



Hortilight LED systems

HortiLight Spreader

Technical Specification

Release Version: V2.0

Release Date: 2024/02/01

Main advantages HortiLight Spreader

1. Energy efficient

The HortiLight Spreader is an energy 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 30% to 50% of the electricity.

2. High efficiency

The Spreader is provided with high quality Philips Lumileds LEDs with an efficacy of 2,8 $\mu\text{mol/J}$. The LEDs are covered by lenses to increase the light penetration and ensure a high PAR level at the lowest buds.

3. Long lifespan

The Philips Lumileds are powered by a MeanWell LED Driver. Both the LEDs as the LED Driver are top-quality components. This guarantees high light output, high quality and high reliability with 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 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 HortiLight 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 waterproof sealed by the high-quality lenses.

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 HortiLight Spreader doesn't contain the harmful substances HPS lights have. LEDs are superior 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. LEDs contain no mercury and few if any toxins, such as iodine and lead. No hazardous waste to deal with makes our earth cleaner and greener!

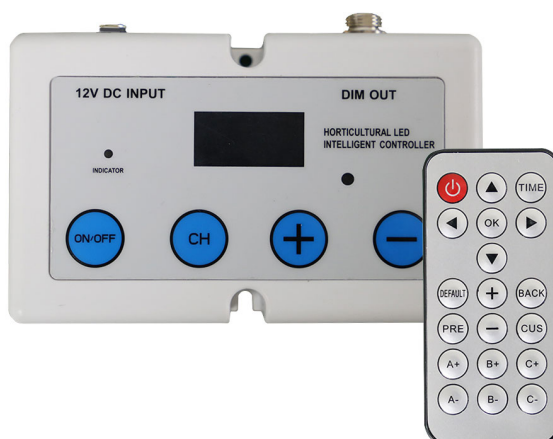
Picture Spreader



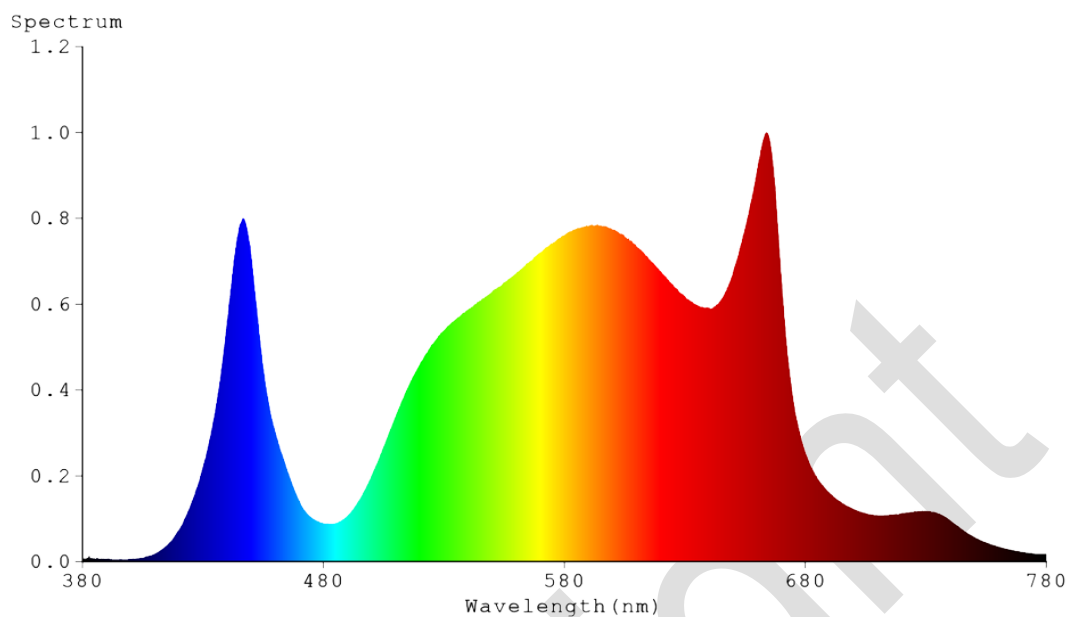
Application HortiLight Spreader

1. A HortiLight Spreader grow light is suitable for greenhouse and indoor lighting.
2. The 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 Spreader



Technical specification HL-S250

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	110V, 230V
LED efficiency	2,8 $\mu\text{mol/J}$	Frequency	50Hz / 60Hz
Light distribution	120° [60°,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 HortiLight 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 HortiLight Spreader is CE, ELT and RoHs compliant.
5. After sales service; 3-year warranty.