



MasterColor® CDM ED23 1/2 Standard

MasterColor CDM 100W/940 PS ED23 1/2 ALTO

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)	24000 hr

Lamp Voltage	102 V
Lamp Current	1.10 A
Ignition Time	120 (max) s
Re-ignition Time [min]	8 (max) min

• Environmental Characteristics

Mercury (Hg) Content	6.0 (nom), 6.1 (max) mg
Picogram per Lumen Hour	38.7 p/LuHr

• Light Technical Characteristics

Color Code	940 [CCT of 4000K]
Color Rendering Index	91 (min), 93 (nom) Ra8
Color Designation	Cool White
Color Temperature	4200 K
Color Temperature technical	4000 (min), 4200 (nom), 4400 (max) K
Chromaticity Coordinate X	.370 (min), .379 (nom), .388 (max) -
Chromaticity Coordinate Y	.366 (min), .372 (nom), .378 (max) -
Initial Lumens	9000 Lm
Luminous Efficacy Lamp	90 Lm/W
Design Mean Lumens	6570 Lm
Lumen Maintenance - 40% life	73 %
Lumen Maintenance - 10% life	96 %

• UV-related Characteristics

Damage Factor D/fc	0.41 -
PET (NIOSH)	286.7 h500lx
UV A	14.8 mW/cm ²
UV B	0.02 mW/cm ²
UV C	0.006 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

Watts	100 W
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sense and simplicity

• Product Data

Product number	154930
Full product name	MasterColor CDM 100W/940 PS ED23 1/2 ALTO
Short product name	CDM 100W/940 PS ED23 1/2 ALTO
Pieces per Sku	1

eop_pck_cfg	12
Skus/Case	12
Bar code on pack	46677154936
Bar code on case	50046677154931
Logistics code(s)	928601159901
eop_net_weight_pp	0.001 kg

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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data subject to change