



High efficiency with a crisp, sparkling light

MasterColor CDM PAR38

Philips MasterColor® Ceramic Metal Halide PAR38 Lamps offer high-efficiency, ceramic metal halide reflector lamps with a stable color over lifetime and a crisp, sparkling light.

Benefits

- Philips MC PAR38 lamps deliver improved lumen maintenance over standard metal halide PAR lamps.
- Philips MC PAR38 lamps reduce lighting cost of ownership - they are an energy efficient alternative to incandescent or halogen PAR lamps.

Features

- Superior color stability— within $\pm 200\text{K}$.
- Lamp to lamp color consistency over life higher lumen maintenance.
- Improved lumen maintenance over standard metal halide.
- Feature ALTO lamp technology with reduced mercury.
- Operate on existing ballasts.
- Lamps feature integrated UV blocking medium for reduced fading of fabrics and paintings.
- 70 and 100 watt flood and spot, 3000, and 4000K versions

Application

- Ideal for retail accent and display lighting and architectural lighting for interior and exterior 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)

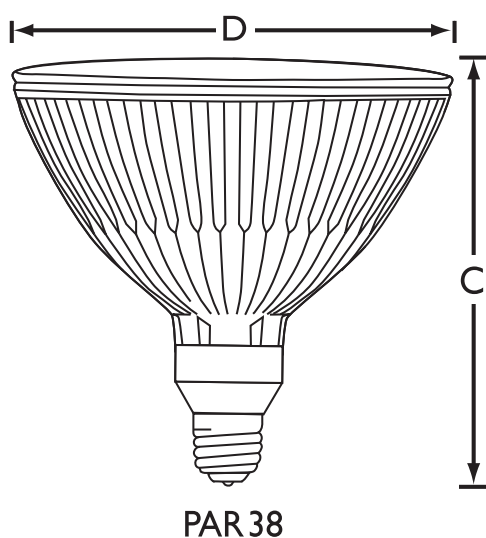
PHILIPS

Related products



CDM PAR38 Medium Base

Dimensional drawing



MasterColor CDM 70W/830 Med PAR38 FL CL 1CT

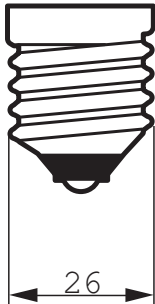
Product	C (Max)	D (Norm)
CDM 70W/830 E26 PAR38 Flood 25D	138.112	120.65
CDM 70W/830 E26 PAR38 Spot 15D	138.112	120.65
CDM 70W/940 E26 PAR38 Flood 25D	138.112	120.65
CDM 70W/940 E26 PAR38 Spot 15D	138.112	120.65
CDM 100W/830 E26 PAR38 Flood 25D	138.112	120.65
CDM 100W/830 E26 PAR38 Spot 15D	138.112	120.65
CDM 100W/940 E26 PAR38 Flood 25D	138.112	120.65
CDM 100W/940 E26 PAR38 Spot 15D	138.112	120.65

General Characteristics

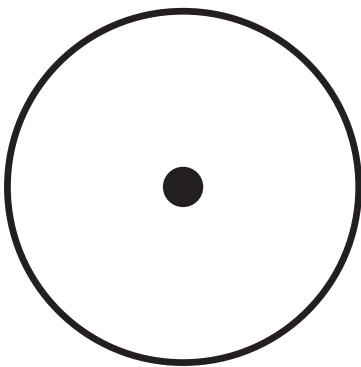
Order code	Full product name	Base	Bulb	Bulb Finish	Operating Position	RatedAvgLife(See Family Notes)
928601129203	MasterColor CDM 70W/830 Med PAR38 FL CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601129303	MasterColor CDM 70W/830 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601129503	MasterColor CDM 70W/940 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601129603	MasterColor CDM 70W/940 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601129803	MasterColor CDM 100W/830 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr

Order code	Full product name	Base	Bulb	Bulb Finish	Operating Position	RatedAvgLife(See Family Notes)
928601129903	MasterColor CDM 100W/830 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601130103	MasterColor CDM 100W/940 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr
928601130203	MasterColor CDM 100W/940 Med PAR38 CL 1CT	Medium	PAR38	Clear	Universal	12500 hr

Installation diagrams



E26



any

Light Technical Characteristics (1/2)

Order code	Full product name	Beam Description	Beam Angle	Approx. MBCP	Color Code	Color Rendering Index	Color Designation	Color Temperature	Initial Lumens	Initial Lumens	Chromaticity Coordinate X
928601129203	MasterColor CDM 70W/830 Med PAR38 FL CL 1CT	Flood	25 D	18000 cd	830	80 (min), 83 (nom) Ra8	Warm White	3000 K	4100 Lm	4100 Lm	0.430 -
928601129303	MasterColor CDM 70W/830 Med PAR38 CL 1CT	Spot	15 D	12000 cd	830	80 (min), 83 (nom) Ra8	Warm White	3000 K	4100 Lm	4100 Lm	0.430 -
928601129503	MasterColor CDM 70W/940 Med PAR38 CL 1CT	Flood	25 D	15000 cd	940	90 (min), 92 (nom) Ra8	Cool White	4000 K	3700 Lm	3700 Lm	0.382 -
928601129603	MasterColor CDM 70W/940 Med PAR38 CL 1CT	Spot	15 D	40000 cd	940	90 (min), 92 (nom) Ra8	Cool White	4000 K	3700 Lm	3700 Lm	0.382 -
928601129803	MasterColor CDM 100W/830 Med PAR38 CL 1CT	Flood	25 D	24000 cd	830	80 (min), 82 (nom) Ra8	Warm White	3000 K	6200 Lm	6200 Lm	0.435 -

Order code	Full product name	Beam Description	Beam Angle	Approx. MBCP	Color Code	Color Rendering Index	Color Designation	Color Temperature	Initial Lumens	Initial Lumens	Chromaticity Coordinate X
928601129903	MasterColor CDM 100W/830 Med PAR38 CL 1CT	Spot	15 D	65000 cd	830	80 (min), 82 (nom) Ra8	Warm White	3000 K	6200 Lm	6200 Lm	0.435 -
928601130103	MasterColor CDM 100W/940 Med PAR38 CL 1CT	Flood	25 D	19000 cd	940	90 (min), 92 (nom) Ra8	Cool White	4000 K	5700 Lm	5700 Lm	0.384 -
928601130203	MasterColor CDM 100W/940 Med PAR38 CL 1CT	Spot	15 D	52000 cd	940	90 (min), 92 (nom) Ra8	Cool White	4000 K	5700 Lm	5700 Lm	0.384 -

Light Technical Characteristics (2/2)

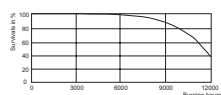
Order code	Full product name	Chromaticity Coordinate Y
928601129203	MasterColor CDM 70W/830 Med PAR38 FL CL 1CT	0.397 (min), 0.403 (nom), 0.409 (max) -
928601129303	MasterColor CDM 70W/830 Med PAR38 CL 1CT	0.397 (min), 0.403 (nom), 0.409 (max) -
928601129503	MasterColor CDM 70W/940 Med PAR38 CL 1CT	0.373 (min), 0.379 (nom), 0.385 (max) -
928601129603	MasterColor CDM 70W/940 Med PAR38 CL 1CT	0.373 (min), 0.379 (nom), 0.391 (max) -
928601129803	MasterColor CDM 100W/830 Med PAR38 CL 1CT	0.389 (min), 0.395 (nom), 0.401 (max) -

Order code	Full product name	Chromaticity Coordinate Y
928601129903	MasterColor CDM 100W/830 Med PAR38 CL 1CT	0.389 (min), 0.395 (nom), 0.401 (max) -
928601130103	MasterColor CDM 100W/940 Med PAR38 CL 1CT	0.369 (min), 0.375 (nom), 0.381 (max) -
928601130203	MasterColor CDM 100W/940 Med PAR38 CL 1CT	0.369 (min), 0.375 (nom), 0.381 (max) -

Electrical Characteristics

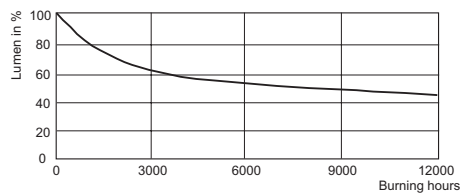
Order code	Full product name	Energy Used	Lamp Wattage EM	Lamp Wattage EL	Lamp Voltage	Lamp Current EM	Lamp Current EL
928601129203	MasterColor CDM 70W/830 Med PAR38 FL CL 1CT	70 W	70 W	70 W	95 V	0.92 A	0.9 A
928601129303	MasterColor CDM 70W/830 Med PAR38 CL 1CT	70 W	70 W	70 W	95 V	0.92 A	0.9 A
928601129503	MasterColor CDM 70W/940 Med PAR38 CL 1CT	70 W	70 W	70 W	102 V	0.8 A	0.8 A
928601129603	MasterColor CDM 70W/940 Med PAR38 CL 1CT	70 W	70 W	70 W	102 V	0.8 A	0.8 A
928601129803	MasterColor CDM 100W/830 Med PAR38 CL 1CT	100 W	100 W	100 W	90 V	1.1 A	1.1 A
928601129903	MasterColor CDM 100W/830 Med PAR38 CL 1CT	100 W	100 W	100 W	90 V	1.1 A	1.1 A
928601130103	MasterColor CDM 100W/940 Med PAR38 CL 1CT	100 W	95 W	100 W	102 V	1.1 A	1.1 A
928601130203	MasterColor CDM 100W/940 Med PAR38 CL 1CT	100 W	95 W	100 W	102 V	1.1 A	1.1 A

Performance diagrams

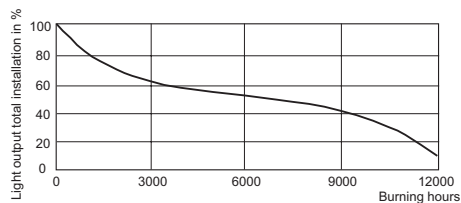


PAR38 70W /
830, /940

Performance diagrams



PAR38 70W /830, /940



PAR38, 70W, /830, /940

Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601129203	MasterColor CDM 70W/830 Med PAR38 FL CL 1CT	190 (max) C	350 (max) C
928601129303	MasterColor CDM 70W/830 Med PAR38 CL 1CT	190 (max) C	350 (max) C
928601129503	MasterColor CDM 70W/940 Med PAR38 CL 1CT	190 (max) C	350 (max) C
928601129603	MasterColor CDM 70W/940 Med PAR38 CL 1CT	190 (max) C	350 (max) C
928601129803	MasterColor CDM 100W/830 Med PAR38 CL 1CT	190 (max) C	350 (max) C

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601129903	MasterColor CDM 100W/830 Med PAR38 CL 1CT	190 (max) C	350 (max) C
928601130103	MasterColor CDM 100W/940 Med PAR38 CL 1CT	190 (max) C	350 (max) C
928601130203	MasterColor CDM 100W/940 Med PAR38 CL 1CT	190 (max) C	350 (max) C



© 2013 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2013, March 26
data subject to change