



# MASTER SON PIA Plus

MASTER SON PIA Plus 400W/220 E40 1SL

High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

## Product data

### • General Characteristics

System Description	External Ignitor
Cap-Base	E40
Bulb	BD120 [BD 120mm]
Bulb Finish	Coated
Operating Position	any [Any or Universal (U)]
Life to 5% failures	20500 hr
Life to 10% failures	24000 hr
Life to 20% failures	28000 hr
Life to 50% failures	36000 hr
LSF EM 2000h Rated, 12h cycle	100 %
LSF EM 4000h Rated, 12h cycle	99 %
LSF EM 6000h Rated, 12h cycle	99 %
LSF EM 8000h Rated, 12h cycle	99 %
LSF EM 12000h Rated, 12h cycle	99 %
LSF EM 16000h Rated, 12h cycle	98 %
LSF EM 20000h Rated, 12h cycle	95 %

### • Light Technical Characteristics

Color Code	220 [CCT of 2000K]
Color Rendering Index	25 (max) Ra8
Color Temperature	2000 K
Luminous Flux EM 25°C, Rated	55400 Lm
Lum Efficacy Rated EM 25°C	136.5 Lm/W
Luminance Average EM	27 cd/cm <sup>2</sup>

LLMF EM 2000h Rated	99 %
LLMF EM 4000h Rated	97 %
LLMF EM 6000h Rated	96 %
LLMF EM 8000h Rated	94 %
LLMF EM 12000h Rated	92 %
LLMF EM 16000h Rated	90 %
LLMF EM 20000h Rated	88 %
Chromaticity Coordinate X	525 -
Chromaticity Coordinate Y	425 -

### • Electrical Characteristics

Lamp Wattage	400 W
Lamp Wattage EM 25°C, Nominal	400.0 W
Lamp Wattage EM 25°C, Rated	405.0 W
Lamp Voltage	105 V
Lamp Current EM	4.3 A
Ignition Time	10 (max) s
Run-up time 90%	5 (max) min
Dimmable	Yes
Re-ignition Time [sec]	120 (max) s
Ratio scotopic/photopic lumens	0.60 -

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## • Environmental Characteristics

Energy Efficiency Label (EEL)	A++
Mercury (Hg) Content	20 mg
Energy consumption kWh/1000h	445 kWh

## • Luminaire Design Requirements

Cap-Base Temperature	250 (max) C
Bulb Temperature	350 (max) C

## • Product Dimensions

Overall Length C	290 (max) mm
Diameter D	122 (max) mm

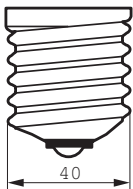
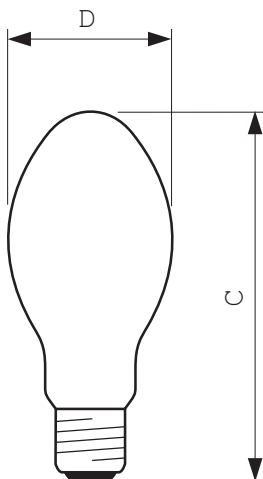
## • Product Data

Order code	928153409830
Full product code	928153409830
Full product name	MASTER SON PIA Plus 400W/220 E40 1SL
Order product name	MASTER SON PIA Plus 400W/220 E40 1SL/12
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500193452
Bar code on outerbox - EAN3	8711500195937
Logistic code(s) - 12NC	928153409830
ILCOS code	SE-400-H/S-E40
Net weight per piece	0.249 kg

## Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)

## Dimensional drawing

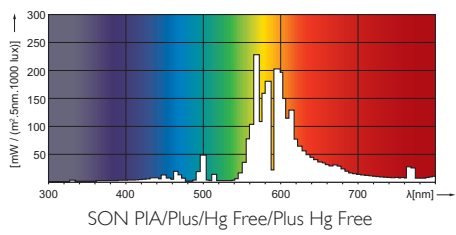


E40

## MASTER SON PIA Plus 400W/220 E40 1SL

Product	C (Max)	D (Max)
SON PIA Plus 400W/220 E40	290	122

## Photometric data



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2013, October 9  
data subject to change