



SON

SON 70W/220 I E27 1CT/24

High Pressure Sodium lamp with opalized ovoid outer bulb

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.

Product data

| General Information | |
|------------------------------|-----------------------------------|
| Cap base | E27 [E27] |
| Operating position | UNIVERSAL [Any or Universal (U)] |
| Life to 5% failures (nom.) | 10000 h |
| Life to 10% failures (nom.) | 13000 h |
| Life to 20% failures (nom.) | 18000 h |
| Life to 50% failures (nom.) | 28000 h |
| System description | Internal Ignitor (I) |
| LSF 2000 h Rated | 99 % |
| LSF 4000 h Rated | 99 % |
| LSF 6000 h Rated | 98 % |
| LSF 8000 h Rated | 97 % |
| LSF 12000 h Rated | 92 % |
| LSF 16000 h Rated | 84 % |
| LSF 20000 h Rated | 74 % |
| Light Technical | |
| Colour Code | 220 [CCT of 2,000 K] |
| Luminous flux (rated) (min.) | 5040 lm |
| Luminous flux (rated) (nom.) | 5600 lm |

| | |
|---------------------------------------|---------|
| Lumen maintenance 10,000 hours (min.) | 70 % |
| Lumen maintenance 10,000 hours (nom.) | 81 % |
| Lumen maintenance 2,000 hours (min.) | 80 % |
| Lumen maintenance 2,000 hours (nom.) | 88 % |
| Lumen maintenance 20,000 hours | 78 % |
| Lumen maintenance 5,000 hours (min.) | 75 % |
| Lumen maintenance 5,000 hours (nom.) | 83.5 % |
| Chromaticity coordinate X (nom.) | 540 |
| Chromaticity coordinate Y (nom.) | 415 |
| Correlated Colour Temperature (Nom) | 2000 K |
| Luminous efficacy (rated) (nom.) | 80 lm/W |
| Color rendering index (max.) | 25 |
| Colour rendering index (nom.) | - |
| LLMF 2000 h Rated | 88 % |
| LLMF 4000 h Rated | 84 % |
| LLMF 6000 h Rated | 83 % |
| LLMF 8000 h Rated | 81 % |
| LLMF 12000 h Rated | 80 % |
| LLMF 16000 h Rated | 79 % |

| | |
|--------------------|------|
| LLMF 20000 h Rated | 78 % |
|--------------------|------|

Operating and Electrical

| | |
|--------------------------------|--------|
| Power (Rated) (Nom) | 70.0 W |
| Lamp current (EM) (nom.) | 0.98 A |
| Ignition supply voltage (max.) | 198 V |
| Voltage (Max) | 105 V |
| Voltage (Min) | 75 V |
| Voltage (Nom) | 90 V |

Controls and Dimming

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|----------|-----|
| Dimmable | Yes |
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Mechanical and Housing

| | |
|-------------|--------------|
| Lamp Finish | Coated glass |
|-------------|--------------|

Approval and Application

| | |
|-------------------------------|---------|
| Energy efficiency label (EEL) | A |
| Mercury (Hg) content (nom.) | 16.3 mg |

| | |
|------------------------------------|--------|
| Energy consumption kWh/1,000 hours | 77 kWh |
|------------------------------------|--------|

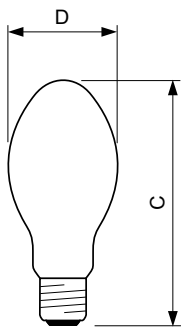
Luminaire Design Requirements

| | |
|-----------------------------|--------|
| Bulb temperature (max.) | 350 °C |
| Cap-base temperature (max.) | 200 °C |

Product Data

| | |
|-----------------------------------|--------------------------|
| Full product code | 871150018186230 |
| Order product name | SON 70W/220 I E27 1CT/24 |
| EAN/UPC – product | 8711500181862 |
| Order code | 18186230 |
| SAP numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 24 |
| SAP material | 928150108828 |
| SAP net weight (piece) | 0.065 kg |
| ILCOS code | SE-70-H/I-E27 |

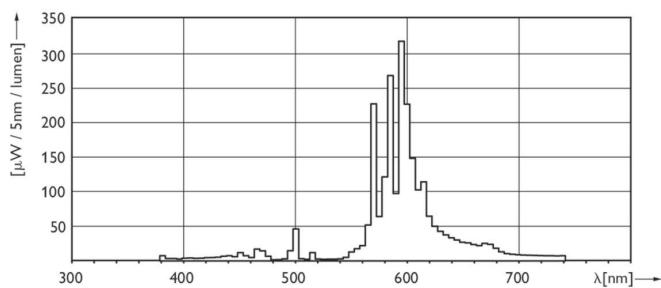
Dimensional drawing



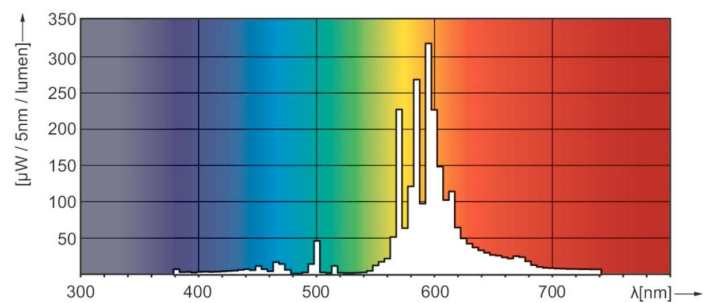
SON 70W/220 I E27

| Product | D (max) | C (max) |
|--------------------------|---------|---------|
| SON 70W/220 I E27 1CT/24 | 71 mm | 155 mm |

Photometric data

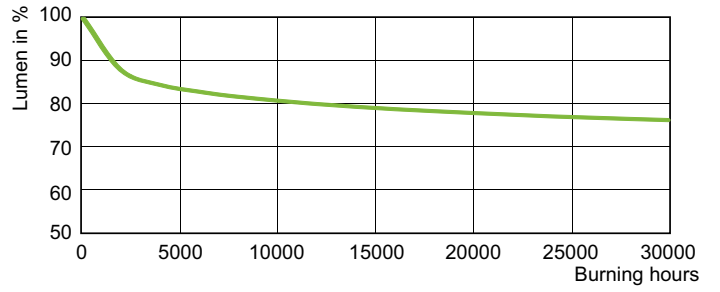
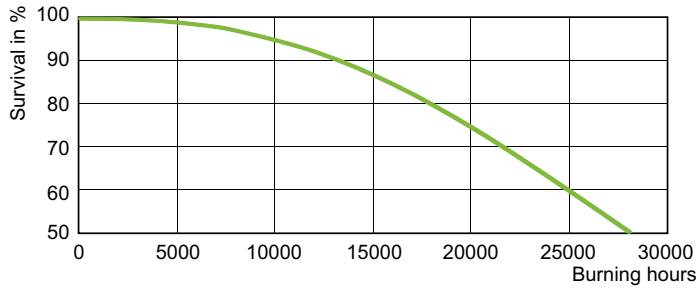


LDPB_SON-I_50W_70W-Spectral power distribution B/W



LDPO_SON-I_50W_70W-Spectral power distribution Colour

Lifetime



LDLE_SON-I_50W_70W-Life expectancy diagram

LDLM_SON-I_50W_70W-Lumen maintenance diagram

