



# MASTER MHN-SA

## MASTER MHN-SA 1800W/956 (P)SFC 400V

Compact quartz metal halide lamps with double-pin

### 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.

### Product data

| General Information                  |   |
|--------------------------------------|---|
| Cap base                             | (P)SFC [ (P)SFC]                          |
| Burning Position                     | P15 [ Parallel +/-15D or Horizontal(HOR)] |
| Life to 5% failures (nom.)           | 1700 h                                    |
| Life to 10% failures (nom.)          | 2400 h                                    |
| Life to 20% failures (nom.)          | 3600 h                                    |
| Life to 50% failures (nom.)          | 6100 h                                    |
| Light Technical                      |   |
| Colour Code                          | 956 [ CCT of 5,600 K]                     |
| Lamp Luminous Flux (Nom)             | 160000 lm                                 |
| Colour Designation                   | Daylight                                  |
| Lumen maintenance 1,000 hours (nom.) | 90 %                                      |
| Lumen maintenance 2,000 hours (nom.) | 81 %                                      |
| Lumen maintenance 5,000 hours (nom.) | 71 %                                      |
| Chromaticity coordinate X (nom.)     | 330                                       |
| Chromaticity coordinate Y (nom.)     | 339                                       |
| Colour Temperature, horizontal (Nom) | 5600 K                                    |
| Lamp Luminous Efficacy EM (Nom)      | 86 lm/W                                   |

| Colour Rendering Index,horiz (Nom) | 86           |
|------------------------------------|--------------|
| Operating and Electrical           |              |
| Lamp supply voltage                | 400 V [ 400] |
| Power (Rated) (Nom)                | 1850.0 W     |
| Lamp current run-up (max.)         | 15 A         |
| Lamp current (EM) (nom.)           | 10.5 A       |
| Ignition supply voltage (min.)     | 342 V        |
| Voltage (Max)                      | 220 V        |
| Voltage (Min)                      | 185 V        |
| Voltage (Nom)                      | 205 V        |
| Controls and Dimming               |              |
| Dimmable                           | No           |
| Mechanical and Housing             |              |
| Lamp Finish                        | Clear        |
| Cap-base information               | 20-6         |

# MASTER MHN-SA

## Approval and Application

|                                    |          |
|------------------------------------|----------|
| Energy efficiency label (EEL)      | A+       |
| Mercury (Hg) content (nom.)        | 250 mg   |
| Energy consumption kWh/1,000 hours | 2035 kWh |

## Luminaire Design Requirements

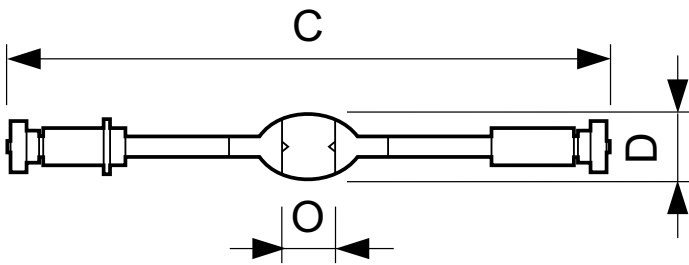
|                          |        |
|--------------------------|--------|
| Bulb temperature (max.)  | 980 °C |
| Pinch temperature (max.) | 300 °C |

## Product Data

|                   |                 |
|-------------------|-----------------|
| Full product code | 871150020076100 |
|-------------------|-----------------|

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Order product name                | MASTER MHN-SA 1800W/956 (P)SFC 400V |
| EAN/UPC – product                 | 8718291548270                       |
| Order code                        | 928079315130                        |
| Local order code                  | MHNSA1800W400V                      |
| SAP numerator – quantity per pack | 1                                   |
| Numerator – packs per outer box   | 1                                   |
| SAP material                      | 928079315130                        |
| SAP net weight (piece)            | 0.220 kg                            |
| ILCOS code                        | MN-1800-E-PSFc20=6-/H               |

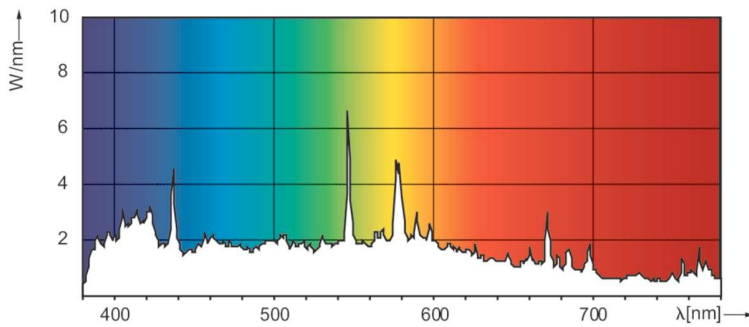
## Dimensional drawing



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

MHN-SA 1800W/956 (P)SFC/20-6 400V

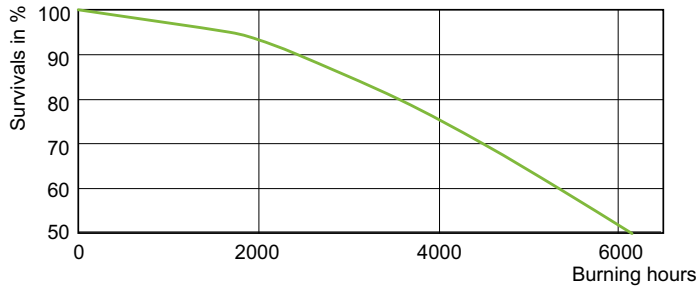
## Photometric data



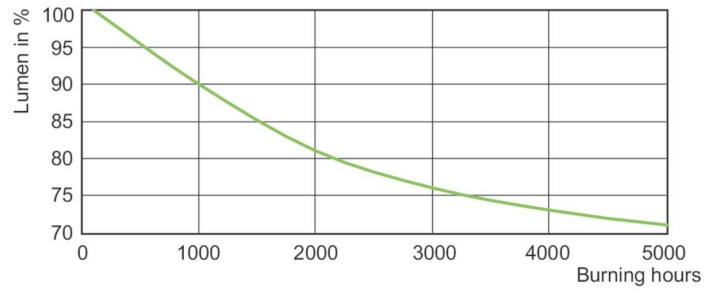
LDPO\_MHN-SA\_0002-Spectral power distribution Colour

# MASTER MHN-SA

## Lifetime



LDLE\_MHN-SA\_0003-Life expectancy diagram



LDLM\_MHN-SA\_0003-Lumen maintenance diagram

