



# 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

# MasterColor CDM ED17 Protected Elite 4200K

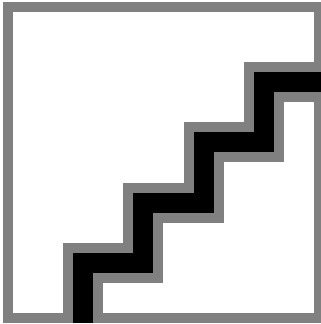
## Application

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

## Warnings and Safety

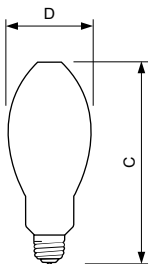
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain 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. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- 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. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- 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



50 W Single Contact Medium  
Screw ED-17P Protected Clear CCT  
of 4000K

## Dimensional drawing



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

# MasterColor CDM ED17 Protected Elite 4200K

## 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 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
928601177801	MHC50/U/MP/4K ELITE	5.4 mg	76 pg/lm.h
928601177901	MHC70/U/MP/4K ELITE	7.1 mg	76 pg/lm.h
928601178001	MHC70/C/U/MP/4K ELITE	7.1 mg	79 pg/lm.h
928601178101	MHC100/U/MP/4K ELITE	10.3 mg	68 pg/lm.h
928601178201	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)
928601177801	MHC50/U/MP/4K ELITE	0.67 A	98 V	80 V	88 V
928601177901	MHC70/U/MP/4K ELITE	0.9 A	115 V	95 V	100 V
928601178001	MHC70/C/U/MP/4K ELITE	0.9 A	115 V	95 V	100 V

Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928601178101	MHC100/U/MP/4K ELITE	1.1 A	118 V	93 V	103 V
928601178201	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	Power (Nom)	Re-Ignition Time (Min)	
			(Nom)	(Max)
928601177801	MHC50/U/MP/4K ELITE	-	8 min	
928601177901	MHC70/U/MP/4K ELITE	70.4 W	8 min	
928601178001	MHC70/C/U/MP/4K ELITE	70.4 W	8 min	

Order Code	Full Product Name	Power (Nom)	Re-Ignition Time (Min)	
			(Nom)	(Max)
928601178101	MHC100/U/MP/4K ELITE	-	10 min	
928601178201	MHC100/C/U/MP/4K ELITE	-	10 min	

## Light technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Max)	Chromaticity Coordinate X (Min)	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Max)

Order Code	Full Product Name	Chromaticity Coordinate X (Max)	Chromaticity Coordinate X (Min)	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Max)

## MasterColor CDM ED17 Protected Elite 4200K

Order Code	Full Product Name	Chromaticity Coordinate X (Max)	Chromaticity Coordinate X (Min)	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Max)
928601178001	MHC70/C/U/MP/4K ELITE	0.391	0.373	0.382	0.369
928601178101	MHC100/U/MP/4K ELITE	0.391	0.373	0.382	0.377

Order Code	Full Product Name	Chromaticity Coordinate X (Max)	Chromaticity Coordinate X (Min)	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Max)
928601178201	MHC100/C/U/MP/4K ELITE	0.398	0.380	0.389	0.381

### Light technical (2/2)

Order Code	Full Product Name	Chromaticity Coordinate Y (Min)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928601177801	MHC50/U/MP/4K ELITE	0.361	0.367	86 lm/W	92 lm/W	3680 lm	4320 lm	4800 lm
928601177901	MHC70/U/MP/4K ELITE	0.390	0.392	85 lm/W	92 lm/W	4960 lm	5900 lm	6500 lm
928601178001	MHC70/C/U/MP/4K ELITE	0.357	0.363	80 lm/W	84 lm/W	4720 lm	5400 lm	5900 lm
928601178101	MHC100/U/MP/4K ELITE	0.362	0.371	91 lm/W	94 lm/W	7520 lm	8500 lm	9400 lm
928601178201	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
928601177801	MHC50/U/MP/4K ELITE	Clear
928601177901	MHC70/U/MP/4K ELITE	Clear
928601178001	MHC70/C/U/MP/4K ELITE	Coated glass

Order Code	Full Product Name	Bulb Finish
928601178101	MHC100/U/MP/4K ELITE	Clear
928601178201	MHC100/C/U/MP/4K ELITE	Coated glass

