We're thinking small, so you can think big

MasterColor CDM-TM

Introducing the smallest 20W ceramic metal halide lamp together with the unique e-Vision® electronic ballast. It's visually pleasing and financially rewarding, so the focus can be on your merchandise and not the ceiling clutter.

Benefits

· Miniaturization means smaller fixtures, less ceiling clutter and more focus on the merchandise.
· Positioning accuracy within the reflector for optimal reflector performance.
· Lamp, electronic ballast and twist & lock lamp base are developed as a system, and designed for easy installation and relamping.

Features

· Energy efficient system operation reduces operating costs.
· Excellent color quality of up to 90 CRI, 3000K.
· Lamp is up to 40% smaller than industry standard.
· Lamp, electronic ballast and twist & lock lamp base are developed as a system.
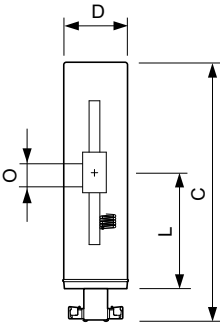· Available in 20 and 35 Watt.

Application

· Ideal for accent and display lighting, in specialty retail and architectural outdoor applications.

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)

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Dimensional drawing

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
CDM20/TM/830 12PK	13.2 mm	0.44 in	3 mm	22.3 mm	22.9 mm	22.6 mm	52 mm
CDM 35/TM/930	13.2 mm	0.44 in	4 mm	22.3 mm	22.9 mm	22.6 mm	52 mm

Controls and dimming

Dimmable	No

Operating and electrical

Re-Ignition Time (Min) (Max)	15 min

General information

Cap-Base	PGJ5
Life To 10% Failures (Nom)	10000 h
Life To 20% Failures (Nom)	11000 h
Life To 50% Failures (Nom)	12000 h
Life To 5% Failures (Nom)	9000 h
Operating Position	Universal

Light technical

Color Designation	Warm White (WW)
Correlated Color Temperature (Nom)	3000 K
Lumen Maintenance 10000 h (Nom)	60 %

Mechanical and housing

Bulb Finish	Clear
Bulb Shape	T13.3

Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
140400	CDM20/TM/830 12PK	24 kWh	2.4 mg
211391	CDM 35/TM/930	43 kWh	2.74 mg

Operating and electrical

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Nom)
140400	CDM20/TM/830 12PK	108 V	95 V	100 V	22.1 W

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Nom)
211391	CDM 35/TM/930	104 V	88 V	96 V	39.1 W

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
140400	CDM20/TM/830 12PK	380 ℃

Order Code	Full Product Name	Bulb Temperature (Max)
211391	CDM 35/TM/930	480 ℃

Light technical (1/2)

MasterColor CDM-TM

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Color Rendering Index (Min)		Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Color Rendering Index (Min)
140400	CDM20/TM/830 12PK	0.433	0.392	830	84		211391	CDM 35/TM/930	0.436	0.396	930	88

Light technical (2/2)

Order Code	Full Product Name	Color Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
140400	CDM20/TM/830 12PK	87	80 %	75 %	65 %	72 lm/W	1600 lm
211391	CDM 35/TM/930	91	85 %	80 %	70 %	77 lm/W	3000 lm