



Product Description

MASTER SON PIA Plus

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

Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- · High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- · High luminous efficacy makes this the most energy efficient HPS lamp

Features

- \cdot Ovoid, internally white coated outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- · ZrCo getter ensures high lumen maintenance and few early failures
- "Plus" concept with high efficacy translated into high light output
- · Completely lead-free lamps

Application

- · Road and residential lighting
- \cdot Industrial lighting both indoor and outdoor
- $\boldsymbol{\cdot}$ Recreational sports facilities Outdoor and Indoor

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.

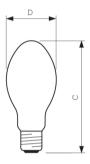
MASTER SON PIA Plus

Versions



LPPR SON-PIA 0002

Dimensional drawing



General Information	
Operating Position	UNIVERSAL
Light Technical	
Chromaticity Coordinate Y (Nom)	0.42
Color rendering index (CRI)	-
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Bulb Finish	Coated glass

Product	D (max)	C (max)
MASTER SON PIA Plus 100W/220 E40 1SL/12	76 mm	186 mm
MASTER SON PIA Plus 150W/220 E40 1SL/12	91 mm	227 mm
MASTER SON PIA Plus 250W/220 E40 1SL/12	91 mm	227 mm
MASTER SON PIA Plus 400W/220 E40 1SL/12	122 mm	290 mm
MASTER SON PIA Plus 70W/220 I E27 1CT/24	70 mm	152 mm

General Information

18228915 MASTER SON PIA Plus 150W/220 E	E40 1SI /12	E40
10220313 MASTER SONT IAT (03 130W) 220 E	L-10 13L/ 12	E40
18225815 MASTER SON PIA Plus 100W/220 I	E40 1SL/12	E40
19344515 MASTER SON PIA Plus 250W/220	E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	E40
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	E27

Light Technical

MASTER SON PIA Plus

Order Code 18228915	Full Product Name MASTER SON PIA Plus 150W/220 E40 1SL/12	Chromaticity Coordinate X (Nom) 0.535	Color Temperature (Nom) 2000 K	Luminous Efficacy (rated) (Nom) 107.79 lm/W	Luminous Flux 16,600 lm
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	0.535	2000 K	95 lm/W	9,600 lm
19344515	MASTER SON PIA Plus	0.535	2000 K	120 lm/W	30,000 lm

Order	Full Product	Chromaticity Coordinate X	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous
Code	Name		•	` ′	Flux
Code		(Nom)	(Nom)	(Nom)	riux
	250W/220 E40				
	1SL/12				
19345215	MASTER SON	0.535	2000 K	136.27 lm/W	55,600 lm
	PIA Plus				
	400W/220 E40				
	1SL/12				
20426430	MASTER SON	0.54	1900 K	80 lm/W	5,750 lm
	PIA Plus				
	70W/220 I E27				
	1CT/24				

Operating and Electrical

			Power
			Power
Order Code	Full Product Name	Voltage (Nom)	Consumption
18228915	MASTER SON PIA Plus 150W/220	100 V	154.0 W
	E40 1SL/12		
18225815	MASTER SON PIA Plus 100W/220	100 V	101.0 W
	E40 1SL/12		
19344515	MASTER SON PIA Plus 250W/220	96 V	250.0 W
	E40 1SL/12		

E40 1SL/12				Power
E40 1SL/12	Order Code	Full Product Name	Voltage (Nom)	Consumption
<u>'</u>	19345215	MASTER SON PIA Plus 400W/220	105 V	408.0 W
20426430 MASTER SON PIA Plus 70W/220 I 92 V 71.5 W		E40 1SL/12		
	20426430	MASTER SON PIA Plus 70W/220 I	92 V	71.5 W
E27 1CT/24		E27 1CT/24		

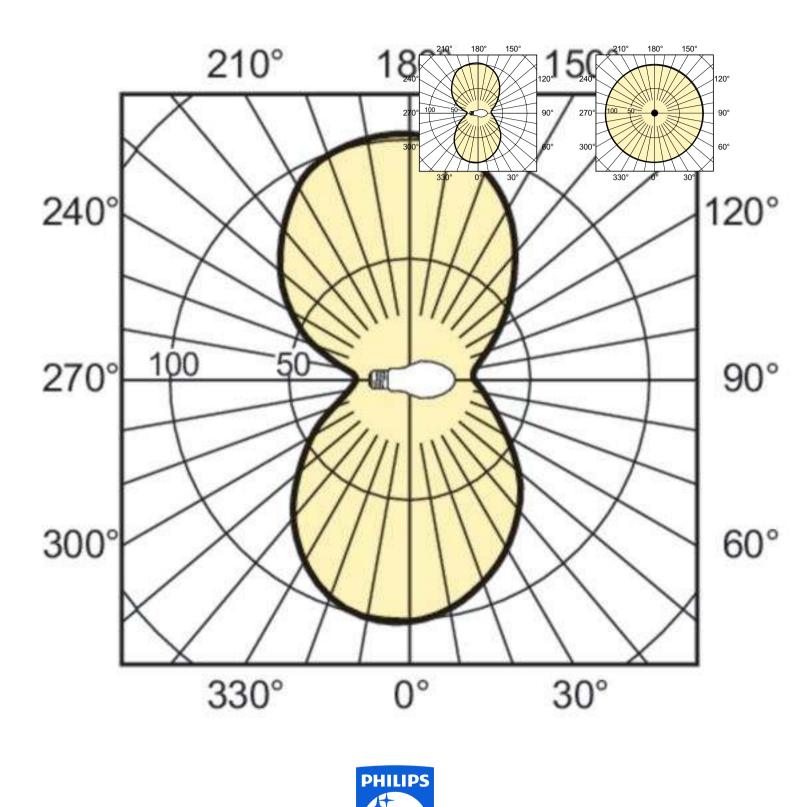
Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
18228915	MASTER SON PIA Plus 150W/220 E40 1SL/12	BD90
18225815	MASTER SON PIA Plus 100W/220 E40 1SL/12	B75
19344515	MASTER SON PIA Plus 250W/220 E40 1SL/12	BD90

Order Code	Full Product Name	Bulb Shape
19345215	MASTER SON PIA Plus 400W/220 E40 1SL/12	BD120
20426430	MASTER SON PIA Plus 70W/220 I E27 1CT/24	B70

Approval and Application

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		Energy	Mercury	Mercury
		Consumption	(Hg) Content	(Hg) Content
Order Code	Full Product Name	kWh/1000 h	(Max)	(Nom)
18228915	MASTER SON PIA Plus	154 kWh	15.1 mg	15 mg
	150W/220 E40 1SL/12			
18225815	MASTER SON PIA Plus	101 kWh	16.3 mg	16.3 mg
	100W/220 E40 1SL/12			
19344515	MASTER SON PIA Plus	250 kWh	15.1 mg	15.1 mg
	250W/220 E40 1SL/12			
19345215	MASTER SON PIA Plus	408 kWh	19.6 mg	20 mg
	400W/220 E40 1SL/12			
20426430	MASTER SON PIA Plus	72 kWh	16.3 mg	16.3 mg
	70W/220 I E27 1CT/24			



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