



MASTER SON PIA Plus

MASTER SON PIA Plus 50W E27

High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

Product data

General Information	
Cap base	E27 [E27]
Operating position	UNIVERSAL [Any/Universal]
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
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 %
Light Technical	
Colour code	220 [CCT of 2,000 K]
Luminous flux (rated) (nom.)	3900 lm
Chromaticity coordinate X (nom.)	540
Chromaticity coordinate Y (nom.)	410
Correlated Colour Temperature (Nom)	1900 K

Luminous efficacy (rated) (nom.)	74 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

Operating and Electrical

Power (Rated) (Nom)	51 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.)	180 s
Ignition time (max.)	5 s
Voltage (Max)	100 V
Voltage (Min)	70 V
Voltage (Nom)	89 V

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Controls and Dimming

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

Mechanical and Housing

Bulb finish	Coated glass
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Approval and Application

Energy efficiency label (EEL)	A
Mercury (Hg) content (nom.)	9.8 mg
Energy Consumption kWh/1000 h	56 kWh

Luminaire Design Requirements

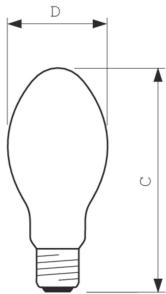
Bulb temperature (max.)	350 °C
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Cap base temperature (max.)	200 °C
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Product Data

Full product code	871829118038800
Order product name	MASTER SON PIA Plus 50W E27
EAN/UPC – product	8718291180388
Order code	18038800
Local Code	50SONPLUS
Numerator – quantity per pack	1
Numerator – packs per outer box	24
Material no. (12NC)	928061109835
Net weight (piece)	0.051 kg

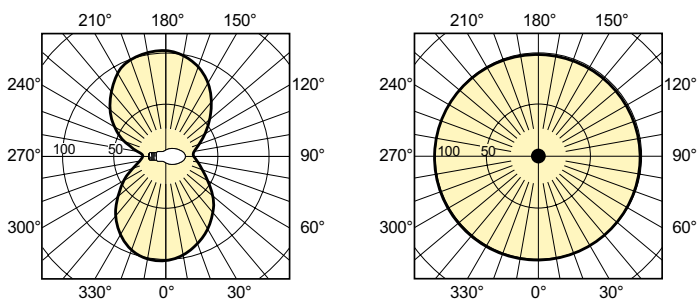
Dimensional drawing



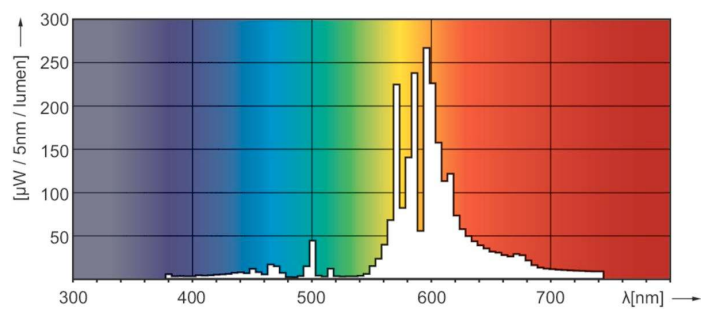
SON PIA Plus 50W E27

Product	D (max)	C (max)
MASTER SON PIA Plus 50W E27	71 mm	156 mm

Photometric data



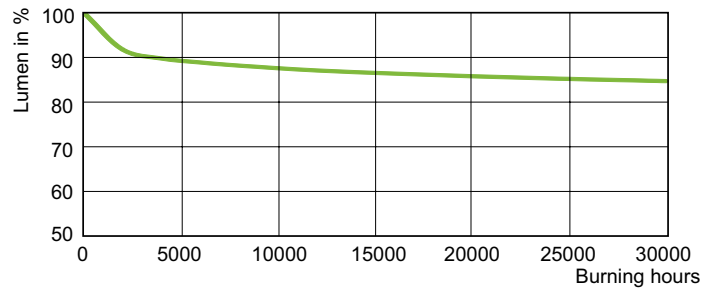
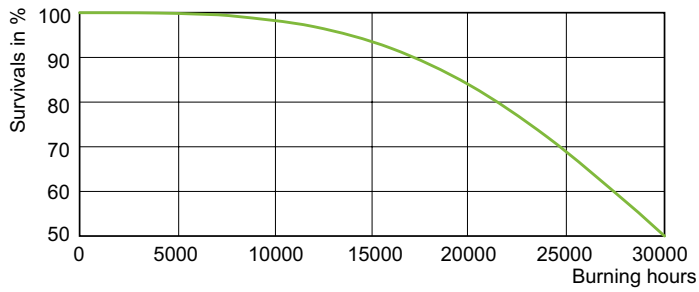
LDLD_SON-PIA_0002-Light distribution diagram



LDPO_SON-PIA_0004-Spectral power distribution Colour

MASTER SON PIA Plus

Lifetime



LDLE_SON-PIA_0005-Life expectancy diagram

LDLM_SON-PIA_0006-Lumen maintenance diagram

