



# MASTER SON-T PIA Plus

## MASTER SON-T PIA Plus 150W/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	
Cap base	E40 [ E40]
Operating position	UNIVERSAL [ Any/Universal]
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 (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	98 %
LSF 20000 h Rated	95 %

Light Technical	
Colour Code	220 [ CCT of 2,000 K]
Luminous flux (rated) (nom.)	17800 lm
Chromaticity coordinate X (nom.)	0.535
Chromaticity coordinate Y (nom.)	0.420
Correlated Colour Temperature (Nom)	2000 K
Luminous efficacy (rated) (nom.)	115.16 lm/W
Color rendering index (max.)	25
LLMF 2000 h Rated	99 %
LLMF 4000 h Rated	98 %
LLMF 6000 h Rated	97 %
LLMF 8000 h Rated	96 %
LLMF 12000 h Rated	96 %
LLMF 16000 h Rated	95 %
LLMF 20000 h Rated	94 %
Ratio scotopic/photopic lumens	0.55

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## Operating and Electrical

Lamp supply voltage	230 V [ 230]
Power (Rated) (Nom)	155.0 W
Lamp current (EM) (nom.)	0.175 A
Ignition supply voltage (max.)	198 V
Ignition peak voltage (max.)	2800 V
Re-ignition time (min.) (max.)	180 s
Ignition time (max.)	5 s
Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	104 V

## Controls and Dimming

Dimmable	Yes
Run-up time 90% (max.)	4 min

## Mechanical and Housing

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

## Approval and Application

Energy efficiency label (EEL)	A+
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Mercury (Hg) content (nom.)	15 mg
Energy consumption kWh/1,000 hours	171 kWh

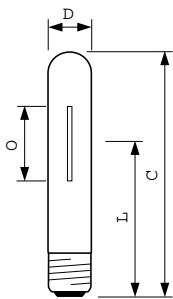
## Luminaire Design Requirements

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

## Product Data

Full product code	871150019229515
Order product name	MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12
EAN/UPC – product	8711500192295
Order code	19229515
Local order code	150SONTPLUS
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928150909230
SAP net weight (piece)	0.142 kg
ILCOS code	ST-150-H/S-E40

## Dimensional drawing

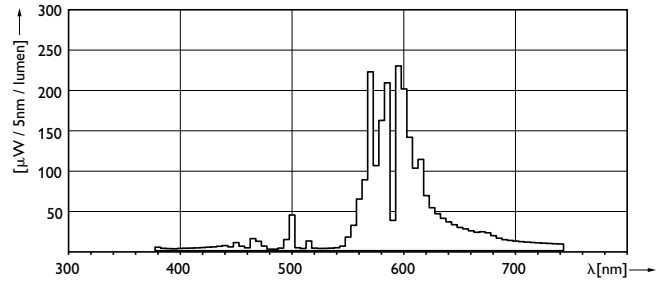
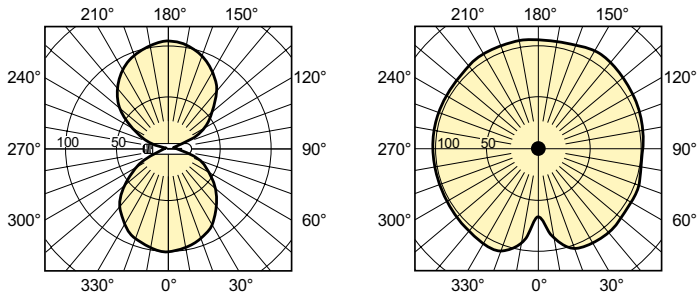


SON-T Plus 150W/220 E40

Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12	48 mm	61 mm	132 mm	210 mm

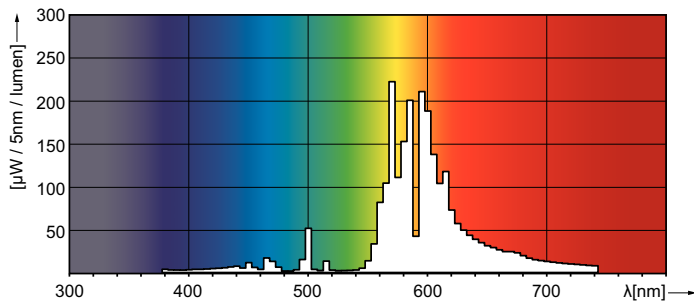
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## Photometric data



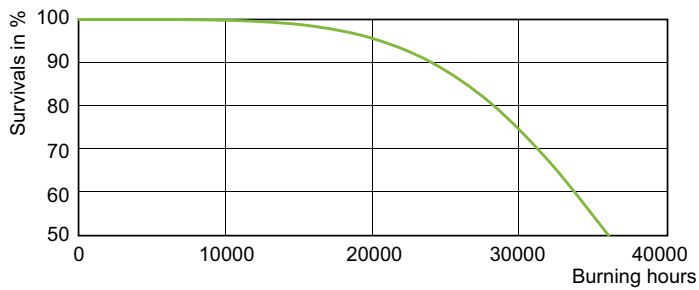
LDLD\_SON-TPIA-Light distribution diagram

MASTER SON-T PIA Plus 100W, 150W & 250W

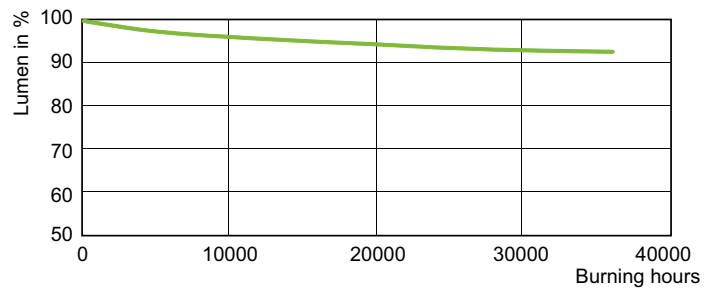


LDPO\_SON-TPIA\_0012-Spectral power distribution Colour

## Lifetime



LDLE\_SON-TPIA\_0003-Life expectancy diagram



LDLM\_SON-TPIA\_0004-Lumen maintenance diagram

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