PHILIPS

Horticulture LED

GreenPower LED flowering lamp 2.1

The proven way to **boost growth and cut costs**

Based on input from growers around the world, our Philips GreenPower LED flowering lamp allows you to grow better crops and save energy. Our proven technology is highly robust and cuts your energy usage by up to 90% versus conventional lamps. Two versions are available with dedicated light recipes to boost your crop results by preventing budding, promoting elongation or expediting flowering.

The GreenPower LED flowering lamp is the effective, energy-efficient solution for photoperiodic lighting in greenhouses that cultivate:

- Cut flowers
- Annuals/perennials
- Mother stock
- Strawberries

Key benefits

- Energy savings of up to 90% compared to conventional lamps
- Dedicated recipes to optimize photoperiodic lighting
- Large surface area coverage due to high light output and optimal distribution
- Safe and robust design, using no glass materials

The right light for your crop

The Philips GreenPower LED flowering lamp is available in two different spectral versions: one offers a combination of deep red and white (DR/W) and the other offers a combination of deep red, white and far red (DR/W/FR). Short-day and long-day plants, as their names indicate, flower most rapidly under short or long days, respectively. During naturally short days, nighttime lighting can delay flowering of short-day plants to stimulate vegetative growth, or promote flowering of long-day plants. The DR/W version inhibits flowering of short-day plants prevents budding of mother stock of chrysanthemums, dahlias, poinsettias and others. The DR/W/FR version is ideal for photoperiodic lighting of summer flowers, like gypsophila, aster, hypericum, solidago, as well as potted plants, annuals and perennials. It can extend the day or interrupt the night cycle to promote elongation of the stems of strawberries and stimulate flowering.

Product specifications

Spectral version		DR/W	DR/W/FR
Photon flux	µmol/s	25	20
Power	W	10	9,3
Efficacy	µmol/J	2,5	2,2

Dimensions	mm/in	H: 164 / 6,46	W: 127 / 5,00
Cap-base		E26 / E27	
Bulb		Plastic, white frosted	
Weight	kg / lb	0,170 / 0,375	
Ingress Protection Rating	IP / UL	IP44 / Dry and damp locations	
Rated average lifetime[1]	hrs	L90: 25,000	
Switching cycle		35,000 times	
Power factor	VAC	> 0,9	
Power input	VAC	120-240 VAC (50-60 Hz)	
Approbations		UL/CSA, IEC (CE)	
Beam angle		110°	
THD		< 29%	

Promote flowering

Philips dedicated light spectra for the GreenPower LED flowering lamp are optimized for photoperiodic lighting. They promote flowering of long-day plants, which results in higher and healthier yields.

Prevent budding

Our flowering lamp helps you effectively prevent flowering for mother stock. With the right recipe you can stimulate vegetative growth and combat flowering in the cuttings.

Promote elongation of strawberry stems

You can use the flowering lamp to improve stem elongation and thereby achieve earlier and higher yields of strawberry crops.

Economic and robust installation

This is a safe and robust solution for photoperiodic lighting. The lamp can withstand up to 35,000 switching cycles (as designed for a usability profile to achieve 8 switches per day for 12 years). It is highly efficient with a power factor of > 0.9, which is crucial when working with generators. The lamp is also well protected against voltage fluctuations (120-240 VAC +/- 10%) due to its unique electrical design. Thanks to its robust design and excellent optical performance, the GreenPower LED flowering lamp will allow you to make the most economical and reliable lighting installation for your cultivation facility in any location – even outdoors – when you choose the appropriate luminaire.

[1] Lifetime and maintenance values are given at an ambient temperature of 25 °C / 77 °F. All measured lifetimes are industry standard measurements indicating average length of operation and not a performance claim specific to any individual product.

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