



# FL100 SUNLIGHT FIXTURE

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## The LED fixture replicating the sunlight

### Highlights

- Dynamic control of the light intensity
- Energy saving
- Generates a minimum of heat
- Fixtures can be interconnected
- Innovative solution for growing in layers
- Danish designed, developed and manufactured

The FL100 basis 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 minimalistic design means easy installation using standard connection technology, and with a minimal shadow footprint. This makes it a natural replacement to the conventional mercury and fluorescent systems used today. New legislation for mercury lamps means this is a good time to invest in the updated and energy-friendly solution that the FL100 Sunlight provides.

### Controllable

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 boasts a spectrum with an almost perfect match of the rays of the sun – hence the name FL100 Sunlight. 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.

### Control systems

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.



## SPECIFICATIONS / FL100 SUNLIGHT FIXTURE

### Parameters

Power input	400 V AC / 50/60 Hz (380 - 480 V AC)
Nominal current	0.4 A
Power usage	50 - 150 watt
Light output	Up to 1.3 $\mu\text{mol/s}$ per Watt*
Net weight	3 kg
Dimensions L x W x H	1165 x 67 x 90 mm
Operating temperature	0 - 40° C
Light intensity decay	At least 70,000 hours at L80B10
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

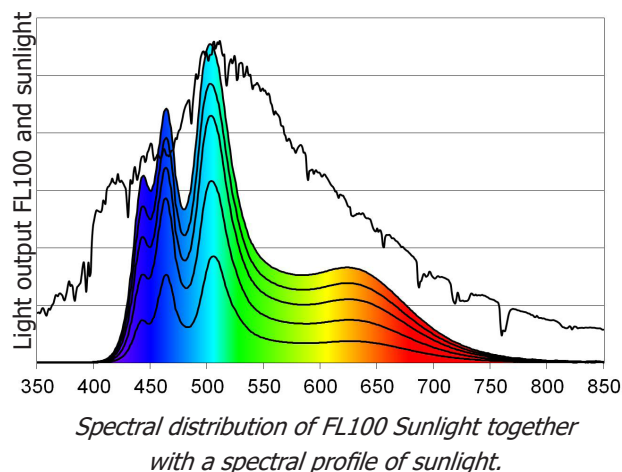
\*Depending on light modulation

### % Light in terms of total PAR Light

	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.



### Distributor:

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