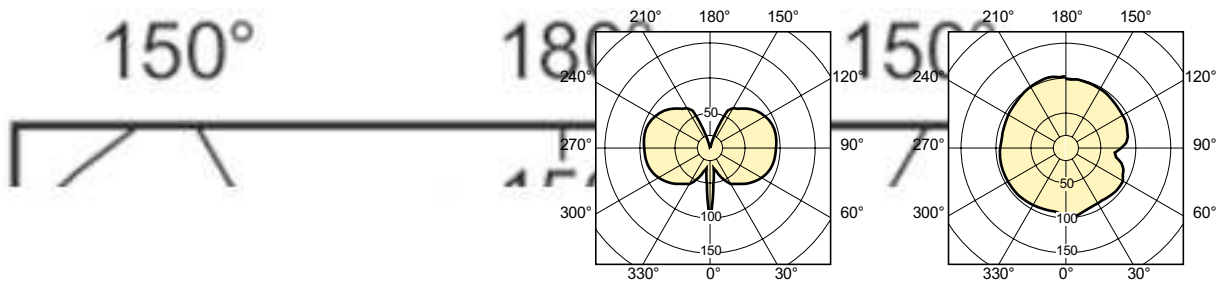
Order Code	Full Product Name	Color Rendering Index (Min)	Color Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
410464	CDM20/TC/830 Elite	-	85	78 %	77 %	87 %	83 %	87 lm/W	1620 lm	1750 lm
409169	MASTERColor CDM-TC Elite 35W/930 G8.5	87	90	80 %	78 %	93 %	88 %	102 lm/W	3600 lm	4000 lm

Mechanical and housing

Order Code	Full Product Name	Bulb Material	Order Code	Full Product Name	Bulb Material
410464	CDM20/TC/830 Elite	FadeBlock Quartz	409169	MASTERColor CDM-TC Elite 35W/930 G8.5	-

Colour Rendering Diagrams





MasterColor CDM-TC T4 Elite

