

PHILIPS

Lighting



MASTER MHN-LA

MASTER MHN-LA 2000W/842 400V XWH

Compact quartz metal halide lamps with double-pinches

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	X528 [X528]
Operating position	P5 [Parallel +/-5D or Horizontal(HOR)]
Life to 5% failures (nom.)	4500 h
Life to 10% failures (nom.)	6000 h
Life to 20% failures (nom.)	8500 h
Life to 50% failures (nom.)	13000 h
Light Technical	
Colour Code	842 [CCT of 4,200 K]
Luminous flux (rated) (min.)	193000 lm
Luminous flux (rated) (nom.)	214000 lm
Colour designation	Cool White (CW)
Lumen maintenance 1,000 hours (nom.)	94 %
Lumen maintenance 10,000 hours (nom.)	63 %
Lumen maintenance 2,000 hours (nom.)	89 %
Lumen maintenance 5,000 hours (nom.)	76 %
Chromaticity coordinate X (nom.)	370
Chromaticity coordinate Y (nom.)	370

Correlated Colour Temperature (Nom)	4200 K
Luminous efficacy (rated) (nom.)	105 lm/W
Colour rendering index (nom.)	72

Operating and Electrical

Lamp supply voltage	400 V [400]
Power (Rated) (Nom)	2040.0 W
Lamp current run-up (max.)	15 A
Lamp current (EM) (nom.)	9.6 A
Ignition supply voltage (min.)	342 V
Voltage (Max)	245 V
Voltage (Min)	220 V
Voltage (Nom)	235 V

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Clear
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Cap-base information	Cable (C)
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Approval and Application

Energy efficiency label (EEL)	A+
Mercury (Hg) content (nom.)	194 mg
Energy consumption kWh/1,000 hours	2244 kWh

UV

Specific eff. radiant power	280 mW/klm
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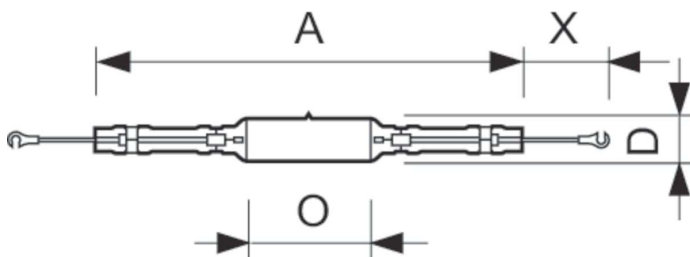
Luminaire Design Requirements

Bulb temperature (max.)	920 °C
Pinch temperature (max.)	350 °C

Product Data

Full product code	871150020074700
Order product name	MASTER MHN-LA 2000W/842 400V XWH
EAN/UPC – product	8718291548201
Order code	20074700
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
SAP material	928071305130
SAP net weight (piece)	172.000 g
ILCOS code	MN-2000-E-K-/H

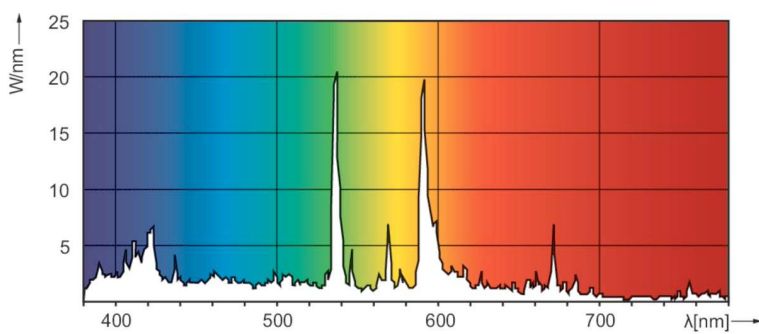
Dimensional drawing



Product	D (max)	O	X	A
MASTER MHN-LA 2000W/842 400V XWH	40 mm	108 mm	58 mm	353 mm

MHN-LA 2000W/842 400V XWH

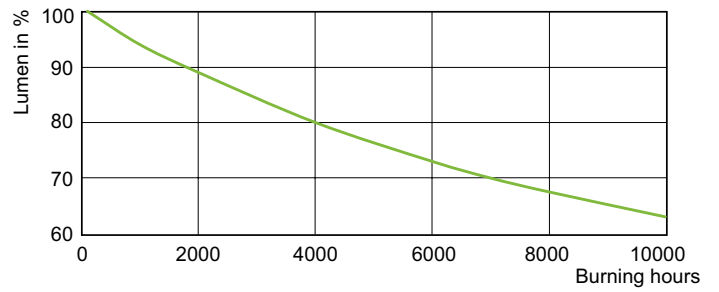
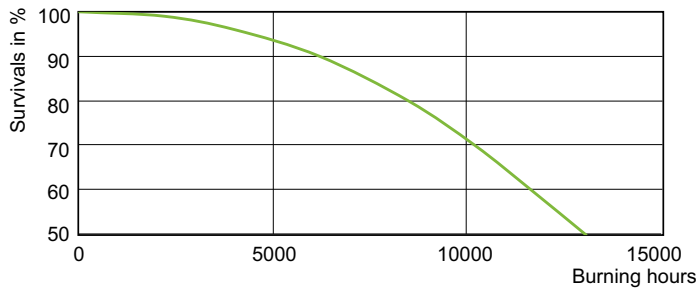
Photometric data



LDPO_MHN-LA_0002-Spectral power distribution Colour

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Lifetime



LDLE_MHN-LA_0002-Life expectancy diagram

LDLM_MHN-LA_0002-Lumen maintenance diagram

