



MasterColor CDM ED17 Protected

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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.

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)
- Lamp contains mercury. Manage in Accord with Disposal Laws. See: www.lamprecycle.org or 1-800-555-0050

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Versions



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



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

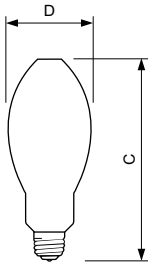


E26, ED-17P, CL, Elite, 50W-100W /930



E26 ED17, ED-17P Coated

Dimensional drawing



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

Product details



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

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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	14.85 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	8 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	10.1 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	10.1 mg	-	79 pg/lm.h

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (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	50.2 W	8 min
423707	MHC70/U/MP/3K ELITE	0.92 A	120 V	92 V	100 V	70.4 W	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	70.4 W	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)

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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	423673	MHC100/U/MP/3K ELITE	Clear
377242	MHC150/U/MP/4K ALTO 12PK	Clear	423699	MHC70/C/U/MP/3K ELITE	Coated glass
423681	MHC50/U/MP/3K ELITE	Clear	423715	MHC100/C/U/MP/3K ELITE	Coated glass
423707	MHC70/U/MP/3K ELITE	Clear			

