

GE Consumer & Industrial
Lighting

ConstantColor® CMH® 70 Watt Open-Rated Elliptical Lamps

GE ConstantColor® CMH® ceramic metal halide lamps provide lamp-to-lamp color uniformity, consistent excellent color over life... plus high operating efficiencies.



**Uniform,
Consistent Color**

Color uniformity lamp-to-lamp

Ceilings will look clean and bright, with minimal color variation lamp-to-lamp. ConstantColor® CMH® provides a consistent “white look”, critical for interior applications.

Consistent color over life

GE ConstantColor® CMH® lamps provide stable color over life. So walls, ceilings, displays and furnishings look their natural best always.

Excellent color rendering

Warm white light (3000K) and exceptional color rendering (>80 CRI) make ConstantColor® CMH® an ideal source for indoor applications.

Ease of Use

Protective shroud allows for use of product in open-fixtures.

Highly efficient

Up to 75 lumens per watt
- 10-20% more efficient
than standard metal halide.

Up to 15,000 hour life

Fits standard metal halide sockets

No new wiring or fixtures need.



**GE - Innovative,
Energy-Saving Lighting**



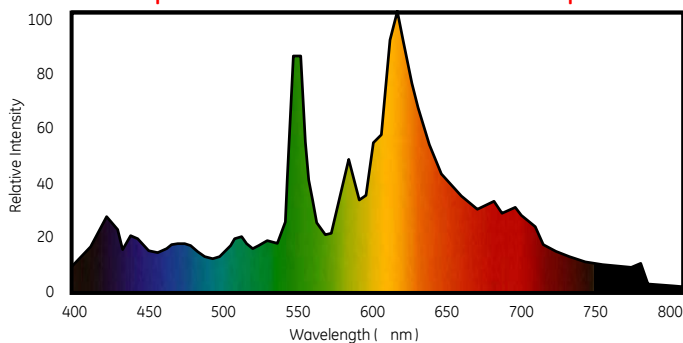
imagination at work

ConstantColor® CMH® 70 Watt Open-Rated Elliptical Lamps

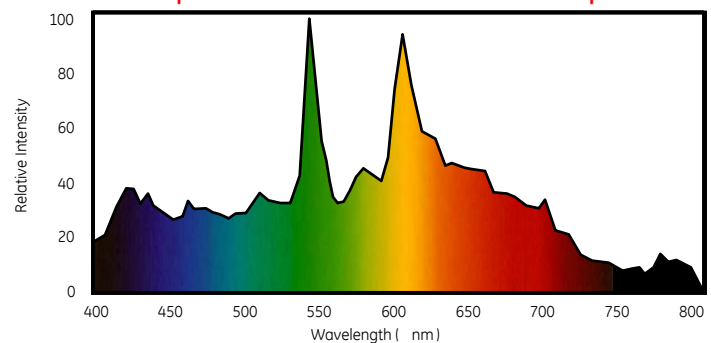
<u>Product Information*</u>	<u>Clear 70-Watt 3K</u>	<u>Coated 70-Watt 3K</u>	<u>Clear 70-Watt 4K</u>	<u>Coated 70-Watt 4K</u>
Product Code	31069	31070	31073	31074
Refer to ANSI Code	M98	M98	M98	M98
Description	CMH70/U/MED/830/O	CMH70/C/U/MED/830/O	CMH70/U/MED/942/O	CMH70/C/U/MED/942/O
<u>Physical Characteristics</u>				
Burn Position	Universal	Universal	Universal	Universal
Bulb Designation	ED17	ED17	ED17	ED17
Bulb Material	Heat Resistant Glass	Heat Resistant Glass	Heat Resistant Glass	Heat Resistant Glass
Bulb Nominal Diameter, mm (inches)	54 (2 1/8")	54 (2 1/8")	54 (2 1/8")	54 (2 1/8")
Base Type	Medium Screw	Medium Screw	Medium Screw	Medium Screw
Light Center Length, mm (inches)	86 (3 3/8")	86 (3 3/8")	86 (3 3/8")	86 (3 3/8")
Max. Overall Length, mm (inches)	138 (5 7/16")	138 (5 7/16")	138 (5 7/16")	138 (5 7/16")
Effective Arc Length, mm (inches)	7 (9/32")	7 (9/32")	7 (9/32")	7 (9/32")
Max. Bulb Temp °C	400	400	400	400
Max Base Temp °C	190	190	190	190
Eccentricity: Base-to-Bulb	3°	3°	3°	3°
Eccentricity: Base-to-Arc Axis	3°	3°	3°	3°
	Open or Enclosed Fixture	Open or Enclosed Fixture	Open or Enclosed Fixture	Open or Enclosed Fixture
<u>Luminaire Characteristics</u>				
<u>Electrical/Photometric Characteristics</u>				
Nominal Lamp Watts	70	70	70	70
Nominal Lamp Volts	90	90	90	90
Nominal Lamp Amps-Starting	1.2	1.2	1.2	1.2
Nominal Lamp Amps-Operating	.9	.9	.9	.9
Max. Current Crest Factor	1.8	1.8	1.8	1.8
Initial Lumens	5800	5300	5200	4600
Mean Lumens (40% Rated Life)	4000	3900	3700	3600
Average Rated Life (Hrs.) 10 Hrs./Start	15000	15000	15000	15000
Color Rendering Index (Ra) CRI@K	>80 3000K	>80 3000K	>90 4200K	>90 4200K
Warm-up time (Minutes) to 90%	3 Max	3 Max	3 Max	3 Max
Hot Restart Time (Minutes) to 90%	15 Max	15 Max	15 Max	15 Max
Chromaticity Coordinates: X	.438	.438	.372	.372
Chromaticity Coordinates: Y	.397	.397	.372	.372

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 and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available from the General Electric Company. If the outer envelope breaks or is punctured and the lamp continues to operate, immediately turn power off and remove lamp after it has cooled. These lamps are certified to comply with FDA radiation performance standards, 21 CFR Subchapter J.

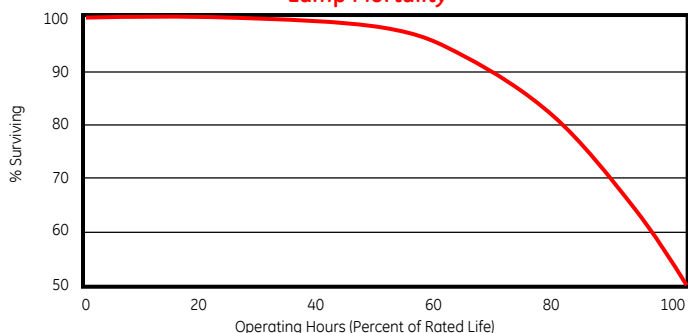
Spectral Power Distribution - 3000K Lamp



Spectral Power Distribution - 4200K Lamp



Lamp Mortality



Lumen Maintenance

