

GE Consumer & Industrial  
Lighting

# ConstantColor<sup>®</sup> CMH<sup>®</sup> 150 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.

## 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 85 lumens per watt  
- 10-20% more efficient than  
standard metal halide.

## 12,000 to 15,000 hour rated life

## Fits standard metal halide sockets

No new wiring or fixtures needed.



**Uniform,  
Consistent Color**



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



imagination at work

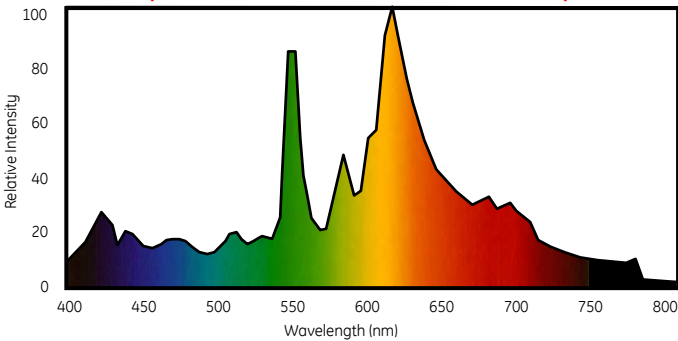
# ConstantColor® CMH® 150 Watt Open-Rated Elliptical Lamps

<u>Product Information*</u>	<u>Clear 150-Watt 3K</u>	<u>Coated 150-Watt 3K</u>	<u>Clear 150-Watt 4K</u>	<u>Coated 150-Watt 4K</u>
Product Code	31065	31066	31067	31068
Refer to ANSI Code	M102	M102	M102	M102
Description	CMH150/U/MED/830/O	CMH150/C/U/MED/830/O	CMH150/U/MED/942/O	CMH150/C/U/MED/942/O
<b><u>Physical Characteristics</u></b>				
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)	8 (5/16")	8 (5/16")	8 (5/16")	8 (5/16")
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
<b><u>Luminaire Characteristics</u></b>				
<b><u>Electrical/Photometric Characteristics</u></b>				
Nominal Lamp Watts	150	150	150	150
Nominal Lamp Volts	95	95	95	95
Nominal Lamp Amps-Starting	2.4	2.4	2.4	2.4
Nominal Lamp Amps-Operating	1.8	1.8	1.8	1.8
Max. Current Crest Factor	1.8	1.8	1.8	1.8
Initial Lumens	12900	11900	12000	11000
Mean Lumens (40% Rated Life)	9545	8805	9000	8250
Rated Life (Hrs.) 10 Hrs./Start	12000	12000	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	5 Max	5 Max
Hot Restart Time (Minutes) to 90%	19 Max	19 Max	18 Max	18 Max
Chromaticity Coordinates: X	.438	.438	.372	.372
Chromaticity Coordinates: Y	.397	.397	.372	.372

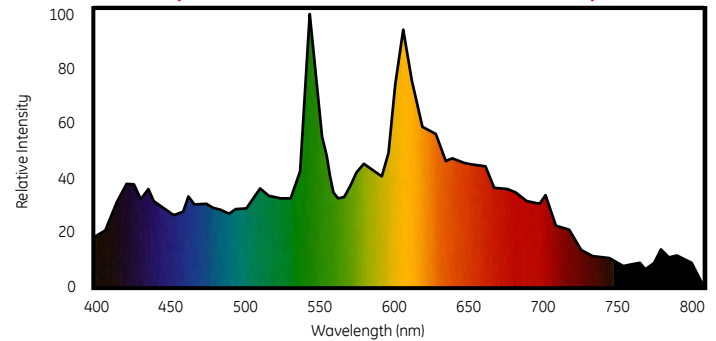
\*All data are engineering estimates

**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.

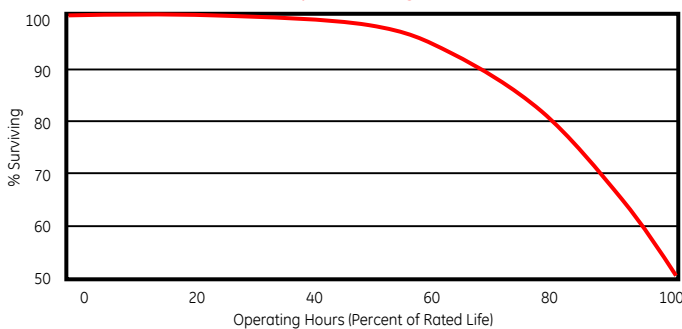
**Spectral Power Distribution - 3000K Lamp**



**Spectral Power Distribution - 4200K Lamp**



**Lamp Mortality**



**Lumen Maintenance**

