

SPARKLING COLOR WITH STARTLING PERFORMANCE! THE 400-WATT CONSTANTCOLOR CMH™ SPXX

High Color Rendering Index (CRI) of 92

Make Your Products Stand Out

Applications

- Retail
- Grocery Store
- Commercial
- Convention Center

Improved Spectral Distribution With Enriched Reds

Vibrant "Reds" in Your Displays

PulseArc-like Performance

Excellent Lumen Maintenance (80%). Same Long Life and Lumen Output

Maintains Constant Color Over Time

Ceilings and Stores Look Uniformly Consistent

Rated for Open Fixtures

Excellent for General Lighting Applications.
Easy Installation

Operates on 400-Watt Pulse Ignitor Ballasts (M135)

Direct Replacement for 400-Watt Pulse Start Lamps



"The 400-watt GE ConstantColor CMH™ SPXX metal halide lamp provided a brighter, cleaner, more 'color true' look," said Gary Nester of JoAnne ETC. "Both customers and employees commented on how much better the area looked."



GE Lighting

GE 400-Watt ConstantColor CMH™ SPXX Lamps

High Color Rendering Metal Halide Lamps

- CRI Greater Than 90
- High Red Content
- 80% Lumen Maintenance
- Operates on 400-Watt PulseArc™ Systems

Preliminary Performance Data

PRODUCT INFORMATION	CLEAR 400-WATT	COATED 400-WATT
Product Code	49910	49911
ANSI Ballast Code	M135/O	M135/O
Description	CMH400/VBU/940/PA/O	CMH400/C/VBU/940/PA/O
Physical Characteristics		
Burning Position	Vertical Base Up Only	Vertical Base Up Only
Bulb Designation	ED37	ED37
Bulb Material	Hard Glass	Hard Glass
Bulb Nominal Diameter, mm (inches)	117.5 (4 5/8")	117.5 (4 5/8")
Base Type	Mogul (EX39)	Mogul (EX39)
Light Center Length, mm (inches)	178.0 (7")	178.0 (7")
Maximum Overall Length, mm (inches)	287.5 (11 5/16")	287.5 (11 5/16")
Arc Length, mm (inches)	41 (1 5/8")	N/A
Maximum Bulb Temperature °C	400°C	400°C
Maximum Base Temperature °C	210°C	210°C
Maximum Eccentricity: Bulb to Base	3°	3°
Maximum Eccentricity: Bulb to Arc Axis	3°	3°
Luminaire Characteristics		
Additional Comments	Open or Enclosed Protected Arc Tube	Open or Enclosed Protected Arc Tube
Electrical Characteristics		
Nominal Lamp Watts	400	400
Nominal Lamp Volts	145	145
Nominal Lamp Amps—Starting	5.0	5.0
Nominal Lamp Amps—Operating	3.2	3.2
Maximum Current Crest Factor	1.8	1.8
Minimum Open Circuit Voltage	M135	M135
Photometric Characteristics		
Reference ¹ —Initial Lumens	40,000	39,000
Reference ¹ —Mean Lumens (40% Rated Life)	32,000	31,200
Average Rated Life (Hrs.)	20,000	20,000
Color Rendering Index (Ra) CRI	92	92
Correlated Color Temperature (K)	3700°	3700°
Warm-up Time (Minutes) to 90%	<3	<3
Hot Restart Time (Minutes) to 90%	17	17



GE's unique one-piece Ceramic Arc Tube makes it all possible. With ceramics, the arc tube can operate at higher temperatures, allowing GE Engineers to blend in elements which emit more colors, especially red. The ceramic arc tube also stops sodium loss, a major contributor to standard quartz metal halide lumen maintenance problems.

IMPORTANT NOTICE: In accordance with Federal Standard 21 CFR 1040.30, the following notice applies to the Mercury lamps described above.

Warning: This lamp can cause serious skin burn and eye inflammation from shortwave 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 GE Lighting. These are self-extinguishing SAF-T-GARD® Mercury and Multi-Vapor lamps.

Specifier Statement

The ceramic metal halide lamp shall be General Electric's ConstantColor® CMH™SPXX, product code 49911 (diffuse) or 49910 (clear) and meet ANSI type M135, M128 (with min. 270 volt OCV), or the latest M155 system requirements. The lamp shall be open fixture rated and have an exclusionary EX39 base. Arc tube construction shall be of ceramic one-piece design. Lamp performance shall be at least 39,000 initial lumens, and provide a minimum of 80% lumen maintenance. Lamp Correlated Color Temperature shall be 3700° Kelvin. Color Rendering Index shall be 92 CRI and having an R9 value > 70 ("Strong Red" spectral properties per CIE 13.3-1995). Lamp life shall be 20,000 hours average rated life.



GE Lighting