

GE Consumer & Industrial Lighting

**CRISP WHITE LIGHT
FITS EXISTING HPS SOCKETS**

GE CMH[®] *ChromaFit[™]* **LAMPS**

A direct replacement for High Pressure Sodium (HPS) lamps, GE CMH[®] ChromaFit[™] lamps provide excellent crisp white color without expensive ballast or fixture change.

The advantages of metal halide lighting for HPS users.

ChromaFit[™] lamps provide the benefits of metal halide lighting and improved color - using existing HPS ballasts and fixtures. GE CMH[®] ChromaFit[™] lamps are designed to operate on ANSI standard S50/M168 and S51/M169 ballasts. Available in 250-watt and 400-watt versions.

Warm white light.

ChromaFit[™] lamps provide the crisp white light typical of metal halide lamps, adding sparkle and comfort to any setting.

Improved color.

With a color rendering index of greater than 80 for the 400 watt and 85 for the 250 watt, ChromaFit[™] is an excellent choice to upgrade HPS systems for improved color without costly fixture changes.

Metal halide efficiency.

GE CMH[®] ChromaFit[™] lamps are highly efficient, providing up to 100 lumens per watt of quality light.



Applications:

General Lighting

Industrial Lighting

Parking Lots

Street Lighting

Architectural

Landscape Lighting



imagination at work

GE CMH® ChromaFit™ Lamps

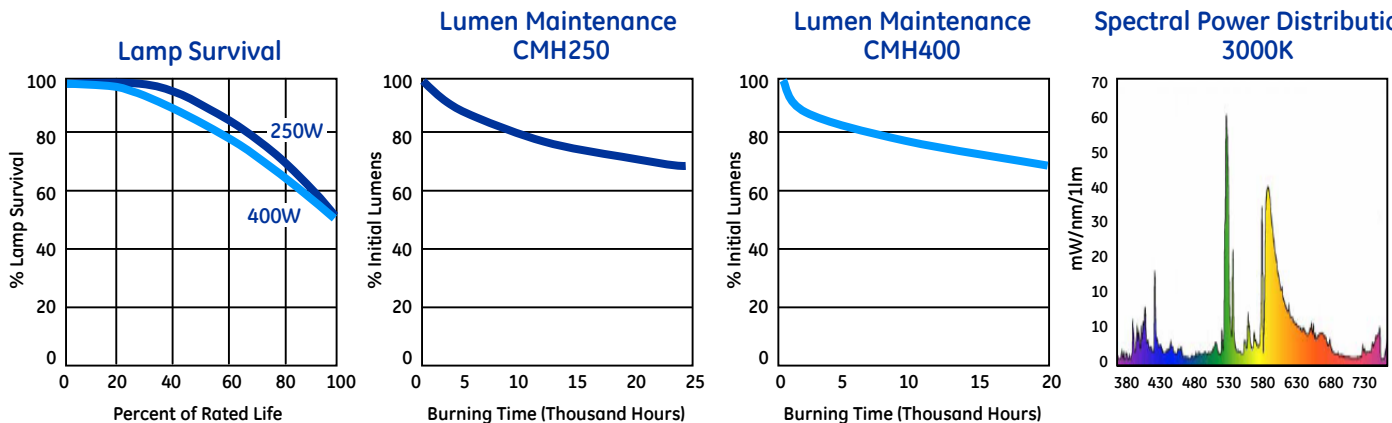
Performance Data

Product Information	Clear 250-watt	Clear 400-watt
GE Product Code	93357	93295
Refer to ANSI Code	S50/M168	S51/M169
Description	CMH250/U/830/R	CMH400/U/830/R
Physical Characteristics		
Burning Position	Universal	Universal
Bulb Designation	T15	ED18
Bulb Material	Heat-Resistant Glass	Heat-Resistant Glass
Light Center Length, mm (inches)	146.0 (5.75")	146.0 (5.75")
Maximum Overall Length, mm (inches)	247.6 (9.75")	247.6 (9.75")
Effective Arc Length, mm (inches)	25.7 (1.02)	32.3 (1.28)
Maximum Bulb Temperature °C	400°C	400°C
Maximum Base Temperature °C	250°C	250°C
Luminaire Characteristics		
	Enclosed*	Enclosed*
Electrical Characteristics		
Nominal Lamp Watts	250	400
Nominal Lamp Volts	100	95
Nominal Lamp Amps-Operating	2.7	4.0
Photometric Characteristics		
Reference ¹ - Initial Lumens	25,000	41,000
Reference ¹ - Mean Lumens (40% Rated Life)	20,000	31,300
Design Factor	1.0	1.0
Average Rated Life (Hours) 10 Hrs./Start	24,000	20,000
Color Rendering Index (Ra) CRI	85 @ 3000K(H) 81 @ 3450K(V)	82 @ 3000K(H) 80 @ 3600K(V)
Warm-up Time (Minutes) to 90%	2 to 5	2 to 4
Hot Restart Time (Minutes) to 90%	5 to 15	5 to 15

*Use in enclosed glass lens fixtures only

SPECTRAL POWER DISTRIBUTION

Spectral Power Distribution curves are given in the following diagram



1. **Reference Lumens** -Rated average lamp lumen obtained under controlled laboratory conditions in a prescribed burning position. Initial Reference Lumens refer to the lamp lumen output after 100-hours burning. Mean Reference Lumens refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen rating.

2. Lumen Maintenance is measured under specified test conditions at rated lamp watts, for lamps that have been operated 10 or more burning hours per start. **The date on Lumen Maintenance represents nominal values for Metal Halide Lamps. Lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, and other reasons. Mean lumen are measured at 40% of rated life, at rated lamp watts.**

Important Notice: In accordance with Federal Standard 21CFR 1040.3, the following notice applies to the Multi-Vapor lamps described above.

Warning: This lamp can cause serious skin burn and eye inflammation from shortwave 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 be extinguished when the outer envelope is broken or punctured are commercially available from General Electric Company. These are self extinguishing SAF-T-GARD® Mercury and Multi-Vapor lamps.

Information provided is subject to change without notice. Please verify all details with GE. All values are design or typical values when measured under laboratory conditions, and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

For additional product and application information, please consult GE's Website: www.gelighting.com