MasterColor Elite
Ceramic Metal Halide
ED-17 4200K Lamps

Ideal for general lighting, downlighting, and flood lighting

MasterColor Elite

Enhanced performance, familiar shape

MasterColor Elite Ceramic Metal Halide ED-17 4200K Lamps provide excellent lumen maintenance and outstanding performance over time in the familiar ED-17 lamp shape.

Excellent color

- Up to 93 CRI (color rendering index)
- Color stability over life within +/- 200K
- Lamp to lamp color consistency over life

Total cost of ownership benefits

- High lamp efficacy (up to 100 LPW)
- Elite 50W lamp provides 27% more initial lumens as compared to a standard MasterColor ED-17 50W lamp*
- Elite 50W lamp provides 50% more mean lumens as compared to a standard MasterColor ED-17 50W lamp+

Application versatility

- Universal operating position
- Dimension, base and light center length are same as standard MasterColor ED-17 lamps
- Available in 50W, 70W, and 100W Elite lamps

(*, +, See back page for footnotes)

PHILIPS

MasterColor Elite Ceramic Metal Halide ED-17 4200K Lamps

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Base	Bulb	Ordering Code	ANSI Code	Watts	Std. Pkg. Qty.	LCL (In.)	MOL (In.)	Rated Avg. Life (Hrs.)[1]	Approx. Initial Lumens[2]	Approx. Mean Lumens[3]	CRI	Color Temp (K)
42992-8	Med.	ED-17	MHC50/U/M/4K ELITE	M148/M110/C110/E	50	12	3 7/16	5 7/16	20,000	4779	3823	88	4200
42987-8	Med.	ED-17	MHC50/C/U/M/4K ELITE	M148/M110/C110/E	50	12	–	5 7/16	20,000	3544	2835	83	4200
42990-2	Med.	ED-17	MHC70/U/M/4K ELITE	M143/M98/C98/E	70	12	3 7/16	5 7/16	20,000	6630	5304	89	4200
42991-0	Med.	ED-17	MHC70/C/U/M/4K ELITE	M143/M98/C98/E	70	12	–	5 7/16	20,000	6149	4919	88	4200
42988-6	Med.	ED-17	MHC100/U/M/4K ELITE	M140/M90/C90/E	100	12	3 7/16	5 7/16	20,000	9955	7964	93	4200
42989-4	Med.	ED-17	MHC100/C/U/M/4K ELITE	M140/M90/C90/E	100	12	–	5 7/16	20,000	9530	7624	93	4200

1) Rated average life is the life obtained on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

2) Measured at 100 hours of life in a vertical operating position.

3) Approximate mean lumen output at 40% of lamp rated average life.

Footnotes from front:

* MasterColor Elite ED-17 4200K 50W Lamp provides 4779 initial lumens compared to MasterColor ED-17 50W lamp at 3750 initial lumens.

+ MasterColor Elite ED-17 4200K 50W Lamp provides 3823 mean lumens compared to MasterColor ED-17 50W lamp at 2550 mean lumens.

WARNINGS, CAUTIONS, AND OPERATING INSTRUCTIONS

"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 sub-chapter J. (USA:21CFR 1040.30 Canada:SOR/DORS/80-381)

If the outer bulb is broken or punctured, turn off at once and replace the lamp to avoid possible injury from hazardous short wave ultraviolet radiation. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the envelope is struck.

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.**

Certain lamps that will retain all the glass particles should inner arc-tube rupture occur are commercially available from Philips Lighting Company.

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.

CAUTION: TO REDUCE THE RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE RESULTING FROM AN ARC-TUBE RUPTURE THE FOLLOWING LAMP OPERATING INSTRUCTIONS MUST BE FOLLOWED:

LAMP OPERATING INSTRUCTIONS:

1. 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.
2. Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
3. Use only auxiliary equipment meeting Philips and/or ANSI standards. Use within voltage limits recommended by ballast manufacturer.
   A. Operate lamp only within specified limits of operation.
   B. For total supply load refer to ballast manufacturers electrical data.
4. Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage
5. If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.
6. Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
7. Time should be allowed for lamps to stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Lamp color is also subject to change under conditions of excess vibration or shock, and color appearance may vary between individual lamps.
8. Lamps may require 10 to 15 minutes to re-light if there is a power interruption. Less than 10 minutes on pulse start ballasts.
9. Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.
10. **Use only in an enclosed fixture capable of withstanding particles of glass having temperatures up to 1000 °C.**

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