



## Growing value

**Philips GreenPower LED flowering lamp:** the energy-saving alternative for extending day length when cultivating e.g. strawberries and bedding plants or producing cuttings from chrysanthemums and kalanchoes.

The optimal lighting solution is different for every crop. Based on successful tests in the field, Philips have been developed three different lamps with specific light recipes for different plants.

This lamp is based on advanced LED technology and has been specially developed as a replacement for the incandescent lamp to extend day length to control flowering or to break the winter dormancy of plants such as chrysanthemums and strawberries.

With the Philips GreenPower LED flowering lamp you can save over 80% on energy costs.

# PHILIPS

sense and simplicity

# Growing value

## Appropriate light

Based on successful tests carried out in the field, three different lamps have been developed, each offering a specific light recipe for different plants: 100% far red (FR), a combination of deep red and white (DR/W) and a combination of deep red/white/far red (DR/W/FR).

For optimum control, a specific spectrum of light is required for each plant type. Please contact us if you require help choosing the right type of lamp for your plants.



## Higher output

The Philips GreenPower LED flowering lamp combines an optimum spectrum with a low energy consumption. In contrast with the incandescent lamp, the spectrum and light level of the lamps in this range are geared to the specific light requirements of the plant. As a result, you can save more than 80% on energy consumption compared with an incandescent lamp.

## Flexibility and convenience

Thanks to the different versions available, the GreenPower LED flowering lamp offers the best possible freedom of installation.

The lamps have a standard E27 fitting and are suitable for direct replacement of the lamps in your existing installation, without the need for any modifications to the installation.

# Proven in practice

Given that light is an important production resource for growers and also represents an important factor in plant research, Philips has been carrying out various practical tests in conjunction with horticultural companies and research experts. These tests provide valuable information that can be used in product design. They also highlight the versatility of LED solutions and the cost-effective opportunities they offer for ensuring optimum yield and plant quality.

## Kwekerij Van oers B.V.

"I have noticed favorable developments in LED lighting for strawberry cultivation through the test with the Philips GreenPower LED flowering lamp. Stem elongation began well or perhaps even better under the DR/W/FR type, which meant that we used light on fewer days. This of course leads to a saving on energy, but what is more important in my opinion is the effect on the plants. We find that the exposure to light is really quite critical. It is no good if you don't have enough light, but at the same time you don't want too much light either. The new lamp enabled us to control the light really effectively and we are now picking the most wonderful first-class strawberries."

Joost van Oers

## Fides B.V.

"Reliable lamps are absolutely essential for producing chrysanthemum cuttings reliably in Uganda in order to keep the stock plant in a vegetative phase. This is particularly important in a country like Uganda where there is a huge shortage of electricity. It is a great advantage that the same effect can be achieved with a lower energy consumption. In addition, the Philips GreenPower LED flowering lamps have proven to be very resilient to the unstable nature of the electricity supply."

John Rutten

## Gebr. van der Hoorn

"When cultivating carnations light is crucial if you want a good start to the season. The most important thing with carnations is that you can use light to induce early growth. The test with the Philips LED flowering lamp clearly had the desired effect on the plants and we have therefore decided to use this lighting on a larger scale next year. I really like the idea that the lamps cost (almost) nothing in terms of energy. That not only means we use less energy, it also means we have much less to worry about."

Louis van der Hoorn



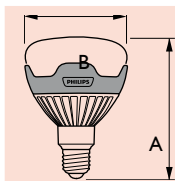


### Specifications for GreenPower LED flowering lamps

Lamp type	Photon flux [ $\mu\text{mol/s}$ ]	Useful life time hrs	Photon flux maintenance ambient 25°C	Ingress protection rating	Energy consumption
GreenPower LED flowering DR/W	22	10000	90%	IP44	18W
GreenPower LED flowering DR/W/FR	15	7000	90%	IP44	18W
GreenPower LED flowering FR	12	6000	90%	IP44	16W

\* The values for service life and photon flux maintenance are valid for an ambient temperature of 25°C and a maximum of 15 switches per day.

### Dimensions of GreenPower LED flowering lamps



Product names	Dimensions (in mm)		Lamp fitting	12 NC	EOC 8727900
	A	B			
GreenPower LED flowering DR/W	130	95	E27	9290 006 13301	909265 00
GreenPower LED flowering DR/W/FR	130	95	E27	9290 006 13401	909272 00
GreenPower LED flowering FR	130	95	E27	9290 006 13201	909258 00

### Certification

Complies with RoHS

Quality standard ISO 9001-2000

Environmental standard ISO 14001



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