



MASTER MHN-SA

Versions



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 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

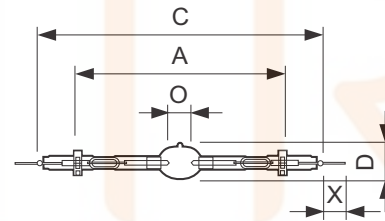
Features

- Very compact source (Short Arc) with high luminous efficacy and superior color rendering
- Double-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

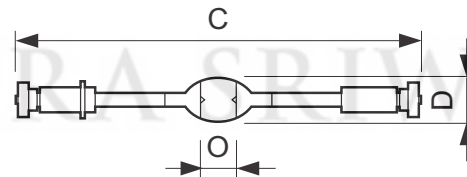
Application

- Professional sports lighting and floodlighting

Dimensional drawing



Product	D	O	X	A	C
MASTER MHN-SA 2000W/956 400V XW UNP/1	41 mm	25 mm	25 mm	226 mm	369 mm
MASTER MHN-SA 1800W/956 230V XW UNP/1	41 mm	25 mm	25 mm	318 mm	369 mm
MASTER MHN-SA 2000W/956 400V XW HO UNP/1	41 mm	25 mm	34 mm	226 mm	369 mm



Product	D	O	C
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

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Approval and Application	
Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
General Information	
Bulb Shape	TD40
Operating Position	P15
Light Technical	
Chromaticity Coordinate X (Nom)	330
Color Code	956
Color Designation	Day/light
Correlated Color Temperature (Nom)	5600 K
Mechanical and Housing	
Bulb Finish	Clear

Approval and Application

order code	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928078415130	1980 kWh	92 mg
928079315130	2035 kWh	250 mg
928099105129	2244 kWh	225 mg
928099205130	1980 kWh	92 mg
928195105129	2304 kWh	215 mg

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Light Technical (2/2)

order code	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928078415130	86 lm/W	155000 lm
928079315130	86 lm/W	160000 lm
928099105129	98 lm/W	200000 lm

order code	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928099205130	86 lm/W	155000 lm
928195105129	108 lm/W	226000 lm

Operating and Electrical

order code	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min) (Nom)	Power (Rated) (Nom)
928078415130	17.3 A	130 V	110 V	1800.0 W
928079315130	10.5 A	220 V	185 V	1850.0 W
928099105129	11.3 A	220 V	185 V	2040.0 W

order code	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min) (Nom)	Power (Rated) (Nom)
928099205130	17.3 A	130 V	110 V	1800.0 W
928195105129	11.8 A	220 V	185 V	2095.0 W

General Information

order code	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928078415130	(P)SFC	2000 h	3200 h	6100 h	1300 h
928079315130	(P)SFC	2400 h	3600 h	6100 h	1700 h
928099105129	X830R	1400 h	2100 h	3700 h	1000 h

order code	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928099205130	X830R	2300 h	3000 h	5000 h	1800 h
928195105129	X830R	2300 h	3000 h	5000 h	1700 h

Luminaire Design Requirements

order code	Bulb Temperature (Max)
928078415130	980 °C
928079315130	980 °C
928099105129	980 °C

order code	Bulb Temperature (Max)
928099205130	980 °C
928195105129	1015 °C

Light Technical (1/2)

order code	Color				
	Chromaticity Coordinate Y (Nom)	Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)
928078415130	339	86	95 %	91 %	76 %
928079315130	339	86	90 %	81 %	71 %
928099105129	362	85	88 %	79 %	70 %

order code	Color				
	Chromaticity Coordinate Y (Nom)	Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)
928099205130	339	86	92 %	80 %	60 %
928195105129	366	81	96.5 %	92.5 %	78 %

