



# LED GROW HORTI

- ✓ A 245W fixture available as either 230V or 400V
- ✓ Easy installation of the lightweight fixture with a plug-&-play solution (a cable is connected to your existing installation)
- ✓ Available with 4 different light profiles of the blue light, which are pre-programmed for the desired culture
- ✓ We guide you in the optimal diode composition, and make a lighting plan to ensure the right amount of light and light distribution
- ✓ Predominantly emits white working light making it easy to see the plants' colour
- ✓ Latest diode technology, which provides low power consumption and increased efficiency
- ✓ Designed for the humid climate of a growing environment - IP65
- ✓ LEDs improve plant growth and increase taste intensity of edible plants



## The simple and effective LED fixture

Grow Horti is a 245-watt LED fixture developed based on our many years' experience with LEDs and an increasing market demand for a simple, user-friendly and effective LED fixture. The fixture ensures simple and stable operations, and most importantly healthy and effective plant growth.

### Growth and climate - and more benefits

In the development of Grow Horti, growth and climate have naturally been considered carefully.

- The composition of the diode colors is adapted to the plant's needs (the photosynthetically active light), for improved growth.
- The fixture is equipped with an optical lens system ensuring a constant and precise light on the plant.
- The blue light may reduce the need for Plant Growth Regulation (PGR) and results in a more compact plant.
- LEDs do not emit much heat. The advantage is that by heating from an alternative heat source instead of the fixtures a healthy and uniform climate is ensured without large fluctuations in temperature.
- Long lifetime with no reduction of light output over time.
- Grow Horti can easily connect to any climate control regardless of brand and supplier.

### Grow Horti as a replacement for HPS

HPS is the traditional fixture used by many in the past. Grow Horti is developed as a good alternative for HPS and is the new generation of grow lights.

In addition to the already mentioned advantages of our LED lamp, the switch from HPS to LED also provides the following benefits:

- Grow Horti gives the same light amount as a 400 W HPS fixture.
- No need to change diodes (as you change bulbs in an HPS), which provides a significant saving.
- Grow Horti has a uniform light distribution on a larger area - just like an HPS fixture.

The next page shows the plant's lighting requirements and the spectral distribution for an HPS vs. and Grow Horti.

### Future-proof solution

With the long lifetime, resource savings, and improved plant growth, LED is a solid and future-proof investment.

We will gladly assist you with further guidance and a lighting plan, and of course with an offer, to provide you the full overview of upgrading your business.



## SPECIFICATIONS / LED GROW HORTI

### Technical specifications

Power input:	230 V AC or 400 V AC, 50/60 Hz
Nominal current:	1.15 A at 230 V and 0.65 A at 400 V
Power consumption:	245 Watt
Light output:	2,73 $\mu\text{mol/s}$ per Watt
Net weight:	3.5 kg
Dimensions L x W x H:	238 x 235 x 190 mm
Cable length:	2 M
Operating temperature:	0 - 40° C
Coverage:	Up to 12 m <sup>2</sup> (depending on installation height)
Light modulation range:	2 - 8 % blue light of total light
Green / white content:	From 4 - 13 % of total light depending on model

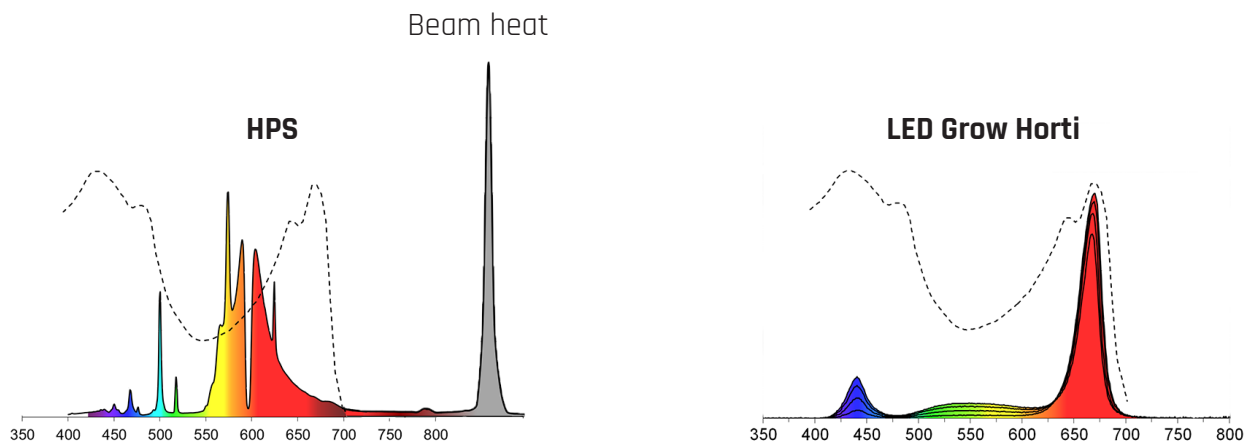
### Variants of Grow Horti

Light modulation range	230 V AC item no.	400 V AC item no.
2 % blue	490530	490580
4 % blue	490531	490581
6 % blue	490532	490582
8 % blue	490533	490583

### Mounting

- The fixture is delivered with cable and 2 fittings for hanging.

### HPS vs. LED - and the plant's light requirements



Dotted lines on the graphs indicate the active area of the photosynthesis - meaning the plants need for light.

Note the difference between the spectra (colours) of HPS and LED respectively. It is vital to know that especially red, somewhat blue and only quite a little green / yellow is essential for the plant's growth.

The HPS graph also shows the beam heat, which is difficult to control and thus contributes to an unstable growth environment.

### Distributor:

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