



# Product Description

## SON-T

High Pressure Sodium lamp with clear tubular outer bulb

### Benefits

- SON-T 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 indoor and outdoor

### 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**

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)	-

**Mechanical and Housing**

Bulb Finish	Clear
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**Approval and Application**

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
19267715	SON-T 70W/220 E27 ICT/12	77 kWh	A+	16 mg
18412245	SON-T 1000W E40 1SL/4	1056 kWh	A++	23 mg
21264500	SON-T 100W E E40 SL/12	110 kWh	A+	20.4 mg
21270600	SON-T 150W E E40 SL/12	162 kWh	A+	20.4 mg
21288100	SON-T 250W E E40 SL/12	275 kWh	A+	20.4 mg
21292800	SON-T 400W E E40 1SL/12	431 kWh	A+	24.5 mg
21060945	SON-T 1000W E E40 1SL/4	1056 kWh	A++	22.65 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 ICT/12	0.98 A	105 V	75 V	90 V
18412245	SON-T 1000W E40 1SL/4	10.6 A	115 V	85 V	100 V
21264500	SON-T 100W E E40 SL/12	1.2 A	115 V	85 V	100 V
21270600	SON-T 150W E E40 SL/12	1.8 A	115 V	85 V	100 V

Order Code	Full Product Name	Lamp			
		Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
21288100	SON-T 250W E E40 SL/12	3 A	115 V	85 V	100 V
21292800	SON-T 400W E E40 1SL/12	4.6 A	115 V	85 V	100 V
21060945	SON-T 1000W E E40 1SL/4	10.6 A	115 V	85 V	100 V

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

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
19267715	SON-T 70W/220 E27 ICT/12	70.0 W	180 s
18412245	SON-T 1000W E40 1SL/4	960.0 W	240 s
21264500	SON-T 100W E E40 SL/12	100.0 W	120 s
21270600	SON-T 150W E E40 SL/12	147.0 W	180 s

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
21288100	SON-T 250W E E40 SL/12	250.0 W	120 s
21292800	SON-T 400W E E40 1SL/12	392.0 W	120 s
21060945	SON-T 1000W E 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 ICT/12	E27	15000 h	19000 h	28000 h
18412245	SON-T 1000W E40 1SL/4	E40	10000 h	14000 h	20000 h
21264500	SON-T 100W E E40 SL/12	E40	12000 h	-	28000 h
21270600	SON-T 150W E E40 SL/12	E40	-	20000 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)
21288100	SON-T 250W E E40 SL/12	E40	-	20000 h	28000 h
21292800	SON-T 400W E E40 1SL/12	E40	-	20000 h	28000 h
21060945	SON-T 1000W E E40 1SL/4	E40	-	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 2000 h Rated	LSF 20000 h Rated	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated
19267715	SON-T 70W/220 E27 1CT/12	12000 h	95 %	89 %	99 %	79 %	99 %	98 %	97 %
18412245	SON-T 1000W E40 1SL/4	8000 h	85 %	69 %	99 %	50 %	99 %	97 %	95 %
21264500	SON-T 100W E E40 SL/12	-	-	-	-	-	-	-	-
21270600	SON-T 150W E E40 SL/12	12000 h	-	-	-	-	-	-	-
21288100	SON-T 250W E E40 SL/12	12000 h	-	-	-	-	-	-	-
21292800	SON-T 400W E E40 1SL/12	12000 h	-	-	-	-	-	-	-
21060945	SON-T 1000W E E40 1SL/4	8000 h	-	-	-	-	-	-	-

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)	Order Code	Full Product Name	Bulb Temperature (Max)
19267715	SON-T 70W/220 E27 1CT/12	350 °C	21288100	SON-T 250W E E40 SL/12	450 °C
18412245	SON-T 1000W E40 1SL/4	450 °C	21292800	SON-T 400W E E40 1SL/12	450 °C
21264500	SON-T 100W E E40 SL/12	450 °C	21060945	SON-T 1000W E E40 1SL/4	450 °C
21270600	SON-T 150W E E40 SL/12	450 °C			

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	LLMF 20000 h Rated	LLMF 16000 h Rated	Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	LLMF 20000 h Rated	LLMF 16000 h Rated
19267715	SON-T 70W/220 E27 1CT/12	540	413	81 %	81 %	21288100	SON-T 250W E E40 SL/12	-	-	-	-
18412245	SON-T 1000W E40 1SL/4	-	-	84 %	82 %	21292800	SON-T 400W E E40 1SL/12	-	-	-	-
21264500	SON-T 100W E E40 SL/12	-	-	-	-	21060945	SON-T 1000W E E40 1SL/4	-	-	-	-
21270600	SON-T 150W E E40 SL/12	-	-	-	-						

Light Technical (2/3)

Order Code	Full Product Name	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)
19267715	SON-T 70W/220 E27 1CT/12	89 %	80 %	86 %	85 %	84 %	-	-	-	-
18412245	SON-T 1000W E40 1SL/4	95 %	80 %	93 %	89 %	88 %	90 %	95 %	80 %	90 %
21264500	SON-T 100W E E40 SL/12	-	-	-	-	-	85 %	95 %	80 %	90 %
21270600	SON-T 150W E E40 SL/12	-	-	-	-	-	90 %	95 %	85 %	90 %
21288100	SON-T 250W E E40 SL/12	-	-	-	-	-	95 %	98 %	92 %	96 %
21292800	SON-T 400W E E40 1SL/12	-	-	-	-	-	94 %	97 %	88 %	94 %
21060945	SON-T 1000W E E40 1SL/4	-	-	-	-	-	90 %	95 %	80 %	90 %

## Light Technical (3/3)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio
					Scotopic/Photopic Lumens
19267715	SON-T 70W/220 E27 ICT/12	84 lm/W	-	6000 lm	0.50
18412245	SON-T 1000W E40 1SL/4	130 lm/W	117000 lm	130000 lm	0.65
21264500	SON-T 100W E E40 SL/12	90 lm/W	8100 lm	9000 lm	-
21270600	SON-T 150W E E40 SL/12	98 lm/W	13500 lm	15000 lm	-

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	Ratio
					Scotopic/Photopic Lumens
21288100	SON-T 250W E E40 SL/12	110 lm/W	25200 lm	28000 lm	-
21292800	SON-T 400W E E40 1SL/12	123 lm/W	43200 lm	48000 lm	-
21060945	SON-T 1000W E E40 1SL/4	130 lm/W	117000 lm	130000 lm	-

## Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
19267715	SON-T 70W/220 E27 ICT/12	T35
18412245	SON-T 1000W E40 1SL/4	T65
21264500	SON-T 100W E E40 SL/12	T46
21270600	SON-T 150W E E40 SL/12	T46

Order Code	Full Product Name	Bulb Shape
21288100	SON-T 250W E E40 SL/12	T46
21292800	SON-T 400W E E40 1SL/12	T46
21060945	SON-T 1000W E E40 1SL/4	T65

