



MASTER SON-T PIA Plus

MASTER SON-T PIA Plus 70W E E27

High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

Product data

• General Characteristics

System Description	External Ignitor
Cap-Base	E27
Cap-Base Information	-
Bulb	T35 [T 35mm]
Bulb Finish	Clear
Operating Position	any [Any or Universal (U)]
Life to 5% failures	14000 hr
Life to 10% failures	17000 hr
Life to 20% failures	22000 hr
Life to 50% failures	30000 hr
LSF EM 20000h	83 %
Rated,12h cycle	
LSF EM 16000h	92 %
Rated,12h cycle	
LSF EM 12000h	96 %
Rated,12h cycle	
LSF EM 8000h Rated, 12h cycle	99 %
LSF EM 6000h Rated, 12h cycle	99 %
LSF EM 4000h Rated, 12h cycle	99 %
LSF EM 2000h Rated, 12h cycle	99 %

• Electrical Characteristics

Lamp Wattage	70 W
Voltage	230 V
Lamp Voltage	90 V
Lamp Current EM	1 A
Ignition Time	5 (max) s
Run-up time 90%	4 (max) min
Dimmable	Yes
Re-ignition Time [sec]	30 (max) s

Lamp Wattage EM 25°C, Rated	73 W
Lamp Wattage EM 25°C, Nominal	70 W

• Environmental Characteristics

Mercury (Hg) Content	12 mg
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• Light Technical Characteristics

Color Code	220 [CCT of 2000K]
Color Rendering Index	25 (max) Ra8
Color Temperature	2000 K
Color Temperature Technical	1900 K
Chromaticity Coordinate X	540 -
Chromaticity Coordinate Y	420 -
Luminance Average EM	310 cd/cm ²
Lum Efficacy Rated EM 25°C	91 Lm/W
LLMF EM 20000h Rated	86 %
LLMF EM 16000h Rated	86 %
LLMF EM 12000h Rated	87 %
LLMF EM 8000h Rated	88 %
LLMF EM 6000h Rated	89 %

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sense and simplicity

MASTER SON-T PIA Plus

LLMF EM 4000h Rated 90 %
 LLMF EM 2000h Rated 92 %
 Luminous Flux EM 25°C, Rated 6600 Lm

• Product Dimensions

Overall Length C 156 (max) mm
 Diameter D 32 (max) mm
 Light Center Length L 102 mm
 Arc Length O 42 mm

• Luminaire Design Requirements

Cap-Base Temperature 200 (max) C

Bulb Temperature 350 (max) C

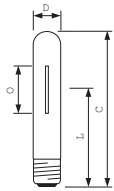
• Product Data

Order code 928152700091
 Full product code 928152700091
 Full product name MASTER SON-T PIA Plus 70W E E27
 Order product name MST SON-T PIA Plus 70W E E27
 Pieces per pack 1
 Packing configuration 12
 Packs per outerbox 12
 Bar code on pack - EAN1 8727900950939
 Bar code on outerbox - EAN3 8727900950946
 Logistic code(s) - 12NC 928152700091
 ILCOS code ST-70-H/S-E27
 Net weight per piece 0.050 kg

Warnings and Safety

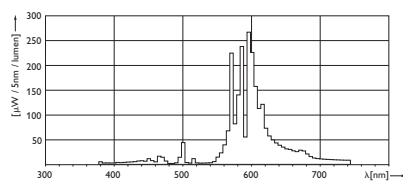
- Control gear must include end-of-life protection (IEC60662, IEC 62035)

Dimensional drawing

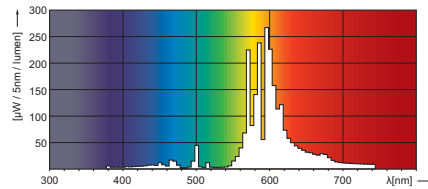


Product	C (Max)	D (Max)	L (Norm)	O (Norm)
SON-T PIA PLUS 70W E27	156	36	102	42

Photometric data



MASTER SON-T PIA Plus 50W & 70W



MASTER SON-T PIA Plus 50W & 70W

Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

1.3 Product information requirements on lamps

a) Nominal and rated lamp wattage;

b) Nominal and rated lamp luminous flux;

c) Rated lamp efficacy at 100 h in standard conditions.

d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;

e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;

f) Lamp mercury content as X.X mg;

g) Colour Rendering Index (Ra) of the lamp;

h) Colour temperature of the lamp;

i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;

For more information see: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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www.philips.com/lighting

2011, August 21
data subject to change