



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.

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)

Related products



CDM-TC, 35W

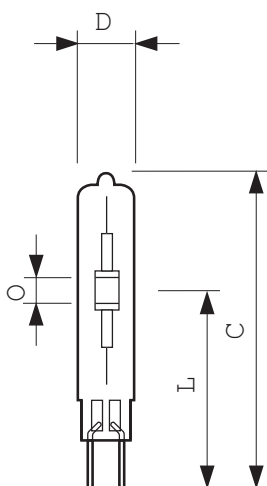


CDM-TC 70W /830



CDM-TC 70W /842

Dimensional drawing



CDM-TC, 35W/70W

Product	C (Max)	D (Max)	L (Min)	L (Norm)	L (Max)	O (Norm)
CDM-TC 35W/830 G8.5	85	15	51	52	53	5

Dimensional drawing

CDM-TC 70W/830 G8.5	85	15	51	52	53	7
CDM-TC 70W/842 G8.5	85	15	51	52	53	5
CDM-TC 35W/842 G8.5	85	15	51	52	53	5

General Characteristics (1/2)

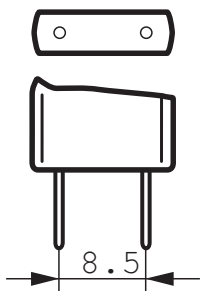
Order code	Full product name	Bulb	Bulb Material	Bulb Finish	Base	Operating Position	Avg. Hrs. Life	Avg. Life	Life to 10% failures EM	Life to 5% failures EL	Life to 5% failures EM
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	T4	FadeBlock Quartz	Clear	G8.5	Universal	12000	10000	8000	6000	6000
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	T4	FadeBlock Quartz	Clear	G8.5	Universal	12000	-	-	6000	-
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	T4	FadeBlock Quartz	Clear	G8.5	Universal	12000	-	-	6000	-
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	T4	FadeBlock Quartz	Clear	G8.5	Universal	12000	-	-	6000	-

General Characteristics (2/2)

Order code	Full product name	Life to 20% failures EL	Life to 20% failures EM	Life to 10% failures EL
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	9000	9000	8000
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	9000	-	8000
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	9000	-	8000

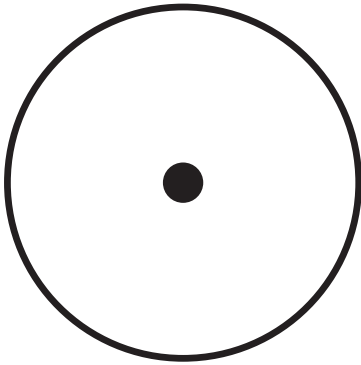
Order code	Full product name	Life to 20% failures EL	Life to 20% failures EM	Life to 10% failures EL
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	9000	-	8000

Installation diagrams



G8.5

Installation diagrams



any

Light Technical Characteristics (1/3)

Order code	Full product name	Color Code	Color Designation	Initial Lumens	Initial Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Lumen Maintenance 10000h	Lumen Maintenance 2000h	Lumen Maintenance 5000h
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	830	Warm White	3000	3100	0.432	0.394	81	-	-	-
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	842	Cool White	-	3000	0.370	0.365	85	-	-	-
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	830	Warm White	-	6500	0.439	0.398	80 (min), 83 (nom)	-	-	-
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	842	Cool White	-	5900	0.364	0.360	86 (min), 89 (nom)	-	-	-

Light Technical Characteristics (2/3)

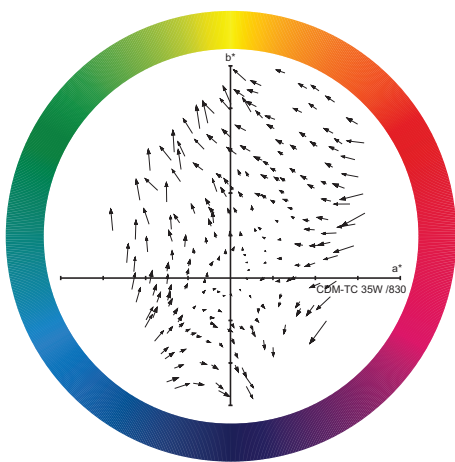
Order code	Full product name	Luminous Efficacy Lamp EM	Luminous Efficacy Lamp EL	Color Temperature	Lumen Maintenance EL 10000h	Lumen Maintenance EM 10000h	Lumen Maintenance EL 5000h	Lumen Maintenance EM 5000h	Lumen Maintenance EL 2000h	Lumen Maintenance EM 2000h	Lumen Maintenance 12000h
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	87	-	3000	50	35	65	55	80	70	-
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	-	79	4200	70	-	80	-	85	-	-
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	-	89	3000	65	-	75	-	85	-	-
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	-	80	4200	65	-	75	-	80	-	-

Light Technical Characteristics (3/3)

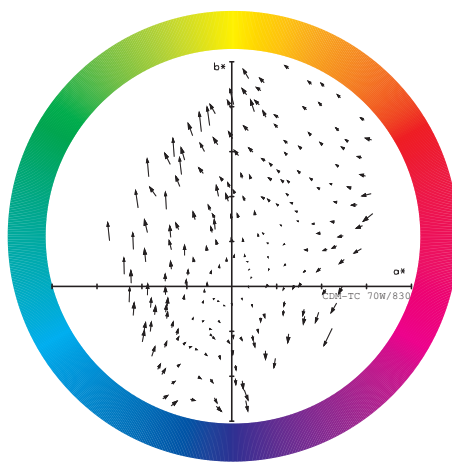
Order code	Full product name	Lumen Maintenance EL 12000h	Lamp Life at 50% power	Design Mean Lumens EL	Design Mean Lumens EM
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	-	-	2200	1850
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	-	-	2500	-
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	-	-	5100	-

Order code	Full product name	Lumen Maintenance EL 12000h	Lamp Life at 50% power	Design Mean Lumens EL	Design Mean Lumens EM
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	-	-	4300	-

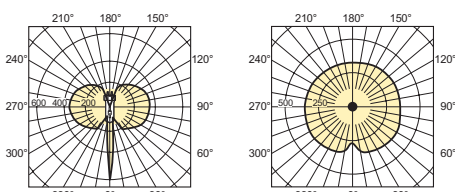
Light technical



CDM-TC 35W /830



CDM-TC 70W /830

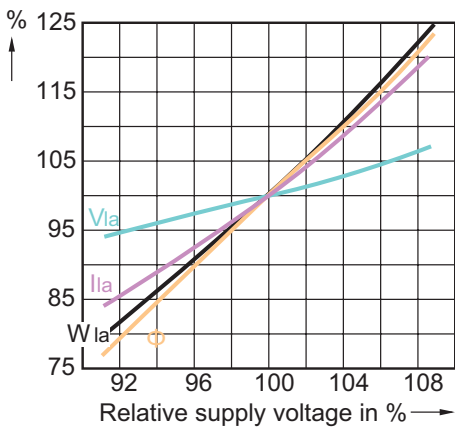


CDM-TC 35W, 70W /830

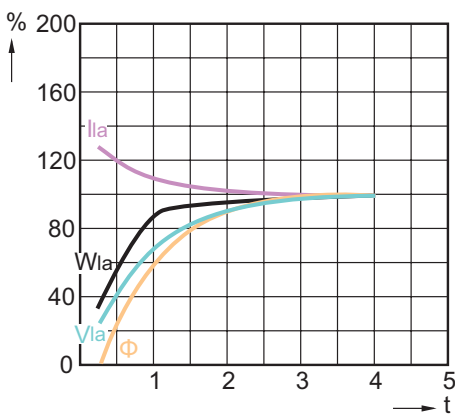
Electrical Characteristics

Order code	Full product name	Energy Used	Lamp Wattage EM	Lamp Wattage EL	Lamp Voltage	Lamp Current EM	Lamp Current EL	Dimmable
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	35	38	38	88	0.53	0.47	No
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	35	-	38	85	-	0.46	No
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	70	-	73	83	-	0.87	No
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	70	-	73	88	-	0.830	No

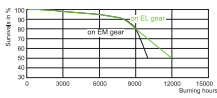
Performance diagrams



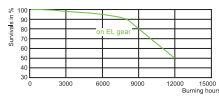
CDM-TC 35W, 70W /830



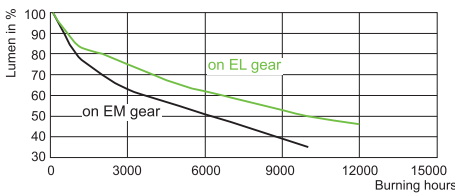
CDM-TC 35W, 70W /830, /842, /942



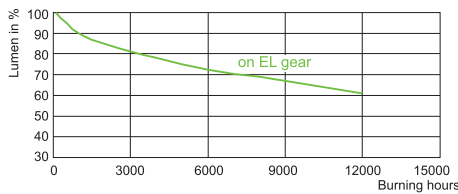
CDM-TC 35W /830
on electronic &
electromagnetic gear



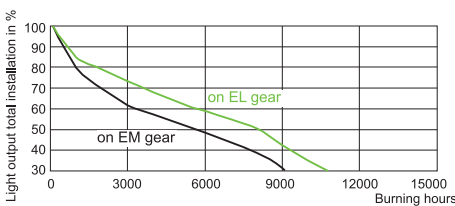
CDM-TC 70W /830
on electronic gear



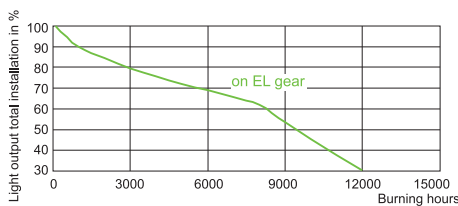
CDM-TC 35W /830 on electronic & electromagnetic
gear



CDM-TC 70W /830 on electronic gear



CDM-TC 35W /830 on electronic & electromagnetic
gear



CDM-TC 70W /830 on electronic gear

Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	3
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	2.7
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	4.5
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	7

Luminaire Design Requirements

Order code	Full product name	Bulb Temperature
928085205115	MASTERColour CDM-TC 35W/830 G8.5 T14 CL	500 (max)
928099905117	MasterColor CDM-TC 35W/842 T4 1CT	500 (max)
928086505117	MasterColor CDM-TC 70W/830 T4 CL 1CT	550 (max)
928094605117	MasterColor CDM-TC 70W/942 T4 CL 1CT	700 (max)



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www.philips.com/lighting

2012, August 3
data subject to change