



# Product Description

## SON-T

High Pressure Sodium lamp with clear tubular outer bulb

### Benefits

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

### Features

- Clear tubular 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
- 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.

**Controls and Dimming**

Dimmable	Yes
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**General Information**

LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
Operating Position	UNIVERSAL
System Description	External Ignitor (E)

**Light Technical**

Colour Code	220
Correlated Colour Temperature (Nom)	2000 K
Colour Rendering Index (Max)	25
Colour Rendering Index (Nom)	-
LLMF 20000 h Rated	80 %

**Mechanical and Housing**

Bulb Finish	Clear
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**Approval and Application**

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
19267715	SON-T 70W/220 E27 1CT/12	77 kWh	16.3 mg
18412245	SON-T 1000W E40 1SL/4	1056 kWh	23 mg

**Operating and Electrical (1/2)**

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
19267715	SON-T 70W/220 E27 1CT/12	0.98 A	105 V	75 V	90 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
18412245	SON-T 1000W E40 1SL/4	10.6 A	115 V	85 V	100 V

**Operating and Electrical (2/2)**

Order Code	Full Product Name	Power (Rated)	Re-Ignition Time (Min)
		(Nom)	(Max)
19267715	SON-T 70W/220 E27 1CT/12	70.0 W	180 s

Order Code	Full Product Name	Power (Rated)	Re-Ignition Time (Min)
		(Nom)	(Max)
18412245	SON-T 1000W E40 1SL/4	960.0 W	240 s

**General Information (1/2)**

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
19267715	SON-T 70W/220 E27 1CT/12	E27	15000 h	19000 h	28000 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
18412245	SON-T 1000W E40 1SL/4	E40	10000 h	14000 h	20000 h

**General Information (2/2)**

Order Code	Full Product Name	Life To 5% Failures (Nom)	LSF 12000 h Rated	LSF 16000 h Rated	LSF 20000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated
19267715	SON-T 70W/220 E27 1CT/12	12000 h	95 %	89 %	79 %	98 %	97 %
18412245	SON-T 1000W E40 1SL/4	8000 h	85 %	69 %	50 %	97 %	95 %

**Luminaire Design Requirements**

Order Code	Full Product Name	Bulb Temperature (Max)
19267715	SON-T 70W/220 E27 1CT/12	350 °C

# SON-T

Order Code	Full Product Name	Bulb Temperature (Max)
18412245	SON-T 1000W E40 1SL/4	450 °C

## Light Technical (1/3)

Order Code	Full Product Name	Chromaticity	Chromaticity	LLMF	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	12000 h Rated	16000 h Rated
19267715	SON-T 70W/220 E27 1CT/12	0.540	0.413	81 %	81 %

Order Code	Full Product Name	Chromaticity	Chromaticity	LLMF	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	12000 h Rated	16000 h Rated
18412245	SON-T 1000W E40 1SL/4	-	-	84 %	82 %

## Light Technical (2/3)

Order Code	Full Product Name	LLMF	LLMF	LLMF	LLMF	Lumen	Lumen	Lumen	Lumen	Luminous
		2000 h Rated	4000 h Rated	6000 h Rated	8000 h Rated	Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)
19267715	SON-T 70W/220 E27 1CT/12	89 %	86 %	85 %	84 %	-	-	-	-	84 lm/W
18412245	SON-T 1000W E40 1SL/4	95 %	93 %	89 %	88 %	90 %	95 %	80 %	90 %	130 lm/W

## Light Technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio
				Scotopic/Photopic Lumens
19267715	SON-T 70W/220 E27 1CT/12	-	6000 lm	0.50

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio
				Scotopic/Photopic Lumens
18412245	SON-T 1000W E40 1SL/4	117000 lm	130000 lm	0.65

## Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
19267715	SON-T 70W/220 E27 1CT/12	T35

Order Code	Full Product Name	Bulb Shape
18412245	SON-T 1000W E40 1SL/4	T65

