



# MasterColor CDM ED17 Protected

## MasterColor CDM ED17 Protected

Direct retrofit with immediate energy savings! Range of protected, high-efficiency long life ceramic metal halide lamps with a stable color over lifetime and a crisp, sparkling light to be used in open fixtures.

### Benefits

- Environmentally Responsible TCLP\* Compliant ALTO® Lamp Technology.
- High lamp efficacy (up to 95 LPW)
- Energy-efficient alternative to incandescent/halogen.
- \* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

### Features

- Excellent Color Rendering.
- Superior Color Stability Over Life.
- Total Cost of Ownership Benefits.
- FadeBlock—Lamps feature integrated UV blocking medium for reduced fading of fabrics and paintings.
- Available in 50, 70, 100, and 150 watt with 3000 & 4000K color temperatures.

### Application

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

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## Versions



E26, ED-17P, CL, Alto & Fadeblock



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

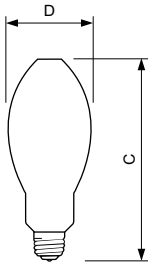


E26, ED-17P, CL, Elite, 50W-100W /930



E26 ED17, ED-17P Coated

## Dimensional drawing



Product	C (max)	
MHC100/U/MP/3K ELITE	2.125 in	5.438 in
MHC50/U/MP/3K ELITE	2.125 in	5.438 in
MHC150/U/MP/4K ALTO 12PK	2.125 in	5.438 in
MHC70/C/U/MP/3K ELITE	2.125 in	5.438 in
MHC100/C/U/MP/3K ELITE	2.125 in	5.438 in
MHC150/U/MP/3K ALTO 12PK	2.125 in	5.438 in
MHC70/U/MP/3K ELITE	2.125 in	5.438 in

## Product details



LPPR1 D-MHC-P 0001

# MasterColor CDM ED17 Protected

## General Information

Cap-Base	E26
Operating Position	Universal

## Luminaire Design Requirements

Bulb Temperature (Max)	400 °C
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## Mechanical and Housing

Bulb Material	Hard Glass
Bulb Shape	ED17P

## Approval and Application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg)	Picogram Per Lumen Hour
			Content (Nom)	
134635	MHC150/U/MP/3K ALTO 12PK	14.2 mg	-	98.3 pg/lm.h
377242	MHC150/U/MP/4K ALTO 12PK	-	12.3 mg	63.3 pg/lm.h
423681	MHC50/U/MP/3K ELITE	6.6 mg	-	103.9 pg/lm.h
423707	MHC70/U/MP/3K ELITE	7.6 mg	-	88.6 pg/lm.h

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg)	Picogram Per Lumen Hour
			Content (Nom)	
423673	MHC100/U/MP/3K ELITE	11.0 mg	-	72.4 pg/lm.h
423699	MHC70/C/U/MP/3K ELITE	7.6 mg	-	88.6 pg/lm.h
423715	MHC100/C/U/MP/3K ELITE	11.0 mg	-	79 pg/lm.h

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-ignition Time (Min) (Max)
134635	MHC150/U/MP/3K ALTO 12PK	1.8 A	105 V	85 V	95 V	12 min
377242	MHC150/U/MP/4K ALTO 12PK	1.8 A	105 V	85 V	95 V	12 min
423681	MHC50/U/MP/3K ELITE	0.59 A	110 V	87 V	95 V	8 min
423707	MHC70/U/MP/3K ELITE	0.92 A	120 V	92 V	100 V	8 min
423673	MHC100/U/MP/3K ELITE	1.1 A	115 V	87 V	101 V	10 min
423699	MHC70/C/U/MP/3K ELITE	0.92 A	120 V	92 V	100 V	8 min
423715	MHC100/C/U/MP/3K ELITE	1.1 A	115 V	87 V	101 V	10 min

## General Information

Order Code	Full Product Name	Life To 50%	Life To 50%	Main Application
		Failures (Min)	Failures (Nom)	
134635	MHC150/U/MP/3K ALTO 12PK	-	16000 h	General Lighting (G)
377242	MHC150/U/MP/4K ALTO 12PK	20000 h	-	General Lighting (G)
423681	MHC50/U/MP/3K ELITE	-	16000 h	General Lighting (G)
423707	MHC70/U/MP/3K ELITE	-	16000 h	General and Street Lighting

Order Code	Full Product Name	Life To 50%	Life To 50%	Main Application
		Failures (Min)	Failures (Nom)	
423673	MHC100/U/MP/3K ELITE	-	16000 h	General and Street Lighting
423699	MHC70/C/U/MP/3K ELITE	-	16000 h	General and Street Lighting
423715	MHC100/C/U/MP/3K ELITE	-	16000 h	General and Street Lighting

## Light Technical (1/3)

## MasterColor CDM ED17 Protected

Order Code	Full Product Name	Chromaticity	Chromaticity	Chromaticity	Chromaticity	Chromaticity	Chromaticity	Color Code
		Coordinate X (Max)	Coordinate X (Min)	Coordinate X (Nom)	Coordinate Y (Max)	Coordinate Y (Min)	Coordinate Y (Nom)	
134635	MHC150/U/MP/3K ALTO 12PK	0.443	0.425	0.434	0.398	0.386	0.392	830
377242	MHC150/U/MP/4K ALTO 12PK	0.387	0.369	0.378	0.372	0.360	0.366	940
423681	MHC50/U/MP/3K ELITE	0.444	0.426	0.435	0.399	0.387	0.393	930
423707	MHC70/U/MP/3K ELITE	0.379	0.361	0.370	0.368	0.356	0.362	930
423673	MHC100/U/MP/3K ELITE	0.443	0.425	0.434	0.407	0.395	0.401	930
423699	MHC70/C/U/MP/3K ELITE	0.454	0.436	0.445	0.403	0.391	0.397	930
423715	MHC100/C/U/MP/3K ELITE	0.447	0.429	0.438	0.409	0.397	0.403	930

### Light Technical (2/3)

Order Code	Full Product Name	Color Designation	Correlated Color	Color	Color	Lumen	Lumen	Luminous	Luminous	Design
			Temperature (Nom)	Rendering Index (Min)	Rendering Index (Nom)	Maintenance - 10% Life	Maintenance - 40% Life	Efficacy (rated) (Min)	Efficacy (rated) (Nom)	Mean Lumens
134635	MHC150/U/MP/3K ALTO 12PK	Warm White (WW)	3000 K	80	83	85 %	70 %	77.4 lm/W	86 lm/W	9030 lm
377242	MHC150/U/MP/4K ALTO 12PK	Deluxe Cool White	4000 K	87	90	87 %	75 %	73 lm/W	80 lm/W	9000 lm
423681	MHC50/U/MP/3K ELITE	Warm White (WW)	3000 K	87	90	95 %	90 %	88 lm/W	96 lm/W	4300 lm
423707	MHC70/U/MP/3K ELITE	Warm White (WW)	2900 K	87	90	95 %	90 %	87 lm/W	95 lm/W	6400 lm
423673	MHC100/U/MP/3K ELITE	Warm White (WW)	3000 K	87	90	95 %	90 %	94 lm/W	100 lm/W	9500 lm
423699	MHC70/C/U/MP/3K ELITE	Warm White (WW)	2900 K	87	90	95 %	90 %	78 lm/W	87 lm/W	5800 lm
423715	MHC100/C/U/MP/3K ELITE	Warm White (WW)	3000 K	87	90	95 %	90 %	86 lm/W	92 lm/W	8700 lm

### Light Technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
134635	MHC150/U/MP/3K ALTO 12PK	11600 lm	12900 lm	423673	MHC100/U/MP/3K ELITE	9000 lm	10000 lm
377242	MHC150/U/MP/4K ALTO 12PK	11000 lm	12000 lm	423699	MHC70/C/U/MP/3K ELITE	5500 lm	6100 lm
423681	MHC50/U/MP/3K ELITE	4400 lm	4800 lm	423715	MHC100/C/U/MP/3K ELITE	8300 lm	9200 lm
423707	MHC70/U/MP/3K ELITE	6100 lm	6700 lm				

### Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Order Code	Full Product Name	Bulb Finish
134635	MHC150/U/MP/3K ALTO 12PK	Clear (CL)	423673	MHC100/U/MP/3K ELITE	Clear (CL)
377242	MHC150/U/MP/4K ALTO 12PK	Clear (CL)	423699	MHC70/C/U/MP/3K ELITE	Coated
423681	MHC50/U/MP/3K ELITE	Clear (CL)	423715	MHC100/C/U/MP/3K ELITE	Coated
423707	MHC70/U/MP/3K ELITE	Clear (CL)			

