



2015, May 8
data subject to change

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

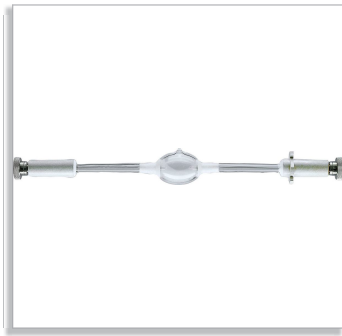
- Professional sports lighting and floodlighting

Warnings and Safety

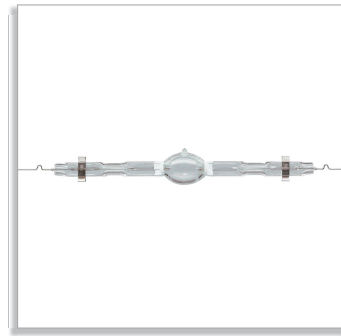
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and 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.

PHILIPS

Related products

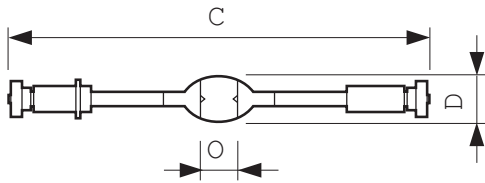


MHN-SA, (P)SFC



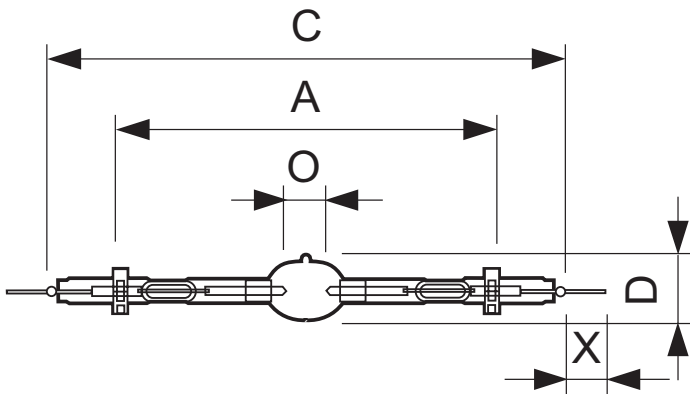
MHN-SA, X830R

Dimensional drawing



MASTER MHN-SA 1800W/956 (P)SFC 230V

Product	A (Norm)	C (Max)	D (Max)	O (Norm)	X (Norm)
MHN-SA 1800W/956 (P)SFC/20-6 230V	-	364	41	25	-
MHN-SA 1800W/956 (P)SFC/20-6 400V	-	364	41	25	-



MASTER MHN-SA 2000W/956 400V XW

Product	A (Norm)	C (Max)	D (Max)	O (Norm)	X (Norm)
MHN-SA 2000W/956 400V XW	226	369	41	25	25
MHN-SA 1800W/956 230V XW	318	369	41	25	25
MHN-SA 2000W/956 400V XW HO	226	369	41	25	34

General Characteristics

Order code	Full product name	Cap-Base	Bulb	Bulb Finish	Burning Position	Life to 5% failures	Life to 10% failures	Life to 20% failures	Life to 50% failures
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	(P)SFC	TD40	Clear	p15	1300 hr	2000 hr	3200 hr	6100 hr
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	(P)SFC	TD40	Clear	p15	1700 hr	2400 hr	3600 hr	6100 hr
200792 00	MASTER MHN-SA 2000W/956 400V XW	X830R	TD40	Clear	p15	1000 hr	1400 hr	2100 hr	3700 hr

Order code	Full product name	Cap-Base	Bulb	Bulb Finish	Burning Position	Life to 5% failures	Life to 10% failures	Life to 20% failures	Life to 50% failures
201065 00	MASTER MHN-SA 1800W/956 230V XW	X830R	TD40	Clear	p15	1800 hr	2300 hr	3000 hr	5000 hr
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	X830R	TD40	Clear	p15	1700 hr	2300 hr	3000 hr	5000 hr

Installation diagrams



X830R



p15

Light Technical Characteristics (1/2)

Order code	Full product name	Colour Code	Colour Rendering Index	Colour Designation	Colour Temperature	Lamp Luminous Flux EM	Lamp Luminous Efficacy EM	Lumen Maintenance 1000h	Lumen Maintenance 2000h	Lumen Maintenance 3000h	Lumen Maintenance 5000h
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	956	86 Ra8	Daylight	5600 K	155000 Lm	86 Lm/W	95 %	91 %	-	76 %
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	956	86 Ra8	Daylight	5600 K	160000 Lm	86 Lm/W	90 %	81 %	-	71 %

Order code	Full product name	Colour Code	Colour Rendering Index	Colour Designation	Colour Temperature	Lamp Luminous Flux EM	Lamp Luminous Efficacy EM	Lumen Maintenance 1000h	Lumen Maintenance 2000h	Lumen Maintenance 3000h	Lumen Maintenance 5000h
200792 00	MASTER MHN-SA 2000W/956 400V XW	956	85 Ra8	Daylight	5600 K	200000 Lm	98 Lm/W	88 %	79 %	-	70 %
201065 00	MASTER MHN-SA 1800W/956 230V XW	956	86 Ra8	Daylight	5600 K	155000 Lm	86 Lm/W	92 %	80 %	-	60 %
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	956	81 Ra8	Daylight	5600 K	226000 Lm	108 Lm/W	96.5 %	92.5 %	88.5 %	78 %

Light Technical Characteristics (2/2)

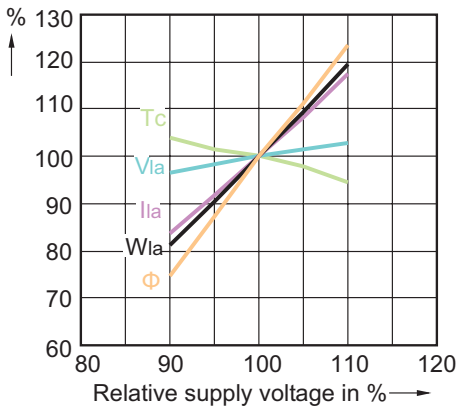
Order code	Full product name	Chromaticity Coordinate X	Chromaticity Coordinate Y
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	330 -	339 -
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	330 -	339 -
200792 00	MASTER MHN-SA 2000W/956 400V XW	330 -	362 -

Order code	Full product name	Chromaticity Coordinate X	Chromaticity Coordinate Y
201065 00	MASTER MHN-SA 1800W/956 230V XW	330 -	339 -
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	330 -	366 -

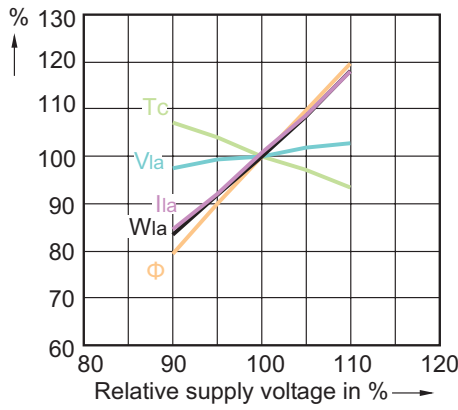
Electrical Characteristics

Order code	Full product name	Lamp Wattage	Lamp Wattage EM 25°C, Nominal	Lamp Wattage EM 25°C, Rated	Voltage	Lamp Voltage	Lamp Current EM	Dimmable
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	1800 W	1800.0 W	1800.0 W	230 V	120 V	17.3 A	no
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	1800 W	1800.0 W	1850.0 W	400 V	205 V	10.5 A	no
200792 00	MASTER MHN-SA 2000W/956 400V XW	2000 W	2000.0 W	2040.0 W	400 V	205 V	11.3 A	no
201065 00	MASTER MHN-SA 1800W/956 230V XW	1800 W	1800.0 W	1800.0 W	230 V	120 V	17.3 A	no
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	2000 W	2000.0 W	2095.0 W	400 V	205 V	11.8 A	no

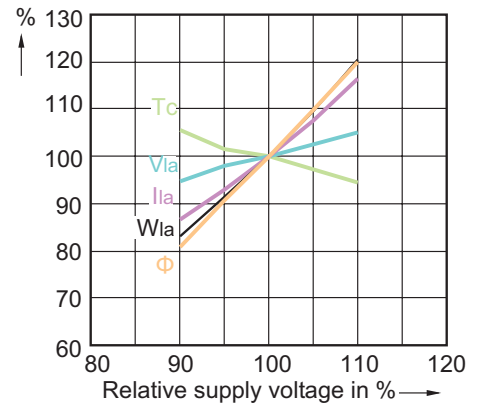
Performance diagrams



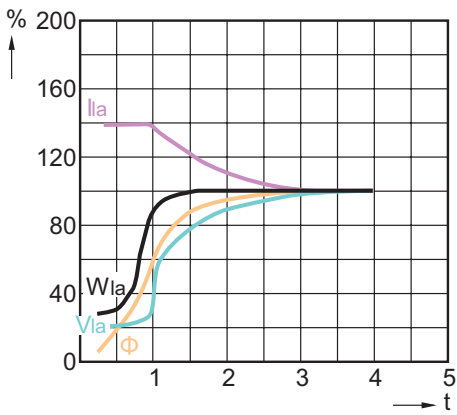
MHN-SA 1800W 230V



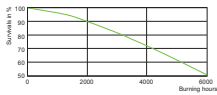
MHN-SA 1800W 400V



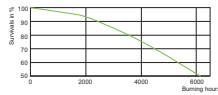
MHN-SA 2000W 400V XW



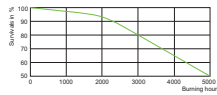
MHN-SA (P)SFC20-6, X830R XW



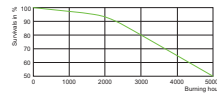
MHN-SA 1800 W Life Expectancy/956 230 V



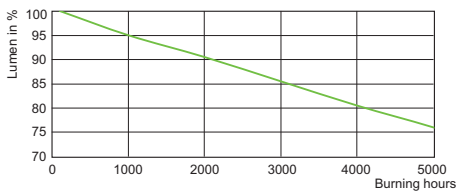
MHN-SA 1800 W Life Expectancy/956 400 V



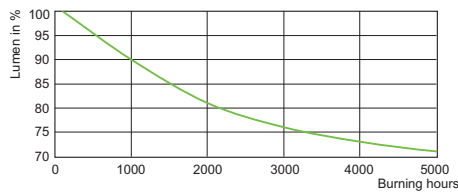
MHN-SA 2000 W Life Expectancy 400 V XW



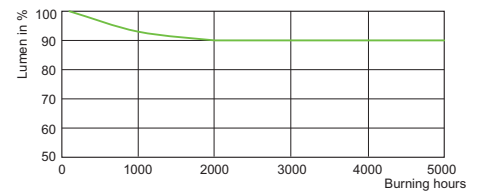
MHN-SA 2000 W Life Expectancy 400 V XW HO



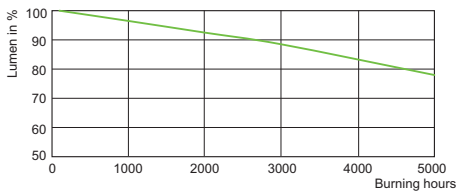
MHN-SA 1800 W Lumen Maintenance /956 230 V



MHN-SA 1800 W Lumen Maintenance /956 400 V



MHN-SA 2000 W Lumen Maintenance 400 V XW



MHN-SA 2000 W Lumen Maintenance 400 V XW HO

HO

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content	Energy consumption kWh/1000h
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	A+	92 mg	1980 kWh
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	A+	250 mg	2035 kWh
200792 00	MASTER MHN-SA 2000W/956 400V XW	A+	225 mg	2244 kWh
201065 00	MASTER MHN-SA 1800W/956 230V XW	A+	92 mg	1980 kWh
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	A+	215 mg	2304 kWh

Luminaire Design Requirements

Order code	Full product name	Bulb Temperature
200754 00	MASTER MHN-SA 1800W/956 (P)SFC 230V	980 (max) C
200761 00	MASTER MHN-SA 1800W/956 (P)SFC 400V	980 (max) C
200792 00	MASTER MHN-SA 2000W/956 400V XW	980 (max) C
201065 00	MASTER MHN-SA 1800W/956 230V XW	980 (max) C
241836 00	MASTER MHN-SA 2000W/956 400V XW HO	1015 (max) C



© 2015 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2015, May 8
data subject to change