The most reliable solution in road lighting

MASTER SON PIA Plus

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

Benefits

- High efficacy/lumen output resulting in low energy cost
- Long and reliable lifetime reducing maintenance cost
- Constant light over lifetime

Features

- Ovoid, white coated outer bulb
- Ceramic discharge tube with Unique Philips Integrated Antenna (PIA) concept enabling long and reliable lifetime
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life

Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities, indoor and outdoor

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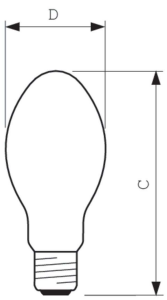
Warnings and Safety

- 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.

Versions

LPPR SON-PIA 0002

Dimensional drawing



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	
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

General Information

Order Code	Full Product Name	Cap-Base
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	E40

MASTER SON PIA Plus

Order Code	Full Product Name	Cap-Base
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	E40
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	E27

Light Technical

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	0.535	2000 K	107.79 lm/W	16,600 lm
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	0.535	2000 K	95 lm/W	9,600 lm
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	0.535	2000 K	120 lm/W	30,000 lm

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	0.535	2000 K	136.27 lm/W	55,600 lm
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	0.54	1900 K	80 lm/W	5,750 lm

Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	100 V	154.0 W
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	100 V	101.0 W
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	96 V	250.0 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	105 V	408.0 W
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	92 V	71.5 W

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	BD90
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	B75
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	BD90

Order Code	Full Product Name	Bulb Shape
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	BD120
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	B70

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	154 kWh	15.1 mg	15 mg
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	101 kWh	16.3 mg	16.3 mg
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	250 kWh	15.1 mg	15.1 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928153409830	MASTER SON PIA Plus 400W/220 E40 1SL/12	408 kWh	19.6 mg	20 mg
928150008835	MASTER SON PIA Plus 70W/220 I E27 1CT/24	72 kWh	14.3 mg	14.3 mg

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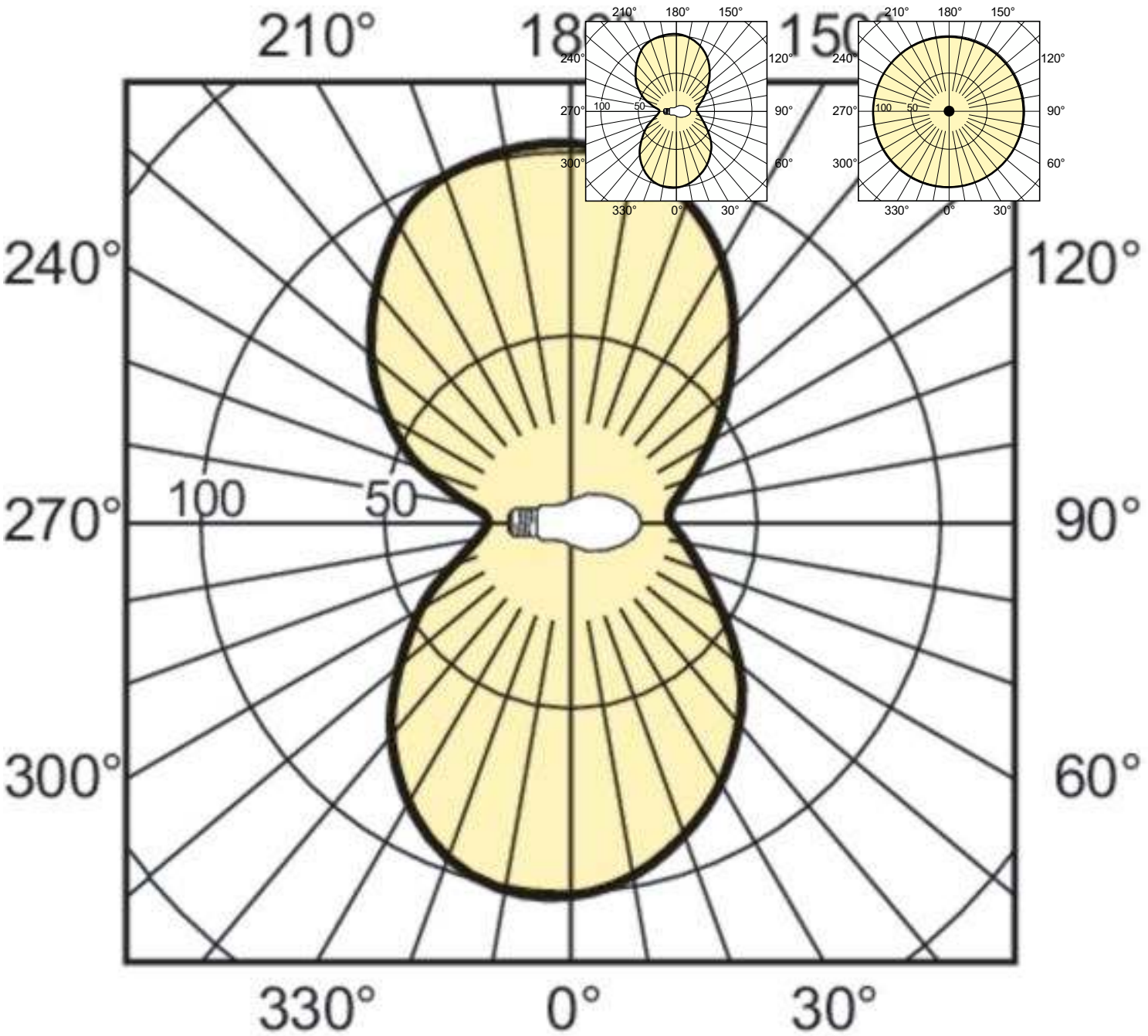

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