



Hortilight LED systems

# 250W Spreader

Technical Specification

Release Version: V3.0

Release Date: 2024/10/15

## Main advantages Spreader

### 1. Energy efficient

The 250W Spreader is an extremely efficient LED grow light. Tests have shown that LED lighting solutions can reduce electricity consumption by 50% to 80%, while also increasing yields of sugars, terpenes, flavors, and active ingredients by up to 78%.

### 2. High efficiency

The Spreader is equipped with high quality Philips Lumileds LEDs with an efficiency of 2,9  $\mu\text{mol/J}$ . The LEDs are sealed with a highly transparent lens cover that ensures long-lasting high light output

### 3. Long lifespan

The Philips Lumileds are powered by a MeanWell LED Driver. Both the LEDs and Drivers are top quality components. The LEDs are sealed with a lens cover that ensures safe, maintenance-free, reliability operation with a long-lasting high light output and a long lifespan of 50.000 hours.

### 4. LED Spreader units

The Spreader is equipped with 4 LED units that can be individually aimed at the plant surface. This allows the light intensity to be distributed very evenly over the crop and the light is used even more efficiently.

### 5. Plug & Play

No setup required; no reflector and ballast are needed. The 250W Spreader 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. LED Controller [optional]

An optional LED Controller with remote control can be used as timer and to set lighting schedules. This PWM dimming device can simulate a rising and setting sun, making the lighting even more efficient.

### 7. Waterproof

The Spreader is IP65 waterproof. The LEDs are attached to the aluminum frame and sealed watertight by a high-quality PC lens cover.

### 8. Advanced PCB design

The Spreader does have advance PCB design with SSP technology to restricts the DC output Voltage to the LEDs Voltage. It avoids the LEDs from higher Voltage shocking. The SPC technology guarantees LEDs are driven save. If any of the LEDs does fault, it will not affect other LEDs. The power design is also lighting- and surge-proof.

### 9. Advanced thermal design

For excellent cooling the LEDs are passively cooled by the aluminum heatsink and frame of the Spreader. 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 250W Spreader contains no harmful substances like those found in HPS and MH lighting, resulting in no hazardous waste and a cleaner, greener planet. LEDs require significantly less energy to produce compared to other lighting technologies and contain no mercury or other toxic materials such as iodine and lead.

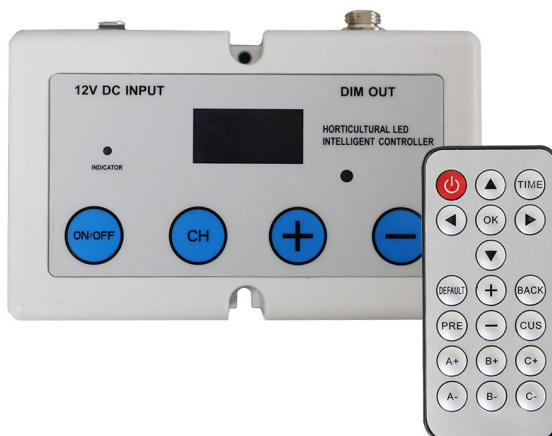
## Picture 250W Spreader



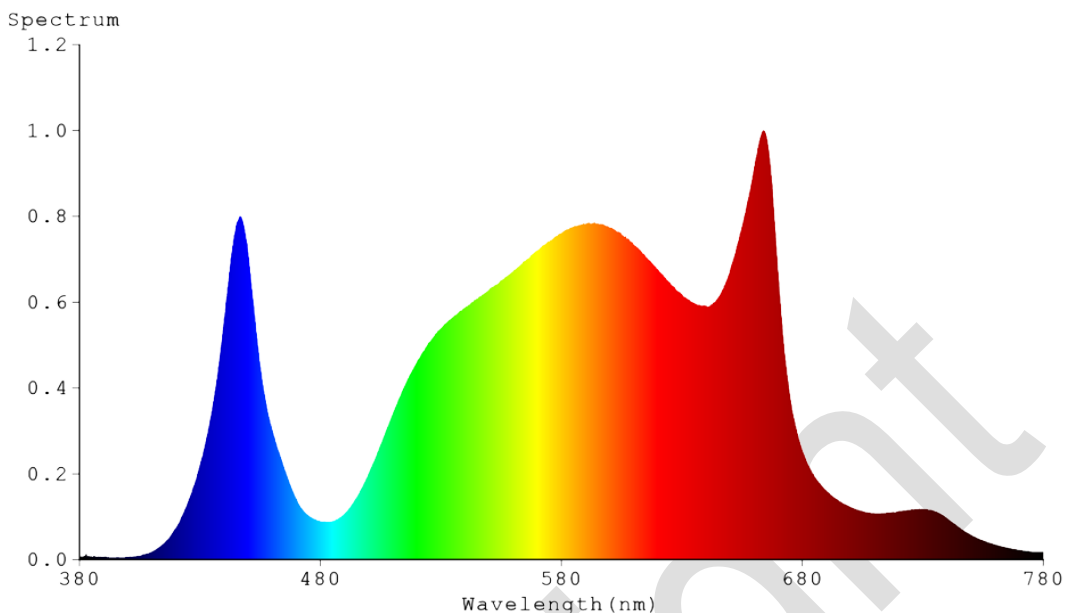
## Application 250W Spreader

1. *A Spreader grow light is suitable for greenhouse and indoor lighting.*
2. *The 250W Spreader replaces a 400 – 600 Watt HPS grow light.*
3. *Four individually adjustable LED spreader units optimize plant lighting over the plant surface.*
4. *Ideal for all phases of plant growth and works well in any garden, either hydroponics or soil.*
5. *OEM/ODM or customized integrated grow lighting solutions are available on request.*

## LED Controller [optional]



## Spectrum 250W Spreader



## Technical specification HL-S250-3

Item	Value	Item	Value
LED driver	MeanWell	Power consumption	~ 250 Watt
LED diodes	Philips Lumileds	Power factor	> 95%
LED type	Horticulture top-bin	Dimming   3 in 1	0-10V, PWM, Ω
LED units	4 x 62,5W Spreader	Voltage range	120V, 230V
LED efficiency	2,9 μmol/J	Frequency	50Hz / 60Hz
Light distribution	120° [90° optional]	Ambient air	-20 ~ + 40°C
Lifespan	50.000 hours	Waterproof level	IP65
Spreader size	429*429*159mm	Weight	6,0 Kg

## Certification and Warranty of 250W Spreader



**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. The 250W Spreader is CE, ELT and RoHs compliant.
5. After sales service; 3-year warranty.