



Product Description

MASTER MHN-SA

Compact quartz metal halide lamps with double-pinch

Benefits

- Allows compact and very efficient luminaire systems with high precision optics for good beam control and minimal spill light
- Very good colour rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers a superior solution for (semi-) professional stadiums with regular TV coverage

Features

- Very compact source (Short Arc) with high luminous efficacy and superior colour rendering
- Double-pinch concept results in long lifetime
- Natural white colour appearance, high colour rendering and good colour stability
- Daylight colour temperature eases transition from daylight to artificial lighting

Application

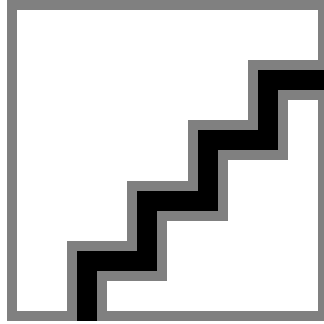
- Professional sports lighting and floodlighting

MASTER MHN-SA

Versions

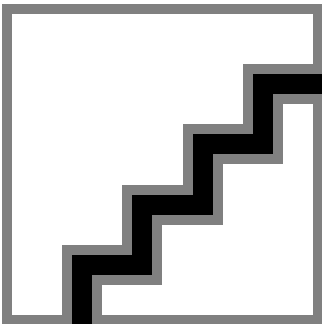
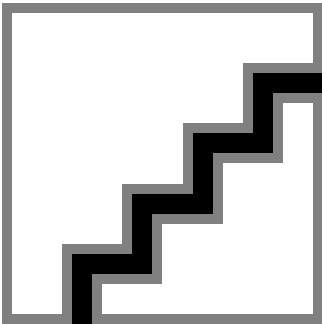


MHN-SA, (P)SFC



MHN-SA, X830R

Dimensional drawing



Product	D (max)	O	C (max)
MASTER MHN-SA 1800W/956 (P)SFC 230V	41 mm	25 mm	364 mm
MASTER MHN-SA 1800W/956 (P)SFC 400V	41 mm	25 mm	364 mm

Product	D (max)	O	X	A	C (max)
MASTER MHN-SA 2000W/956 400V XW HO UNP/1	41 mm	25 mm	34 mm	226 mm	369 mm

MASTER MHN-SA

Approval and Application

Energy Efficiency Label (EEL) A+

Controls and Dimming

Dimmable No

General Information

Operating Position P15

Light Technical

Chromaticity Coordinate X (Nom) 330

Color Code 956

Color Designation Daylight

Correlated Color Temperature (Nom) 5600 K

Mechanical and Housing

Bulb Finish Clear

Bulb Shape TD40

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg)
		1000 h	Content (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	1980 kWh	92 mg
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	2035 kWh	250 mg
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	2305 kWh	215 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	17.3 A	130 V	110 V	120 V
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	10.5 A	220 V	185 V	205 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	11.8 A	220 V	185 V	205 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	1800.0 W
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	1850.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	2095.0 W

General Information (1/2)

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	(P)SFC	2000 h	3200 h	6100 h
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	(P)SFC	2400 h	3600 h	6100 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	X830R	2300 h	3000 h	5000 h

General Information (2/2)

MASTER MHN-SA

Order Code	Full Product Name	Life To 5% Failures (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	1300 h
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	1700 h

Order Code	Full Product Name	Life To 5% Failures (Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	1700 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	980 °C
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	980 °C

Order Code	Full Product Name	Bulb Temperature (Max)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	1015 °C

Light Technical (1/2)

Order Code	Full Product Name	Color			
		Chromaticity Coordinate Y (Nom)	Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	339	86	95 %	91 %
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	339	86	90 %	81 %

Order Code	Full Product Name	Color			
		Chromaticity Coordinate Y (Nom)	Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	366	81	96.5 %	92.5 %

Light Technical (2/2)

Order Code	Full Product Name	Lumen Maintenance	Luminous Efficacy (rated)	Luminous Flux (Rated)
		5000 h (Nom)	(Nom)	(Nom)
20075400	MASTER MHN-SA 1800W/956 (P)SFC 230V	76 %	86 lm/W	155000 lm
20076100	MASTER MHN-SA 1800W/956 (P)SFC 400V	71 %	86 lm/W	160000 lm

Order Code	Full Product Name	Lumen Maintenance	Luminous Efficacy (rated)	Luminous Flux (Rated)
		5000 h (Nom)	(Nom)	(Nom)
24183600	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	78 %	108 lm/W	226000 lm

