



# 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	
Cap-Base	E40 [ E40]
Operating Position	UNIVERSAL [ Any or Universal (U)]
Life to 5% Failures (Nom)	12000 h
Life To 10% Failures (Nom)	15000 h
Life to 20% Failures (Nom)	20000 h
Life to 50% Failures (Nom)	30000 h
ANSI Code HID	-
System Description	External Ignitor

Light Technical	
Color Code	220 [ CCT of 2000K]
Luminous Flux (Rated) (Nom)	86500 lm
Lumen Maintenance 2000 h (Min)	85 %
Lumen Maintenance 2000 h (Nom)	96 %
Lumen Maintenance 20000 h	77 %
Lumen Maintenance 5000 h (Min)	80 %

Lumen Maintenance 5000 h (Nom)	90 %
Chromaticity Coordinate X (Nom)	526
Chromaticity Coordinate Y (Nom)	424
Correlated Color Temperature (Nom)	2000 K
Luminous Efficacy (rated) (Nom)	143.5 lm/W
Color Rendering Index (Max)	25
Ratio Scotopic/Photopic Lumens	0.60

Operating and Electrical	
Lamp supply voltage	230 V [ 230]
Power (Nom)	603 W
Lamp Current (EM) (Nom)	5.8 A
Ignition Supply Voltage (Max)	198 V
Ignition Peak Voltage (Max)	3500 V
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

Bulb Finish	Clear
Cap-Base Information	-

## Approval and Application

Energy Efficiency Label (EEL)	A++
Mercury (Hg) Content (Nom)	24 mg
Energy Consumption kWh/1000 h	663 kWh

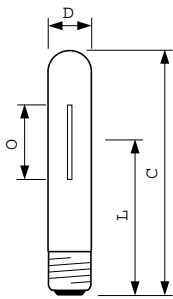
## Luminaire Design Requirements

Bulb Temperature (Max)	450 °C
Cap-Base Temperature (Max)	250 °C

## 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
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928158409227
Net Weight (Piece)	0.177 kg
ILCOS Code	ST-600-H/S-E40

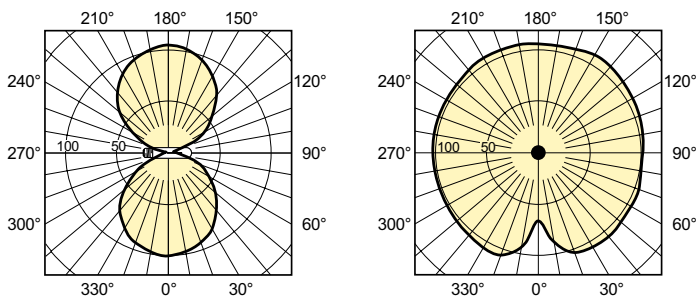
## Dimensional drawing



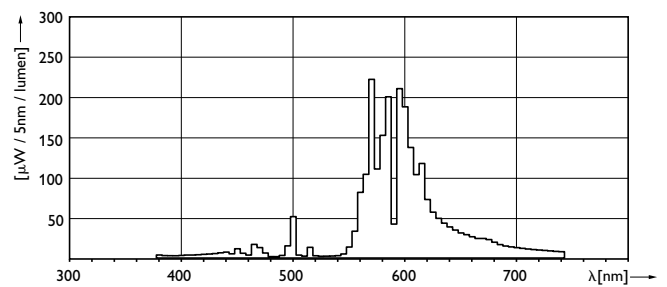
SON-T Plus 600W/220 E40

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



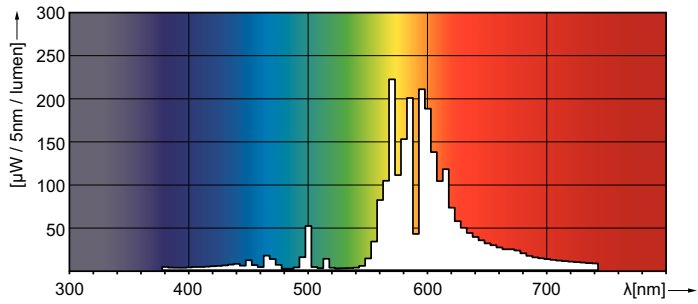
LDLD\_SON-TPIA-Light distribution diagram



LDPB\_SON-TPIA\_0014-Spectral power distribution B/W

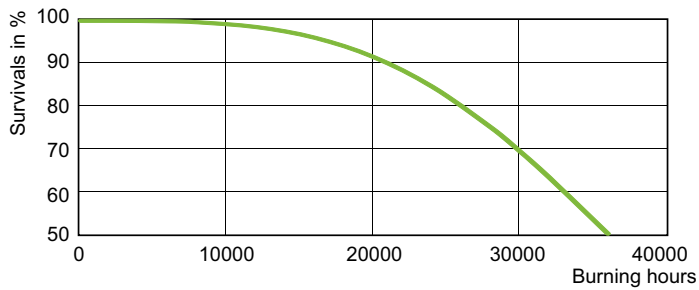
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## Photometric data

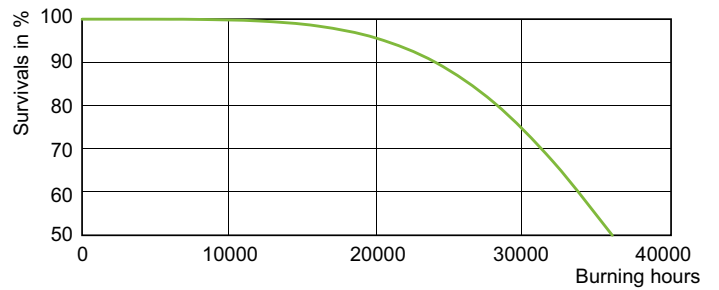


LDPO\_SON-TPIA\_0014-Spectral power distribution Colour

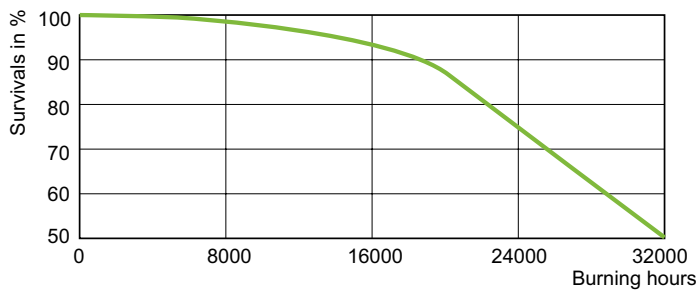
## Lifetime



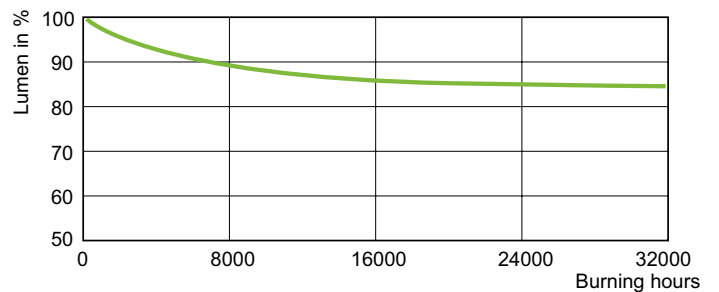
LDLE\_SON-TPIA\_0004-Life expectancy diagram



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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