



MASTER SON PIA Plus

MASTER SON PIA Plus 70W E27

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	E27 [E27]
Operating position	UNIVERSAL [Any/Universal]
Life to 5% failures (nom.)	17000 h
Life to 10% failures (nom.)	20000 h
Life to 20% failures (nom.)	23500 h
Life to 50% failures (nom.)	30000 h
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	99 %
LSF 16000 h Rated	96 %
LSF 20000 h Rated	90 %
	Sphere

Light Technical	
Colour Code	220 [CCT of 2,000 K]
Luminous flux (nom.)	6000 lm
Luminous flux (rated) (nom.)	6000 lm
Chromaticity coordinate X (nom.)	0.54
Chromaticity coordinate Y (nom.)	0.42
Correlated Colour Temperature (Nom)	1900 K
Luminous efficacy (rated) (nom.)	83.33 lm/W
Color rendering index (max.)	25
Colour rendering index (nom.)	-
LLMF 2000 h Rated	90 %
LLMF 4000 h Rated	87 %
LLMF 6000 h Rated	86 %
LLMF 8000 h Rated	85 %
LLMF 12000 h Rated	83 %
LLMF 16000 h Rated	82 %
LLMF 20000 h Rated	81 %

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Ratio scotopic/photopic lumens	0.50
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Operating and Electrical

Power (Rated) (Nom)	72.0 W
Lamp current (EM) (nom.)	0.97 A
Ignition supply voltage (max.)	198 V
Ignition peak voltage (max.)	1800 V
Re-ignition time (min.) (max.)	180 s
Ignition time (max.)	5 s
Voltage (Max)	105 V
Voltage (Min)	75 V
Voltage (Nom)	90 V

Controls and Dimming

Dimmable	Yes
Run-up time 90% (max.)	5 min

Mechanical and Housing

Lamp Finish	Coated glass
Bulb shape	B70 [B 70mm]

Approval and Application

Energy Efficiency Class	G
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Mercury (Hg) content (max.)	12.2 mg
Mercury (Hg) content (nom.)	12.2 mg
Energy consumption kWh/1,000 hours	72 kWh
	473312

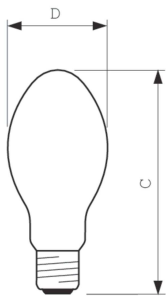
Luminaire Design Requirements

Bulb temperature (max.)	350 °C
Cap-base temperature (max.)	200 °C

Product Data

Full product code	871829118040100
Order product name	MASTER SON PIA Plus 70W E27
EAN/UPC – product	8718291180401
Order code	18040100
SAP numerator – quantity per pack	1
Numerator – packs per outer box	24
SAP material	928061009835
SAP net weight (piece)	0.055 kg

Dimensional drawing

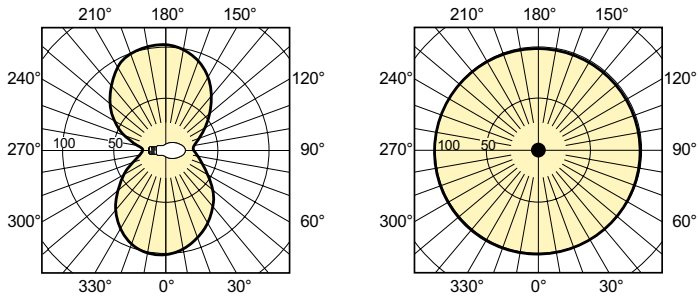


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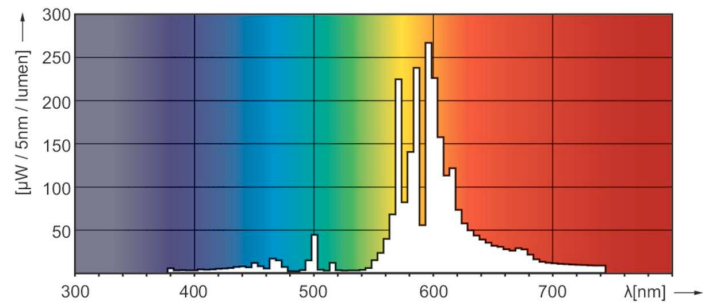
Product	D (max)	C (max)
MASTER SON PIA Plus 70W E27	71 mm	156 mm

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Photometric data

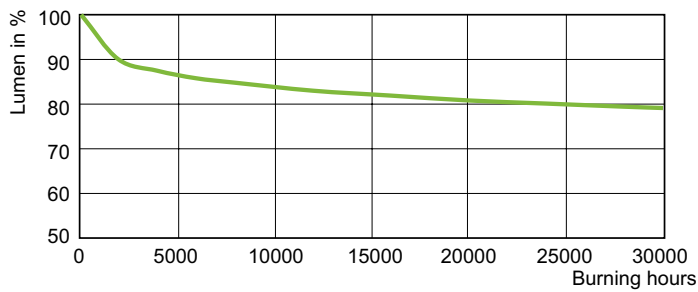


LDLD_SON-PIA_0002-Light distribution diagram

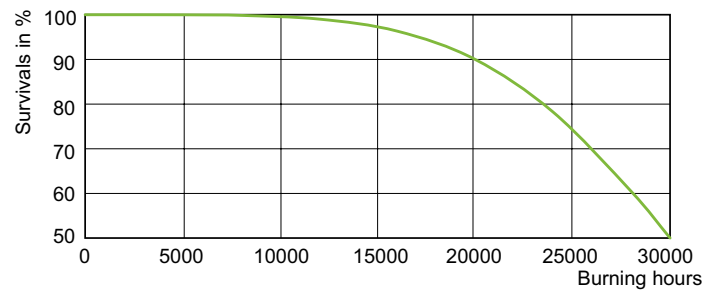


LDPO_SON-PIA_0004-Spectral power distribution Colour

Lifetime



LDLM_SON-PIA_0007-Lumen maintenance diagram



LDLE_SON-PIA_0006-Life expectancy diagram

