



# Product Description

## SON

High Pressure Sodium lamp with opalized ovoid outer bulb

### Benefits

- SON is a cost-efficient and reliable solution in High Pressure Sodium

### Features

- Ovoid, internally white coated outer bulb
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear

### Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications

### 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

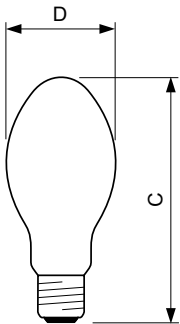


SON (Internal Ignitor) E27



SON, E26/E27

Dimensional drawing



Product	D (max)	C (max)
SON 50W/220 E27 1CT/24	71 mm	156 mm
SON 70W E E27 CO 1CT/24	71 mm	156 mm
SON 50W/220 I E27 1CT/24	71 mm	156 mm
SON 70W/220 I E27 1CT/24	71 mm	155 mm

Approval and Application

Energy Efficiency Label (EEL) A

Controls and Dimming

Dimmable Yes

General Information

Cap-Base E27  
 Life To 50% Failures (Nom) 28000 h  
 LSF 2000 h Rated 99 %  
 LSF 4000 h Rated 99 %  
 Operating Position UNIVERSAL

Luminaire Design Requirements

Bulb Temperature (Max) 350 °C

Light Technical

Color Code 220  
 Correlated Color Temperature (Nom) 2000 K  
 Color Rendering Index (Max) 25

Mechanical and Housing

Bulb Finish Coated glass

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
18186230	SON 70W/220 I E27 1CT/24	77 kWh	16.3 mg
18189330	SON 50W/220 I E27 1CT/24	55 kWh	12 mg
18195430	SON 50W/220 E27 1CT/24	55 kWh	12 mg
21024130	SON 70W E E27 CO 1CT/24	77 kWh	16.3 mg

## Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
18186230	SON 70W/220 I E27 1CT/24	0.98 A	105 V	75 V	90 V
18189330	SON 50W/220 I E27 1CT/24	0.76 A	100 V	70 V	85 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
18195430	SON 50W/220 E27 1CT/24	0.76 A	100 V	70 V	85 V
21024130	SON 70W E E27 CO 1CT/24	0.98 A	105 V	75 V	90 V

## Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min)	
			(Max)	
18186230	SON 70W/220 I E27 1CT/24	70.0 W	-	
18189330	SON 50W/220 I E27 1CT/24	50.0 W	-	

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min)	
			(Max)	
18195430	SON 50W/220 E27 1CT/24	52 W	180 s	
21024130	SON 70W E E27 CO 1CT/24	70.0 W	180 s	

## General Information (1/2)

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 5%	LSF 12000 h Rated
		Failures (Nom)	Failures (Nom)	Failures (Nom)	
18186230	SON 70W/220 I E27 1CT/24	13000 h	18000 h	10000 h	92 %
18189330	SON 50W/220 I E27 1CT/24	13000 h	18000 h	10000 h	92 %

Order Code	Full Product Name	Life To 10%	Life To 20%	Life To 5%	LSF 12000 h Rated
		Failures (Nom)	Failures (Nom)	Failures (Nom)	
18195430	SON 50W/220 E27 1CT/24	15000 h	19000 h	12000 h	95 %
21024130	SON 70W E E27 CO 1CT/24	-	22000 h	12000 h	94 %

## General Information (2/2)

Order Code	Full Product Name	LSF 16000 h	LSF 20000 h	LSF 6000 h	LSF 8000 h	System Description
		Rated	Rated	Rated	Rated	
18186230	SON 70W/220 I E27 1CT/24	84 %	74 %	98 %	97 %	Internal Ignitor (I)
18189330	SON 50W/220 I E27 1CT/24	84 %	74 %	98 %	97 %	Internal Ignitor (I)

Order Code	Full Product Name	LSF 16000 h	LSF 20000 h	LSF 6000 h	LSF 8000 h	System Description
		Rated	Rated	Rated	Rated	
18195430	SON 50W/220 E27 1CT/24	88 %	78 %	99 %	98 %	External Ignitor (E)
21024130	SON 70W E E27 CO 1CT/24	86 %	76 %	99 %	98 %	External Ignitor (E)

## Light Technical (1/3)

Order Code	Full Product Name	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index (Nom)	LLMF 12000 h Rated
		(Nom)	(Nom)	(Nom)	
18186230	SON 70W/220 I E27 1CT/24	540	415	-	80 %
18189330	SON 50W/220 I E27 1CT/24	540	415	-	80 %

Order Code	Full Product Name	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index (Nom)	LLMF 12000 h Rated
		(Nom)	(Nom)	(Nom)	
18195430	SON 50W/220 E27 1CT/24	-	-	-	81 %
21024130	SON 70W E E27 CO 1CT/24	-	-	-	81 %

## Light Technical (2/3)

Order Code	Full Product Name	LLMF	LLMF		LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen	Lumen	Lumen
		16000 h Rated	LLMF 2000 h Rated	20000 h Rated				Maintenance 10000 h (Min)	Maintenance 10000 h (Nom)	Maintenance 2000 h (Min)
18186230	SON 70W/220 I E27 1CT/24	79 %	88 %	78 %	84 %	83 %	81 %	70 %	81 %	80 %
18189330	SON 50W/220 I E27 1CT/24	79 %	88 %	78 %	84 %	83 %	81 %	-	-	-
18195430	SON 50W/220 E27 1CT/24	81 %	89 %	80 %	86 %	85 %	84 %	70 %	83 %	80 %
21024130	SON 70W E E27 CO 1CT/24	79 %	93 %	78 %	89 %	86 %	84 %	-	85 %	85 %

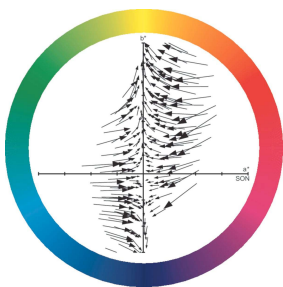
Light Technical (3/3)

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio
		Maintenance 2000 h (Nom)	Maintenance 20000 h	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)			Scotopic/Photopic Lumens
18186230	SON 70W/220 I E27 1CT/24	88 %	78 %	75 %	83.5 %	80 lm/W	5040 lm	5600 lm	-
18189330	SON 50W/220 I E27 1CT/24	-	-	-	-	70 lm/W	-	3500 lm	-
18195430	SON 50W/220 E27 1CT/24	89 %	80 %	75 %	85 %	70 lm/W	3150 lm	3650 lm	0.50
21024130	SON 70W E E27 CO 1CT/24	93 %	-	80 %	88 %	80 lm/W	4500 lm	5600 lm	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape	Order Code	Full Product Name	Bulb Shape
18186230	SON 70W/220 I E27 1CT/24	B70	18195430	SON 50W/220 E27 1CT/24	B70
18189330	SON 50W/220 I E27 1CT/24	B70	21024130	SON 70W E E27 CO 1CT/24	BF70

Colour Rendering Diagrams



LDCR\_SON-Colour rendering diagram

# SON

