



# 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.

# MasterColor CDM PAR38

## Warnings and Safety

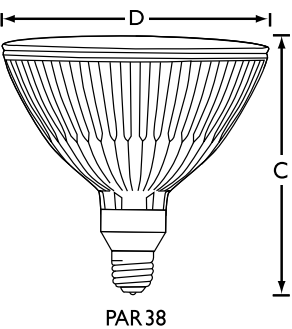
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain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

## Versions



CDM PAR38 Medium Base

## Dimensional drawing



Product	D	D	C (max)
MasterColor CDM70/PAR38/FL/3K ALTO ELITE 12PK	4.76 in	4-13/16 in	5-5/16 in
MasterColor CDM100/PAR38/FL/3K ALTO ELITE 12PK	4.76 in	4-13/16 in	5-5/16 in
MasterColor CDM100/PAR38/FL/4K ALTO ELITE 12PK	4.76 in	4-13/16 in	5-5/16 in

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Controls and dimming	
Dimmable	No
Operating and electrical	
Re-ignition Time (Min) (Max)	8 min
General information	
Cap-Base	E26
Life To 50% Failures (Nom)	16000 h
Operating Position	Universal
Luminaire design requirements	
Bulb Temperature (Max)	662 °F
Light technical	
Beam Angle (Max)	31 °
Beam Angle (Min)	19
Beam Angle (Nom)	25 °
Beam Description	Flood
Mechanical and housing	
Bulb Finish	Clear
Bulb Shape	PAR38

Operating and electrical (1/2)

Order		Lamp Current		Voltage	
Code	Full Product Name	(EM) (Nom)	Voltage (Max)	Voltage (Min)	(Nom)
456475	MasterColor CDM70/ PAR38/FL/3K ALTO ELITE 12PK	0.92 A	115 V	90 V	95 V
456517	MasterColor CDM100/ PAR38/FL/3K ALTO ELITE 12PK	1.1 A	110 V	85 V	90 V
456533	MasterColor CDM100/ PAR38/FL/4K ALTO ELITE 12PK	1.10 A	122 V	97 V	102 V

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)
456475	MasterColor CDM70/PAR38/FL/3K ALTO ELITE 12PK	70 W
456517	MasterColor CDM100/PAR38/FL/3K ALTO ELITE 12PK	100 W

Order Code	Full Product Name	Power (Nom)
456533	MasterColor CDM100/PAR38/FL/4K ALTO ELITE 12PK	95.0 W

Light technical (1/2)

Order		Chromaticity	Chromaticity	Color	
Code	Full Product Name	Coordinate X (Nom)	Coordinate Y (Nom)	Code	Color Designation
456475	MasterColor CDM70/ PAR38/FL/3K ALTO ELITE 12PK	0.430	0.403	830	Warm White (WW)
456517	MasterColor CDM100/	0.430	0.402	830	Warm White (WW)

Order		Chromaticity	Chromaticity	Color	
Code	Full Product Name	Coordinate X (Nom)	Coordinate Y (Nom)	Code	Color Designation
	PAR38/FL/3K ALTO ELITE 12PK				
456533	MasterColor CDM100/ PAR38/FL/4K ALTO ELITE 12PK	0.380	0.375	940	Cool White (CW)

Light technical (2/2)

Order		Correlated Color	Color Rendering Index	Color Rendering Index	Luminous Flux	Luminous Intensity
Code	Full Product Name	Temperature (Nom)	(Min)	(Nom)	(Rated) (Nom)	(Nom)
456475	MasterColor CDM70/ PAR38/FL/3K	3000 K	80	87	4800 lm	15000 cd

Order		Correlated Color	Color Rendering Index	Color Rendering Index	Luminous Flux	Luminous Intensity
Code	Full Product Name	Temperature (Nom)	(Min)	(Nom)	(Rated) (Nom)	(Nom)
	ALTO ELITE 12PK					
456517	MasterColor CDM100/	3000 K	-	92	6800 lm	20000 cd

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Order	Full Product	Correlated	Color	Color	Luminous	
		Color	Rendering	Rendering	Flux	Luminous
Code	Name	Temperature	Index	Index	(Rated)	Intensity
		(Nom)	(Min)	(Nom)	(Nom)	(Nom)
	PAR38/FL/3K					
	ALTO ELITE					
	12PK					
456533	MasterColor	4200 K	-	92	6400 lm	20000 cd
	CDM100/					

Order	Full Product	Correlated	Color	Color	Luminous	
		Color	Rendering	Rendering	Flux	Luminous
Code	Name	Temperature	Index	Index	(Rated)	Intensity
		(Nom)	(Min)	(Nom)	(Nom)	(Nom)
	PAR38/FL/4K					
	ALTO ELITE					
	12PK					

