



MASTER SON-T PIA Plus

MASTER SON-T PIA Plus 400W E 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	
Cap-Base	E40 [E40]
Operating Position	UNIVERSAL [Any or Universal (U)]
Life to 5% Failures (Nom)	20500 h
Life To 10% Failures (Nom)	24000 h
Life to 20% Failures (Nom)	28000 h
Life to 50% Failures (Nom)	36000 h
ANSI Code HID	-
System Description	External Ignitor
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	98 %
LSF 20000 h Rated	95 %

Light Technical	
Color Code	220 [CCT of 2000K]
Luminous Flux (Rated) (Nom)	55900 lm
Lumen Maintenance 2000 h (Min)	95 %
Lumen Maintenance 2000 h (Nom)	99 %
Lumen Maintenance 20000 h	88 %
Lumen Maintenance 5000 h (Min)	90.5 %
Lumen Maintenance 5000 h (Nom)	96.5 %
Chromaticity Coordinate X (Nom)	0.535
Chromaticity Coordinate Y (Nom)	0.420
Correlated Color Temperature (Nom)	2000 K
Luminous Efficacy (rated) (Nom)	137 lm/W
Color Rendering Index (Max)	25
LLMF 2000 h Rated	99 %
LLMF 4000 h Rated	97 %
LLMF 6000 h Rated	96 %
LLMF 8000 h Rated	94 %

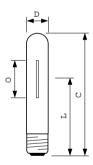
Datasheet, 2021, July 29 data subject to change

MASTER SON-T PIA Plus

LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	90 %
LLMF 20000 h Rated	88 %
Ratio Scotopic/Photopic Lumens	0.60
Operating and Electrical	
Power (Nom)	408.0 W
Lamp Current (EM) (Nom)	0.441 A
Ignition Supply Voltage (Max)	198 V
Ignition Peak Voltage (Max)	2800 V
Re-Ignition Time (Min) (Max)	120 s
Ignition Time (Max)	10 s
Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	105 V
Controls and Dimming	
Dimmable	Yes
Run-Up Time 90% (Max)	5 min
Mechanical and Housing	
Bulb Finish	Clear
Cap-Base Information	-

Bulb Shape	T46 [T 46mm]
Approval and Application	
Mercury (Hg) Content (Nom)	20 mg
Energy Consumption kWh/1000 h	449 kWh
Luminaire Design Requirements	
Bulb Temperature (Max)	450 °C
Cap-Base Temperature (Max)	250 ℃
Product Data	
Full product code	692234199940600
Order product name	MASTER SON-T PIA Plus 400W E E40 1SL/12
EAN/UPC - Product	6922341999406
Order code	928144809298
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928144809298
Net Weight (Piece)	0.179 kg
ILCOS Code	ST-400-H/E-E40

Dimensional drawing

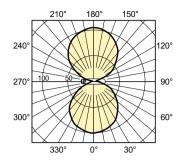


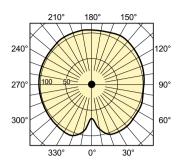
SON-T Plus 400W/220 E40

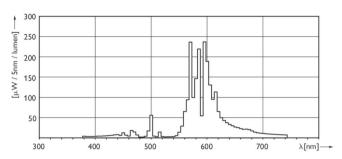
Product	D (max)	0	L	C (max)
MASTER SON-T PIA Plus 400W E E40	48 mm	83 mm	175 mm	279 mm
1SL/12				

MASTER SON-T PIA Plus

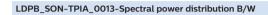
Photometric data

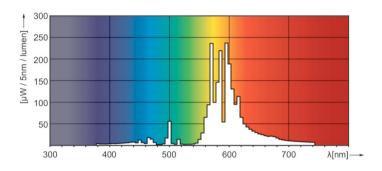






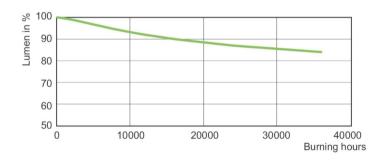
LDLD_SON-TPIA-Light distribution diagram

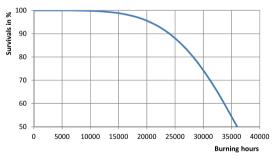




LDPO_SON-TPIA_0013-Spectral power distribution Colour

Lifetime





LDLM_SON-TPIA_0009-Lumen maintenance diagram

SON(-T) PIA Plus 150W 250W 400W Life Expectancy Diagram

MASTER SON-T PIA Plus



© 2021 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.