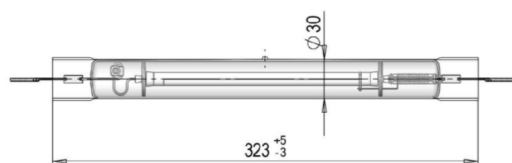


# HORTURION HPS 1000 W DE EL 2.2

## High pressure sodium lamp for plant growth

<b>Application</b>	<b>Efficient grow lighting for professional greenhouses and turf lighting.</b>
<b>Description</b>	<ul style="list-style-type: none"> <li>• Spectral distribution optimized for photosynthesis efficiency</li> <li>• High red light ratio and blue output for healthy plant growth and robustness</li> <li>• Superior <math>\mu\text{mol}</math> output within the PAR spectral range (Photosynthesis Active Radiation)</li> <li>• High PAR maintenance over lifetime</li> <li>• Easy lamp change</li> </ul>

### 1. Specifications



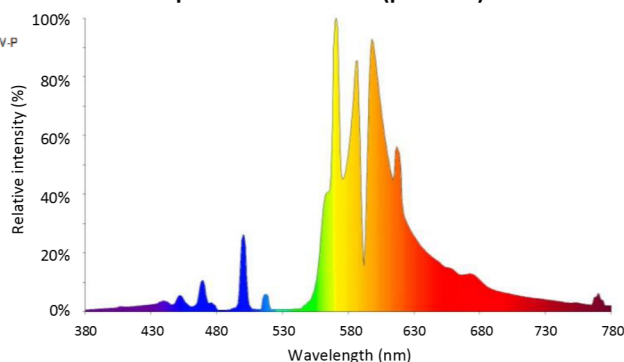
Designation	HPS 1000 W DE EL 2.2
Part number	216310
ILCOS-Code	ST-1000-E230/S-Litze-33,5/330

Lamp power	1 000 W
Lamp current	4,35 A
Lamp voltage	230 V
Ignition voltage	3,2 kV (peak to earth)

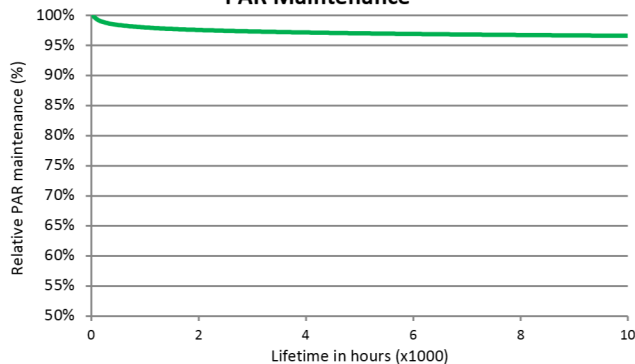
PAR	2 100 $\mu\text{mol/s}$
Service lifetime	10 000 h

Power supply (PS)	1000 W electronic / 100-150 kHz
PS output power	1 015 W
Base	cables for lamp holder K12x30S
Bulb contour	tubular
Bulb type	clear

**Spectral distribution (per 5nm)**

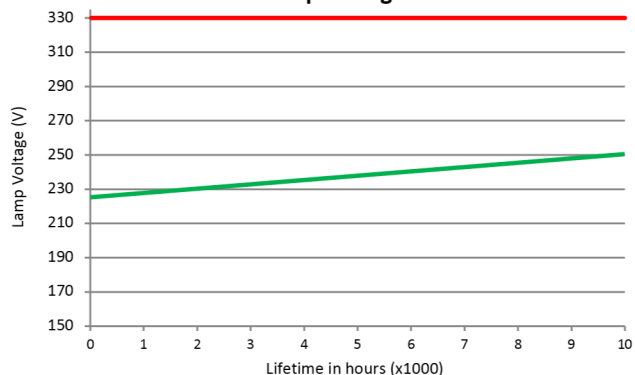


**PAR Maintenance**



— BLV HORTURION HPS 1000W DE EL (the trend line is based on tests under defined and stable laboratory conditions. Measurements are performed on naked lamps in a Ulbricht sphere with a Licor LI 190)

**Lamp Voltage**



— Electronic Control gear safety switch off  
— BLV HORTURION HPS 1000W DE EL 2.2 (the measurements are performed in a Ulbricht sphere with a Net frequency of 50Hz and a configured lamp power of 1000W)

## 2. Safety instructions for the operation of lamps in luminaires

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- Only operate the lamp in its designated operating position.
  - Operating a lamp beyond its rated useful life is not recommended. The risk of a lamp burst increases with lamp age, temperature, improper operation and improper handling.
  - Always use lamps in their intended luminaires, e.g. only in open luminaires as a closed luminaires will overheat the lamp.
  - Do not use the lamp in close proximity of paper, cloth or other combustible material that can cause a fire hazard.
  - Never touch the lamp when it is on, or soon after it has been turned off, as it is hot and will cause serious burns. Lamps should be allowed to cool down for a minimum of 10 minutes after the lamp is switched
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