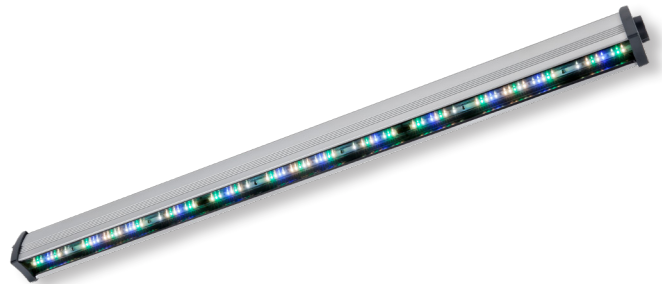




# FL100 SUNLIGHT FIXTURE

- ✓ Control of light intensity
- ✓ Spectral distribution similar to the sun
- ✓ Consistent light on the plants due to a patented optical lens system
- ✓ Better plant quality and higher output
- ✓ Long lifetime with no reduction of the light output
- ✓ Well suited for vertical farming, indoor green areas, climate chambers, research and garden centers



## The LED fixture replicating the sunlight

### About FL100 Sunlight

The FL100 basic fixture can be equipped with a large range of different diodes, and to accommodate an increasing demand from our customers ranging from plant researchers to garden centers, we created a spectrum designed to replicate the light coming from the sun.

- The minimalist design means easy installation using standard connection technology, and with a minimal shadow footprint.
- The natural replacement for the conventional HPS systems
- Get a specific lighting plan based on your plant's need for lighting

### Controllable 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.

- The FL100 Sunlight is recommended for growth chamber applications where natural light is important or for supplementary lighting where colour recognition is important; for instance, in a garden center.

### System for control of the LED installation

- The light intensity can be customized 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 SUNLIGHT FIXTURE - VERSION 1.2

### Parameters

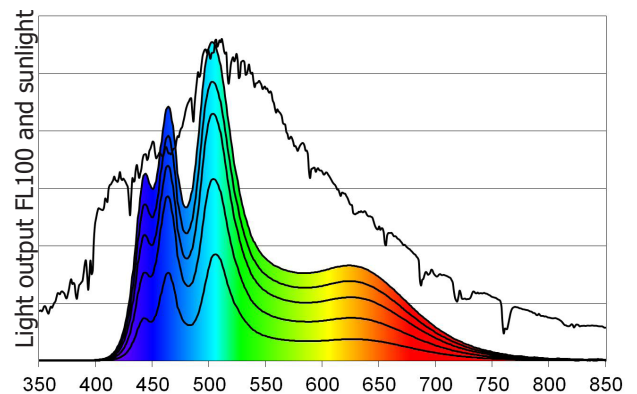
Power input	400V AC / 50/60 Hz (380 - 480 V AC)
Nominal current	0.4 A
Power usage	50 - 150 watt
Light output from fixture	1.74 $\mu\text{mol/s}$ per Watt
PPF	261 $\mu\text{mol/s}$
Light output from diodes	1.91 $\mu\text{mol/j}$
Net weight	3 kg
Dimensions L x W x H	1165 x 67 x 90 mm
Operating temperature	0 - 40° C
Coverage	Up to 12 m <sup>2</sup> (depending on light intensity)
Light modulation range	From 30 - 100 % intensity
Green / white content	See table below

### % Light in terms of total PAR Light

	Natural sunlight	FL100 Sunlight
400 - 500 nm	33 %	33 %
500 - 600 nm	41 %	40 %
600 - 700 nm	26 %	27 %

When evaluating possible LED solutions it is important to check on two parameters: Temperature of the LED when the fixture is running and the distribution profile on your plants.

The FL100 Sunlight 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 Sunlight together with a spectral profile of sunlight.*

### Distributor:

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