



Product Description

MASTER MHN-LA

Compact quartz metal halide lamps with double-pinch

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

Features

- Compact source (Long Arc) with high luminous efficacy
- Double-pinch 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

Application

- Professional and semi-professional sports lighting and floodlighting

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.

MASTER MHN-LA

Controls and Dimming

Dimmable	No
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General Information

Cap-Base	X528
Operating Position	P5

Luminaire Design Requirements

Bulb Temperature (Max)	920 °C
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Mechanical and Housing

Bulb Finish	Clear
Bulb Shape	TD40

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
20074700	MASTER MHN-LA 2000W/842 400V XWH	2244 kWh	194 mg
20073000	MASTER MHN-LA 2000W/956 400V XWH	2244 kWh	130 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
20077800	MASTER MHN-LA 1000W/956 230V XWH	1144 kWh	95 mg
20078500	MASTER MHN-LA 1000W/842 230V XWH	1144 kWh	112 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Nom)
20074700	MASTER MHN-LA 2000W/842 400V XWH	9.6 A	245 V	220 V	235 V	2040.0 W
20073000	MASTER MHN-LA 2000W/956 400V XWH	10.3 A	235 V	210 V	225 V	2040.0 W
20077800	MASTER MHN-LA 1000W/956 230V XWH	9.3 A	140 V	110 V	125 V	1040.0 W
20078500	MASTER MHN-LA 1000W/842 230V XWH	9.3 A	140 V	110 V	125 V	1040.0 W

General Information

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
20074700	MASTER MHN-LA 2000W/842 400V XWH	6000 h	8500 h	13000 h	4500 h
20073000	MASTER MHN-LA 2000W/956 400V XWH	6000 h	8500 h	13000 h	4500 h

Order Code	Full Product Name	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
20077800	MASTER MHN-LA 1000W/956 230V XWH	8000 h	10000 h	15000 h	6000 h
20078500	MASTER MHN-LA 1000W/842 230V XWH	8000 h	10000 h	15000 h	6000 h

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Colour Code	Colour Designation	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)
20074700	MASTER MHN-LA 2000W/842 400V XWH	370	370	842	Cool White (CW)	4200 K	72	94 %
20073000	MASTER MHN-LA 2000W/956 400V XWH	330	339	956	Daylight	5600 K	82	94 %

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Order Code	Full Product Name	Chromaticity	Chromaticity	Colour		Correlated Colour Temperature (Nom)	Colour	Lumen Maintenance 1000 h (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation		Rendering Index (Nom)	
20077800	MASTER MHN-LA 1000W/956 230V XWH	337	331	956	Daylight	5600 K	80	90 %
20078500	MASTER MHN-LA 1000W/842 230V XWH	366	370	842	Cool White (CW)	4200 K	70	90 %

Light Technical (2/2)

Order Code	Full Product Name	Lumen Maintenance	Lumen Maintenance	Lumen Maintenance	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
		10000 h (Nom)	2000 h (Nom)	5000 h (Nom)			
20074700	MASTER MHN-LA 2000W/842 400V XWH	63 %	89 %	76 %	105 lm/W	193000 lm	214000 lm
20073000	MASTER MHN-LA 2000W/956 400V XWH	63 %	89 %	76 %	93 lm/W	170000 lm	190000 lm
20077800	MASTER MHN-LA 1000W/956 230V XWH	-	80 %	-	86.0 lm/W	82000 lm	87000 lm
20078500	MASTER MHN-LA 1000W/842 230V XWH	-	80 %	-	92.00 lm/W	85800 lm	95800 lm

