

# MASTER SON-T PIA Plus

## MASTER SON-T PIA Plus 400W E E40 1SL/12

High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

## Product data

### • General Information

| | |
|---|---|
| Cap-Base | E40 [ E40] |
| Operating Position | UNIVERSAL [ Any or Universal (U)] |
| Life To 5% Failures (Nom) | 20500 h |
| Life To 10% Failures (Nom) | 24000 h |
| Life To 20% Failures (Nom) | 28000 h |
| Life To 50% Failures (Nom) | 36000 h |
| ANSI Code HID | - |
| 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 | 99 % |
| LSF 16000 h Rated | 98 % |
| LSF 20000 h Rated | 95 % |

### • Light Technical

| | |
|---|---|
| Color Code | 220 [ CCT of 2000K] |
| Luminous Flux (Rated) (Nom) | 55800 lm |
| Lumen Maintenance 2000 h (Min) | 95 % |
| Lumen Maintenance 2000 h (Nom) | 99 % |
| Lumen Maintenance 20000 h | 88 % |
| Lumen Maintenance 5000 h (Min) | 90.5 % |
| Lumen Maintenance 5000 h (Nom) | 96.5 % |
| Chromaticity Coordinate X (Nom) | 525 |
| Chromaticity Coordinate Y (Nom) | 425 |
| Correlated Color Temperature (Nom) | 2000 K |
| Luminous Efficacy (rated) (Nom) | 137 lm/W |
| Color Rendering Index (Max) | 25 |
| LLMF 2000 h Rated | 99 % |
| LLMF 4000 h Rated | 97 % |
| LLMF 6000 h Rated | 96 % |
| LLMF 8000 h Rated | 94 % |
| LLMF 12000 h Rated | 92 % |
| LLMF 16000 h Rated | 90 % |
| LLMF 20000 h Rated | 88 % |

### • Operating and Electrical

| | |
|---|---|
| Power (Rated) (Nom) | 400.0 W |
| Lamp Current (EM) (Nom) | 4.5 A |
| Ignition Supply Voltage (Max) | 198 V |
| Ignition Peak Voltage (Max) | 2800 V |
| Re-Ignition Time (Min) (Max) | 120 s |
| Ignition Time (Max) | 10 s |
| Voltage (Max) | 115 V |
| Voltage (Min) | 85 V |
| Voltage (Nom) | 100 V |

PHILIPS

# MASTER SON-T PIA Plus

- Controls and Dimming

| | |
|---|---|
| Dimmable | Yes |
| Run-Up Time 90% (Max) | 5 min |

- Mechanical and Housing

| | |
|---|---|
| Bulb Finish | Clear |
| Cap-Base Information | - |

- Approval and Application

| | |
|---|---|
| Energy Efficiency Label (EEL) | A++ |
| Mercury (Hg) Content (Nom) | 20 mg |
| Energy Consumption kWh/1000 h | 440 kWh |

- Luminaire Design Requirements

| | |
|---|---|
| Bulb Temperature (Max) | 450 °C |
| Cap-Base Temperature (Max) | 250 °C |

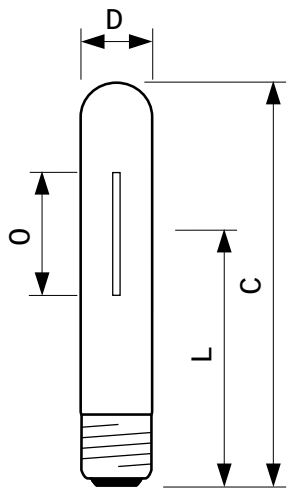
- Product Data

| | |
|---|---|
| Full product code | 871150017988315 |
| Order product name | MASTER SON-T PIA Plus 400W E E40 1SL/12 |
| EAN/UPC - Product | 8711500179883 |
| Order code | 928144809227 |
| Numerator - Quantity Per Pack | 1 |
| Numerator - Packs per outer box | 12 |
| Material Nr. (12NC) | 928144809227 |
| Net Weight (Piece) | 0.180 kg |
| ILCOS Code | ST-400-H/E-E40 |

## 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.

## Dimensional drawing



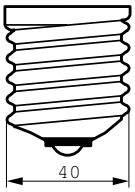

SON-T PIA Plus, E39/E40

SON-T Plus 400W/220 E40

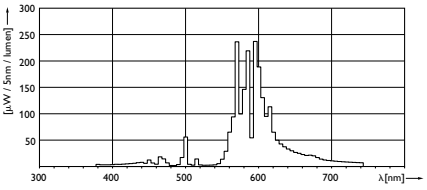
| Product | D | O | L | C |
|---|---|---|---|---|
| MASTER SON-T PIA Plus 400W E E40 1SL/12 | 48 mm | 83 mm | 175 mm | 283 mm |

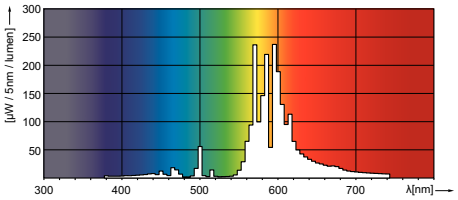
# MASTER SON-T PIA Plus

## Dimensional drawing




## Photometric data




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data subject to change