



SON H

SON H 220W/220 E40 1SL/12

High Pressure Sodium lamp with opalized outer bulb retrofit for High Pressure Mercury lamps

Warnings and Safety

- For use with control gear designed for high-pressure mercury lamps
- For outdoor use only
- 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.

Product data

General Information			
Cap base	E40 [E40]	Luminous flux (rated) (nom.)	18250 lm
Operating position	UNIVERSAL [Any or Universal (U)]	Chromaticity coordinate X (nom.)	0.530
Life to 5% failures (nom.)	9000 h	Chromaticity coordinate Y (nom.)	0.410
Life to 10% failures (nom.)	12000 h	Correlated Colour Temperature (Nom)	2000 K
Life to 20% failures (nom.)	16000 h	Luminous efficacy (rated) (nom.)	85 lm/W
Life to 50% failures (nom.)	26000 h	Color rendering index (max.)	25
System description	na [-]	LLMF 2000 h Rated	98 %
LSF 2000 h Rated	99 %	LLMF 4000 h Rated	96 %
LSF 4000 h Rated	99 %	LLMF 6000 h Rated	95 %
LSF 6000 h Rated	98 %	LLMF 8000 h Rated	93 %
LSF 8000 h Rated	96 %	LLMF 12000 h Rated	90 %
LSF 12000 h Rated	90 %	LLMF 16000 h Rated	87 %
LSF 16000 h Rated	81 %	LLMF 20000 h Rated	84 %
LSF 20000 h Rated	69 %	Ratio scotopic/photopic lumens	0.60
Light Technical		Operating and Electrical	
Colour Code	220 [CCT of 2,000 K]	Lamp supply voltage	220 V [220]
		Power (Rated) (Nom)	218.0 W

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Lamp current (EM) (nom.)	2.3 A
Ignition supply voltage (max.)	190 V
Re-ignition time (min.) (max.)	180 s
Ignition time (max.)	10 s
Voltage (Max)	130 V
Voltage (Min)	105 V
Voltage (Nom)	120 V

Controls and Dimming

Dimmable	No
Run-up time 90% (max.)	5 min

Mechanical and Housing

Lamp Finish	Coated glass
Bulb shape	BD90 [BD 90mm]

Approval and Application

Mercury (Hg) content (nom.)	28.6 mg
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Energy consumption kWh/1,000 hours	237 kWh
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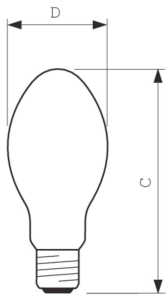
Luminaire Design Requirements

Bulb temperature (max.)	350 °C
Cap-base temperature (max.)	250 °C

Product Data

Full product code	871150018207415
Order product name	SON H 220W/220 E40 1SL/12
EAN/UPC – product	8711500182074
Order code	18207415
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928152409830
SAP net weight (piece)	0.170 kg
ILCOS code	SEQ-220-H-E40

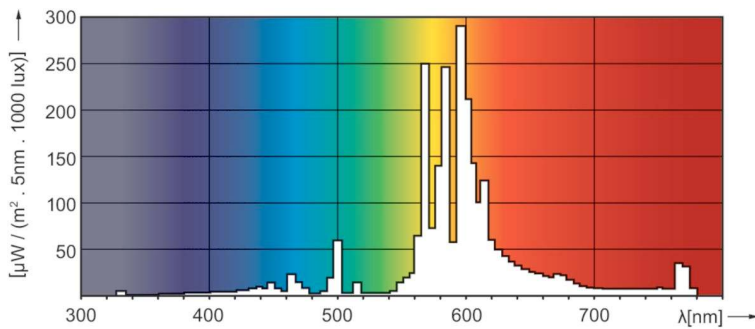
Dimensional drawing



SON H 220W/220 E40 220V

Product	D (max)	C (max)
SON H 220W/220 E40 1SL/12	91 mm	227 mm

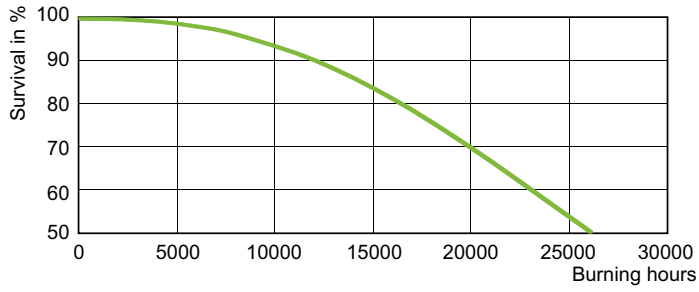
Photometric data



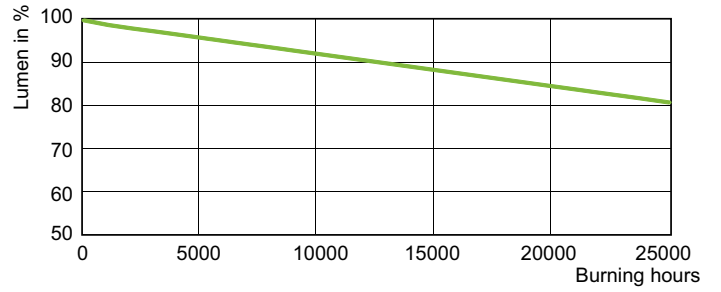
LDPO_SON-H-Spectral power distribution Colour

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Lifetime



LDLE_SON-H_220W_350W-Life expectancy diagram



LDLM_SON-H_220W_350W-Lumen maintenance diagram

