



MASTER SON-T PIA Plus



MASTER SON-T PIA Plus 100W 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]	Lumen Maintenance 5000 h (Min)	90 %
Operating Position	UNIVERSAL [Any or Universal (U)]	Lumen Maintenance 5000 h (Nom)	95 %
Life to 5% Failures (Nom)	17000 h	Chromaticity Coordinate X (Nom)	0.535
Life to 20% Failures (Nom)	23500 h	Chromaticity Coordinate Y (Nom)	0.42
Life to 50% Failures (Nom)	28000 h	Correlated Color Temperature (Nom)	2000 K
ANSI Code HID	-	Luminous Efficacy (rated) (Nom)	107 lm/W
System Description	External Ignitor	Color Rendering Index (Max)	25
Flux measurement reference	Sphere	Color Rendering Index (Nom)	-
Light technical		Operating and electrical	
Color Code	220 [CCT of 2000K]	Lamp supply voltage	110 V [110]
Luminous Flux (Nom)	10600 lm	Power (Nom)	101.0 W
Luminous Flux (Rated) (Min)	8700 lm	Lamp Current (EM) (Nom)	1.2 A
Luminous Flux (Rated) (Nom)	10700 lm	Ignition Supply Voltage (Max)	198 V
Lumen Maintenance 2000 h (Min)	94 %	Ignition Peak Voltage (Max)	2800 V
Lumen Maintenance 2000 h (Nom)	97 %	Re-Ignition Time (Min) (Max)	120 s
		Ignition Time (Max)	5 s

MASTER SON-T PIA Plus

Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	100 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]

Approval and application

Energy Efficiency Class	F
Mercury (Hg) Content (Max)	16.3 mg
Mercury (Hg) Content (Nom)	14.3 mg
Energy Consumption kWh/1000 h	101 kWh

EPREL Registration Number	473289
---------------------------	--------

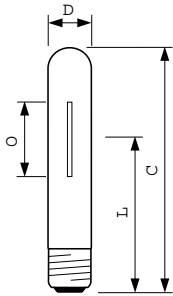
Luminaire design requirements

Bulb Temperature (Max)	450 °C
Cap-Base Temperature (Max)	250 °C
Cap-Base Temperature (Max)-DUP	482 °F

Product data

Full product code	871829118071500
Order product name	MASTER SON-T PIA Plus 100W E40 1SL/12
EAN/UPC - Product	8718291180715
Order code	928483300095
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	928483300095
Net Weight (Piece)	0.108 kg

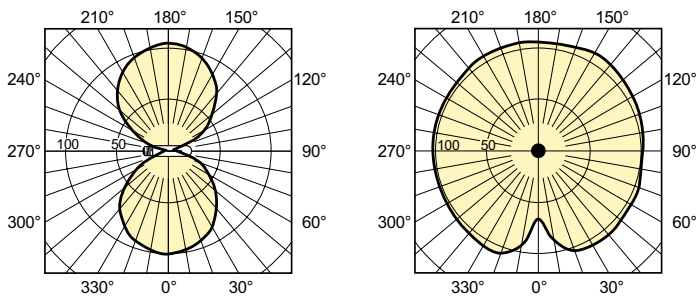
Dimensional drawing



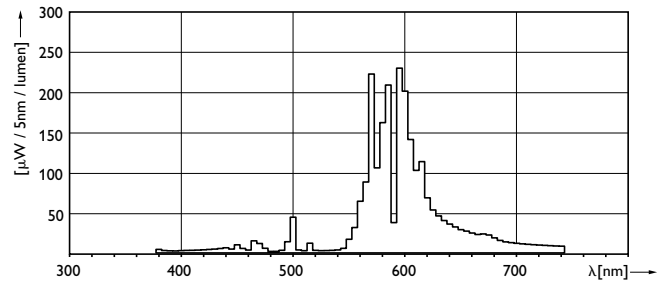
MASTER SON-T PIA Plus 100W E40 1SL/12

Product	D (max)	O	L	C (max)
MASTER SON-T PIA Plus 100W E40 1SL/12	47 mm	47 mm	132 mm	209 mm

Photometric data



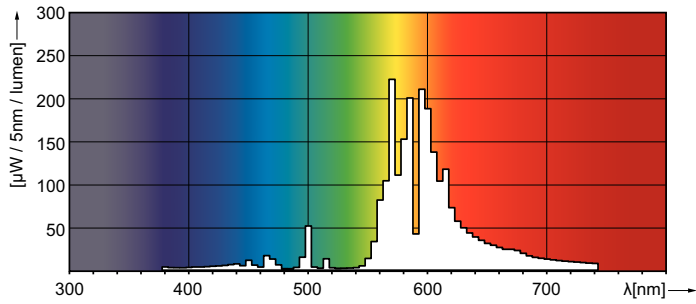
LDLD_SON-TPIA-Light distribution diagram



LDPB_SON-TPIA_0012-Spectral power distribution B/W

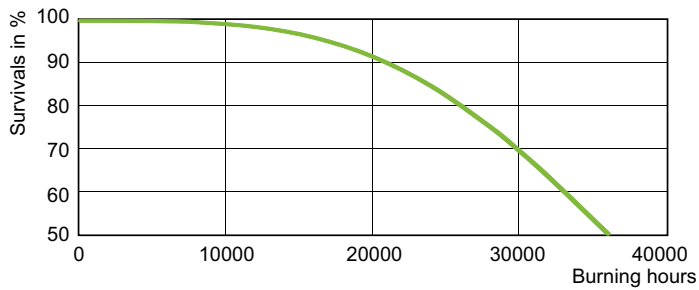
MASTER SON-T PIA Plus

Photometric data

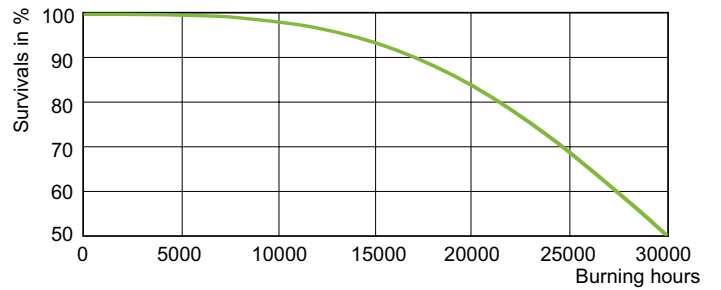


LDPO_SON-TPIA_0012-Spectral power distribution Colour

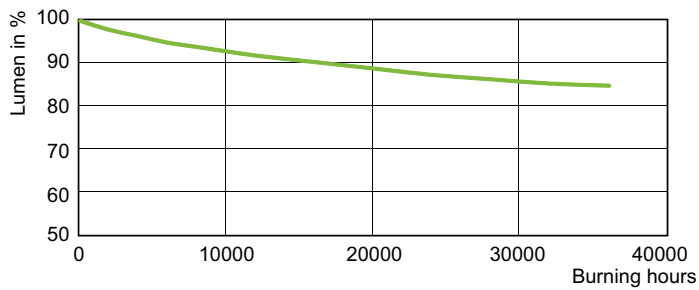
Lifetime



LDLE_SON-TPIA_0004-Life expectancy diagram



Life Expectancy SON-T Plus 70W E E27, SON-T Plus 100W E E40



LDLM_SON-TPIA_0005-Lumen maintenance diagram

MASTER SON-T PIA Plus

