



Product Description

SON

High Pressure Sodium lamp with opalized ovoid outer bulb

Benefits

- SON Pro 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)

Related products



SON, E26/E27



SON (Internal Ignitor) E27

Dimensional drawing

SON 70W/220 I E27 1CT

Product	C (Max)	D (Max)
SON 70W/220 I E27	155	71

SON 70W/220 E27 1CT

Product	C (Max)	D (Max)
SON 70W/220 E27	156	71
SON 50W/220 E27	156	71

General Characteristics (1/2)

Order code	Full product name	Bulb	Bulb Finish	Cap-Base	Burning Position	System Description	Life to 10% failures	Life to 20% failures	Life to 5% failures	Life to 50% failures	Life to 33% failures
181923 30	SON 70W/220 E27 1CT	BD70	Coated	ES	any	External Ignitor	15000 hr	19000 hr	12000 hr	28000 hr	hr
181954 30	SON 50W/220 E27 1CT	B70	Coated	ES	any	External Ignitor	15000 hr	19000 hr	12000 hr	28000 hr	hr
181862 30	SON 70W/220 I E27 1CT	B70	Coated	ES	any	Internal Ignitor	13000 hr	18000 hr	10000 hr	28000 hr	-

General Characteristics (2/2)

Order code	Full product name	LSF EM 12000h Rated, 12h cycle	LSF EM 16000h Rated, 12h cycle	LSF EM 20000h Rated, 12h cycle	LSF EM 2000h Rated, 12h cycle	LSF EM 4000h Rated, 12h cycle	LSF EM 6000h Rated, 12h cycle	LSF EM 8000h Rated, 12h cycle
181923 30	SON 70W/220 E27 1CT	95 %	88 %	78 %	99 %	99 %	99 %	98 %
181954 30	SON 50W/220 E27 1CT	95 %	88 %	78 %	99 %	99 %	99 %	98 %
181862 30	SON 70W/220 I E27 1CT	92 %	84 %	74 %	99 %	99 %	98 %	97 %

Installation diagrams

E27

Installation diagrams

any

Light Technical Characteristics (1/3)

Order code	Full product name	Colour Code	Lamp Luminous Flux EM	Chromaticity Coordinate X	Chromaticity Coordinate Y	Colour Rendering Index	Lumen Maintenance 10000h	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lamp Luminous Efficacy EM	Colour Temperature
181923 30	SON 70W/220 E27 1CT	220	5810 Lm	-	-	25 (max) Ra8	83 %	89 %	85 %	83 Lm/W	2000 K
181954 30	SON 50W/220 E27 1CT	220	3500 Lm	-	-	25 (max) Ra8	83 %	89 %	85 %	70 Lm/W	2000 K
181862 30	SON 70W/220 I E27 1CT	220	5600 Lm	540 -	415 -	25 (max) Ra8	81 %	88 %	83.5 %	80 Lm/W	2000 K

Light Technical Characteristics (2/3)

Order code	Full product name	Lumen Maintenance 2500h	Lumen Maintenance 20000h	Lum Efficacy Rated EM 25°C	LLMF EM 20000h Rated	LLMF EM 16000h Rated	LLMF EM 12000h Rated	LLMF EM 8000h Rated	LLMF EM 6000h Rated	LLMF EM 4000h Rated	LLMF EM 2000h Rated
181923 30	SON 70W/220 E27 1CT	%	80 %	83 Lm/W	80 %	81 %	81 %	84 %	85 %	86 %	89 %
181954 30	SON 50W/220 E27 1CT	%	80 %	70 Lm/W	80 %	81 %	81 %	84 %	85 %	86 %	89 %
181862 30	SON 70W/220 I E27 1CT	-	78 %	80 Lm/W	78 %	79 %	80 %	81 %	83 %	84 %	88 %

Light Technical Characteristics (3/3)

Order code	Full product name	Luminous Flux EM 25°C, Rated
181923 30	SON 70W/220 E27 1CT	5810 Lm
181954 30	SON 50W/220 E27 1CT	3500 Lm

Order code	Full product name	Luminous Flux EM 25°C, Rated
181862 30	SON 70W/220 I E27 1CT	5600 Lm

Light technical

SON

SON

Electrical Characteristics

Order code	Full product name	Lamp Wattage	Lamp Wattage EM	Lamp Voltage	Lamp Current EM	Dimmable	Re-ignition Time [sec]	Lamp Wattage EM 25°C, Rated	Lamp Wattage EM 25°C, Nominal	Ratio scotopic/ photopic lumens
181923 30	SON 70W/220 E27 1CT	70 W	70 W	90 V	0.98 A	yes	180 (max) s	70 W	70 W	0.50 -
181954 30	SON 50W/220 E27 1CT	50 W	W	85 V	0.76 A	yes	180 (max) s	50 W	50 W	0.50 -
181862 30	SON 70W/220 I E27 1CT	70 W	70 W	90 V	0.98 A	yes	-	70 W	70 W	-

Performance diagrams

SON (Internal Ignitor) SON

SON (Internal Ignitor) SON

SON (Internal Ignitor) SON 50W, 70W
50W, 70W

Performance diagrams

SON (Internal Ignitor) 50W, 70W

SON 50W, 70W

SON (Internal Ignitor) 50W, 70W

SON 50W, 70W

Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content
181923 30	SON 70W/220 E27 1CT	16 mg
181954 30	SON 50W/220 E27 1CT	12 mg
181862 30	SON 70W/220 I E27 1CT	16.3 mg

Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
181923 30	SON 70W/220 E27 1CT	200 (max) C	350 (max) C
181954 30	SON 50W/220 E27 1CT	200 (max) C	350 (max) C
181862 30	SON 70W/220 I E27 1CT	200 (max) C	350 (max) C



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