



# 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		Flux measurement reference	Sphere
Cap-Base	E40 [ E40]	<b>Light technical</b>	
Operating Position	UNIVERSAL [ Any or Universal (U)]	Color Code	220 [ CCT of 2000K]
Life to 5% Failures (Nom)	20500 h	Luminous Flux (Nom)	17800 lm
Life To 10% Failures (Nom)	24000 h	Luminous Flux (Rated) (Nom)	17800 lm
Life to 20% Failures (Nom)	28000 h	Lumen Maintenance 2000 h (Min)	94 %
Life to 50% Failures (Nom)	36000 h	Lumen Maintenance 2000 h (Nom)	97 %
ANSI Code HID	-	Lumen Maintenance 20000 h	94 %
System Description	External Ignitor	Lumen Maintenance 5000 h (Min)	88 %
LSF 2000 h Rated	100 %	Lumen Maintenance 5000 h (Nom)	95 %
LSF 4000 h Rated	99 %	Chromaticity Coordinate X (Nom)	0.535
LSF 6000 h Rated	99 %	Chromaticity Coordinate Y (Nom)	0.42
LSF 8000 h Rated	99 %	Correlated Color Temperature (Nom)	2000 K
LSF 12000 h Rated	99 %	Luminous Efficacy (rated) (Nom)	115.16 lm/W
LSF 16000 h Rated	98 %	Color Rendering Index (Max)	25
LSF 20000 h Rated	95 %	Color Rendering Index (Nom)	-

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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

## Operating and electrical

Lamp supply voltage	230 V [ 230]
Power (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

Bulb Finish	Clear
Cap-Base Information	-

Bulb Shape	T46 [ T 46mm]
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## Approval and application

Energy Efficiency Class	F
Mercury (Hg) Content (Max)	15.1 mg
Mercury (Hg) Content (Nom)	15 mg
Energy Consumption kWh/1000 h	155 kWh
EPREL Registration Number	473383

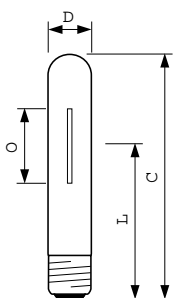
## Luminaire design requirements

Bulb Temperature (Max)	450 °C
Cap-Base Temperature (Max)	250 °C
Cap-Base Temperature (Max)-DUP(do not use)	482 °F

## 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	928150909230
Numerator - Quantity Per Pack	1
Local code description	4825507
Numerator - Packs per outer box	12
Material Nr. (12NC)	928150909230
Net Weight (Piece)	0.142 kg
ILCOS Code	ST-150-H/S-E40

## Dimensional drawing

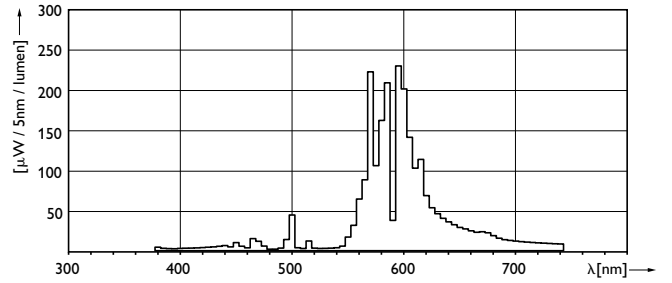


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Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 150W/220 E40 - 1SL/12	48 mm	61 mm	132 mm	210 mm

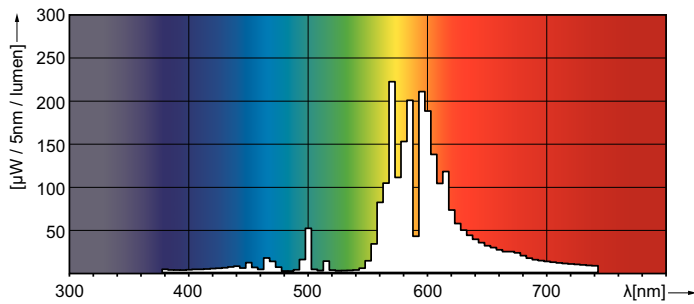
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## Photometric data



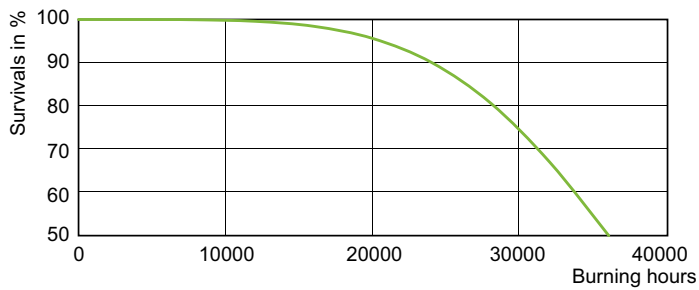
LDLD\_SON-TPIA-Light distribution diagram

LDPB\_SON-TPIA\_0012-Spectral power distribution B/W

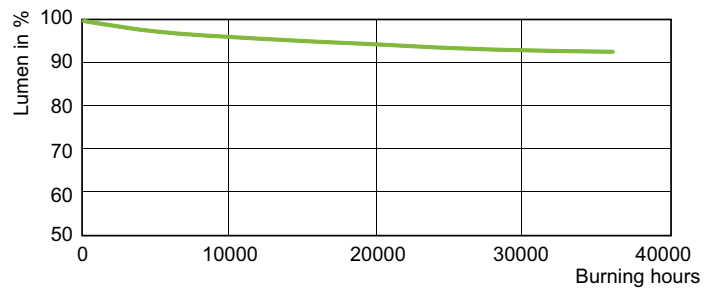


LDPO\_SON-TPIA\_0012-Spectral power distribution Colour

## Lifetime



LDLE\_SON-TPIA\_0003-Life expectancy diagram



LDLM\_SON-TPIA\_0004-Lumen maintenance diagram

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