



# Enhanced performance, familiar shape

## MasterColor CDM ED17 Elite 4200K

MasterColor Elite Ceramic Metal Halide ED-17 4200K Lamps provide excellent lumen maintenance and outstanding performance over time in the familiar ED-17 lamp shape.

### 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 (up to 100 LPW)
- Elite 50W lamp provides 27% more initial lumens as compared to a standard MasterColor ED-17 50W lamp\*
- Elite 50W lamp provides 50% more mean lumens as compared to a standard MasterColor ED-17 50W lamp+
- \* MasterColor Elite ED-17 4200K 50W Lamps provides 4779 initial lumens compared to MasterColor ED-17 50W lamp at 3750 initial lumens.
- + MasterColor Elite ED-17 4200K 50W Lamps provides 3823 mean lumens compared to MasterColor ED-17 50W lamp at 2550 mean lumens.

### Features

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

### Application

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

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## 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)
- WARNING: The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.
- Certain lamps that will retain all the glass particles should inner arc tube rupture occur are commercially available from Philips Lighting Company.
- RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE. Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.

## Versions

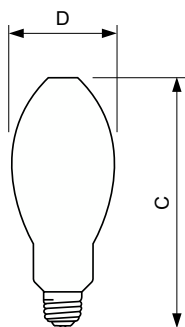


BD17, Med, CL, Elite



BD17 Medium Coated

## Dimensional drawing



Product	D	C (max)
MHC50/U/M/4K ELITE	2.125 in	5.438 in
MHC70/U/M/4K ELITE	2.125 in	5.438 in
MHC70/C/U/M/4K ELITE	2.125 in	5.438 in
MHC100/U/M/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
Light technical	
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4200 K
Lumen Maintenance - 10% Life	90 %
Lumen Maintenance - 40% Life	80 %
Mechanical and housing	
Bulb Material	Hard Glass
Bulb Shape	BD17

Approval and application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
429928	MHC50/U/M/4K ELITE	5.4 mg	74 pg/lm.h
429902	MHC70/U/M/4K ELITE	7.1 mg	71 pg/lm.h
429886	MHC100/U/M/4K ELITE	9.9 mg	64 pg/lm.h
429910	MHC70/C/U/M/4K ELITE	7.1 mg	76 pg/lm.h

Operating and electrical (1/2)

		Lamp			
Order		Current	Voltage	Voltage	Voltage
Code	Full Product Name	(Nom)	(Max)	(Min)	(Nom)
429928	MHC50/U/M/4K ELITE	0.68 A	95 V	80 V	85 V
429902	MHC70/U/M/4K ELITE	0.91 A	110 V	90 V	95 V

		Lamp			
Order		Current	Voltage	Voltage	Voltage
Code	Full Product Name	(Nom)	(Max)	(Min)	(Nom)
429886	MHC100/U/M/4K ELITE	1.1 A	108 V	91 V	98 V
429910	MHC70/C/U/M/4K ELITE	0.91 A	110 V	90 V	95 V

Operating and electrical (2/2)

Order Code	Full Product Name	Power (Nom)	Re-Ignition Time (Min) (Max)
429928	MHC50/U/M/4K ELITE	-	8 min
429902	MHC70/U/M/4K ELITE	70.4 W	8 min

Order Code	Full Product Name	Power (Nom)	Re-Ignition Time (Min) (Max)
429886	MHC100/U/M/4K ELITE	100.4 W	6 min
429910	MHC70/C/U/M/4K ELITE	70.4 W	8 min

Light technical (1/3)

		Chromaticity	Chromaticity	Chromaticity	Chromaticity
Order		Coordinate X	Coordinate X	Coordinate X	Coordinate Y
Code	Full Product Name	(Max)	(Min)	(Nom)	(Max)
429928	MHC50/U/M/4K ELITE	0.380	0.365	0.371	0.375
429902	MHC70/U/M/4K ELITE	0.379	0.361	0.37	0.366

		Chromaticity	Chromaticity	Chromaticity	Chromaticity
Order		Coordinate X	Coordinate X	Coordinate X	Coordinate Y
Code	Full Product Name	(Max)	(Min)	(Nom)	(Max)
429886	MHC100/U/M/4K ELITE	0.388	0.370	0.379	0.377
429910	MHC70/C/U/M/4K ELITE	0.379	0.361	0.370	0.368

Light technical (2/3)

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Order Code	Full Product Name	Chromaticity Coordinate Y (Min)	Chromaticity Coordinate Y (Nom)	Color Code	Color Rendering Index (Min)	Color Rendering Index (Nom)	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)
429928	MHC50/U/M/4K ELITE	0.363	0.369	842	87	90	88 lm/W	98 lm/W	3700 lm	4400 lm
429902	MHC70/U/M/4K ELITE	0.354	0.360	842	85	88	90 lm/W	97 lm/W	5280 lm	6120 lm
429886	MHC100/U/M/4K ELITE	0.365	0.371	942	87	90	96 lm/W	100 lm/W	8000 lm	9000 lm
429910	MHC70/C/U/M/4K ELITE	0.356	0.362	842	85	88	84 lm/W	88 lm/W	4960 lm	5600 lm

Light technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
429928	MHC50/U/M/4K ELITE	4900 lm	429886	MHC100/U/M/4K ELITE	10000 lm
429902	MHC70/U/M/4K ELITE	6800 lm	429910	MHC70/C/U/M/4K ELITE	6200 lm

Mechanical and housing

Order Code	Full Product Name	Bulb Finish	Order Code	Full Product Name	Bulb Finish
429928	MHC50/U/M/4K ELITE	Clear	429886	MHC100/U/M/4K ELITE	Clear
429902	MHC70/U/M/4K ELITE	Clear	429910	MHC70/C/U/M/4K ELITE	Coated glass

