



Led Flower Growlights

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Technical Specifications

# Spectrabox BB 400

Release date: 2024/01/01



# Spectrabox

## Advantages Spectrabox BB

### 1. High efficiency and Energy saving

The Spectrabox BB (BumbleBee) is a very efficient LED grow light. Tests have shown that LED grow lights give plants greater light intensity and growth rate than HPS grow lights while consuming only 50% of the electricity.

### 2. Long lifespan

The LEDs used for the Spectrabox BB are high-power Samsung Horticulture LEDs. The Samsung LEDs have been specially developed for the horticultural environment, which ensures that the LEDs can withstand extreme temperatures, humidity and exposure to chemicals. This guarantees a high light output, high quality and high reliability with a long lifespan.

### 3. High PAR light output

The Spectrabox BB is equipped with high-power Samsung LEDs, with an LED efficiency of approximately 2.8  $\mu\text{mol}/\text{J}$ . The LEDs are lensed to increase 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, equipped with a full plant spectrum. With a simple dimmer, the light intensity can be adjusted to the needs of plants during all phases of plant growth.

### 5. Waterproof

The Spectrabox BB is IP66 waterproof. The LEDs are attached to the aluminum frame and sealed watertight by the high-quality lenses.

### 7. Plug and Play

No installation required; no reflector and ballast are needed. A Spectrabox is a plug-and-play grow light. Simply plug the plug directly into a grounded AC110 or AC230 volt outlet, making installation safe and simple.

### 6. SMT & SPC technology

The powerful Samsung Horticulture LEDs are mounted with computer controlled SMT technology and are driven with a safe current to ensure long life and the best PAR light output. SPC technology guarantees that the Spectrabox BB will work stably, even if one of the LEDs fails, it will not affect other LEDs.

### 8. Advanced thermal design

The LEDs are passively cooled by the innovative aluminum heat sink. The aluminum circuit board is attached directly to the aluminum frame of the Spectrabox BB for excellent heat dissipation. Passive LED cooling is preferable to active cooling. No moving parts are required, which is energy efficient and requires no maintenance.

### 10. Environment friendly

The Spectrabox BB Series does not contain the harmful substances HPS & MH do; no hazardous waste to deal with, making our earth cleaner and greener. LEDs are superior to other lighting technologies in terms of negative environmental and health impacts during the manufacturing process. Producing LEDs takes much less energy than manufacturing other lighting. LEDs contain no mercury and little or no toxins such as iodine and lead.

## Spectrabox BB 400

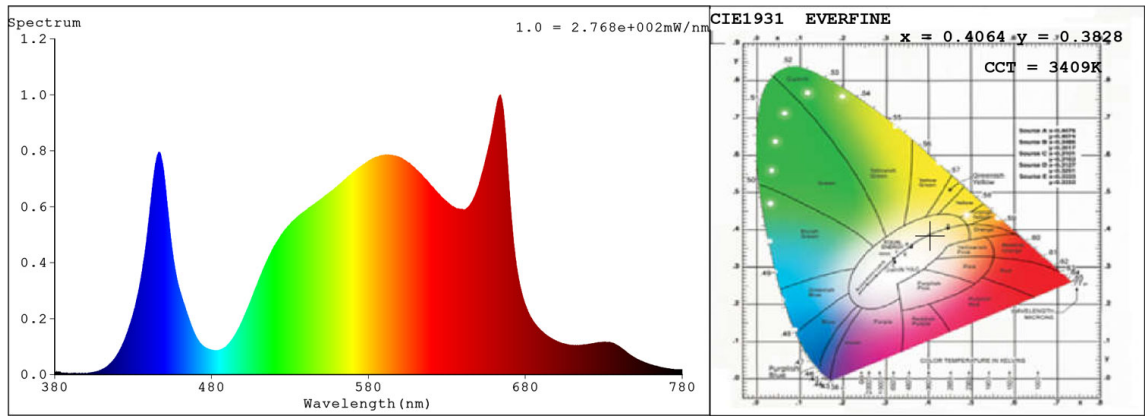


## Application Spectrabox BB 400



1. *The Spectrabox BB LED grow light is suitable for indoor greenhouse and “dark room” lighting.*
2. *The Spectrabox BB 400 is the equivalent of a 400W HPS grow light.*
3. *Ideal for all phases of plant growth and works well in any garden, both hydroponic and soil.*
4. *Use Dim Control to adjust the light intensity to the needs of plants during all phases of plant growth.*
5. *OEM/ODM or custom integrated grow lighting solutions are available upon request*

Spectrum Spectrabox BB



Technical specifications Spectrabox BB 400

Item	Value	Item	Value
LED chip	Samsung Horticulture	HPS equivalent	~ 400 Watt
LED amount	224 pieces	Power factor	> 95%
LED value	448 Watt	Power consumption	~ 200 Watt
LED wavelength	Full-spectrum	Dim control	10 – 100%
LED efficiency	~ 2,8 μmol /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	50.00 hours	Waterproof level	IP66
Size Spectrabox	385x266x117 mm	Weight	5,3 Kg

Certification and Warranty Spectrabox BB



- Note:
1. Do not look directly at the Spectrabox light without wearing sunglasses.
  2. Determine the lighting time depending on the growth phase and species.
  3. The socket must be connected to earth.
  4. After sales service; 3-year full warranty