



FL100 GROW WHITE FIXTURE



The LED fixture for special lighting requirements

Highlights

- Dynamic control of the light intensity and spectral composition
- Innovative solution for growing in layers
- Energy saving up to 50 %
- Generates a minimum of heat
- Fixtures can be interconnected
- Danish designed, developed and manufactured

The FL100 Grow White LED emits light in the photosynthetic active region of the visible light spectrum. Our solutions suit most modern production greenhouses in the world and are designed to withstand the harsh environment of a glass house.

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

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.

Where to use Grow White

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 Sun-light 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.



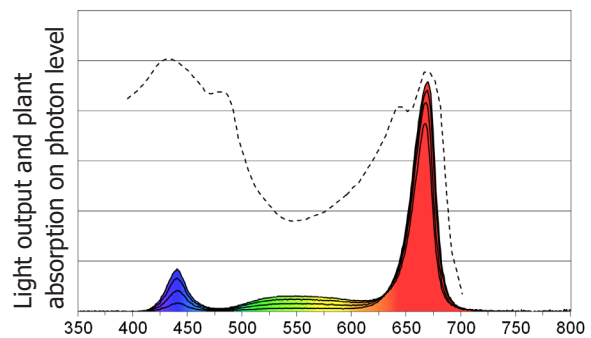
SPECIFICATIONS / FL100 GROW WHITE FIXTURE

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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