



MASTER SON-T PIA Plus



MASTER SON-T PIA Plus 50W/220 E27 1SL/12

High Pressure Sodium lamp with clear tubular 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	E27 [E27]
Operating Position	UNIVERSAL [Any or Universal (U)]
Life to 5% Failures (Nom)	14000 h
Life To 10% Failures (Nom)	17000 h
Life to 20% Failures (Nom)	22000 h
Life to 50% Failures (Nom)	30000 h
ANSI Code HID	-
System Description	External Ignitor (E)
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
LSF 12000 h Rated	96 %
LSF 16000 h Rated	92 %
LSF 20000 h Rated	83 %

Flux measurement reference	Sphere
Light technical	
Colour Code	220 [CCT of 2000K]
Luminous Flux (Nom)	4500 lm
Luminous Flux (Rated) (Nom)	4500 lm
Chromaticity Coordinate X (Nom)	0.54
Chromaticity Coordinate Y (Nom)	0.42
Colour Temperature, horizontal (Nom)	1900 K
Luminous Efficacy (rated) (Nom)	83 lm/W
Colour Rendering Index horiz (Max)	25
Colour Rendering Index horiz (Nom)	-
Depreciation 2000 hrs	92 %
LLMF 4000 h Rated	90 %
Depreciation 5000 hrs	89 %
LLMF 8000 h Rated	88 %
LLMF 12000 h Rated	87 %

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LLMF 16000 h Rated	86 %
LLMF 20000 h Rated	86 %
Ratio Scotopic/Photopic Lumens	0.50

Operating and electrical

Lamp supply voltage	230 V [230]
Power (Rated) (Nom)	54.5 W
Lamp Current (EM) (Nom)	0.74 A
Ignition Supply Voltage (Max)	198 V
Ignition Peak Voltage (Max)	1800 V
Re-Ignition Time (Min) (Max)	30 s
Ignition Time (Max)	5 s
Voltage (Max)	100 V
Voltage (Min)	70 V
Voltage (Nom)	91 V

Controls and dimming

Dimmable	Yes
Run-up Time 90% (Max)	4 min

Mechanical and housing

Bulb Finish	Clear
Cap-Base Information	na [-]
Bulb Shape	T35 [T 35mm]

Approval and application

Energy Efficiency Class	G
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Mercury (Hg) Content (Max)	9.8 mg
Mercury (Hg) Content (Nom)	9.8 mg
Energy Consumption kWh/1000 h	55 kWh
EPREL Registration Number	473390

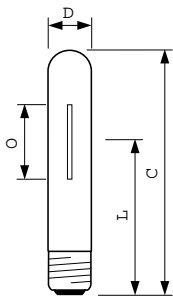
Luminaire design requirements

Bulb Temperature (Max)	350 °C
Cap-Base Temperature (Max)	200 °C
Cap-Base Temperature (Max)-DUP(do not use)	392 °F

Product data

Full product code	871150019265315
Order product name	MASTER SON-T PIA Plus 50W/220 E27 1SL/12
EAN/UPC - Product	8711500192653
Order code	19265315
Numerator - Quantity Per Pack	1
Local code description	3851247
Numerator - Packs per outer box	12
Material Nr. (12NC)	928151900028
Net Weight (Piece)	0.047 kg
ILCOS Code	ST-50-H/S-E27

Dimensional drawing

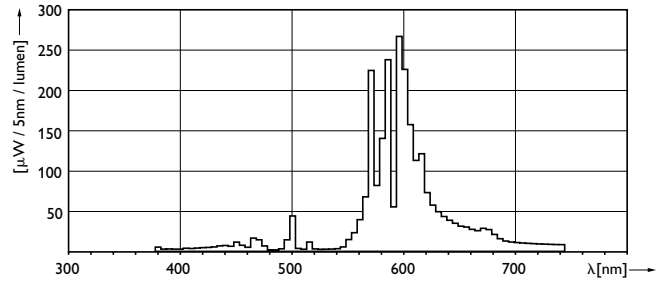


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Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 50W/220 E27 1SL/12	36 mm	35 mm	104 mm	156 mm

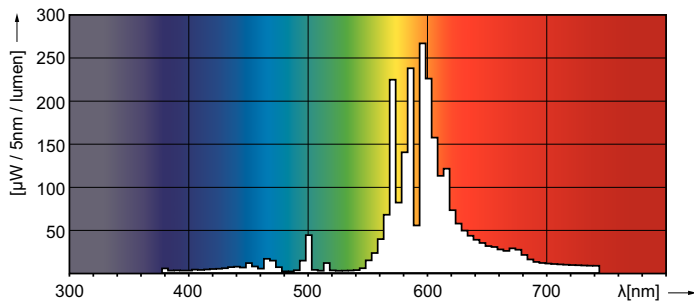
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Photometric data



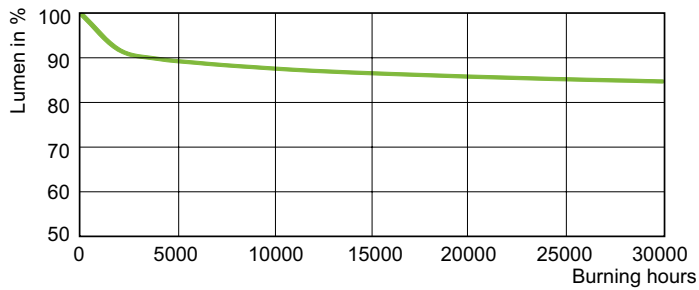
LDLD_SON-TPIA-Light distribution diagram

LDPB_SON-TPIA_0015-Spectral power distribution B/W

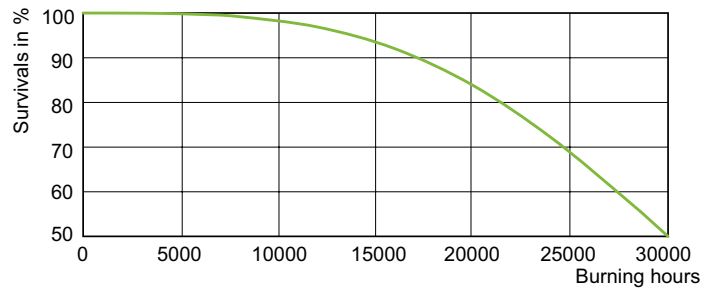


LDPO_SON-TPIA_0015-Spectral power distribution Colour

Lifetime



LDLM_SON-TPIA_0007-Lumen maintenance diagram



LDLE_SON-TPIA_0007-Life expectancy diagram

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