





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 costeffective opportunities they offer for ensuring optimum yield and plant quality.





"Two years ago we did a trial with the Philips GreenPower LED flowering lamps in Naivasha, Kenya. At first we were surprised by the colour of the light, but soon we were also impressed with the results. No flower induction and an extreme reduction in energy costs. At the moment we are also rolling it out in other motherstock plants, to improve our cutting quality even more, and reduce in electricity costs."



Esmeralda Farms (Cut flowers)

"After four months working with the LED flowering lamps, an outstanding 91% reduction in energy costs, amounting to a total of US\$ 18,000, was achieved. This is equivalent to an energy saving of US\$ 16.50/hour/hectare. It is estimated that the investment will be recouped within the space of 11 months. The long lifetime and improved water resistance of the LED flowering lamps resulted in reduced labor costs, because now there is no need for the lamps to be replaced every day."



Brookberries (Strawberries)

"One of the most important advantages of LED lighting compared with incandescent lamps is the spectacular reduction in energy consumption. This was confirmed by the energy savings of 88%. This means a major improvement for our business operations and meets our express wish to grow crops with the environment in mind. The LED flowering lamp with far red light can match the incandescent lamp with even better results. The plants respond well and, for instance, show improved elongation. making early and increased production possible. We are so pleased with the results that a winter crop of the Sonata variety is planned for the coming season."

Tom van Delr



Philips GreenPower LED flowering lamp

Our energy-saving replacement for the incandescent lamp

We developed three different LED flowering lamps, each offering a specific spectrum. This to make different light recipes possible, for different plants or different working environments.

The three different spectra from which you can choose:

- 1) 100% far red (FR).
- 2) A combination of deep red and white (DR/W).
- 3) A combination of deep red/white/ far red (DR/W/FR).

The white color in the lamp creates a pleasant working light, which enables you us to examine the plants effectively when the lamps are switched on.

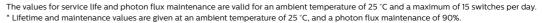
Ingress protection rating: IP44 **Power factor:** $\cos \varphi \ 0.9 \pm 0.2$

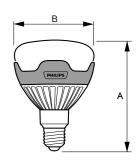
Certification

Complies with RoHS Ouality standard ISO 9001-2000 Environmental standard ISO 14001

Specifications and ordering information for GreenPower LED flowering lamps

Lamp type	Photon	Useful life time 90% *	Energy consumption	Dimensions (in mm)		12 NC	EOC
	µmol/s	hours	w	Α	В	9290 006	8727900
GreenPower LED flowering DR/W	22	15,000	18	130	95	13301	909265 00
GreenPower LED flowering DR/W/FR	15	15,000	18	130	95	13401	909272 00
GreenPower LED flowering FR	12	10.000	16	130	95	13201	909258 00







More than a product, it's a complete solution

The Philips GreenPower LED flowering lamp offers all the proven benefits of LED technology and – as a complete solution – much more besides.

- · Quick and easy installation
- · Support and advice from technical experts
- · Advice on which lighting strategies are best for your situation



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01/2015 Data subject to change

For more information about Philips horticulture LED Solutions visit:

Write us an e-mail: