



MASTER SON PIA Plus

MASTER SON PIA Plus 100W/220 E40 1SL/12

High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)
- 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 | E40 [E40] |
| Operating Position | UNIVERSAL [Any or Universal (U)] |
| Life to 5% Failures (Nom) | 17000 h |
| Life To 10% Failures (Nom) | 21000 h |
| Life to 20% Failures (Nom) | 26000 h |
| Life to 50% Failures (Nom) | 36000 h |
| System Description | External Ignitor |
| LSF 2000 h Rated | 100 % |
| LSF 4000 h Rated | 99 % |
| LSF 6000 h Rated | 99 % |
| LSF 8000 h Rated | 99 % |
| LSF 12000 h Rated | 98 % |
| LSF 16000 h Rated | 96 % |
| LSF 20000 h Rated | 91 % |

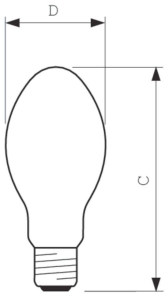
| Light Technical | |
|------------------------------------|---------------------|
| Color Code | 220 [CCT of 2000K] |
| Luminous Flux (Rated) (Nom) | 9600 lm |
| Chromaticity Coordinate X (Nom) | 535 |
| Chromaticity Coordinate Y (Nom) | 420 |
| Correlated Color Temperature (Nom) | 2000 K |
| Luminous Efficacy (rated) (Nom) | 96 lm/W |
| Color Rendering Index (Max) | 25 |
| LLMF 2000 h Rated | 98 % |
| LLMF 4000 h Rated | 96 % |
| LLMF 6000 h Rated | 95 % |
| LLMF 8000 h Rated | 94 % |
| LLMF 12000 h Rated | 92 % |
| LLMF 16000 h Rated | 90 % |
| LLMF 20000 h Rated | 89 % |
| Ratio Scotopic/Photopic Lumens | 0.55 |

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| Operating and Electrical | |
|-------------------------------|--------------|
| Power (Nom) | 100.0 W |
| Lamp Current (EM) (Nom) | 0.119 A |
| Ignition Supply Voltage (Max) | 198 V |
| Ignition Peak Voltage (Max) | 2800 V |
| Re-Ignition Time (Min) (Max) | 120 s |
| Ignition Time (Max) | 5 s |
| Voltage (Max) | 115 V |
| Voltage (Min) | 85 V |
| Voltage (Nom) | 100 V |
| Controls and Dimming | |
| Dimmable | Yes |
| Run-Up Time 90% (Max) | 4 min |
| Mechanical and Housing | |
| Bulb Finish | Coated glass |
| Approval and Application | |
| Energy Efficiency Label (EEL) | A+ |

| Mercury (Hg) Content (Nom) | 16.3 mg |
|---------------------------------|---|
| Energy Consumption kWh/1000 h | 110 kWh |
| Luminaire Design Requirements | |
| Bulb Temperature (Max) | 350 °C |
| Cap-Base Temperature (Max) | 200 °C |
| Product Data | |
| Full product code | 871150018225815 |
| Order product name | MASTER SON PIA Plus 100W/220 E40 1SL/12 |
| EAN/UPC - Product | 8711500182258 |
| Order code | 928151608827 |
| Numerator - Quantity Per Pack | 1 |
| Numerator - Packs per outer box | 12 |
| Material Nr. (12NC) | 928151608827 |
| Net Weight (Piece) | 0.125 kg |
| ILCOS Code | SE-100-H/S-E40 |

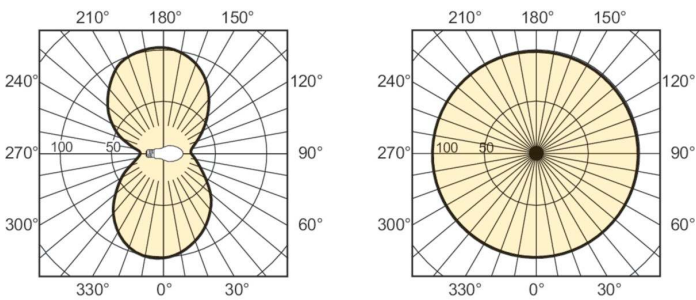
Dimensional drawing



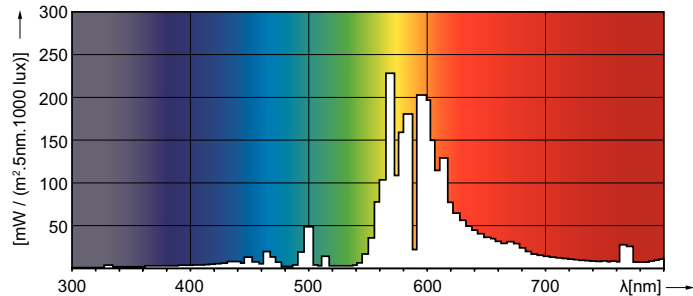
SON PIA Plus 100W/220 E40

| Product | D (max) | C (max) |
|---|---------|---------|
| MASTER SON PIA Plus 100W/220 E40 1SL/12 | 76 mm | 186 mm |

Photometric data



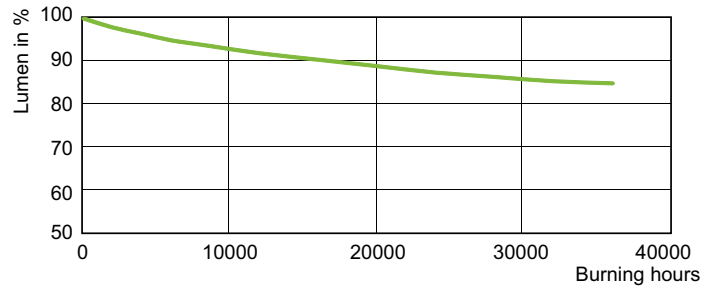
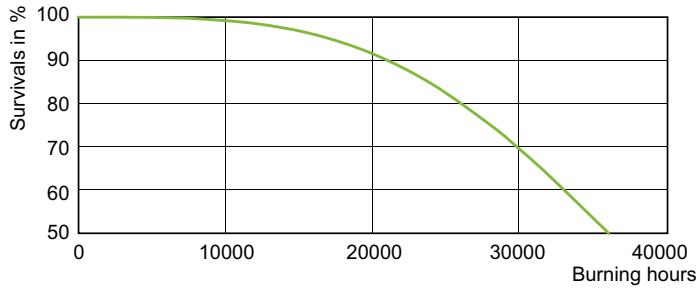
LDLD_SON-PIA_0001-Light distribution diagram



LDPO_SON-PIA_0001-Spectral power distribution Colour

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Lifetime



LDLE_SON-PIA_0002-Life expectancy diagram

LDLM_SON-PIA_0005-Lumen maintenance diagram

