



MasterColor CDM ED17 Elite

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

Benefits

- Universal operation position
- Excellent lumen maintenance
- Available in multiple wattages (50W, 70W, and 100W)

Features

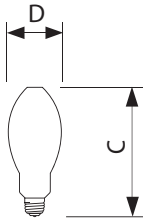
- Color stability over life within +/- 200K
- Lamp to lamp color consistency over life
- Up to 90 CRI (color rendering index)
- High lamp efficacy (up to 110 LPW)

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)

PHILIPS

Dimensional drawing



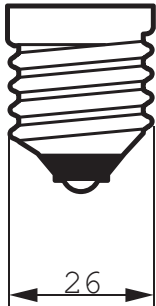
MasterColor CDM 50W ED17 U ELITE

Product	C (Max)	D (Norm)
MHC 50W/930 E26 ED17 CL U ELITE	5,438	2,125
MHC 70W/930 E26 ED17 CL U ELITE	5,438	2,125
MHC 70W/930 E26 ED17 CO U ELITE	5,438	2,125
MHC 100W/930 E26 ED17 CL U ELITE	5,438	2,125
MHC 100W/930 E26 ED17 CO U ELITE	5,438	2,125

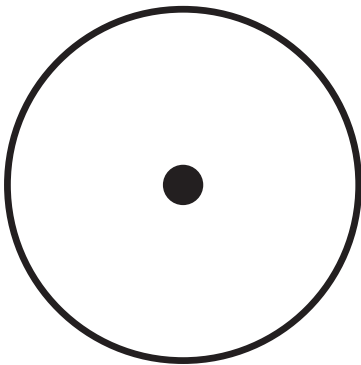
General Characteristics

Product number	Full product name	Base	Bulb	Bulb Material	Bulb Finish	Operating Position	Main Application	RatedAvgLife(See Family Notes)
419499	MasterColor CDM 50W BD17 CL U ELITE	Medium	BD17	-	Clear	Universal	General Lighting	16000 hr
419473	MasterColor CDM 70W BD17 CL U ELITE	Medium	BD17	Hard Glass	Clear	Universal	General Lighting	16000 hr
419515	MasterColor CDM 100W/930 BD17 CL ELITE	Medium	BD17	Hard Glass	Clear	Universal	General Lighting	16000 hr
419507	MasterColor CDM 50W BD17 CO U ELITE	Medium	BD17	Hard Glass	Coated	Universal	General Lighting	16000 hr
419481	MasterColor CDM 70W BD17 CO U ELITE	Medium	BD17	Hard Glass	Coated	Universal	General Lighting	16000 hr
419523	MasterColor CDM 100W/930 BD17 CO ELITE	Medium	BD17	Hard Glass	Coated	Universal	General Lighting	16000 hr
423681	MasterColor CDM 50W ED17 U ELITE	Medium	ED17	Hard Glass	Clear	Universal	General Lighting	16000 hr
423707	MasterColor CDM 70W ED17 ELITE	Medium	ED17	Hard Glass	Clear	Universal	General and Street Lighting	16000 hr
423673	MasterColor CDM 100W ED17 U ELITE	Medium	ED17	Hard Glass	Clear	Universal	General and Street Lighting	16000 hr
423699	MasterColor CDM 70W ED17 CO U ELITE	Medium	ED17	Hard Glass	Coated	Universal	General and Street Lighting	16000 hr
423715	MasterColor CDM 100W ED17 CO U ELITE	Medium	ED17	Hard Glass	Coated	Universal	General and Street Lighting	16000 hr

Installation diagrams



E26



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Light Technical Characteristics (1/2)

Product number	Full product name	Color Code	Color Rendering Index	Color Designation	Color Temperature	Initial Lumens	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lumen Maintenance - 40% life	Design Mean Lumens	Chromaticity Coordinate X
419499	MasterColor CDM 50W BD17 CL U ELITE	830	83 (min), 88 (nom) Ra8	Warm White	3150 K	5300 Lm	%	%	80 %	4200 Lm	0.419 (min), 0.428 (nom), 0.437 (max) -
419473	MasterColor CDM 70W BD17 CL U ELITE	930	84 (min), 89 (nom) Ra8	Warm White	3000 K	7700 Lm	%	%	80 %	6000 Lm	0.423 (min), 0.432 (nom), 0.441 (max) -
419515	MasterColor CDM 100W/930 BD17 CL ELITE	930	80 (min), 90 (nom) Ra8	Warm White	2900 K	11000 Lm	%	%	80 %	8800 Lm	0.433 (min), 0.442 (nom), 0.451 (max) -
419507	MasterColor CDM 50W BD17 CO U ELITE	830	84 (min), 89 (nom) Ra8	Warm White	3150 K	5100 Lm	%	%	80 %	4100 Lm	0.421 (min), 0.43 (nom), 0.439 (max) -
419481	MasterColor CDM 70W BD17 CO U ELITE	930	83 (min), 88 (nom) Ra8	Warm White	3000 K	7100 Lm	%	%	80 %	5700 Lm	0.391 (min), 0.43 (nom), 0.439 (max) -

Product number	Full product name	Color Code	Color Rendering Index	Color Designation	Color Temperature	Initial Lumens	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lumen Maintenance - 40% life	Design Mean Lumens	Chromaticity Coordinate X
419523	MasterColor CDM 100W/930 BD17 CO ELITE	930	80 (min), 90 (nom) Ra8	Warm White	2900 K	10200 Lm	%	%	80 %	8160 Lm	0.434 (min), 0.443 (nom), 0.452 (max) -
423681	MasterColor CDM 50W ED17 U ELITE	930	86 (min), 90 (nom) Ra8	Warm White	3000 K	4800 Lm	%	%	90 %	8160 Lm	0.431 (min), 0.440 (nom), 0.449 (max) -
423707	MasterColor CDM 70W ED17 ELITE	930	88 (min), 90 (nom) Ra8	Warm White	2900 K	6700 Lm	%	%	90 %	5360 Lm	0.433 (min), 0.442 (nom), 0.451 (max) -
423673	MasterColor CDM 100W ED17 U ELITE	930	88 (min), 90 (nom) Ra8	Warm White	3000 K	10000 Lm	%	%	90 %	8000 Lm	0.426 (min), 0.435 (nom), 0.444 (max) -
423699	MasterColor CDM 70W ED17 CO U ELITE	930	88 (min), 90 (nom) Ra8	Warm White	2900 K	6100 Lm	%	%	90 %	4880 Lm	0.433 (min), 0.442 (nom), 0.451 (max) -
423715	MasterColor CDM 100W ED17 CO U ELITE	930	88 (min), 90 (nom) Ra8	Warm White	3000 K	9200 Lm	%	%	90 %	7360 Lm	0.426 (min), 0.435 (nom), 0.444 (max) -

Light Technical Characteristics (2/2)

Product number	Full product name	Chromaticity Coordinate Y
419499	MasterColor CDM 50W BD17 CL U ELITE	0.4 (min), 0.406 (nom), 0.412 (max) -
419473	MasterColor CDM 70W BD17 CL U ELITE	0.397 (min), 0.403 (nom), 0.409 (max) -
419515	MasterColor CDM 100W/930 BD17 CL ELITE	0.395 (min), 0.401 (nom), 0.407 (max) -
419507	MasterColor CDM 50W BD17 CO U ELITE	0.404 (min), 0.41 (nom), 0.416 (max) -
419481	MasterColor CDM 70W BD17 CO U ELITE	0.398 (min), 0.404 (nom), 0.41 (max) -
419523	MasterColor CDM 100W/930 BD17 CO ELITE	0.398 (min), 0.404 (nom), 0.41 (max) -
423681	MasterColor CDM 50W ED17 U ELITE	0.394 (min), 0.400 (nom), 0.406 (max) -
423707	MasterColor CDM 70W ED17 ELITE	0.394 (min), 0.400 (nom), 0.406 (max) -
423673	MasterColor CDM 100W ED17 U ELITE	0.394 (min), 0.400 (nom), 0.406 (max) -
423699	MasterColor CDM 70W ED17 CO U ELITE	0.391 (min), 0.400 (nom), 0.409 (max) -
423715	MasterColor CDM 100W ED17 CO U ELITE	0.394 (min), 0.400 (nom), 0.406 (max) -

Electrical Characteristics

Product number	Full product name	Watts	Lamp Voltage	Lamp Current
419499	MasterColor CDM 50W BD17 CL U ELITE	50 W	88 V	0.68 A
419473	MasterColor CDM 70W BD17 CL U ELITE	70 W	95 V	0.91 A
419515	MasterColor CDM 100W/930 BD17 CL ELITE	100 W	100 V	1.1 A
419507	MasterColor CDM 50W BD17 CO U ELITE	50 W	88 V	0.68 A
419481	MasterColor CDM 70W BD17 CO U ELITE	70 W	95 V	0.91 A
419523	MasterColor CDM 100W/930 BD17 CO ELITE	100 W	97 V	1.1 A
423681	MasterColor CDM 50W ED17 U ELITE	50 W	95 V	0.59 A
423707	MasterColor CDM 70W ED17 ELITE	70 W	100 V	0.92 A
423673	MasterColor CDM 100W ED17 U ELITE	100 W	101 V	1.1 A
423699	MasterColor CDM 70W ED17 CO U ELITE	70 W	100 V	0.92 A
423715	MasterColor CDM 100W ED17 CO U ELITE	100 W	101 V	1.1 A

Product number	Full product name	Cap-Base Temperature	Bulb Temperature
419515	MasterColor CDM 100W/930 BD17 CL ELITE	190 (max) C	400 (max) C
419507	MasterColor CDM 50W BD17 CO U ELITE	190 (max) C	400 (max) C
419481	MasterColor CDM 70W BD17 CO U ELITE	190 (max) C	400 (max) C
419523	MasterColor CDM 100W/930 BD17 CO ELITE	190 (max) C	400 (max) C
423681	MasterColor CDM 50W ED17 U ELITE	190 (max) C	400 (max) C

Product number	Full product name	Cap-Base Temperature	Bulb Temperature
423707	MasterColor CDM 70W ED17 ELITE	190 (max) C	400 (max) C
423673	MasterColor CDM 100W ED17 U ELITE	190 (max) C	400 (max) C
423699	MasterColor CDM 70W ED17 CO U ELITE	190 (max) C	400 (max) C
423715	MasterColor CDM 100W ED17 CO U ELITE	190 (max) C	400 (max) C



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data subject to change