



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.

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)

Related products

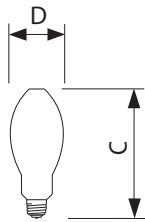


E26, ED-17P, Clear



E26, ED-17P, Coated

Dimensional drawing



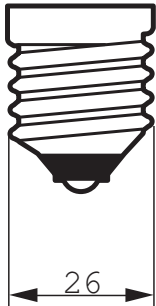
E26, ED-17P

Product	C (Max)	D (Norm)
MHC P 150W/830 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 150W/830 E26 ED17P CO U ALTO+FB	5.438	2.125
MHC P 150W/940 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 150W/940 E26 ED17P CO U ALTO+FB	5.438	2.125
MHC P 70W/830 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 70W/830 E26 ED17P CO U ALTO+FB	5.438	2.125
MHC P 70W/940 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 70W/940 E26 ED17P CO U ALTO+FB	5.438	2.125
MHC P 50W/830 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 50W/940 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 100W/830 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 100W/830 E26 ED17P CO U ALTO+FB	5.438	2.125
MHC P 100W/940 E26 ED17P U ALTO+FB	5.438	2.125
MHC P 100W/940 E26 ED17P CO U ALTO+FB	5.438	2.125

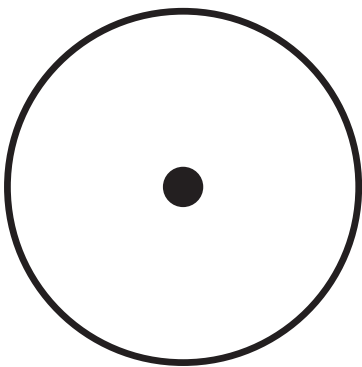
General Characteristics

Order code	Full product name	Bulb	Bulb Material	Bulb Finish	Base	Operating Position	Main Application	RatedAvgLife(See Family Notes)
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	16000
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	20000
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	16000
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	20000
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	10000
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	20000
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	16000
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	ED17P	Hard Glass	Clear	Medium	Universal	General Lighting	20000
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	16000
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	20000
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	16000
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	20000
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	16000
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	ED17P	Hard Glass	Coated	Medium	Universal	General Lighting	20000

Installation diagrams



E26



any

Light Technical Characteristics (1/2)

Order code	Full product name	Color Code	Color Designation	Initial Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Luminous Efficacy Lamp	Color Temperature
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	830	Warm White	12900	440	400	85	82	73	86	3000
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	940	Deluxe Cool White	12000	383	376	92 (min), 92 (nom)	90	78	80	4000
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	830	Warm White	5900	.419 (min), .428 (nom), .437 (max)	.392 (min), .398 (nom), .404 (max)	80 (min), 85 (nom)	81	74	84	3000
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	940	Deluxe Cool White	5600	379 (min), 388 (nom), 397 (max)	371 (min), 377 (nom), 383 (max)	92	83	73	80	4000
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	830	Warm White	4000	431 (min), 440 (nom), 449 (max)	394 (min), 400 (nom), 406 (max)	85	73	67	76	3000

Order code	Full product name	Color Code	Color Designation	Initial Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Luminous Efficacy Lamp	Color Temperature
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	940	Deluxe Cool White	3600	381 (min), 390 (nom), 399 (max)	371 (min), 377 (nom), 383 (max)	88 (min), 92 (nom)	78	69	72	4000
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	830	Warm White	8600	.421 (min), .430 (nom), .439 (max)	.386 (min), .392 (nom), .398 (max)	80 (min), 85 (nom)	86	79	86	3000
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	940	Deluxe Cool White	8200	374 (min), 383 (nom), 392 (max)	366 (min), 372 (nom), 378 (max)	92	90	81	82	4000
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	830	Warm White	11900	433	398	85	86	79	79.3	3000
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	940	Deluxe Cool White	11000	386	377	90 (min), 92 (nom)	88	78	72	4000
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	830	Warm White	5400	.421 (min), .430 (nom), .439 (max)	.394 (min), .400 (nom), .406 (max)	80 (min), 85 (nom)	81	74	74.3	3000
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	940	Deluxe Cool White	5100	377 (min), 386 (nom), 394 (max)	371 (min), 377 (nom), 383 (max)	92	84	74	73	4000
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	830	Warm White	7900	.421 (min), .430 (nom), .439 (max)	.386 (min), .392 (nom), .398 (max)	80 (min), 85 (nom)	87	78	79	3000
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	940	Deluxe Cool White	7500	374 (min), 383 (nom), 392 (max)	371 (min), 377 (nom), 383 (max)	92	91	81	75	3900

Light Technical Characteristics (2/2)

Order code	Full product name	Design Mean Lumens
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	9545
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	9000
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	4365
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	4060
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	2680
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	2450
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	6450
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	6150
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	8805
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	8250
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	3995
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	3640
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	5925
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	5625

Electrical Characteristics

Order code	Full product name	Energy Used	Lamp Current	Lamp Voltage
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	150	1.8	95
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	150	1.8	95
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	70	0.92	100
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	70	0.8	100
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	50	0.59	100
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	50	0.59	100
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	100	1.1	101
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	100	1.1	104
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	150	1.8	95
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	150	1.8	95
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	70	0.92	100
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	70	0.8	100

Order code	Full product name	Energy Used	Lamp Current	Lamp Voltage
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	100	1.1	101
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	100	1.1	104

Order code	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	5.8 (max)	-
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	5.9 (max)	51.8

Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content	Picogram per Lumen Hour
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	14.2 (max)	-
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	11.4 (max)	-
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	5.0 (max)	71.6
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	7.8 (max)	102.4
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	5.6 (max)	-
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	5.8 (max)	123.9
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	5.8 (max)	-
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	5.9 (max)	46.1
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	14.2 (max)	-
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	11.4 (max)	-
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	5.0 (max)	-
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	7.8 (max)	106.2

Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601132301	MasterColor CDM 150W/830 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601132701	MasterColor CDM 150W/940 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601136002	MasterColor CDM 70W/830 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601136401	MasterColor CDM 70W/940 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601137001	MasterColor CDM 50W/830 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601137201	MasterColor CDM 50W/940 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601137601	MasterColor CDM 100W/830 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601138001	MasterColor CDM 100W/940 Med ED17P CL ALTO+FB	190 (max)	400 (max)
928601132401	MasterColor CDM 150W/830 Med ED17P CO ALTO+FB	190 (max)	400 (max)
928601132801	MasterColor CDM 150W/940 Med ED17P CO ALTO+FB	190 (max)	400 (max)
928601136102	MasterColor CDM 70W/830 Med ED17P CO ALTO+FB	190 (max)	400 (max)
928601136501	MasterColor CDM 70W/940 Med ED17P CO ALTO+FB	190 (max)	400 (max)
928601137701	MasterColor CDM 100W/830 Med ED17P CO ALTO+FB	190 (max)	400 (max)
928601138101	MasterColor CDM 100W/940 Med ED17P CO ALTO+FB	190 (max)	400 (max)



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data subject to change