



FL100 GROW WHITE FIXTURE



The LED fixture well suited for areas with special lighting requirements and for vertical farming

Highlights

- Control of spectral composition
- Dynamic control of the light intensity
- Innovative solution for growing in layers for vertical farming - fixtures can be interconnected
- The natural replacement for the conventional HPS systems
- Minimize the use of Plant Growth Regulation (PGR)
- Control the intensity of the taste of herbs and strawberries
- Control the height of the plant
- Long lifetime with no reduction of the light output
- Consistent light on the plants due to an optical lens system (patent pending)
- Get a specific lighting plan based on your need for lighting

About FL100 Grow White

The FL100 Grow White LED top-light is a fixture emitting light in the photosynthetic active region of the visible light spectrum. The Grow White spectrum was developed by growers with special lighting requirements and offers a full continuous spectrum. It is a combination of the Grow and the Sunlight spectrum, and combines the best of both worlds. This spectrum is used in production areas where a higher photosynthetic activity is required, or by growers requiring supplementary lighting where colour recognition and rapid, healthy growth are key factors.

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

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.



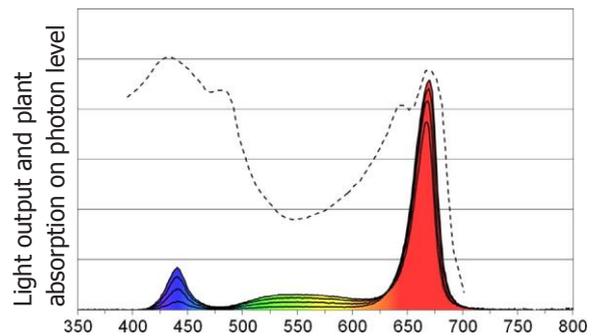
SPECIFICATIONS / FL100 GROW WHITE FIXTURE

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 2.3 $\mu\text{mol/s}$ 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 ² (depending on light intensity)
Light modulation range	From 4 - 14 % blue light of total light
Green / white content	From 5 - 22 % of total light*

*Depending on light modulation

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

FL100 Grow White - Light Modulation Range

	50W	75W	100W	125W	150W
4 % blue			✓	✓	✓
6 % blue		✓	✓	✓	✓
8 % blue		✓	✓	✓	
10 % blue	✓	✓	✓		
12 % blue		✓	✓		
14 % blue		✓			

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