



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

Related products

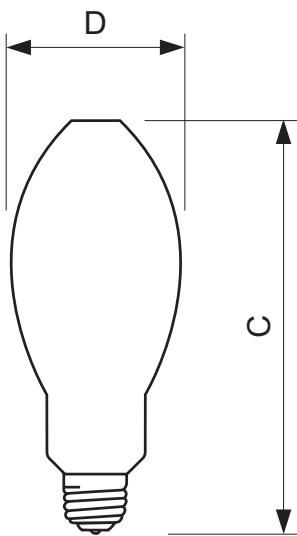


ED17 Clear Medium Elite



BD17 Medium Coated

Dimensional drawing



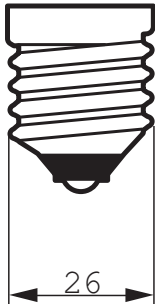
MasterColor CDM 50W BD17 CL U ELITE

| Product | C (Max) | D (Norm) |
|----------------------------------|---------|----------|
| MHC 50W/830 E26 BD17 CL U ELITE | 5.438 | 2.125 |
| MHC 50W/830 E26 BD17 CO U ELITE | 5.438 | 2.125 |
| MHC 70W/930 E26 BD17 CL U ELITE | 5.438 | 2.125 |
| MHC 70W/930 E26 BD17 CO U ELITE | 5.438 | 2.125 |
| MHC 100W/930 E26 BD17 CL U ELITE | 5.438 | 2.125 |
| MHC 100W/930 E26 BD17 CO U ELITE | 5.438 | 2.125 |

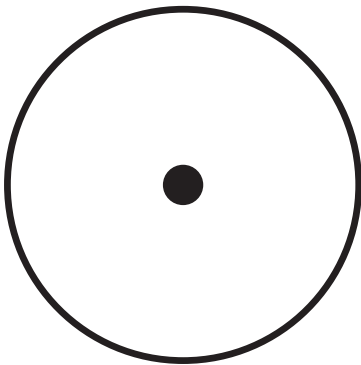
General Characteristics

| Order code | Full product name | Base | Bulb | Bulb Material | Bulb Finish | Operating Position | Main Application | RatedAvgLife(See Family Notes) |
|--------------|--|--------|------|---------------|-------------|--------------------|------------------|--------------------------------|
| 928601173102 | MasterColor CDM 50W BD17 CL U ELITE | Medium | BD17 | - | Clear | Universal | General Lighting | 16000 hr |
| 928601173302 | MasterColor CDM 70W BD17 CL U ELITE | Medium | BD17 | Hard Glass | Clear | Universal | General Lighting | 16000 hr |
| 928601173502 | MasterColor CDM 100W/930 BD17 CL ELITE | Medium | BD17 | Hard Glass | Clear | Universal | General Lighting | 16000 hr |
| 928601173202 | MasterColor CDM 50W BD17 CO U ELITE | Medium | BD17 | Hard Glass | Coated | Universal | General Lighting | 16000 hr |
| 928601173402 | MasterColor CDM 70W BD17 U ELITE | Medium | BD17 | Hard Glass | Coated | Universal | General Lighting | 16000 hr |
| 928601173602 | MasterColor CDM 100W/930 BD17 CO ELITE | Medium | BD17 | Hard Glass | Coated | Universal | General Lighting | 16000 hr |

Installation diagrams



E26



any

Light Technical Characteristics (1/2)

| Order code | 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 |
|--------------|--|------------|------------------------|-------------------|-------------------|----------------|-------------------------|-------------------------|------------------------------|--------------------|---|
| 928601173102 | 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) - |
| 928601173302 | 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) - |
| 928601173502 | 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) - |
| 928601173202 | 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) - |

| Order code | 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 |
|--------------|--|------------|------------------------|-------------------|-------------------|----------------|-------------------------|-------------------------|------------------------------|--------------------|---------------------------------------|
| 928601173402 | MasterColor CDM 70W BD17 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) |
| 928601173602 | 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) |

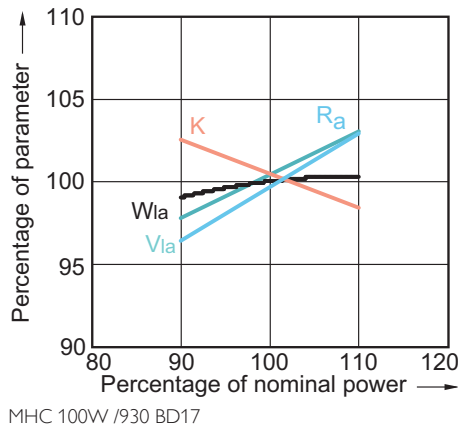
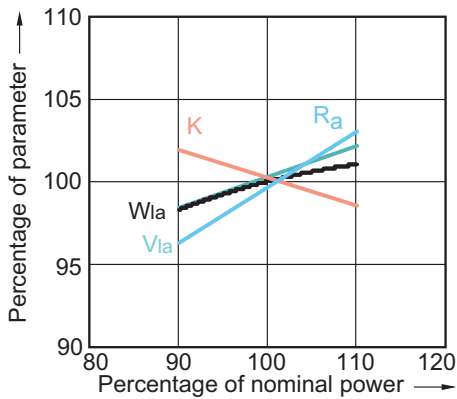
Light Technical Characteristics (2/2)

| Order code | Full product name | Chromaticity Coordinate Y |
|--------------|--|---|
| 928601173102 | MasterColor CDM 50W BD17 CL U ELITE | 0.4 (min), 0.406 (nom), 0.412 (max) - |
| 928601173302 | MasterColor CDM 70W BD17 CL U ELITE | 0.397 (min), 0.403 (nom), 0.409 (max) - |
| 928601173502 | MasterColor CDM 100W/930 BD17 CL ELITE | 0.395 (min), 0.401 (nom), 0.407 (max) - |
| 928601173202 | MasterColor CDM 50W BD17 CO U ELITE | 0.404 (min), 0.41 (nom), 0.416 (max) - |
| 928601173402 | MasterColor CDM 70W BD17 U ELITE | 0.398 (min), 0.404 (nom), 0.41 (max) - |
| 928601173602 | MasterColor CDM 100W/930 BD17 CO ELITE | 0.398 (min), 0.404 (nom), 0.41 (max) - |

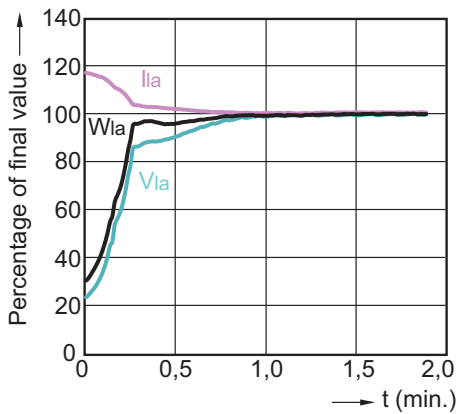
Electrical Characteristics

| Order code | Full product name | Energy Used | Lamp Voltage | Lamp Current |
|--------------|--|-------------|--------------|--------------|
| 928601173102 | MasterColor CDM 50W BD17 CL U ELITE | 50 W | 88 V | 0.68 A |
| 928601173302 | MasterColor CDM 70W BD17 CL U ELITE | 70 W | 95 V | 0.91 A |
| 928601173502 | MasterColor CDM 100W/930 BD17 CL ELITE | 100 W | 100 V | 1.1 A |
| 928601173202 | MasterColor CDM 50W BD17 CO U ELITE | 50 W | 88 V | 0.68 A |
| 928601173402 | MasterColor CDM 70W BD17 U ELITE | 70 W | 95 V | 0.91 A |
| 928601173602 | MasterColor CDM 100W/930 BD17 CO ELITE | 100 W | 97 V | 1.1 A |

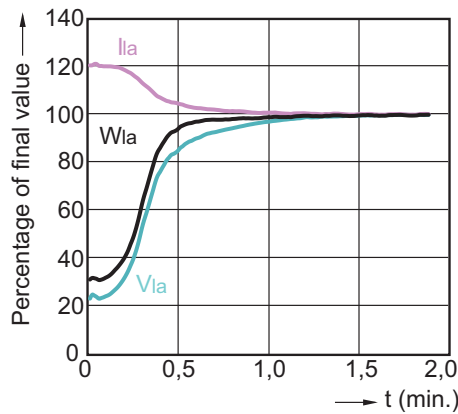
Performance diagrams



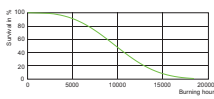
Performance diagrams



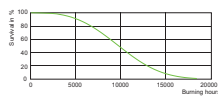
MHC 50W /830 BD17



MHC 100W /930 BD17



MHC 50W /830 BD17



MHC 100W /930
BD17

Environmental Characteristics

| Order code | Full product name | Mercury (Hg) Content | Picogram per Lumen Hour |
|--------------|--|----------------------|-------------------------|
| 928601173102 | MasterColor CDM 50W BD17 CL U ELITE | 6.4 (max) mg | 95.2 p/Lu-Hr |
| 928601173302 | MasterColor CDM 70W BD17 CL U ELITE | 7.6 (max) mg | 79.2 p/Lu-Hr |
| 928601173502 | MasterColor CDM 100W/930 BD17 CL ELITE | 12.5 (max) mg | 88.8 p/Lu-Hr |
| 928601173202 | MasterColor CDM 50W BD17 CO U ELITE | 6.4 (max) mg | 97.6 p/Lu-Hr |
| 928601173402 | MasterColor CDM 70W BD17 U ELITE | 7.6 (max) mg | 79.2 p/Lu-Hr |
| 928601173602 | MasterColor CDM 100W/930 BD17 CO ELITE | 12.5 (max) mg | 95.7 p/Lu-Hr |

Luminaire Design Requirements

| Order code | Full product name | Cap-Base Temperature | Bulb Temperature |
|--------------|--|----------------------|------------------|
| 928601173102 | MasterColor CDM 50W BD17 CL U ELITE | 190 (max) C | 400 (max) C |
| 928601173302 | MasterColor CDM 70W BD17 CL U ELITE | 190 (max) C | 400 (max) C |
| 928601173502 | MasterColor CDM 100W/930 BD17 CL ELITE | 190 (max) C | 400 (max) C |
| 928601173202 | MasterColor CDM 50W BD17 CO U ELITE | 190 (max) C | 400 (max) C |
| 928601173402 | MasterColor CDM 70W BD17 U ELITE | 190 (max) C | 400 (max) C |
| 928601173602 | MasterColor CDM 100W/930 BD17 CO ELITE | 190 (max) C | 400 (max) C |



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2014, March 20
data subject to change