



# MASTER MHN-SA

## MASTER MHN-SA 2000W/956 400V XW UNP/1

Compact quartz metal halide lamps with double-pinch

### Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

### Product data

General Information	
Cap base	X830R [ X830R]
Burning Position	P15 [ Parallel +/-15D or Horizontal(HOR)]
Life to 5% failures (nom.)	1000 h
Life to 10% failures (nom.)	1400 h
Life to 20% failures (nom.)	2100 h
Life to 50% failures (nom.)	3700 h
Light Technical	
Colour Code	956 [ CCT of 5,600 K]
Lamp Luminous Flux (Nom)	200000 lm
Colour Designation	Daylight
Lumen maintenance 1,000 hours (nom.)	88 %
Lumen maintenance 2,000 hours (nom.)	79 %
Lumen maintenance 5,000 hours (nom.)	70 %
Chromaticity coordinate X (nom.)	330
Chromaticity coordinate Y (nom.)	362
Colour Temperature, horizontal (Nom)	5600 K
Lamp Luminous Efficacy EM (Nom)	98 lm/W

Colour Rendering Index,horiz (Nom)	85
Operating and Electrical	
Lamp supply voltage	400 V [ 400]
Power (Rated) (Nom)	2040,0 W
Lamp current run-up (max.)	17 A
Lamp current (EM) (nom.)	11.3 A
Ignition supply voltage (min.)	360 V
Voltage (Max)	220 V
Voltage (Min)	185 V
Voltage (Nom)	205 V
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Lamp Finish	Clear
Cap-base information	na [ -]

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## Approval and Application

Energy efficiency label (EEL)	A+
Mercury (Hg) content (nom.)	225 mg
Energy consumption kWh/1,000 hours	2244 kWh

## UV

Specific eff. radiant power	60 mW/klm
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## Luminaire Design Requirements

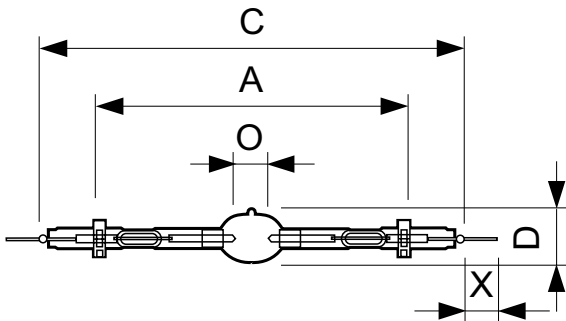
Bulb temperature (max.)	980 °C
Pinch temperature (max.)	300 °C

## Product Data

Full product code	871150020079200
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Order product name	MASTER MHN-SA 2000W/956 400V XW UNP/1
EAN/UPC – product	8718291548287
Order code	928099105129
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
SAP material	928099105129
SAP net weight (piece)	110.000 g
ILCOS code	MN-2000-E-X830R-/H

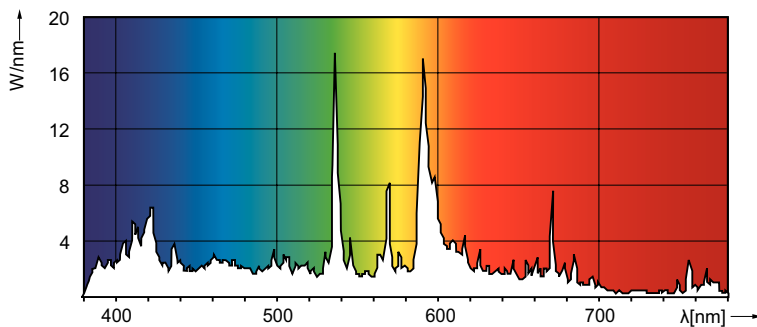
## Dimensional drawing



MHN-SA 2000W/956 400V XW

Product	D (max)	O	X	A	C (max)
MASTER MHN-SA 2000W/956 400V XW UNP/1	41 mm	25 mm	25 mm	226 mm	369 mm

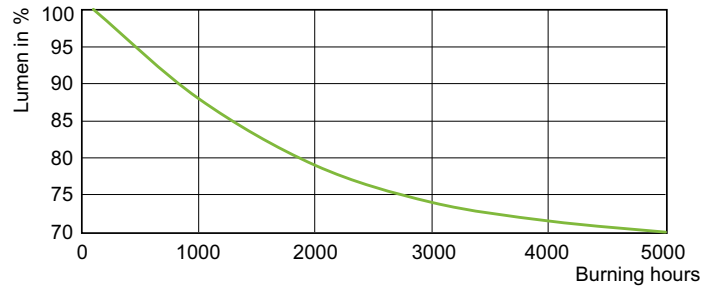
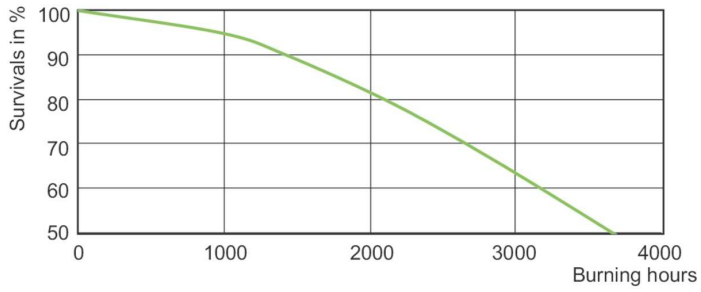
## Photometric data



LDPO\_MHN-SA\_0004-Spectral power distribution Colour

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## Lifetime



LDLE\_MHN-SA\_0002-Life expectancy diagram

LDLM\_MHN-SA\_0002-Lumen maintenance diagram

