SON High pressure sodium

SON-T

SON-T E40

Product Description

- High-pressure sodium vapour lamps with a sintered aluminium oxide discharge tube enclosed in an evacuated hard-glass outer bulb

Product Feature

- Luminous efficacy up to 120 lm/W
- Outer bulb clear tubular
- Discharge tube filled with sodium-mercury amalgam and xenon starting gas

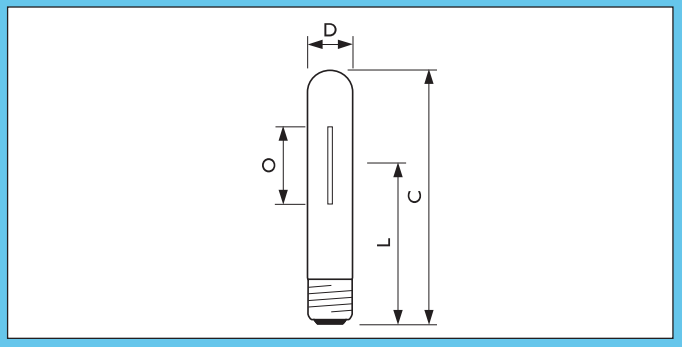
Product Benefit

- SON are energy efficient and powerful light sources

Application

- Public and urban areas
- Decorative outdoor flood-lighting
- Industrial area, shop and commercial lighting
- Indoor and outdoor sports facilities

Dimensions in mm



Product ID	Overall length C max.	Diameter D max.	Light center length L nom.	Arc length O nom.
70W	156	32	102	42
100W	210	47	132	44
150W	211	47	132	61
250W	257	47	158	70
400W	283	47	175	87
1000W	390	66	240	153

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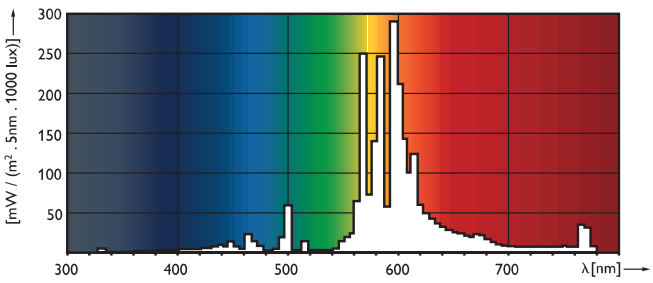
Preferred selection

Product ID	Rated Lamp Wattage (W)	Lamp Current EM/CuFe (A)	Lamp Voltage (V)	Cap Base	Color Temperature (K)	Color Rendering Index (R_a)	Chromaticity Coordinate X	Chromaticity Coordinate Y
SON-T 70W E E27 SLV	70	0.98	90	E27	2000	25	540	413
SON-T 100W E E40 SLV	100	1.2	100	E40	2000	20	540	413
SON-T 150W E E40 SLV	150	1.8	100	E40	2000	25	535	415
SON-T 250W E E40 SLV	250	3	100	E40	2000	25	530	410
SON-T 400W E E40 SLV	400	4.6	100	E40	2000	25	525	415
SON-T 1000W E E40 SLV	1000	10.6	105	E40	2000	25	515	420

Product ID	Bulb Finish	Luminous Flux Lamp EM/CuFe (lm)	Luminous Efficacy Lamp EM (lm/W)	Ignition Supply Voltage (V)	Cap-Base Temperature (C)	Bulb Temperature (C)	Nett Weight Product In Grams (gr)
SON-T 70W E E27 SLV	Clear	6000	86	198	200	350	52
SON-T 100W E E40 SLV	Clear	9000	90	198	250	450	155
SON-T 150W E E40 SLV	Clear	15000	100	198	250	450	155
SON-T 250W E E40 SLV	Clear	28000	112	198	250	450	175
SON-T 400W E E40 SLV	Clear	48000	120	198	250	450	190
SON-T 1000W E E40 SLV	Clear	130000	130	198	250	450	404

Spectral power distribution

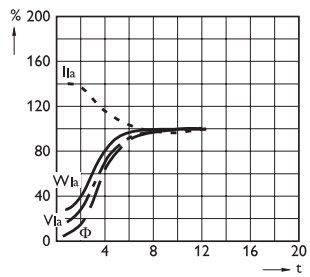
SON-T 250W



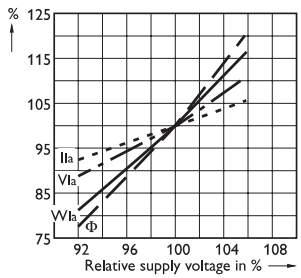
Performance diagrams

SON-T Pro

Lamp performance during run up



Effects of mains voltage variations



I_{la} = Lamp current
Φ = Luminous Flux
V_{la} = Lamp Voltage
W_{la} = Lamp Wattage