

MH/HPI Metal halide

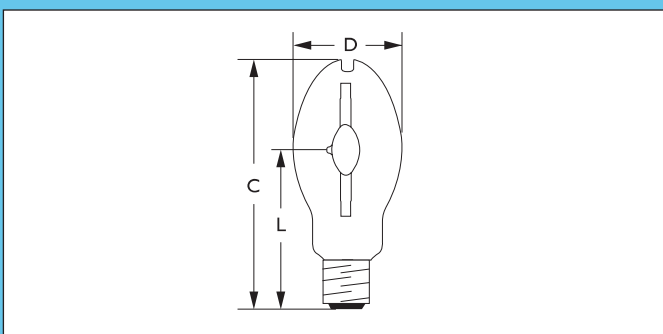


MH E26/E27 CL



MH E40 CO

Dimensions in mm



Product Description

- Sodium Scandium Metal Halide Lamps consisting of a gas-filled glass bulb, which alternatively are clear or internal coated, and a quartz discharge tube (DT).

Product Feature

- Quartz discharge tube containing high-pressure mercury and a mixture of Sodium and Scandium halides, which contribute to multi-lines spectra; with Ar to aid ignition.
- Better color rendering index around 60
- Luminous efficacy up to 90 lm/W
- Low wattage lamps with extra quartz tube around DT to prevent the risk of outer bulb shattering when abnormal operated or to the end of life.
- Universal operation position permitted

Product Benefit

- Energy saving solution with better color appearance and rendering property for conventional version.

Application

- Stadium and sports facilities lighting
- Industrial and commercial lighting—factory, supermarket and exhibition hall etc.
- Public lighting—square, station, port, airport etc.
- Decorative flood lighting—monument, buildings e.g. hotel.

Luminaires

- MH-NaSc must be used in a luminaire with a hard-glass cover to protect against possible discharge tube shattering
- Protected structure of low wattage lamps allows lower Luminaires' protection level.

Product ID	Overall length	Width	Light center length
	C max.	D max.	L nom.
70W/100W/150W	141	56	83
250W	228	91	149
400W	290	121	184

Preferred selection

Product ID	Rated Lamp Wattage (W)	Lamp Wattage EL (W)	Lamp Current EL (A)	Lamp Voltage (V)	Mains Voltage Stable Operation (V)	Cap Base	Color Temperature (K)
MH 70W/637 E27 CO SLV	70	70	0.98	85	198	E27	3700
MH 70W/640 E27 P CL SLV *	70	70	0.98	85	198	E27	3700
MH 100W/637 E27 CO SLV	100	100	1.1	100	198	E27	3700
MH 100W/640 E27 P CL SLV *	100	100	1.1	100	198	E27	4000
MH 150W/637 E27 CO SLV	150	150	1.8	95	198	E27	3700
MH 250W/637 E40 CO U SLV	250	250	2.1	133	198	E40	4000
MH 400W/637 E40 CO U SLV	400	400	3.25	135	198	E40	3700

Product ID	Color Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/W)	Lamp Current Run-Up (A)
MH 70W/637 E27 CO SLV	60	390	380	Coated	5300	76	1.5
MH 70W/640 E27 P CL SLV *	60	395	390	Clear	5600	80	1.5
MH 100W/637 E27 CO SLV	65	375	385	Coated	8800	90	1.5
MH 100W/640 E27 P CL SLV *	60	380	380	Clear	9000	90	1.5
MH 150W/637 E27 CO SLV	65	385	390	Coated	13500	90	3
MH 250W/637 E40 CO U SLV	60	405	395	Coated	19000	76	3.5
MH 400W/637 E40 CO U SLV	61	405	395	Coated	33400	83.5	5

Product ID	Ignition Peak Voltage (V)	Ignition Supply Voltage min. (V)	Cap-Base Temperature (C)	Bulb Temperature (C)	Nett Weight Product In Grams (gr)
MH 70W/637 E27 CO SLV	4000	198	250	450	70
MH 70W/640 E27 P CL SLV *	4000	198	250	450	80
MH 100W/637 E27 CO SLV	4000	198	250	450	70
MH 100W/640 E27 P CL SLV *	4000	198	250	450	80
MH 150W/637 E27 CO SLV	4000	198	250	450	70
MH 250W/637 E40 CO U SLV	-	198	210	400	165
MH 400W/637 E40 CO U SLV	-	198	210	400	230

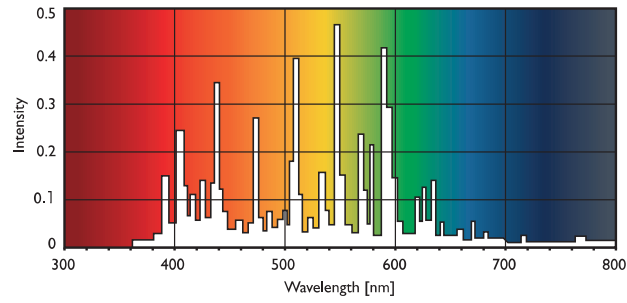
* P : Protected Structure

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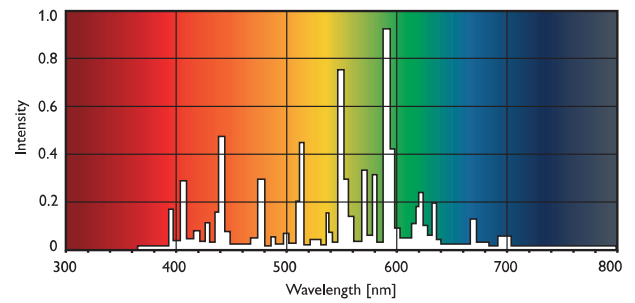
MH-NaSc

Spectral power distribution

MH 70/150W



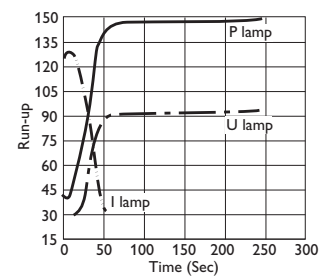
MH 175/400W



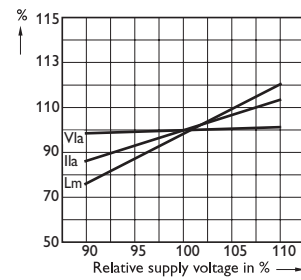
Performance diagrams

MH 70/150W

Lamp performance during run up



Effects of mains voltage variations



- I_{la} = Lamp current
- Φ = Luminous Flux
- V_{la} = Lamp Voltage
- W_{la} = Lamp Wattage

