



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
General Information	
Cap-Base	X528
Operating Position	P5
Luminaire Design Requirements	
Bulb Temperature (Max)	920 °C
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	TD40

Approval and Application

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

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

MASTER MHN-LA

Order Code	Full Product Name	Chromaticity	Chromaticity	Colour Code	Colour Designation	Correlated Colour Temperature (Nom)	Colour	Lumen Maintenance 1000 h (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)				Rendering Index (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 %
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

