



# FL100 GROW FIXTURE

- ✓ Control of spectral composition and light intensity
- ✓ Consistent light on the plants due to a patented optical lens system
- ✓ Minimize the use of Plant Growth Regulation (PGR)
- ✓ Control the height of the plant
- ✓ Get better quality and higher output
- ✓ Long lifetime with no reduction of the light output
- ✓ Well suited for vertical farming, greenhouses and research



## The LED fixture emitting light in the photosynthetic active region of the visible light spectrum

### About FL100 Grow

FL100 Grow is suitable for growing in layers, can be interconnected - and is very suited for vertical farming. Also, the LED solutions suit most modern production greenhouses in the world and are designed to withstand the harsh environment of a glass house.

The minimalist design means easy installation using standard technology, and with a minimal shadow footprint, the FL100 Grow is able to produce good quality plants year round - year after year.

- Innovative solution for growing in layers for vertical farming - fixtures can be interconnected
- The natural replacement for the conventional HPS systems
- Get a specific lighting plan based on your plant's need for lighting

### Controllable spectrum and light intensity

One of the major benefits of this fixture is the ability for control.

- Investing in a controllable LED fixture means you always have the option to change the light to keep up with

new research findings, a new culture/culture stage, or simply to dim the fixture when less light is required.

- Simply put, an investment in the FL100 will not leave you with a fixed spectrum but lead to endless possibilities.

### System for control of the LED installation

- The light spectrum can be designed for individual crops in combination with LCC4 climate control systems.
- An alternative to the LCC4 climate control system is a small Control Unit which controls up to 49 fixtures.
- A further alternative is the LED Light Controller, which can be connected with your climate computer from another provider. That way you can maintain the full control of your LED installation.

### 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 light plan, and of course with an offer, to provide you the full overview of upgrading your business.

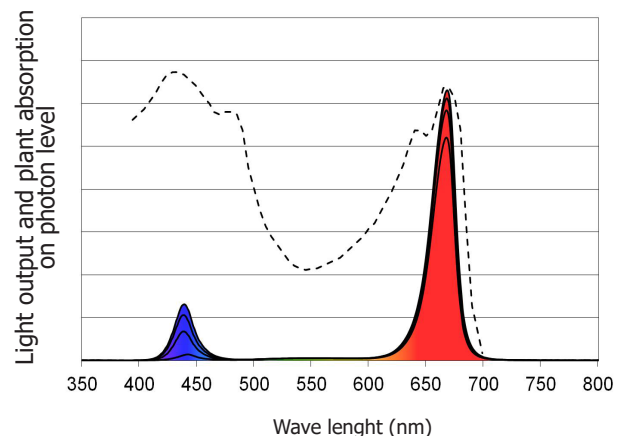


## SPECIFICATIONS / FL100 GROW FIXTURE - VERSION 1.2

Parameter	
Power input	400V AC / 50/60 Hz (380 - 480 V AC)
Nominal current	0.4 A
Power usage	75 - 150 watt (adjustable via controller)
Light output from fixture	2.96 $\mu\text{mol/s}$ per Watt*
PPF	444 $\mu\text{mol/s}$
Light output from diodes	3.24 $\mu\text{mol/j}$
Net weight	3 kg
Dimensions L x W x H	1165 x 67 x 90 mm
Operating temperature	0 - 40° C
Coverage	Up to 12 m <sup>2</sup> (depending on light intensity)
Light modulation range	From 2 - 14 % blue light of total light
Green / white content	From 1 - 5 % of total light*

\* Depending on the spectral settings

The FL100 Grow is designed with an optical lens system that enables a traditional installation plan similar to HPS with homogenous distribution profile on plant level - but with less waste of light.



*Spectral distribution of FL100 Grow together with a general action spectrum of plants. Spectral distribution for FL100 shown for 2, 6, 10, 14 % blue*

### FL100 Grow - Light Modulation Range

	75W	100W	125W	150W
2 % blue			✓	✓
4 % blue		✓	✓	✓
6 % blue		✓	✓	✓
8 % blue	✓	✓	✓	✓
10 % blue	✓	✓	✓	✓
12 % blue	✓	✓	✓	✓
14 % blue	✓	✓	✓	✓

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