



SON Comfort

SON Comfort 400W/621 E40 1SL

High Pressure Sodium lamp with opalized, ovoid outer bulb and a comfortable color impression

Product data

• General Characteristics

System Description	External Ignitor
Cap-Base	E40
Cap-Base Information	45
Bulb	BD120 [BD 120mm]
Bulb Finish	Coated
Operating Position	any [Any or Universal (U)]
Life to 5% failures	9000 hr
Life to 10% failures	12000 hr
Life to 20% failures	16000 hr
Life to 50% failures	24000 hr
LSF EM 20000h	65 %
Rated,12h cycle	
LSF EM 16000h	80 %
Rated,12h cycle	
LSF EM 12000h	90 %
Rated,12h cycle	
LSF EM 8000h Rated, 12h cycle	96 %
LSF EM 6000h Rated, 12h cycle	98 %
LSF EM 4000h Rated, 12h cycle	99 %
LSF EM 2000h Rated, 12h cycle	99 %

• Electrical Characteristics

Lamp Wattage	400 W
Lamp Voltage	105 V
Lamp Current EM	4.45 A
Ignition Time	10 (max) s
Run-up time 90%	15 (max) min
Dimmable	No
Re-ignition Time [sec]	120 (max) s

Lamp Wattage EM 25°C, Rated	380 W
Lamp Wattage EM 25°C, Nominal	400 W

• Environmental Characteristics

Mercury (Hg) Content	38 mg
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• Light Technical Characteristics

Color Code	621
Color Rendering Index	65 (nom), 70 (max) Ra8
Color Temperature	2150 K
Color Temperature Technical	2050 (min), 2150 (nom), 2250 (max) K
Chromaticity Coordinate X	513 -
Chromaticity Coordinate Y	419 -
Luminance Average EM	17 cd/cm2
Lum Efficacy Rated EM 25°C	90 Lm/W
LLMF EM 20000h Rated	80 %
LLMF EM 16000h Rated	82 %
LLMF EM 12000h Rated	85 %
LLMF EM 8000h Rated	87 %
LLMF EM 6000h Rated	89 %

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LLMF EM 4000h Rated	92 %
LLMF EM 2000h Rated	96 %
Luminous Flux EM 25°C, Rated	37000 Lm

• Product Dimensions

Overall Length C	290 (max) mm
Diameter D	122 (max) mm

• Luminaire Design Requirements

Cap-Base Temperature	250 (max) C
Bulb Temperature	350 (max) C

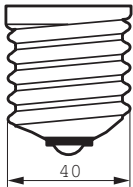
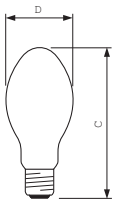
• Product Data

Order code	928155209830
Full product code	928155209830
Full product name	SON Comfort 400W/621 E40 1SL
Order product name	SON Comfort 400W/621 E40 1SL/12
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500182227
Bar code on outerbox - EAN3	8711500195944
Logistic code(s) - 12NC	928155209830
ILCOS code	SEM-400-H/E-E40
Net weight per piece	0.240 kg

Warnings and Safety

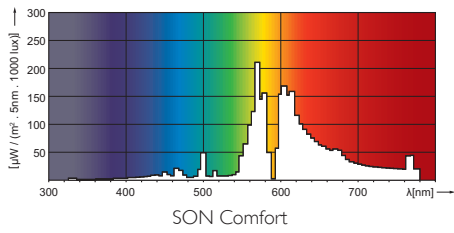
- Control gear must include end-of-life protection (IEC60662, IEC 62035)

Dimensional drawing



Product	C (Max)	D (Max)
SON Comfort 400W/621 E40	290	121.5

Photometric data



Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

1.3 Product information requirements on lamps

- a) Nominal and rated lamp wattage;
- b) Nominal and rated lamp luminous flux;
- c) Rated lamp efficacy at 100 h in standard conditions.
- d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- f) Lamp mercury content as XX mg;
- g) Colour Rendering Index (Ra) of the lamp;
- h) Colour temperature of the lamp;
- i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;

For more information see <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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data subject to change