



Led Flower Growlights

Technical Specifications

100W Spectrabox BB

Release date: 2022/04/01



Spectrabox

Advantages Spectrabox BB

1. High efficiency and Energy saving

The 100W Spectrabox BB (BumbleBee) is a highly efficient 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 50% of the electricity.

2. Long lifespan

The LEDs used for the Spectrabox BB are Samsung's Horticulture Series LEDs. The Samsung LEDs are especially developed for Horticulture environment, which ensures the LEDs are resilient against severe temperature, humidity and exposure to chemicals. This guarantees high light-output, high quality and high reliability with a long lifespan.

3. High PAR light output

The Spectrabox BB is provided with high efficiency Samsung LEDs, with a LED efficacy of about 2,8 $\mu\text{mol}/\text{J}$. The LEDs are covered by lenses to increase the light penetration and ensure a high PAR level at the lowest buds.

4. Dim function

The Spectrabox BB is a no-nonsense LED Grow Light, provided with a full plant spectrum. With a simple dimmer the light intensity can be adjusted to the need of plants during all phases of plant growth.

5. Waterproof

The Spectrabox BB is IP66 waterproof (LED Driver IP67). The LEDs are attached to the aluminum frame and waterproof sealed by the high-quality lenses.

7. Plug and Play

No setup required; no reflector and ballast are needed. A Spectrabox is a plug- and play grow light. Just plug directly into a grounded AC110 or AC230 Volts power socket, which makes the installation safe and simple.

6. SMT & SPC technology

The high-power Samsung Horticulture LEDs are mounted by computer controlled SMT technology and driven at a safe amperage to ensure a long lifespan at best PAR light output. SPC technology guarantees the Spectrabox BB will work stable, even if any of the LEDs fail, it will not affect other LEDs.

8. Advanced thermal design

The LEDs are passively cooled by the innovative aluminum heatsink. The aluminum PCB is directly attached to the aluminum frame of the Spectrabox BB 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.

10. Environment friendly

The Spectrabox BB Series 2 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.

Application 100W Spectrabox BB

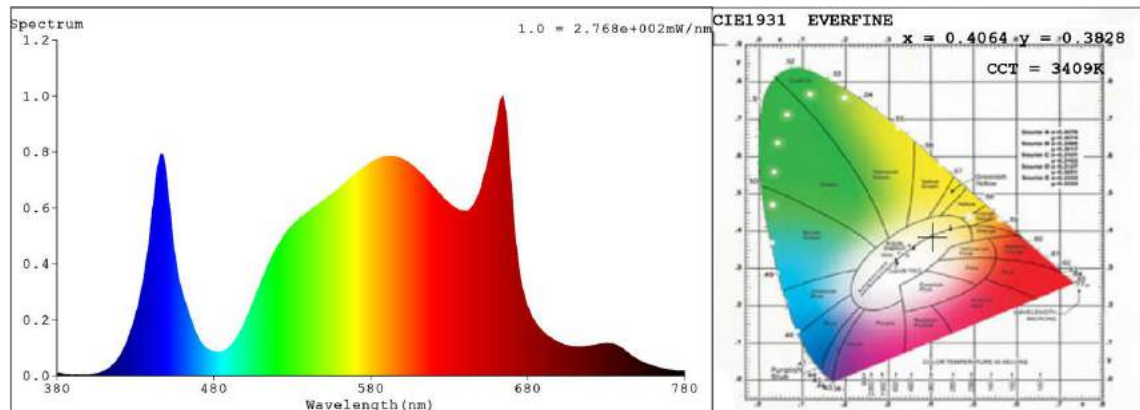


1. *The Spectrabox BB LED grow light is suitable for greenhouse and indoor "darkroom" lighting.*
2. *The 100W Spectrabox BB is the equivalent of a 100W HPS grow light.*
3. *Ideal for all phases of plant growth and works well in any garden, either hydroponics or soil based.*
4. *Using Dim control to adjusted the light intensity to the need of plants during all phases of plant growth.*
5. *OEM/ODM or customized integrated grow lighting solutions are available on request.*

Picture 100W Spectrabox BB



Spectrum Spectrabox BB



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Item	Value	Item	Value
LED chip	Samsung Horticulture	LED value	112 Watt
LED driver	MeanWell	Power factor	> 95%
LED amount	56 pieces	Power consumption	~ 54 Watt
LED wavelength	Full-spectrum	Dim control	10 – 100%
LED efficiency	~ 2,8 $\mu\text{mol} / \text{J}$	Voltage	100V – 277V
Optic lenses	85° beam angle	Frequency	50/60 Hz
Height above plants	> 100 mm	Working environment	-20 ~ + 40°C
Estimate lifespan	Up to 50.00 hours	Waterproof level	IP66 / IP67
Size Spectrabox	150x266x117 mm	Weight	2,2 Kg

Certification and Warranty Spectrabox BB



Note:

1. Don't look into the Spectrabox light directly without wearing sunglasses.
2. Determine the lighting time depending on growing phase and species.
3. Power socket should be connected to the ground/earth.
4. After sales service; 3-year warranty*

* Warranty according EU directive 2009/125/EG.