

# HORTURION HPS TL

Top lighting horticulture luminaire with HPS lamp 600 W / 750 W / 1000 W

Application	Top lighting for professional greenhouses and turf lighting.
Description	<ul style="list-style-type: none"> <li>• Series of highly efficient HPS luminaires, providing best-in-class PAR values and spectra for optimal plant growth</li> <li>• Modern, compact and solid design with built-in electronic power supply</li> <li>• Open reflector construction for optimum lamp temperatures and light distribution</li> <li>• Reflector material specially developed for horticulture application</li> </ul>

## 1. Specifications

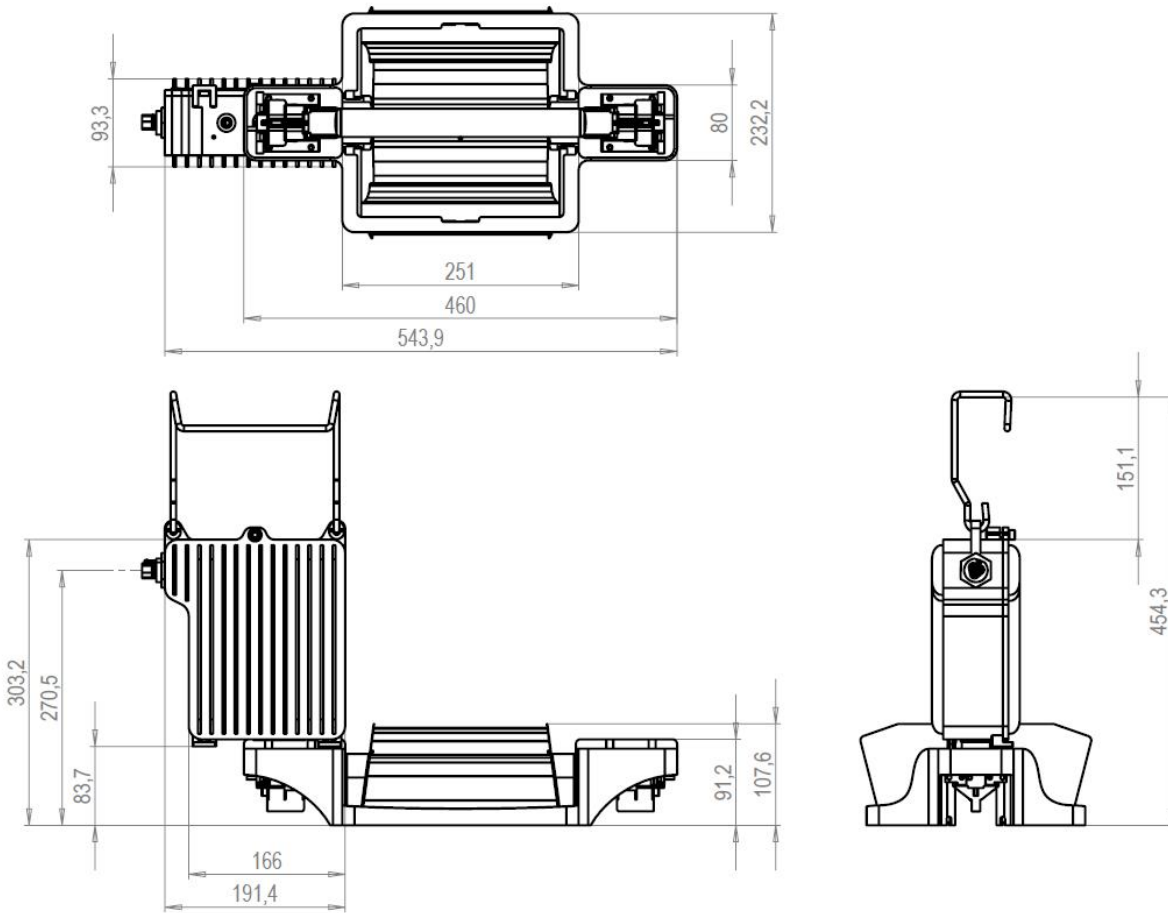


Designation	HORTURION HPS TL 600 / TL 750 / TL 1000
Supply voltage	400 V AC, 50/60 Hz
Power supply	Integrated BLV electronic power supply for optimal HORTURION lamp performance.
Electrical connection	Pre-assembled cable/connector, Wieland gesis® RST20i3 with 0,8 m cable, 1.5 mm <sup>2</sup> , open ends.
Ambient temperature	Max. +35 °C with relative humidity not exceeding 95%.
Weight	4,5 kg net
Protection class	IP23 for the reflector and IP65 for the control gear compartment
Housing	Die-cast aluminum (Al-226) providing optimum heat dissipation for electronic power supply. Housing powder coated, white RAL 9003, glossy finish.
Reflector	Made out of high reflectance aluminum. Open construction for optimum lamp temperatures, longer life time and optimized light distribution. Easily removable for cleaning purposes (no lamp removal or tools needed).

## 2. Versions

Designation	Art. no.	Rated power [W]	Power factor (min.)	Lamp
HORTURION HPS TL 600 W 400 V LRC	104246	621	0.97	HORTURION HPS 600 W DE EL
HORTURION HPS TL 750 W 400 V LRC	104248	776	0.97	HORTURION HPS 750 W DE EL
HORTURION HPS TL 1000 W 400 V LRC	104249	1.035	0.97	HORTURION HPS 1000 W DE EL 2.2

### 3. Dimensions



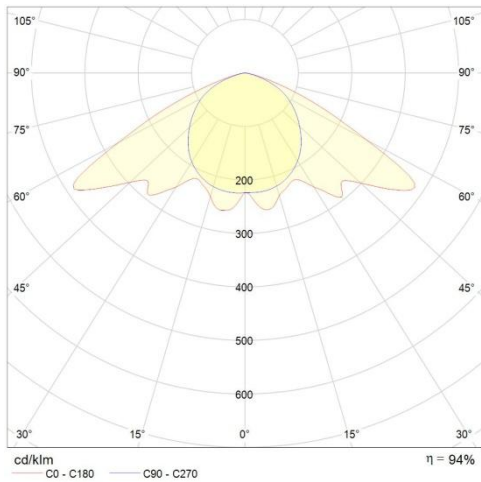
Note: Hook symbolizes example (customized depending on project)

### 4. Accessories

Designation	Art. no.
Suspension hook for the mounting of the luminaire	on request
Connection box for the electrical connection of the luminaire	104243

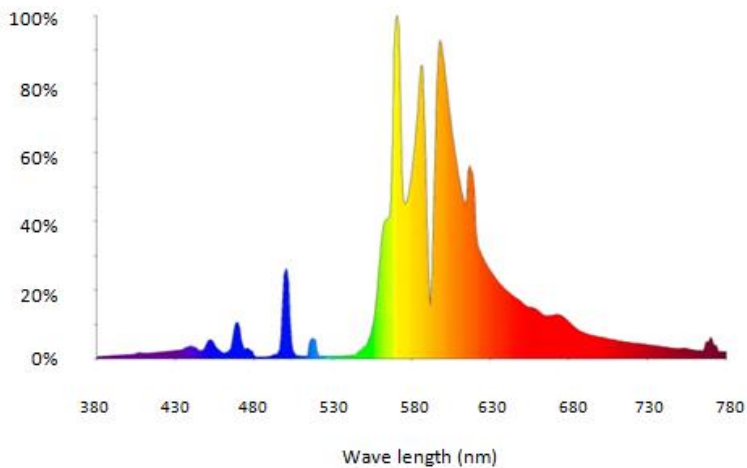
## 5. Light distribution curve

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## 6. Spectrum

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Spectral distribution per 5 nm

## 7. Conformity (for luminaires)

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Compliance with standards and directives (including all applicable amendments):

- Low voltage directive 2014/35/EU
- EMC directive 2014/30/EU
- RoHS directive 2011/65/EU
- EN 60598-1:2014
- EN 55015:2013
- EN 61000-3-2:2015
- EN 61000-3-3:2014
- EN 61547:2010
- EN 62471:2009-03

## 8. Inrush current and number of power supplies (luminaires) behind MCBs

The rating of the circuit breakers (MCBs) and fuses is mainly determined by the nominal power of the drivers. The fuses or MCBs should be de-rated in respect to the information of the manufacturer of these devices. Cable length and cable cross-section must be taken in concern. The table below must be seen as a guideline.

Maximum number of BLV HORTURION power supplies behind a three phase circuit breaker

Fuse Type	B10	B13	B16	B20	B25	B32
PS 1000 W 400 V	1x3(1,6)	2x3(2,6)	2x3(2,6)	3x3(3,2)	4x3(4,1)	5x3(5,2)
PS 750 W 400 V	1x3(1,6)	2x3(2,6)	2x3(2,6)	3x3(3,2)	4x3(4,1)	5x3(5,2)
PS 600 W 400 V	1x3(1,6)	2x3(2,6)	2x3(2,6)	3x3(3,2)	4x3(4,1)	5x3(5,2)
Fuse Type	C10	C13	C16	C20	C25	C32
PS 1000 W 400 V	2x3(2)	2x3(2,6)	3x3(3,2)	4x3(4)	5x3(5)	6x3(6,5)
PS 750 W 400 V	2x3(2,8)	3x3(3,2)	4x3(4,5)	5x3(5,6)	6x3(7)	8x3(8,9)
PS 600 W 400 V	2x3(2,8)	3x3(3,2)	4x3(4,5)	5x3(5,6)	6x3(7)	8x3(8,9)
Fuse Type	K10	K13	K16	K20	K25	K32
PS 1000 W 400 V	2x3(2)	2x3(2,6)	3x3(3,2)	4x3(4)	5x3(5)	6x3(6,5)
PS 750 W 400 V	3x3(3,1)	4x3(4)	4x3(4,9)	6x3(6,2)	7x3(7,7)	9x3(9,9)
PS 600 W 400 V	3x3(3,8)	5x3(5)	6x3(6,2)	7x3(7,7)	9x3(9,6)	12x3(12,3)

The Inrush current characteristic of the BLV HORTURION PS can be described as follows:

Inrush current nominal peak value:	19 A
Inrush current half-value time:	3 ms