



HORTILIGHT LED SYSTEMS

250W Spreader

Professional horticulture LED system

HL-S250-3

Series 3



ENGINEERED LIGHT DISTRIBUTION

Four independently adjustable LED modules combine precise beam placement with passive thermal management.

250 W

POWER

2.9 $\mu\text{mol/J}$

PPE

120°

STANDARD OPTICS

IP65

PROTECTION

Technical Specification / Document version 1.0

Light engine & control architecture

A component-led overview of the 250W Spreader platform.



01

PHILIPS LUMILEDS

Horticulture top-bin LED diodes with specified efficacy of 2.9 $\mu\text{mol/J}$.

02

MEANWELL DRIVER

Premium LED driver platform with >95% power factor.

03

4 × 62.5W MODULES

Each Spreader module can be aimed individually across the plant surface.

04

3-IN-1 DIMMING

External control via 0-10V, PWM or resistance (Ω).

05

IP65 OPTICAL SEAL

Transparent PC lens covers protect the LED assemblies.

CONTROL OPTION

An optional LED controller can be used for timer functions, lighting schedules and simulated sunrise/sunset transitions.

Four modules. One controllable footprint.



ADJUSTABLE LIGHT MODULES

Four independently aimable 62.5W LED units allow the light distribution to be adapted to the crop surface.

PASSIVE HEAT DISSIPATION

Dedicated aluminium heat sinks dissipate heat without fans, reducing maintenance and eliminating moving cooling parts.

01	02	03
120° STANDARD	90° OPTIONAL	429 × 429 × 159 MM
Broad light distribution for even coverage.	Narrower optical configuration available.	Compact square-format fixture; weight 6.0 kg.

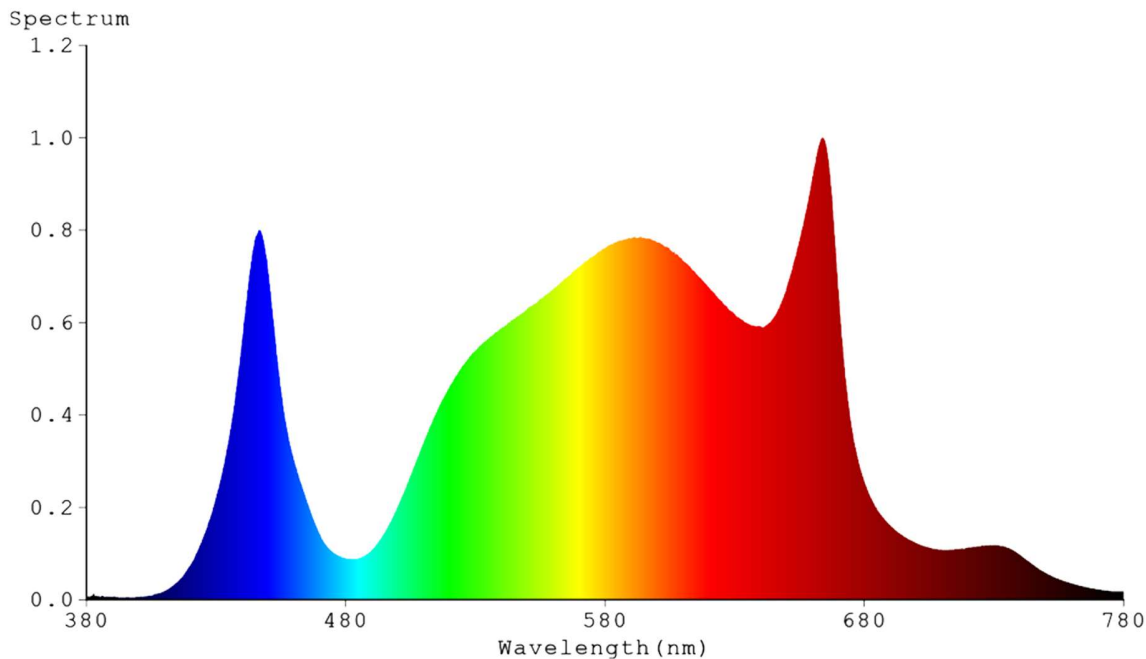
ENGINEERING DATA

Technical specification

LED DRIVER	MeanWell	DIMMING	0-10V, PWM, Ω
LED DIODES	Philips Lumileds	VOLTAGE RANGE	120V / 230V
LED TYPE	Horticulture top-bin	FREQUENCY	50 / 60 Hz
LED UNITS	4 × 62.5W Spreader	AMBIENT AIR	-20 to +40 °C
LED EFFICACY	2.9 μmol/J	LIFESPAN	50,000 hours
LIGHT DISTRIBUTION	120° (90° optional)	WATERPROOF LEVEL	IP65
POWER CONSUMPTION	~250 Watt	SPREADER SIZE	429 × 429 × 159 mm
POWER FACTOR	>95%	WEIGHT	6.0 kg

Broad horticultural spectrum

Spectral distribution supplied for the 250W Spreader.



2.9 $\mu\text{mol/J}$

LED EFFICACY

50,000 h

SPECIFIED LIFESPAN

-20 to +40 °C

AMBIENT RANGE

INTERPRETATION

The supplied chart shows a broad white-light component, a pronounced blue peak and strong red output, with a smaller far-red contribution beyond 700 nm.

APPLICATION

Suitable for greenhouse and indoor cultivation, all phases of plant growth, and both hydroponic and soil-based growing.

COMPLIANCE & WARRANTY

CE / ETL / RoHS

Specified compliance

3 YEAR WARRANTY

After-sales warranty

SAFETY NOTES

- Select lighting time according to plant species and cultivation requirements.
- Do not look directly into the operating LED light.
- Connect the fixture to a properly grounded power socket.