



MASTER SON PIA Plus

MASTER SON PIA Plus 100W/220 E40 1SL/12

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

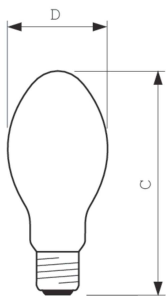
General Information	
Cap base	E40 [E40]
Operating position	UNIVERSAL [Any/Universal]
Life to 5% failures (nom.)	17000 h
Life to 10% failures (nom.)	21000 h
Life to 20% failures (nom.)	25000 h
Life to 50% failures (nom.)	29000 h
System description	External Ignitor (E)
LSF 2000 h Rated	100 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
LSF 12000 h Rated	99 %
LSF 16000 h Rated	97 %
LSF 20000 h Rated	91 %

Light Technical	
Colour Code	220 [CCT of 2,000 K]
Luminous flux (rated) (nom.)	9600 lm
Chromaticity coordinate X (nom.)	0.535
Chromaticity coordinate Y (nom.)	0.420
Correlated Colour Temperature (Nom)	2000 K
Luminous efficacy (rated) (nom.)	95 lm/W
Color rendering index (max.)	25
LLMF 2000 h Rated	98 %
LLMF 4000 h Rated	96 %
LLMF 6000 h Rated	95 %
LLMF 8000 h Rated	94 %
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	90 %
LLMF 20000 h Rated	89 %
Ratio scotopic/photopic lumens	0.55

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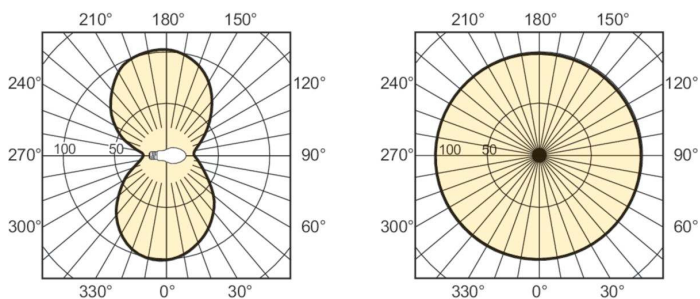
Operating and Electrical	
Power (Rated) (Nom)	101.0 W
Lamp current (EM) (nom.)	0.119 A
Ignition supply voltage (max.)	198 V
Ignition peak voltage (max.)	2800 V
Re-ignition time (min.) (max.)	120 s
Ignition time (max.)	5 s
Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	100 V
Controls and Dimming	
Dimmable	Yes
Run-up time 90% (max.)	4 min
Mechanical and Housing	
Lamp Finish	Coated glass
Bulb shape	B75 [B 75mm]
Approval and Application	
Energy efficiency label (EEL)	A+

Dimensional drawing



SON PIA Plus 100W/220 E40

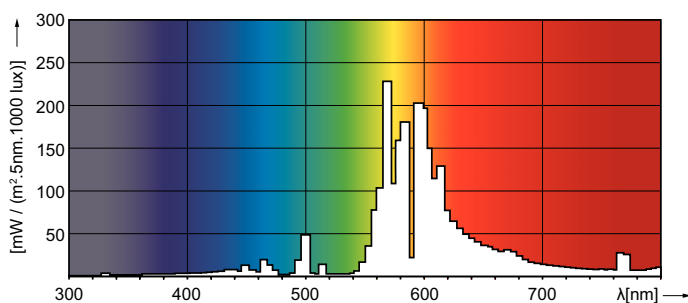
Photometric data



LDLD_SON-PIA_0001-Light distribution diagram

Mercury (Hg) content (nom.)	16.3 mg
Energy consumption kWh/1,000 hours	110 kWh
Luminaire Design Requirements	
Bulb temperature (max.)	350 °C
Cap-base temperature (max.)	200 °C
Product Data	
Full product code	871150018225815
Order product name	MASTER SON PIA Plus 100W/220 E40 1SL/12
EAN/UPC – product	8711500182258
Order code	18225815
Local order code	100SONPLUS
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928151608827
SAP net weight (piece)	0.125 kg
ILCOS code	SE-100-H/S-E40

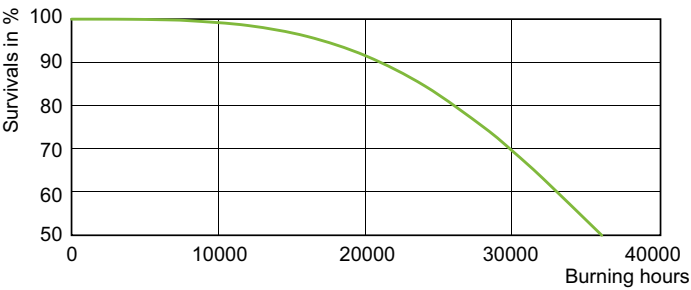
Product	D (max)	C (max)
MASTER SON PIA Plus 100W/220 E40 1SL/12	76 mm	186 mm



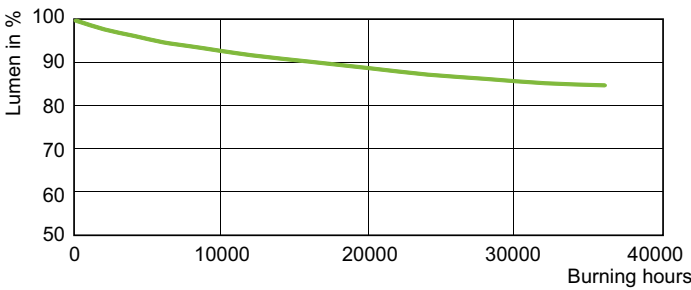
LDPO_SON-PIA_0001-Spectral power distribution Colour

MASTER SON PIA Plus

Lifetime



LDLE_SON-PIA_0002-Life expectancy diagram



LDLM_SON-PIA_0005-Lumen maintenance diagram

