



Unrivaled performance, familiar shape

MasterColor CDM ED17 Protected Elite 4200K

MasterColor Elite Protected Ceramic Metal Halide ED-17 4200K Lamps provide excellent lumen maintenance and outstanding performance over time in a protected lamp.

Benefits

- Excellent color - Up to 93 CRI (color rendering index)
- Color stability over life within +/- 200 K
- Lamp to lamp color consistency over life
- High lamp efficacy
- Elite 50W lamp provides 29% more initial lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp*
- Elite 50W lamp provided 52% more mean lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp+
- * Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 4645 initial lumens compared to MasterColor Protected ED-17 50W lamp at 3600 initial lumens.
- + Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 3716 mean lumens compared to MasterColor Protected ED-17 50W lamp at 2450 mean lumens.

Features

- Application versatility
- Universal operating position
- Suitable for use in open fixtures
- Dimension, base and light center length are same as standard MasterColor ED-17 lamps
- Available in 50W, 70 W and 100W Elite lamps

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Application

- Ideal for general lighting,downlighting,and flood lighting.

Versions



E26, ED-17P, CL, Elite, 50W /940

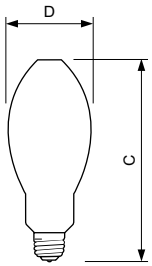


E26, ED-17P, CL, Elite,70-100W /940



E26 ED17, ED-17P Coated

Dimensional drawing



Product	D	C (max)
MHC100/C/U/MP/4K ELITE	2.125 in	5.438 in
MHC100/U/MP/4K ELITE	2.125 in	5.438 in
MHC70/C/U/MP/4K ELITE	2.125 in	5.438 in
MHC70/U/MP/4K ELITE	2.125 in	5.438 in
MHC50/U/MP/4K ELITE	2.125 in	5.438 in

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General Information

Cap-Base	E26
Life To 50% Failures (Nom)	20000 h
Main Application	General Lighting (G)
Operating Position	Universal

Luminaire Design Requirements

Bulb Temperature (Max)	400 °C
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Light Technical

Color Code	940
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Min)	87
Color Rendering Index (Nom)	90
Lumen Maintenance - 10% Life	90 %
Lumen Maintenance - 40% Life	80 %

Mechanical and Housing

Bulb Material	Hard Glass
Bulb Shape	ED17P

Approval and Application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
429944	MHC50/U/MP/4K ELITE	5.4 mg	76 pg/lm.h
429950	MHC70/U/MP/4K ELITE	7.1 mg	76 pg/lm.h
429936	MHC100/U/MP/4K ELITE	10.3 mg	68 pg/lm.h
429976	MHC70/C/U/MP/4K ELITE	7.1 mg	79 pg/lm.h
429968	MHC100/C/U/MP/4K ELITE	10.3 mg	74 pg/lm.h

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
429944	MHC50/U/MP/4K ELITE	0.67 A	98 V	80 V	88 V
429950	MHC70/U/MP/4K ELITE	0.9 A	115 V	95 V	100 V
429936	MHC100/U/MP/4K ELITE	1.1 A	118 V	93 V	103 V

Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
429976	MHC70/C/U/MP/4K ELITE	0.9 A	115 V	95 V	100 V
429968	MHC100/C/U/MP/4K ELITE	1.1 A	118 V	93 V	103 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Re-Ignition Time (Min) (Max)
429944	MHC50/U/MP/4K ELITE	8 min
429950	MHC70/U/MP/4K ELITE	8 min
429936	MHC100/U/MP/4K ELITE	10 min

Order Code	Full Product Name	Re-Ignition Time (Min) (Max)
429976	MHC70/C/U/MP/4K ELITE	8 min
429968	MHC100/C/U/MP/4K ELITE	10 min

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Chromaticity	Chromaticity
		Coordinate X (Max)	Coordinate X (Min)	Coordinate X (Nom)	Coordinate Y (Max)
429944	MHC50/U/M P/4K ELITE	0.386	0.368	0.377	0.373
429950	MHC70/U/M P/4K ELITE	0.450	0.432	0.441	0.402
429936	MHC100/U/M P/4K ELITE	0.391	0.373	0.382	0.377

Order Code	Full Product Name	Chromaticity	Chromaticity	Chromaticity	Chromaticity
		Coordinate X (Max)	Coordinate X (Min)	Coordinate X (Nom)	Coordinate Y (Max)
429976	MHC70/C/U/MP/4K ELITE	0.391	0.373	0.382	0.369
429968	MHC100/C/U/MP/4K ELITE	0.398	0.380	0.389	0.381

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Light Technical (2/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
		Coordinate Y (Min)	Coordinate Y (Nom)					
429944	MHC50/U/MP/4K ELITE	0.361	0.367	86 lm/W	92 lm/W	3680 lm	4320 lm	4800 lm
429950	MHC70/U/MP/4K ELITE	0.390	0.392	85 lm/W	88 lm/W	4960 lm	5900 lm	6500 lm
429936	MHC100/U/MP/4K ELITE	0.362	0.371	91 lm/W	94 lm/W	7520 lm	8500 lm	9400 lm
429976	MHC70/C/U/MP/4K ELITE	0.357	0.363	80 lm/W	84 lm/W	4720 lm	5400 lm	5900 lm
429968	MHC100/C/U/MP/4K ELITE	0.369	0.375	85 lm/W	87 lm/W	6960 lm	7900 lm	8700 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Order Code	Full Product Name	Bulb Finish
429944	MHC50/U/MP/4K ELITE	CL	429976	MHC70/C/U/MP/4K ELITE	CO
429950	MHC70/U/MP/4K ELITE	CL	429968	MHC100/C/U/MP/4K ELITE	CO
429936	MHC100/U/MP/4K ELITE	CL			

