



MASTER SON-T PIA Plus

MASTER SON-T PIA Plus 600W/220 E40 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		Operating and Electrical	
Cap base	E40 [E40]	Lumen maintenance 5,000 hours (nom.)	90 %
Burning Position	UNIVERSAL [Any/Universal]	Chromaticity coordinate X (nom.)	0.530
Life to 5% failures (nom.)	12000 h	Chromaticity coordinate Y (nom.)	0.428
Life to 10% failures (nom.)	15000 h	Colour Temperature, horizontal (Nom)	2000 K
Life to 20% failures (nom.)	20000 h	Lamp Luminous Efficacy EM (Nom)	149 lm/W
Life to 50% failures (nom.)	30000 h	Colour Rendering Index,horiz (Max)	25
ANSI code HID	-	Ratio scotopic/photopic lumens	0.60
System description	External Ignitor (E)		
Light Technical			
Colour Code	220 [CCT of 2,000 K]	Lamp supply voltage	230 V [230]
Lamp Luminous Flux (Nom)	90000 lm	Power (Rated) (Nom)	603 W
Lumen maintenance 2,000 hours (min.)	85 %	Lamp current (EM) (nom.)	5.8 A
Lumen maintenance 2,000 hours (nom.)	96 %	Ignition supply voltage (max.)	198 V
Lumen maintenance 20,000 hours	77 %	Ignition peak voltage (max.)	3500 V
Lumen maintenance 5,000 hours (min.)	80 %	Re-ignition time (min.) (max.)	60 s
		Ignition time (max.)	10 s
		Voltage (Max)	125 V

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Voltage (Min)	95 V
Voltage (Nom)	110 V

Controls and Dimming

Dimmable	No
Run-up time 90% (max.)	5 min

Mechanical and Housing

Lamp Finish	Clear
Cap-base information	na [-]
Bulb shape	T46 [T 46mm]

Approval and Application

Mercury (Hg) content (nom.)	18.9 mg
Energy consumption kWh/1,000 hours	663 kWh

Luminaire Design Requirements

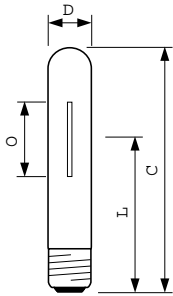
Bulb temperature (max.)	450 °C
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Cap-base temperature (max.)	250 °C
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Product Data

Full product code	871150019742915
Order product name	MASTER SON-T PIA Plus 600W/220 E40 1SL/12
EAN/UPC – product	8711500197429
Order code	928158409227
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928158409227
SAP net weight (piece)	0.177 kg
ILCOS code	ST-600-H/S-E40

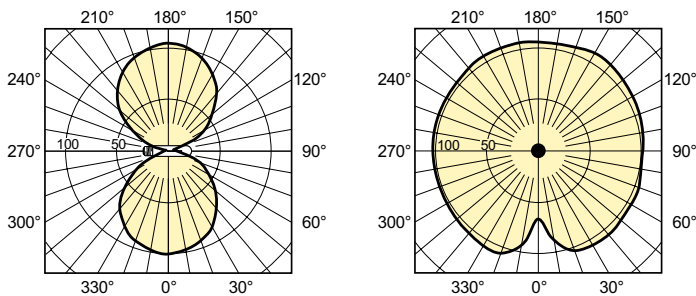
Dimensional drawing



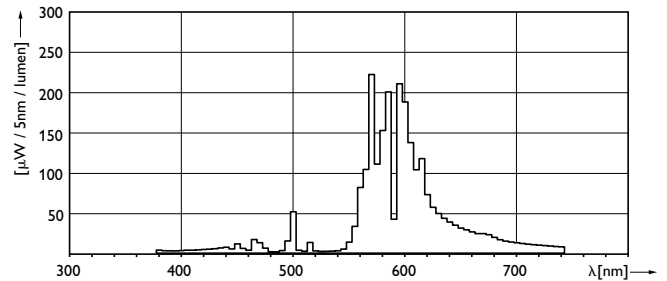
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Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 600W/220 E40 1SL/12	47 mm	126 mm	174.2 mm	279 mm

Photometric data



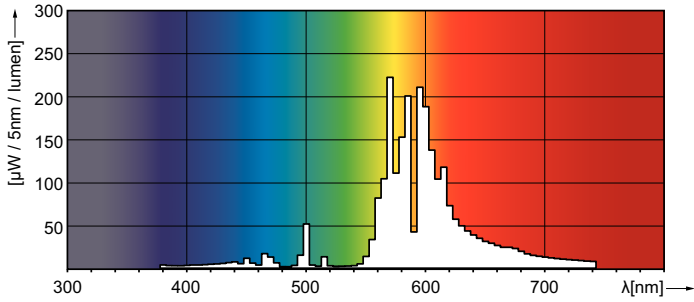
LDLD_SON-TPIA-Light distribution diagram



MASTER SON-T PIA Plus 600W

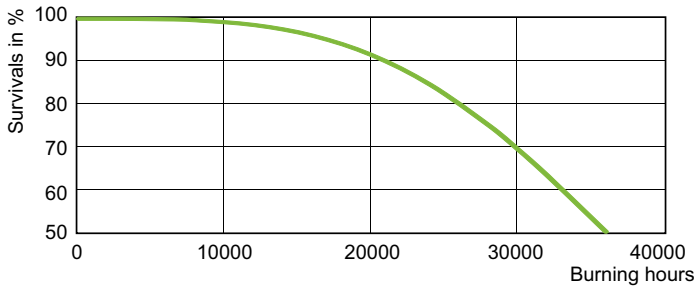
MASTER SON-T PIA Plus

Photometric data

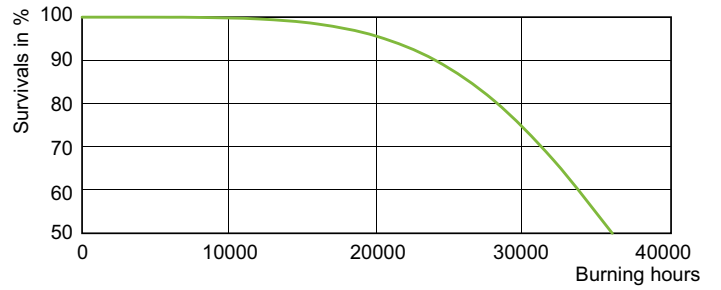


LDPO_SON-TPIA_0014-Spectral power distribution Colour

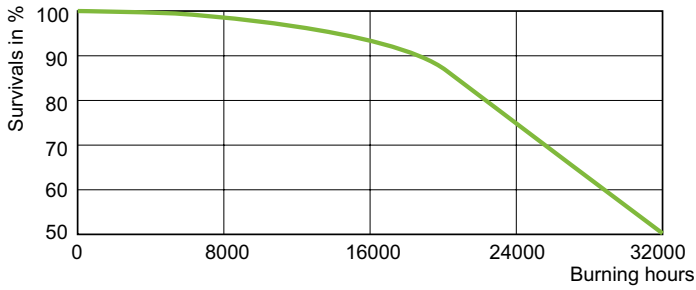
Lifetime



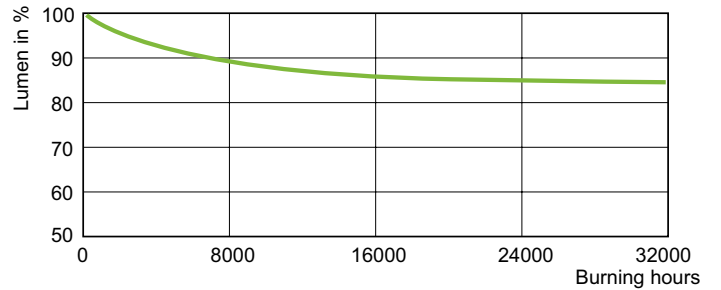
LDLE_SON-TPIA_0004-Life expectancy diagram



LDLE_SON-TPIA_0003-Life expectancy diagram



LDLE_SON-TPIA_600W-Life expectancy diagram



LDLM_SON-TPIA_600W-Lumen maintenance diagram

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