



What is CMH?

CMH stands for Ceramic Metal Halide. This proven lamp system, based on metal halide lamp technology, has been widely used in the existing street light technology for many years. Now, Lumiversal is integrating CMH technology, with its tremendous advantages, into numerous state-of-the-art lighting applications.

Key CMH Features

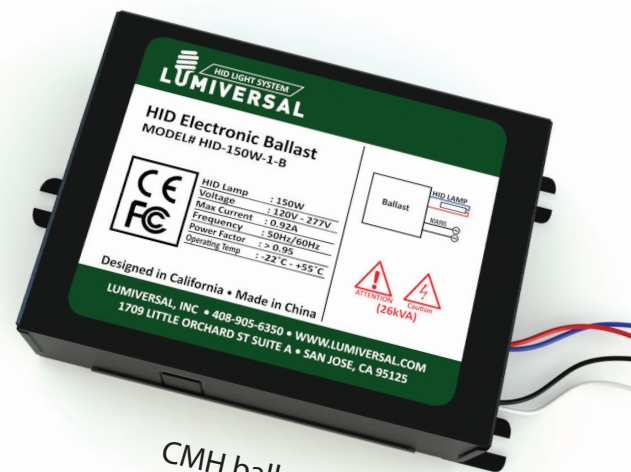
- Design Flexibility
 - Multi-lamp capability
 - Wattage choices (35W, 70W, 100W and 150W)
- Longevity
 - Up to 12,000 hour lamp life
 - Up to 24,000 hour ballast life
- Small lamp size means fewer raw materials needed for manufacturing and packaging.
- Wide operating range: -50°C / -58°F to 85°C / 185°F
- Wide range of new fixtures
- Easily Retrofittable: the compact lamp and slim ballast design allows the CMH system to be readily installed in most fixtures. This is a distinct advantage when compared to most other systems, which are not easily accommodated within existing fixtures.

Lamps

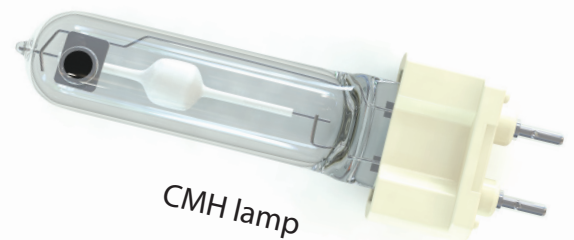
- Instant Start
 - Full illumination within 60 seconds
- Quick Restrike
 - Within 7 minutes
- Highest Quality of Light
 - >90 Color Rendering Index (CRI)
- Lumen Maintenance
 - 80% at 50% of lamp life
 - $\geq 70\%$ at end of lamp life
- Up to 108 Lumens/W

Ballasts

- High Ballast Efficiency
 - Approximately 89%
- Wide Operating Voltage
 - 120V to 277V



CMH ballast



CMH lamp





Specification Sheet



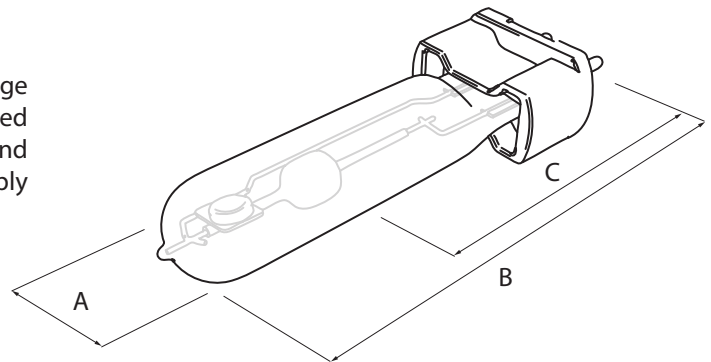
Lamps

Model #	Lamp Base	Lamp Wattage	CRI	Approx. Initial	Approx. Mean	Lifetime Hours ³	Start / Restrike Time	Dimensions (mm / in)		
				Lumens ¹	Lumens ²			A	B	C
HID-35W-942/U	G12	35	>90	4,000	3,200	12,000	Instant / < 7 min	18/0.71	405/4.13	56/2.2
HID-70W-942/U	G12	70	>90	7,200	5,760	12,000	Instant / < 7 min	18/0.71	405/4.13	56/2.2
HID-100W-942/U	G12	100	>90	11,200	8,960	12,000	Instant / < 7 min	18/0.71	405/4.13	56/2.2
HID-150W-942/U	G12	150	>90	16,000	12,800	12,000	Instant / < 7 min	18/0.71	405/4.13	56/2.2

¹ Measured at 100 hours of life.

² Approximate mean lumen output at 50% of life

³ Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

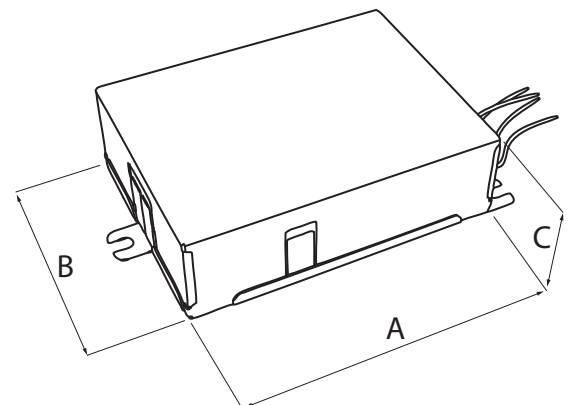


Ballasts

Model #	Nominal System Power (W)	Nominal System Power (W)	Ambient Range (C/F)	Line Voltage (V)	Frequency (Hz)	Efficiency	Dimensions (mm / in)		
							A	B	C
HID-35W-1-B	39.4	35	22°C / -8°F	120-277	50/60	0.89	107/4.2	76/3	39/1.5
HID-70W-1-B	78.6	70	to	120-277	50/60	0.89	107/4.2	76/3	39/1.5
HID-100W-1-B	108.9	100	55°C / -131°F	120-277	50/60	0.89	120/4.7	89/3.5	39/1.5
HID-150W-1-B	168.9	150		120-277	50/60	0.89	185/7.2	89/3.5	39/1.5

All product data presented in this specification sheet supersedes all data published prior to 6/14/12.

In accordance with our policy to consistently improve our products, the specifications contained herein are subject to change without notice.



1709-A Little Orchard Street
 San Jose, CA 95125
 Phone 408-905-8720
 www.lumiversal.net