

SPECTRABOX UFO SERIES

100W Spectrabox UFO

Technical Specification

**100 W**

POWER

~2.8 $\mu\text{mol/J}$

EFFICACY

120°

OPTICAL LENS

IP66

PROTECTION

Full plant spectrum • 0-10V dimming • passive cooling • plug & play

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PERFORMANCE

Compact, robust and efficient plant lighting

The Spectrabox UFO is a compact full-spectrum LED grow light with optical beam control, 0-10V dimming, IP66 protection and a maintenance-free passive thermal design.

01 High efficiency

High-quality LEDs provide approximately 2.8 $\mu\text{mol/J}$ for efficient horticultural lighting.

03 0-10V dimming

An optional 0-10V dimmer allows light intensity to be matched to plant requirements throughout the growth cycle.

05 Plug & play

No separate reflector or ballast is required. The fixture connects directly to a compatible grounded AC outlet.

07 Passive thermal design

The aluminium circuit board is mounted directly to the aluminium heat sink for efficient heat dissipation without moving parts.

02 High PAR output

A standard 120° optical lens supports broad distribution and penetration; a 90° lens is optionally available.

04 IP66 waterproof

The LEDs are mounted to the aluminium frame and sealed by the high-quality optical lens.

06 SMT & SPC technology

LED mounting and drive technology are designed for long life, stable operation and high PAR output.

08 Low maintenance

Fanless cooling means no moving cooling components and minimal maintenance requirements.

APPLICATION

Suitable for indoor greenhouse and dark-room lighting, hydroponic and soil cultivation, and all phases of plant growth.

ENVIRONMENT

The Drone series avoids mercury, iodine and lead used in some traditional lamp technologies and reduces energy demand through LED operation.

THERMAL DESIGN

Large aluminium heat sink for passive cooling

**PASSIVE ALUMINIUM COOLING**

The finned aluminium housing acts as the heat sink. Keep sufficient free space around the fixture so warm air can rise and cooling airflow is not obstructed.

**COMPACT UFO HOUSING**

A robust circular housing combines the LED module, optical lens and suspension point in a compact plug-and-play fixture.

OPTICAL SYSTEM

120° standard beam • 90° optional

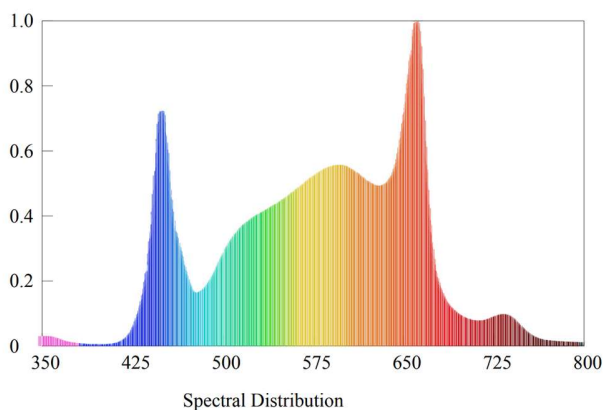
The optical lens is designed to combine a broad footprint with useful penetration. The complete plant spectrum is delivered through the sealed lens assembly while the IP66 construction protects the LED system in demanding cultivation environments.

INSTALLATION & SAFETY

- Connect only to a grounded electrical outlet.
- Do not look directly into the operating fixture; use appropriate eye protection.
- Set lighting duration and intensity according to crop species and growth phase.

LIGHT & SPECIFICATION

Spectrum and technical data



FULL PLANT SPECTRUM

3000K + 6000K
660 nm + 730 nm

Designed to support the complete cultivation cycle with broad white light plus red and far-red wavelengths.

ITEM	VALUE	ITEM	VALUE
LED chips	3030 Seoul / Samsung	Power consumption	~ 100 Watt
LED driver	Sosen	Power factor	> 96%
LED wavelength	Full-spectrum	Dim control	0-10V
Optic lens	120° beam angle	Voltage	100-277 V
LED efficacy	~ 2.8 µmol/J	Frequency	50/60 Hz
Height above plants	> 100 mm	Working environment	-20 to +40 °C
Estimated lifespan	50,000 hours	Waterproof level	IP66
Fixture size	Ø 260 × 110 mm	Weight	2.5 kg

CERTIFICATIONS & WARRANTY



**3 YEAR
WARRANTY**

www.ledflowergrowlights.nl