



Unrivaled performance, familiar shape

MasterColor CDM ED17 Protected Elite 4200K

MasterColor Elite Protected Ceramic Metal Halide ED-17 4200K Lamps provide excellent lumen maintenance and outstanding performance over time in a protected lamp.

Benefits

- Excellent color - Up to 93 CRI (color rendering index)
- Color stability over life within +/- 200 K
- Lamp to lamp color consistency over life
- High lamp efficacy
- Elite 50W lamp provides 29% more initial lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp*
- Elite 50W lamp provided 52% more mean lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp+
- * Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 4645 initial lumens compared to MasterColor Protected ED-17 50W lamp at 3600 initial lumens.
- + Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 3716 mean lumens compared to MasterColor Protected ED-17 50W lamp at 2450 mean lumens.

Features

- Application versatility
- Universal operating position
- Suitable for use in open fixtures
- Dimension, base and light center length are same as standard MasterColor ED-17 lamps
- Available in 50W, 70 W and 100W Elite lamps

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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)
- WARNING: The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE. Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.

Versions



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

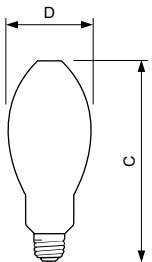


E26, ED-17P, CL, Elite, 70-100W /940



E26 ED17, ED-17P Coated

Dimensional drawing



| Product | D | C (max) |
|------------------------|----------|----------|
| MHC100/C/U/MP/4K ELITE | 2.125 in | 5.438 in |
| MHC100/U/MP/4K ELITE | 2.125 in | 5.438 in |
| MHC50/U/MP/4K ELITE | 2.125 in | 5.438 in |
| MHC70/U/MP/4K ELITE | 2.125 in | 5.438 in |
| MHC70/C/U/MP/4K ELITE | 2.125 in | 5.438 in |

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General Information

| | |
|----------------------------|-------------------------|
| Cap-Base | E26 |
| Life To 50% Failures (Nom) | 20000 h |
| Main Application | General Lighting (G) |
| Operating Position | Universal |

Luminaire Design Requirements

| | |
|------------------------|--------|
| Bulb Temperature (Max) | 400 °C |
|------------------------|--------|

Light Technical

| | |
|------------------------------------|-----------------|
| Color Code | 940 |
| Color Designation | Cool White (CW) |
| Correlated Color Temperature (Nom) | 4000 K |
| Color Rendering Index (Min) | 87 |
| Color Rendering Index (Nom) | 90 |
| Lumen Maintenance - 10% Life | 90 % |
| Lumen Maintenance - 40% Life | 80 % |

Mechanical and Housing

| | |
|---------------|------------|
| Bulb Material | Hard Glass |
| Bulb Shape | ED17P |

Approval and Application

| Order Code | Full Product Name | Mercury (Hg) Content (Max) | Picogram Per Lumen Hour |
|------------|------------------------|----------------------------|-------------------------|
| 429944 | MHC50/U/MP/4K ELITE | 5.4 mg | 76 pg/lm.h |
| 429950 | MHC70/U/MP/4K ELITE | 7.1 mg | 76 pg/lm.h |
| 429936 | MHC100/U/MP/4K ELITE | 10.3 mg | 68 pg/lm.h |
| 429976 | MHC70/C/U/MP/4K ELITE | 7.1 mg | 79 pg/lm.h |
| 429968 | MHC100/C/U/MP/4K ELITE | 10.3 mg | 74 pg/lm.h |

Operating and Electrical (1/2)

| Order Code | Full Product Name | Lamp | | | |
|------------|----------------------|---------------|---------------|---------------|---------------|
| | | Current (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 429944 | MHC50/U/MP/4K ELITE | 0.67 A | 98 V | 80 V | 88 V |
| 429950 | MHC70/U/MP/4K ELITE | 0.9 A | 115 V | 95 V | 100 V |
| 429936 | MHC100/U/MP/4K ELITE | 1.1 A | 118 V | 93 V | 103 V |

| Order Code | Full Product Name | Lamp | | | |
|------------|------------------------|---------------|---------------|---------------|---------------|
| | | Current (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) |
| 429976 | MHC70/C/U/MP/4K ELITE | 0.9 A | 115 V | 95 V | 100 V |
| 429968 | MHC100/C/U/MP/4K ELITE | 1.1 A | 118 V | 93 V | 103 V |

Operating and Electrical (2/2)

| Order Code | Full Product Name | Re-Ignition Time (Min) (Max) |
|------------|----------------------|------------------------------|
| 429944 | MHC50/U/MP/4K ELITE | 8 min |
| 429950 | MHC70/U/MP/4K ELITE | 8 min |
| 429936 | MHC100/U/MP/4K ELITE | 10 min |

| Order Code | Full Product Name | Re-Ignition Time (Min) (Max) |
|------------|------------------------|------------------------------|
| 429976 | MHC70/C/U/MP/4K ELITE | 8 min |
| 429968 | MHC100/C/U/MP/4K ELITE | 10 min |

Light Technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Chromaticity | Chromaticity |
|------------|-----------------------|--------------------|--------------------|--------------------|--------------------|
| | | Coordinate X (Max) | Coordinate X (Min) | Coordinate X (Nom) | Coordinate Y (Max) |
| 429944 | MHC50/U/M P/4K ELITE | 0.386 | 0.368 | 0.377 | 0.373 |
| 429950 | MHC70/U/M P/4K ELITE | 0.450 | 0.432 | 0.441 | 0.402 |
| 429936 | MHC100/U/M P/4K ELITE | 0.391 | 0.373 | 0.382 | 0.377 |

| Order Code | Full Product Name | Chromaticity | Chromaticity | Chromaticity | Chromaticity |
|------------|------------------------|--------------------|--------------------|--------------------|--------------------|
| | | Coordinate X (Max) | Coordinate X (Min) | Coordinate X (Nom) | Coordinate Y (Max) |
| 429976 | MHC70/C/U/MP/4K ELITE | 0.391 | 0.373 | 0.382 | 0.369 |
| 429968 | MHC100/C/U/MP/4K ELITE | 0.398 | 0.380 | 0.389 | 0.381 |

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Light Technical (2/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Luminous Efficacy (rated) (Min) | Luminous Efficacy (rated) (Nom) | Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) |
|------------|---------------------------|-----------------------|-----------------------|------------------------------------|------------------------------------|-----------------------|--------------------------------|--------------------------------|
| | | Coordinate Y (Min) | Coordinate Y (Nom) | | | | | |
| 429944 | MHC50/U/MP/4K ELITE | 0.361 | 0.367 | 86 lm/W | 92 lm/W | 3680 lm | 4320 lm | 4800 lm |
| 429950 | MHC70/U/MP/4K ELITE | 0.390 | 0.392 | 85 lm/W | 88 lm/W | 4960 lm | 5900 lm | 6500 lm |
| 429936 | MHC100/U/MP/4K ELITE | 0.362 | 0.371 | 91 lm/W | 94 lm/W | 7520 lm | 8500 lm | 9400 lm |
| 429976 | MHC70/C/U/MP/4K ELITE | 0.357 | 0.363 | 80 lm/W | 84 lm/W | 4720 lm | 5400 lm | 5900 lm |
| 429968 | MHC100/C/U/MP/4K ELITE | 0.369 | 0.375 | 85 lm/W | 87 lm/W | 6960 lm | 7900 lm | 8700 lm |

Mechanical and Housing

| Order Code | Full Product Name | Bulb Finish | Order Code | Full Product Name | Bulb Finish |
|------------|----------------------|-------------|------------|------------------------|--------------|
| 429944 | MHC50/U/MP/4K ELITE | Clear | 429976 | MHC70/C/U/MP/4K ELITE | Coated glass |
| 429950 | MHC70/U/MP/4K ELITE | Clear | 429968 | MHC100/C/U/MP/4K ELITE | Coated glass |
| 429936 | MHC100/U/MP/4K ELITE | Clear | | | |

