



Product Description

MASTER MHN-SA

Compact quartz metal halide lamps with double-pin

Benefits

- Allows compact and very efficient luminaire systems with high precision optics for good beam control and minimal spill light
- Very good color 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 color rendering
- Double-pin 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 sports lighting and floodlighting

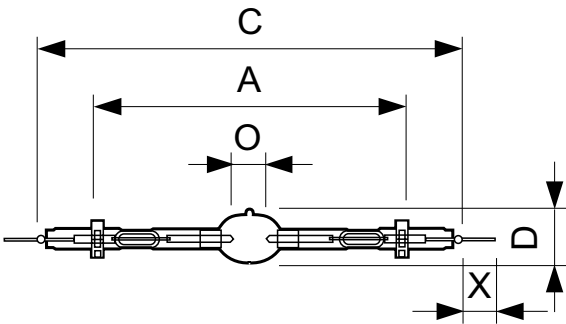
MASTER MHN-SA

Versions



MHN-SA, X830R

Dimensional drawing



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
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
Operating and Electrical	
Voltage (Max)	220 V
Voltage (Min)	185 V
Voltage (Nom)	205 V
General Information	
Cap-Base	X830R
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	CL
Bulb Shape	TD40

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928099105129	MASTER MHN-SA 2000W/956 400V XW UNP/1	2244 kWh	225 mg
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	2305 kWh	215 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Power (Rated) (Nom)
928099105129	MASTER MHN-SA 2000W/956 400V XW UNP/1	11.3 A	2040.0 W

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Power (Rated) (Nom)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	11.8 A	2095.0 W

General Information

Order Code	Full Product Name	Life To		Life To	
		Life To 10% Failures (Nom)	20% Failures (Nom)	50% Failures (Nom)	Life To 5% Failures (Nom)
928099105129	MASTER MHN-SA 2000W/956 400V XW UNP/1	1400 h	2100 h	3700 h	1000 h
928195105129	MASTER MHN-SA 2000W/956	2300 h	3000 h	5000 h	1700 h

Order Code	Full Product Name	Life To		Life To	
		Life To 10% Failures (Nom)	20% Failures (Nom)	50% Failures (Nom)	Life To 5% Failures (Nom)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1				

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928099105129	MASTER MHN-SA 2000W/956 400V XW UNP/1	980 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	1015 °C

Light Technical (1/2)

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Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Color		
			Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
928099105129	MASTER MHN-SA 2000W/95 6 400V XW UNP/1	362	85	88 %	79 %
928195105129	MASTER MHN-SA	366	81	96.5 %	92.5 %

Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Color		
			Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
	2000W/95 6 400V XW HO UNP/1				

Light Technical (2/2)

Order Code	Full Product Name	Lumen Maintenance	Luminous Efficacy	Luminous Flux (Rated)
		5000 h (Nom)	(rated) (Nom)	(Nom)
928099105129	MASTER MHN-SA 2000W/956 400V XW UNP/1	70 %	98 lm/W	200000 lm

Order Code	Full Product Name	Lumen Maintenance	Luminous Efficacy	Luminous Flux (Rated)
		5000 h (Nom)	(rated) (Nom)	(Nom)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	78 %	108 lm/W	226000 lm

