

SolarLUX Lighting Solutions

100W LED UFO

Technical Specification

Release Version: V1.0

Release Date: 2021/01/01

Main advantages LED UFO

1. High efficiency and Energy saving

The LED UFO is a high efficiency LED grow light. Tests have shown that LED grow lights give plants greater light intensity and grow rates than standard HPS grow lights, yet using only 30% to 50% of the electricity.

2. Long lifespan

The LEDs used for the LED UFO are SMD LEDs for Horticulture environment, like high humidity and severe temperature. The LEDs are also computer SMT mounted to the PCB, which guaranties high quality and high reliability with a lifespan up to 30.000 hours

3. Setup required

The LED UFO requires a simple setup. A power cord needs to be connected to the LED Driver. After connecting a power cord, the LED UFO can be plugged directly into AC85 to AC265 Volts power socket.

4. Waterproof

The LED UFO is IP65 waterproof. The LEDs are attached to the aluminum frame and protected by the sealed lens.

5. SSP technology and electrical protection

The LED UFO uses SSP technology. SSP technology restricts the DC output voltage to never be higher than the LED chips Voltage. It avoids the LEDs from higher voltage shocking. The power design is also lighting- and surge-proof.

6. SPC technology for excellent performance

SPC technology guarantees the LED UFO is more stable. If any of the LED chips does fault, it will not affect other LEDs. The high quality SSP and SPC design makes the LED UFO solid and safe.

7. Advanced thermal design

The LEDs are passively cooled by the aluminum frame of the LED UFO. The aluminum PCB is directly attached to the aluminum body of the LED UFO for excellent heat dissipation. Passive LED cooling is preferred above active cooling. No moving parts are needed, which is energy efficient and requires no maintenance.

8. Powerful full spectrum

The LED UFO is provided a 5 band full-spectrum, composed of:

- 450nm, 660nm and 730nm single wavelength LEDs;
- 2700K and 6500K broad spectrum LEDs.

The high power SMD LEDs do have a 2,3 $\mu\text{mol/J}$ efficiency per Watt.

9. Environment friendly

A LED UFO doesn't contain the harmful substance HPS & MH have; no hazardous waste to deal with which makes our earth cleaner and greener. LEDs are superior in comparison to other lighting technologies in terms of negative environmental and health effects during the manufacturing process. Producing LEDs consumes far less energy than manufacturing other lighting and it was noted the LEDs contain no mercury and few if any toxins such as iodine and lead.

Picture LED UFO

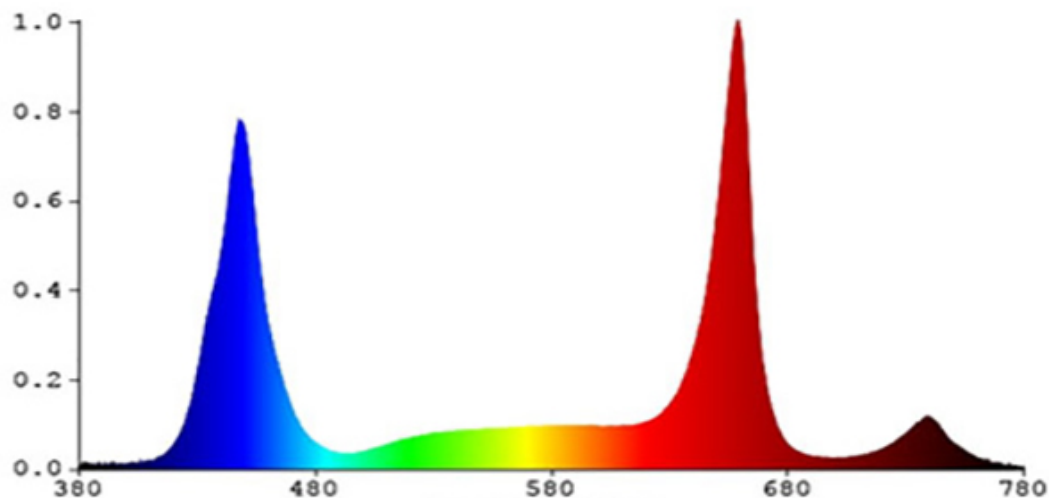


1. *A SolarLUX LED UFO is suitable for indoor and greenhouse lighting.*
2. *The 100W LED UFO replaces a 150W - 250W HPS grow light.*
3. *Ideal for all phases of plant growth and works well in any garden, either hydroponics or soil based.*
4. *Uses a full spectrum required for plants photosynthesis.*
5. *OEM/ODM or customized integrated grow lighting solutions are available on request.*

Features LED UFO



Spectrum LED UFO



Technical specification 100W LED UFO

Item	Value	Item	Value
LED diodes	SMD	LED Driver	MeanWell
LED amount	120 pieces	Power factor	> 95%
LED wavelength	Full-spectrum	Power consumption	~ 100 Watt
Light distribution	90° beam angle	Dim control	No
Lifespan	> 30.000 hours	Voltage AC	85V – 265V
Height above plants	≥ 15 cm	Work frequency	50Hz / 60Hz
Lighting area	0,30 to 0,70 m2	Working environment	-20 ~ + 40°C
LED Efficiency	2,30 μmol / J	Waterproof level	IP65
LED UFO size	Ø245*120 mm	Weight	2,5 Kg

Certification and Warranty of LED UFO Series



Note:

1. Select different lighting time depending on plant species.
2. Don't look into the LED light directly without wearing sunglasses.
3. Power socket should be connected to the ground/earth.
4. Good after sales service; 2 year warranty*.

* Warranty according EU directive 2009/125/EG.