



MasterColor CDM ED23 1/2 Elite

MasterColor CDM 70W PS ED23 1/2 U ELITE

Philips MasterColor Ceramic Metal Halide Pulse Start ED23 1/2 Lamps are a better value than quartz metal halide, with longer life, higher lumen maintenance, and energy efficiency.

Product data

• General Characteristics

System Description	Pulse Start
Base	Mogul [Mogul]
Base Information	Nic/Brass [Nickel/Brass Base]
Bulb	ED23 1/2
Bulb Material	Hard Glass
Bulb Finish	Clear
Operating Position	Universal [Any or Universal (U)]
Main Application	General Lighting
RatedAvgLife(See Family Notes)	20000 hr

Lamp Voltage	100 V
Lamp Current	0.9 A
Ignition Time	10 (max) s
Re-ignition Time [min]	10 (max) min

• Environmental Characteristics

Mercury (Hg) Content	7.1 (max) mg
Picogram per Lumen Hour	66 p/LuHr

• Light Technical Characteristics

Color Code	841 [CCT of 4100K]
Color Rendering Index	88 Ra8
Color Designation	Cool White
Color Temperature	4370 K
Color Temperature technical	4170 (min), 4370 (nom), 4570 (max) K
Initial Lumens	6800 Lm
Luminous Efficacy Lamp	97 Lm/W
Lumen Maintenance - 10% life	92 %
Lumen Maintenance - 40% life	80 %
Design Mean Lumens	5440 Lm
Chromaticity Coordinate X	0.355 (min), 0.364 (nom), 0.373 (max)
Chromaticity Coordinate Y	0.353 (min), 0.359 (nom), 0.365 (max)

• UV-related Characteristics

Damage Factor D/fc PET (NIOSH)	0.78 - 37.7 h500lx
UV A	29.1 mW/cm ²
UV B	0.62 mW/cm ²
UV C	0.02 mW/cm ²

• Luminaire Design Requirements

Cap-Base Temperature	190 (max) C
Bulb Temperature	400 (max) C

• Product Dimensions

Light Center Length L	5 in
Max. Overall Length (MOL) - C	7.75 (max) in
Diameter D	2.938 in

• Electrical Characteristics

Energy Used	70 W
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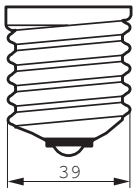
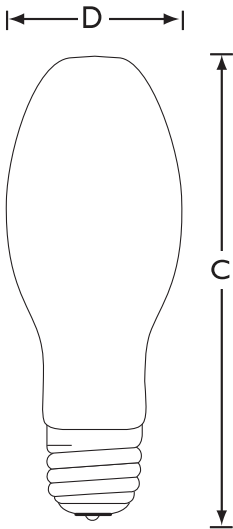
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• Product Data

Order code 928601178301
Full product code 928601178301
Full product name MasterColor CDM 70W PS ED23 1/2 U ELITE
Order product name CDM70/U/PS/4K ED23.5 - Elite
Pieces per pack 1
Packing configuration 12

Packs per outerbox 12
Bar code on pack - EAN1 46677430696
Bar code on outerbox - EAN3 50046677430691
Logistic code(s) - 12NC 928601178301
Net weight per piece 0.001 kg

Dimensional drawing



E39

MasterColor CDM 70W PS ED23 1/2 U ELITE

Product	C (Max)	D (Norm)
CDM PS 70W/840 E39 ED23 1/2 U ELITE	7.75	2.938



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www.philips.com/lighting

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data subject to change