

# Horticulture 1000W Lamp

## DNAT 1000W400V (Talea)

High pressure sodium lamp 1000 Watt especially for horticultural lighting.

### Product features:

- Ideal for assimilation lighting in horticulture
- Optimized filling with adapted spectra for profitable plant growth
- Photon flux 2100 µmol/s ; Photon flux efficacy 2,06 µmol/s/W
- Lamp replacement after 10.000 hours is recommended in order to ensure an optimal and continuous growth
- Durable ceramic arc tube with sintered ignition system and flexible mounting of the burner for longer lamp life
- For use on high frequency ECCG only



### Technical Specifications

Lamp wattage*	1020 W
System wattage:	1056 W
Lampe voltage (in luminaire):	230 V
Ignition voltage:	2,3 kV
Photon flux:	2100 µmol/s
Photon flux efficacy:	2.06 µmol/s/W
Recommended use time: (< 10% failure, Photon flux > 95%)	10.000 h
Burning position:	Horizontal
Max. permitted pinch temp.:	250 °C
Max. permitted bulb temp.:	700 °C
Diameter max. d.:	38,0 mm
Total length max. l.:	394 mm
Base:	K12x30s
Hg content:	52,8 mg
Standard pack:	1 piece

\*Data based on switching cycle 1h on/1h off @ High Frequency ECCG operation

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DATASHEET

## HORTURION HPS 1000 W DE EL 2.2

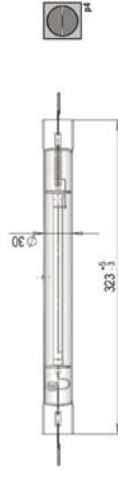
### High pressure sodium lamp for plant growth

**Application** Efficient grow lighting for professional greenhouses and turf lighting.

### Description

- Spectral distribution optimized for photosynthesis efficiency
- High red light ratio and blue output for healthy plant growth and robustness
- Superior µmol output within the PAR spectral range (Photosynthesis Active Radiation)
- High PAR maintenance over lifetime
- Easy lamp change

### 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 µmol/s  
Service lifetime 10 000 h

Power supply (PS) 1 000 W electronic / 100-150 kHz

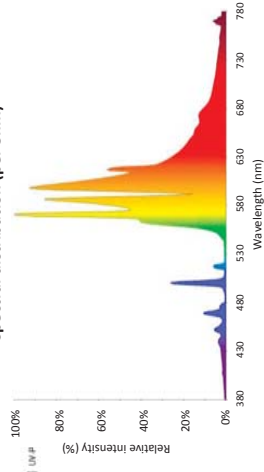
PS output power 1 015 W

Base cables for lamp holder K12x30S

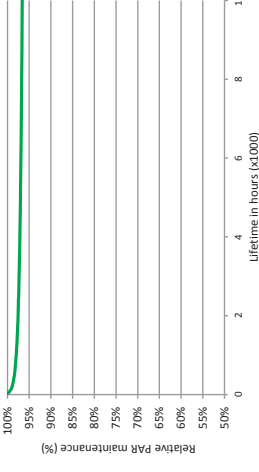
Bulb contour tubular

Bulb type clear

### Spectral distribution (per 5nm)

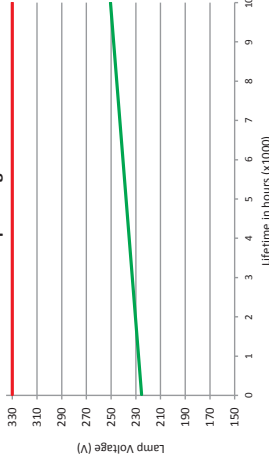


### PAR Maintenance



BLV HORTURION HPS 1000W DE EL (the trend line is based on tests under defined and stable laboratory conditions. Measurement are performed on naked lamps in a Ulbricht sphere with a LiCor 1130)

### 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 configure lamp power of 1000W)

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BLV reserves the right to make technical changes at any time without prior notice. All data are nominal values and are subject to the usual tolerances.

VO2-022018

# HORTURION HPS 600W 400V E40 EL +

High pressure sodium lamp for plant growth

**Application** Efficient grow lighting for professional greenhouses and turf lighting.

- Description**
- Spectral distribution optimized for photosynthesis efficiency
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  - Superior µmol output within the PAR spectral range (Photosynthesis Active Radiation)
  - High PAR maintenance over lifetime
  - Easy lamp change

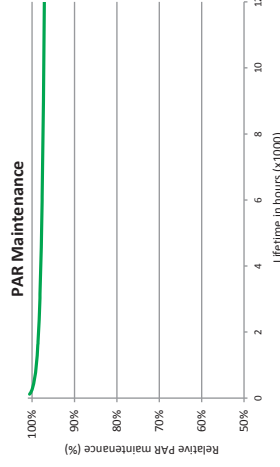
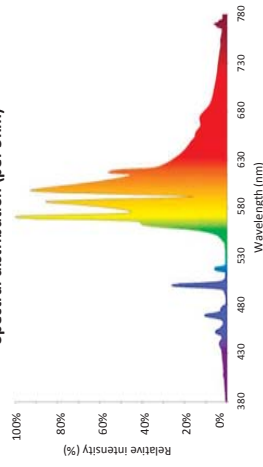
## 1. Specifications



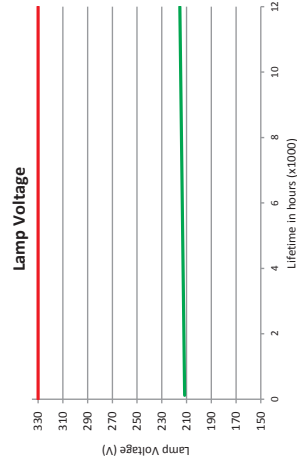
**Designation** HPS 600W/400V E40 EL +  
**Part number** 216204  
**ILCOS-Code** ST-600-E190/S-E40-4/6/290

**Lamp power** 600 W  
**Lamp current** 3,6 A  
**Lamp voltage** 210 V (nom.)  
**Ignition voltage** 4 kV (peak to earth)  
**PAR** 1 150 µmol/s  
**Service lifetime** 12 000 h  
**Power supply (PS)** 600 W electronic / 100–150 kHz  
**Base** E40  
**Bulb contour** tubular  
**Bulb type** clear

Spectral distribution (per 5nm)



— BLV HORTURION HPS 600W/400V E40 EL + (The red line is based on tests under laboratory conditions. Measurements are performed on sealed lamps in a ultrahigh sphere with a diameter of 1.50 m.)



— Electronic Control gear safety switch off  
 — BLV HORTURION HPS 600W/400V E40 EL + (The measurements are performed in a ultrahigh sphere with a net frequency of 50 Hz and a configured lamp power of 600 W.)

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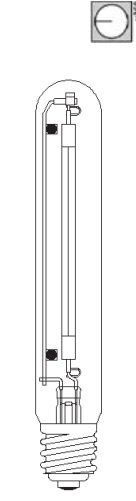
[www.talealighting.ru](http://www.talealighting.ru)

High pressure sodium lamp for plant growth

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  - High red light ratio and blue output for healthy plant growth and robustness
  - Superior µmol output within the PAR spectral range (Photosynthesis Active Radiation)
  - High PAR maintenance over lifetime
  - Easy lamp change

## 1. Specifications



**Designation** DNAT 600W400V

**Lamp power** 600 W  
**Lamp current** 3,6 A  
**Lamp voltage** 210 V  
**Ignition voltage** 4kV  
**Flux** 87500 lm  
**PAR** 1150 µmol/s  
**Rated lifetime** 18000 h

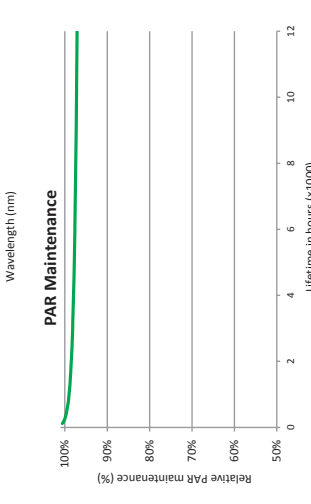
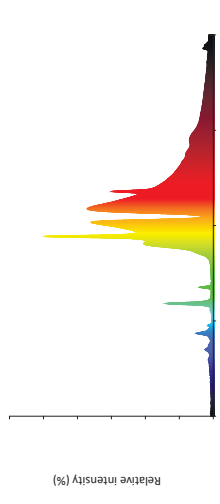
**Power supply(PS)** 600W electronic/100–150kHz

**Base** E40

**Bulb contour** tubular

**Bulb type** clear

Spectral distribution (per 5nm)



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