



MASTER SON-T PIA Plus

MASTER SON-T PIA Plus 100W/220 E40 1SL

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

Product data

• General Characteristics

| | |
|--------------------------------|---------------------|
| System Description | External Ignitor |
| Cap-Base | GES [GES] |
| Cap-Base Information | - |
| Bulb | T46 [T 46mm] |
| Bulb Finish | Clear |
| Burning Position | any [Any/Universal] |
| Life to 5% failures | 17000 hr |
| Life to 10% failures | 21000 hr |
| Life to 20% failures | 26000 hr |
| Life to 50% failures | 36000 hr |
| LSF EM 2000h Rated, 12h cycle | 100 % |
| LSF EM 4000h Rated, 12h cycle | 99 % |
| LSF EM 6000h Rated, 12h cycle | 99 % |
| LSF EM 8000h Rated, 12h cycle | 99 % |
| LSF EM 12000h Rated, 12h cycle | 98 % |
| LSF EM 16000h Rated, 12h cycle | 96 % |
| LSF EM 20000h Rated, 12h cycle | 91 % |

• Light Technical Characteristics

| | |
|------------------------------|--------------------|
| Colour Code | 220 [CCT of 2000K] |
| Colour Rendering Index | 25 (max) Ra8 |
| Colour Temperature | 2000 K |
| Colour Temperature Technical | 2000 K |
| Luminous Flux EM 25°C, Rated | 10700 Lm |

| | |
|----------------------------|------------|
| Lum Efficacy Rated EM 25°C | 107 Lm/W |
| Average Luminance EM | 400 cd/cm2 |
| LLMF EM 2000h Rated | 98 % |
| LLMF EM 4000h Rated | 96 % |
| LLMF EM 6000h Rated | 95 % |
| LLMF EM 8000h Rated | 94 % |
| LLMF EM 12000h Rated | 92 % |
| LLMF EM 16000h Rated | 90 % |
| LLMF EM 20000h Rated | 89 % |
| Chromaticity Coordinate X | 535 - |
| Chromaticity Coordinate Y | 420 - |

• Electrical Characteristics

| | |
|-------------------------------|-------------|
| Lamp Wattage | 100 W |
| Lamp Wattage EM 25°C, Nominal | 100 W |
| Lamp Wattage EM 25°C, Rated | 100 W |
| Voltage | 230 V |
| Lamp Voltage | 100 V |
| Lamp Current EM | 1.2 A |
| Ignition Time | 5 (max) s |
| Run-up time 90% | 4 (max) min |
| Dimmable | yes |

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sense and simplicity

MASTER SON-T PIA Plus

| | |
|------------------------------------|-------------|
| Re-ignition Time [sec] | 120 (max) s |
| Ratio scotopic/ photopic lumens | 0.55 - |

• Environmental Characteristics

| | |
|-------------------------|-------|
| Mercury (Hg) Content | 16 mg |
|-------------------------|-------|

• Luminaire Design Requirements

| | |
|----------------------|-------------|
| Cap-Base Temperature | 250 (max) C |
| Bulb Temperature | 450 (max) C |

• Product Dimensions

| | |
|--------------------------|--------------|
| Overall Length C | 210 (max) mm |
| Diameter D | 48 (max) mm |
| Light Center Length L | 132 mm |

| | |
|--------------|-------|
| Arc Length O | 47 mm |
|--------------|-------|

• Product Data

| | |
|--------------------------------|---|
| Order code | 192301 15 |
| Full product code | 871150019230115 |
| Full product name | MASTER SON-T PIA Plus 100W/220 E40 1SL |
| Order product name | MST SON-T PIA Plus 100W/220 E40 1SL/12 |
| Pieces per pack | 1 |
| Packing configuration | 12 |
| Packs per outerbox | 12 |
| Bar code on pack - EAN1 | 8711500192301 |
| Bar code on outerbox - EAN3 | 8711500192745 |
| Logistic code(s) - 12NC | 928151709230 |
| ILCOS code | ST-100-H/S-E40 |
| Net weight per piece | 0.128 kg |

Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)

Dimensional drawing

MASTER SON-T PIA Plus 100W/220 E40 1SL

| Product | C (Max) | D (Max) | L (Norm) | O (Norm) |
|-------------------------|---------|---------|----------|----------|
| SON-T Plus 100W/220 E40 | 210 | 48 | 132 | 47 |

E40

Photometric data

MASTER SON-T PIA Plus 100W, 150W & 250W

MASTER SON-T PIA Plus 100W, 150W, 250W



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data subject to change