GE Consumer & Industrial
Lighting

ConstantColor® CMH® SPXX

Sparkling Color With Startling Performance!

Now Available in Multiple Energy Saving Wattages: 250, 320, 350 & 400 Watt

Applications

- Retail
- Grocery Store
- Commercial
- Convention Center

Energy Savings
Reduce your energy costs by up to $224* per fixture
Or, save by reducing fixture count with same wattage lamps

Great Color Rendering Index (CRI) - Up to 92
Ideal for all applications, especially where color is important.

Improved Spectral Distribution
Vibrant reds, blues, greens and yellows

Better than PulseArc Lamps
Excellent Lumen Maintenance > (80%).
Same Long Life and Lumen Output.

Maintains Constant Color Over Time
Maintains constant color over time for uniform ceilings and stores.

Rated for Open Fixtures
Excellent for General Lighting Applications.
Easy Installation.

Vertical Base Up or Vertical Base Down Operation

Operates on Pulse Ignitor Ballasts
Direct Replacement for 250 Watt, 320 Watt, 350 Watt and 400 Watt Pulse Start Lamps.
Operates on Approved Ballasts* Only.

GE - Innovative, Energy-Saving Lighting

imagination at work

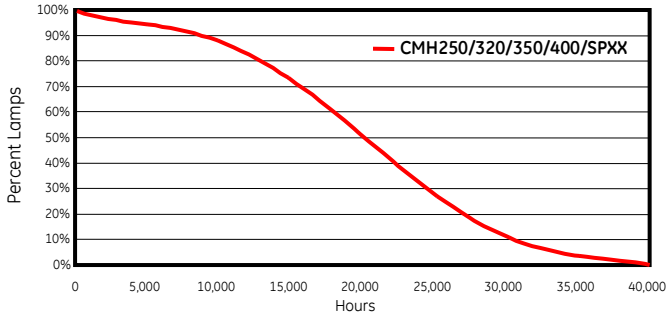
* Using a 320W CMH system to replace a std. 400W metal halide system @ 10¢ kWh over the life of the lamp

ConstantColor® CMH® SPXX

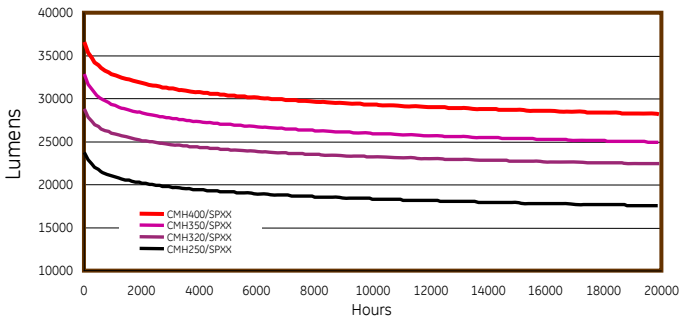
	400w Clear	400w Coated	350w Clear	350w Coated	320W Clear	320W Coated	250W Clear	250W Coated
Product Code	49910	49911	11834	11835	17264	17267	48429	48432
Ordering Abbreviation	CMH400/V/PA/O	CMH400/C/V/PA/O	CMH350/V/PA/O	CMH350/C/V/PA/O	CMH320/V/PA/O	CMH320/C/V/PA/O	CMH250/V/PA/O	CMH250/C/V/PA/O
Physical Characteristics:								
Burning Position	VBU or VBD	VBU or VBD	VBU or VBD	VBU or VBD	VBU or VBD	VBU or VBD	VBU or VBD	VBU or VBD
Bulb Designation	ED37	ED37	ED37	ED37	ED37	ED37	ED28	ED28
Bulb Material	Hard Glass	Hard Glass	Hard Glass	Hard Glass	Hard Glass	Hard Glass	Hard Glass	Hard Glass
Bulb Nominal Diameter mm (in.)	117.5 (4 5/8")	117.5 (4 5/8")	117.5 (4 5/8")	117.5 (4 5/8")	117.5 (4 5/8")	117.5 (4 5/8")	90.0 (3 1/2")	90.0 (3 1/2")
Base Type	EX39 Mog	EX39 Mog	EX39 Mog	EX39 Mog	EX39 Mog	EX39 Mog	EX39 Mog	EX39 Mog
Socket Type	Std./Open Socket	Std. /Open Socket	Std./Open Socket	Std./Open Socket	Std./Open Socket	Std./Open Socket	Std./Open Socket	Std./Open Socket
Light Center Length, mm (in.)	178 (7")	178 (7")	178 (7")	178 (7")	178 (7")	178 (7")	127 (5")	127 (5")
Max. Overall Length, mm (in.)	287.5 (11 5/16")	287.5 (11 5/16")	287.5 (11 5/16")	287.5 (11 5/16")	287.5 (11 5/16")	287.5 (11 5/16")	211.0 (8 5/16")	211.0 (8 5/16")
Arc Length, mm (in.)	25 (1")	25 (1")	25 (1")	25 (1")	17 (11/16")	17 (11/16")	16 (5/8")	16 (5/8")
Max. Bulb Temperature C	400 C	400 C	400 C	400 C	400 C	400 C	400 C	400 C
Max. Base Temperature C	210 C	210 C	210 C	210 C	210 C	210 C	210 C	210 C
Max. Eccentricity: Bulb to Base	3	3	3	3	3	3	3	3
Max. Eccentricity: Bulb to Arc Axis	3	3	3	3	3	3	3	3
Luminaire Characteristics:	Open or Enclosed	Open or Enclosed	Open or Enclosed	Open or Enclosed	Open or Enclosed	Open or Enclosed	Open or Enclosed	Open or Enclosed
Additional comments	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube	Protected Arc Tube
Electrical Characteristics:								
Nominal Watts	400	400	350	350	320	320	250	250
Nominal Volts	145	145	145	145	138	138	135	135
Nominal Lamp Amps - Starting	4.1	4.1	3.5	3.5	3.3	3.3	2.7	2.7
Nominal Lamp Amps - Operating	3.25	3.25	2.76	2.76	2.63	2.63	2.1	2.1
Max. Current Crest Factor	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Min. Open Circuit Voltage:								
RMS	254	254	254	254	254	254	254	254
Peak	359	359	359	359	359	359	359	359
Photometric Characteristics:								
Reference Initial Lumens	40,000	39,000	34,000	33,000	31,000	30,000	23,000	22,000
- Mean Lumens (40% rated life) (2)	32,000	31,200	27,200	26,400	24,800	24,000	18,400	17,600
Rated life (Hrs.)	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Color Rendering Index (Ra)CRI	92	92	90	90	90	90	90	90
Color Temperature (CCT) K(3)	3700 K	3700 K	3600 K	3600 K	4100 K	4100 K	4100 K	4100 K
Warm-Up Time (Minutes) to 90 %	< 3 Min.	< 3 Min.	< 3 Min.	< 3 Min.	< 3 Min.	< 3 Min.	< 3 Min.	< 3 Min.
Hot Restart Time (Minutes) to 90 %	17 Min.	17 Min.	17 Min.	17 Min.	17 Min.	17 Min.	17 Min.	17 Min.

* Specifications are estimates based on preliminary design calculations, and are subject to change without notice.

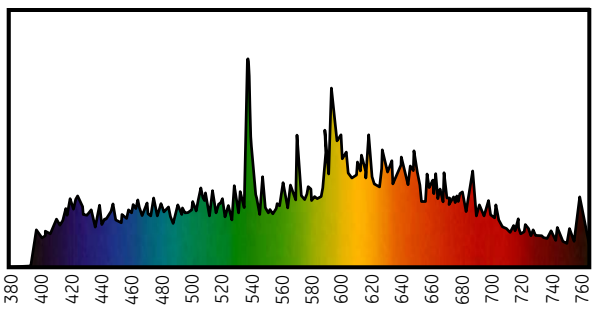
High Watt CMH® Lamp Mortality



High Watt CMH® Lumen Maintenance



CMH® SPXX SPD



Spectral Distribution

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.

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

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