



## High efficiency with a crisp, sparkling light

### MasterColor CDM PAR20

Philips MasterColor Ceramic Metal Halide PAR Lamps offer a range of compact, high-efficiency, ceramic metal halide reflector lamps with a stable color over lifetime and a crisp, sparkling light. They deliver superior, energy-efficient accent lighting with consistent, outstanding color required for retail and architectural applications.

#### Benefits

- Low wattage lamps in small sizes for powerful accents.
- Improved lumen maintenance over standard metal halide.
- Energy efficient alternative to halogen.

#### 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.
- Energy-efficient alternative to incandescent/halogen.
- Operate on existing ballasts.
- Lamps feature integrated UV blocking medium for reduced fading of fabrics and paintings.
- 22 and 39 watt flood and spot, 3000, and 4000K versions.

#### Application

- Ideal for retail accent and display lighting and architectural lighting for interior and exterior applications.

**PHILIPS**

**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

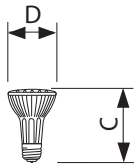
other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Related products



PAR20 Med base

Dimensional drawing



MasterColor CDM 35W/830 Med PAR20 FL 1CT

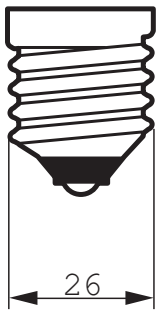
Product	C (Max)	D (Norm)
CDM 35W/830 E26 PAR20 FL 30D U FB	3.75	2.480
CDM 35W/830 E26 PAR20 SP 10D U FB	3.75	2.480
CDM 35W/942 E26 PAR20 SP 10D U FB	3.75	2.55
CDM 35W/942 E26 PAR20 FL 30D U FB	3.75	2.55
CDM 20W/830 E26 PAR20 SP 8D U FB	3.62	2.55
CDM 20W/830 E26 PAR20 FL 30D U FB	3.62	2.55

**General Characteristics**

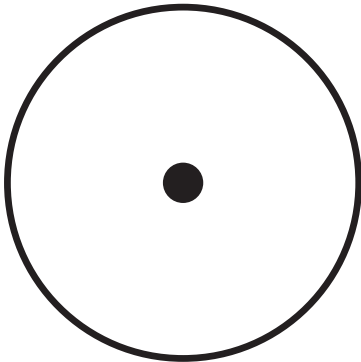
Order code	Full product name	Base	Bulb	Bulb Material	Bulb Finish	Operating Position	Main Application	RatedAvgLife(See Family Notes)	Lens Epoxy Temperature
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	9000 hr	160 (max) C
928601133504	MasterColor CDM 35W/830 Med PAR20 SP 1CT	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	9000 hr	-
928601158302	MasterColor CDM 35W/942 Med PAR20 Spot U	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	6000 hr	-
928601158402	MasterColor CDM 35W/942 Med PAR20 Flood U	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	6000 hr	-

Order code	Full product name	Base	Bulb	Bulb Material	Bulb Finish	Operating Position	Main Application	RatedAvgLife(See Family Notes)	Lens Epoxy Temperature
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	9000 hr	-
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	Medium	PAR20	Hard Glass	Reflector	Universal	General Lighting	9000 hr	160 (max) C

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	Luminous Efficacy Lamp	Lumen Maintenance 2000h
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	Flood	30 D	5000 cd	830	75 (min), 81 (nom) Ra8	-	3000 K	2000 Lm	57 Lm/W	70 %
928601133504	MasterColor CDM 35W/830 Med PAR20 SP 1CT	Spot	10 D	23000 cd	830	75 (min), 81 (nom) Ra8	-	3000 K	2000 Lm	52 Lm/W	70 %
928601158302	MasterColor CDM 35W/942 Med PAR20 Spot U	Spot	10 D	21500 cd	942	85 (min), 92 (nom) Ra8	Cool White	4100 K	1950 Lm	50 Lm/W	70 %
928601158402	MasterColor CDM 35W/942 Med PAR20 Flood U	Flood	30 D	5000 cd	942	85 (min), 92 (nom) Ra8	Cool White	4100 K	1950 Lm	1950 Lm/W	70 %
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	Spot	8 D	18000 cd	830	75 (min), 81 (nom) Ra8	Cool White	3000 K	940 Lm	43 Lm/W	70 %
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	Flood	30 D	2800 cd	830	75 (min), 81 (nom) Ra8	Cool White	3000 K	980 Lm	45 Lm/W	70 %

## Light Technical Characteristics (2/2)

Order code	Full product name	Lumen Maintenance 5000h	Design Mean Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	55 %	1300 Lm	433 -	402 -
928601133504	MasterColor CDM 35W/830 Med PAR20 SP 1CT	55 %	1400 Lm	433 -	402 -
928601158302	MasterColor CDM 35W/942 Med PAR20 Spot U	50 %	1650 Lm	0.375 -	0.370 -
928601158402	MasterColor CDM 35W/942 Med PAR20 Flood U	-	1650 Lm	0.375 -	0.370 -
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	55 %	-	0.434 -	0.398 -
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	55 %	-	0.434 -	0.398 -

Order code	Full product name	Energy Used	Lamp Voltage	Lamp Current
928601158302	MasterColor CDM 35W/942 Med PAR20 Spot U	35 W	85 V	0.450 A
928601158402	MasterColor CDM 35W/942 Med PAR20 Flood U	35 W	85 V	0.450 A
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	20 W	100 V	0.22 A
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	20 W	100 V	0.22 A

## Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	2.8 (max) mg	239 p/LuHr
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	2.4 (max) mg	-
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	2.4 (max) mg	-

## Electrical Characteristics

Order code	Full product name	Energy Used	Lamp Voltage	Lamp Current
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	35 W	88 V	0.525 A
928601133504	MasterColor CDM 35W/830 Med PAR20 SP 1CT	35 W	88 V	0.525 A

## Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601133403	MasterColor CDM 35W/830 Med PAR20 FL 1CT	200 (max) C	300 (max) C
928601133504	MasterColor CDM 35W/830 Med PAR20 SP 1CT	200 (max) C	300 (max) C

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601158302	MasterColor CDM 35W/942 Med PAR20 Spot U	200 (max) C	300 (max) C
928601158402	MasterColor CDM 35W/942 Med PAR20 Flood U	200 (max) C	300 (max) C

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601164002	MasterColor CDM 20W Med PAR20 SP 1CT	200 (max) C	300 (max) C
928601164102	MasterColor CDM 20W Med PAR20 FL 1CT	200 (max) C	300 (max) C



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data subject to change