



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
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 %

Light Technical	
Color Code	220 [CCT of 2000K]
Luminous Flux (Rated) (Nom)	4400 lm
Chromaticity Coordinate X (Nom)	540
Chromaticity Coordinate Y (Nom)	420
Correlated Color Temperature (Nom)	2000 K
Luminous Efficacy (rated) (Nom)	83.02 lm/W
Color Rendering Index (Max)	25
LLMF 2000 h Rated	92 %
LLMF 4000 h Rated	90 %
LLMF 6000 h Rated	89 %
LLMF 8000 h Rated	88 %
LLMF 12000 h Rated	87 %
LLMF 16000 h Rated	86 %
LLMF 20000 h Rated	86 %
Ratio Scotopic/Photopic Lumens	0.50

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Operating and Electrical

Lamp supply voltage	230 V [230]
Power (Nom)	53 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)	89 V

Controls and Dimming

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

Mechanical and Housing

Bulb Finish	Clear
Cap-Base Information	-

Approval and Application

Energy Efficiency Label (EEL)	A
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Mercury (Hg) Content (Nom)	9.8 mg
Energy Consumption kWh/1000 h	58 kWh

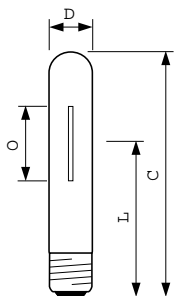
Luminaire Design Requirements

Bulb Temperature (Max)	350 °C
Cap-Base Temperature (Max)	200 °C

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	928151900028
Numerator - Quantity Per Pack	1
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

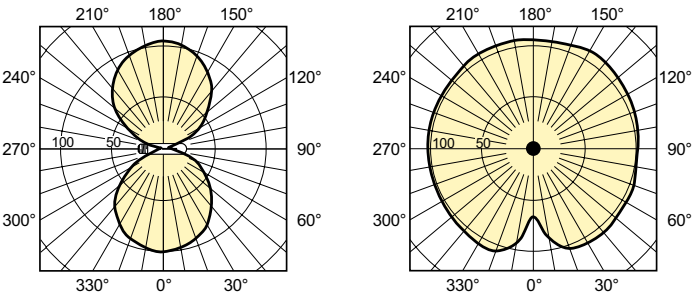


SON-T PIA PLUS 50W E E27

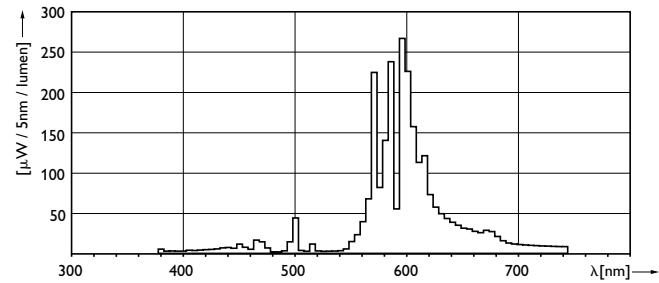
Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 50W/220 E27 1SL/12	36 mm	35 mm	104 mm	156 mm

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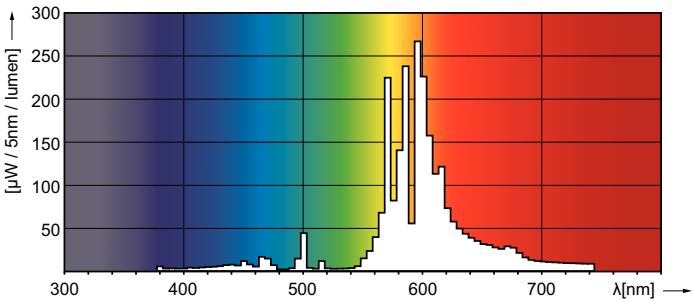
Photometric data



LDLD_SON-TPIA-Light distribution diagram

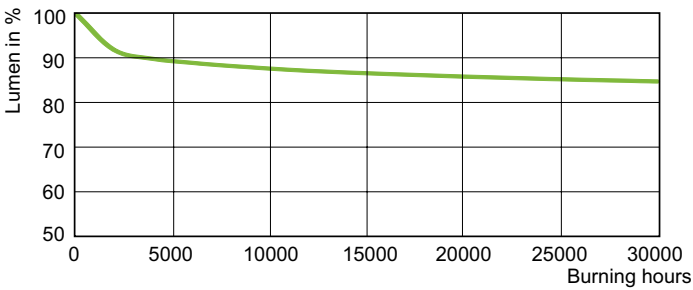


LDPB_SON-TPIA_0015-Spectral power distribution B/W

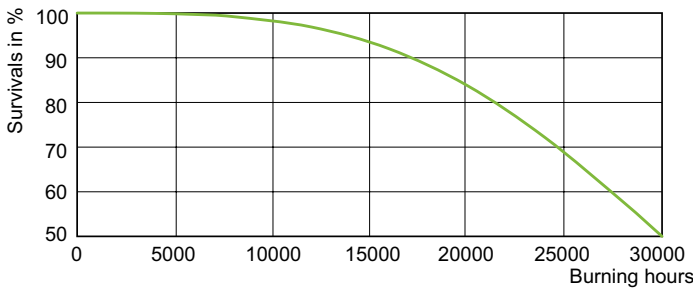


LDPO_SON-TPIA_0015-Spectral power distribution Colour

Lifetime



LDLM_SON-TPIA_0007-Lumen maintenance diagram



LDLE_SON-TPIA_0007-Life expectancy diagram

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