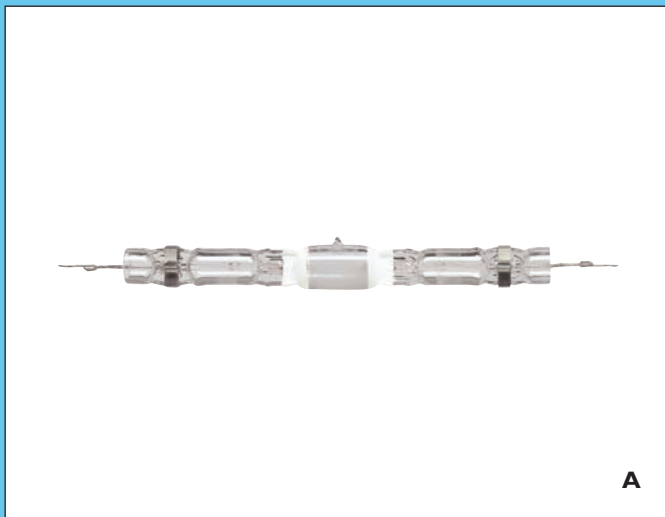
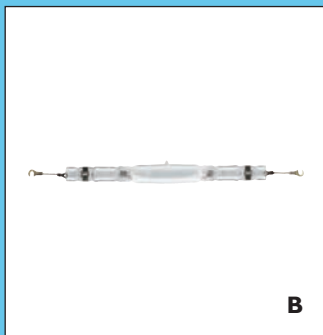


MH/HPI Metal halide

MHN-LA



MHN-LA 1000W



MHN-LA 2000W

Product Description

- Compact quartz metal halide lamps with double-pin

Product Features

- Compact source (Long Arc) with high luminous efficacy
- Double-pin concept results in long lifetime
- Natural white color appearance, high color rendering and good color stability
- Daylight color temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact and efficient luminaire systems with precision optics for good beam control and minimal spill light
- Good color rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers options for semi-professional stadiums and for professional stadiums with regular TV coverage

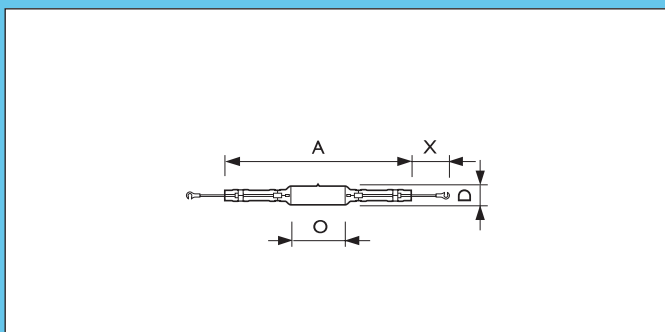
Application

- Professional and semi-professional sports lighting and floodlighting

Luminaires

- MHN-LA lamps require UV-absorbing and protective front glass and correct thermal behaviour for optimal lamp performance

Dimensions in mm



Product ID	Overall length	Diameter	Arc length	
	A max.	D max.	O nom.	X nom.
1000W	294	40	405	35
2000W	364	40	108	58

Preferred selection

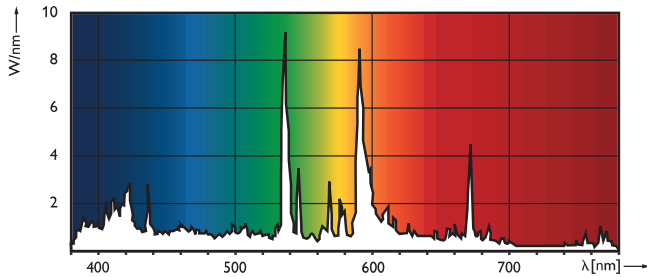
Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	Lamp Voltage (V)	Main Voltage (V)	Cap/Base	Color Temperature (K)	Color Rendering Index (R _a)
MASTER MHN-LA 1000W/842 230V	1040	9.3	125	230	Cable	4200	80
MASTER MHN-LA 1000W/956 230V	1040	9.3	125	230	Cable	5600	90
MASTER MHN-LA 2000W/842 400V	2040	9.6	235	400	Cable	4200	80
MASTER MHN-LA 2000W/956 400V	2040	10.3	235	400	Cable	5600	90

Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/w)	Luminance Average EM (cd/cm ²)
MASTER MHN-LA 1000W/842 230V	370	370	Clear	100000	96.2	2200
MASTER MHN-LA 1000W/956 230V	330	339	Clear	90000	86.5	1600
MASTER MHN-LA 2000W/842 400V	370	370	Clear	220000	108.0	1500
MASTER MHN-LA 2000W/956 400V	330	339	Clear	190000	93.0	1300

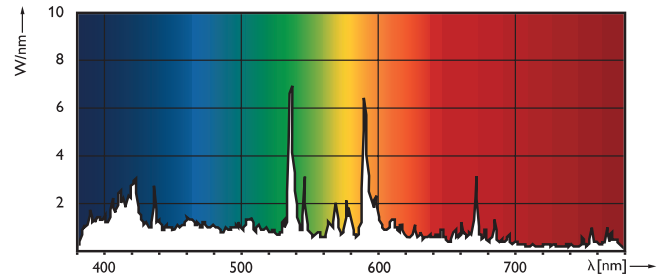
Product ID	Operating Position	Ignition Supply Voltage min. (V)	Bulb Temperature max. (°C)	Pinch Temperature max. (°C)	Net Weight Per Piece (g)
MASTER MHN-LA 1000W/842 230V	P5	198	920	350	141
MASTER MHN-LA 1000W/956 230V	P5	198	920	350	137
MASTER MHN-LA 2000W/842 400V	P5	342	920	350	172
MASTER MHN-LA 2000W/956 400V	P5	342	920	350	168

Spectral power distribution

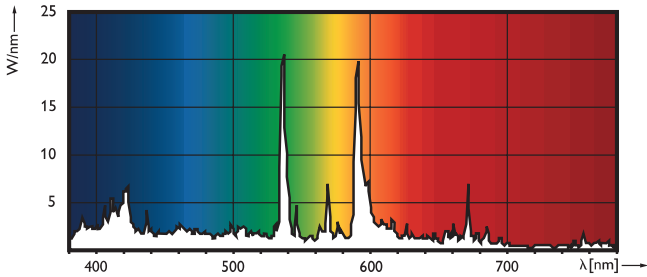
MHN-LA /842



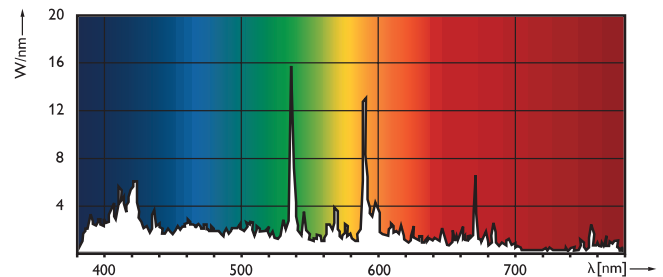
MHN-LA /956



MHN-LA /842



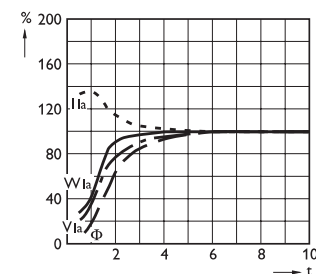
MHN-LA /956



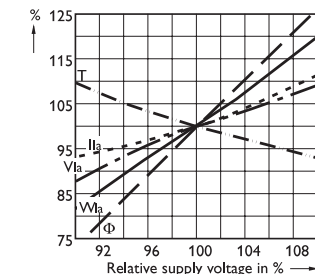
Performance diagrams

MASTER MHN-LA

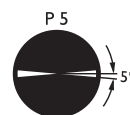
Lamp performance during run up



Effects of mains voltage variations



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



The allowed burning position