

The Philips logo is displayed in blue capital letters on a white background.

Horticulture
LED Solutions

GreenPower LED
toplighting compact



The easy switch from HPS to LED toplighting

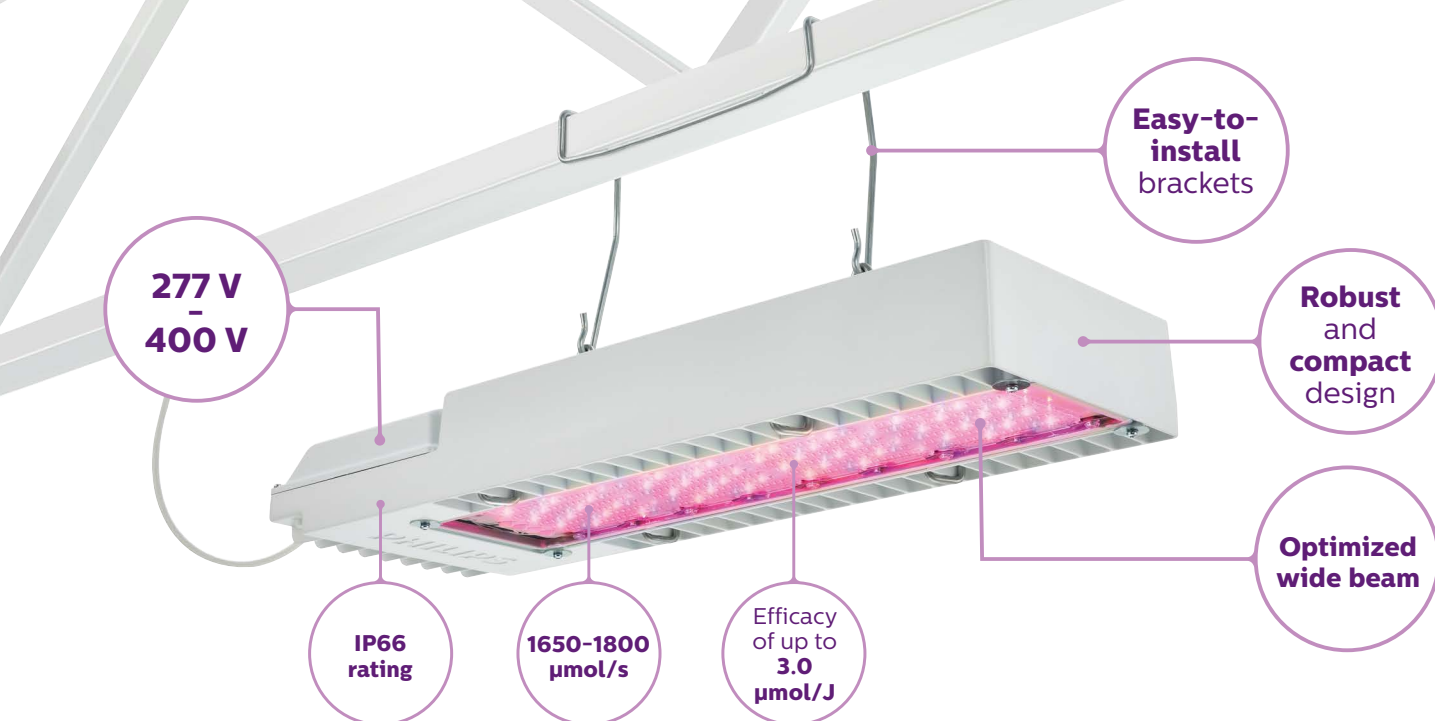
As a grower, you are probably familiar with the benefits of using LED lighting in greenhouses. However, the potentially high upfront investment in LED lighting may have held you back, especially if it meant building a new lighting set-up. That is no longer an issue with the new Philips GreenPower LED toplighting compact. It allows you to easily switch from HPS to LED lighting, using your existing HPS set-up and trellis construction. The high light output of up to 1800 $\mu\text{mol/s}$ and high efficacy of up to 3.0 $\mu\text{mol/J}$ help you effectively optimize crop growth, enhance crop quality and cut operational costs.

The capabilities of the GreenPower LED toplighting compact bring benefits to growers in many different segments:

- Tomatoes, cucumbers, lettuce, strawberries and other fruits and vegetables
- Roses, chrysanthemums, alstroemeria and other flowers
- Medicinal cannabis

Key benefits

- Easy 1-to-1 HPS to LED replacement
- Plug and play design saves time and money on installation
- Produces same light output as 1000 W HPS, but consumes 40% less power
- Wide beam optics provide optimal light distribution
- Can be combined with the GrowWise Control System



More light, less heat, better control

Compared to a 1000 W HPS luminaire, the Philips GreenPower LED toplighting compact produces the same amount of light, while consuming 40% less power. The passively cooled module produces much less radiant heat, putting you in control over your greenhouse climate. The new module fits seamlessly in existing HPS connections and trellis constructions, even between sprinklers, so you can easily switch to full LED toplighting or create a hybrid LED and HPS lighting system on your current set-up. The compact, white housing intercepts little sunlight and comes with an IP66 ingress protection rating. On top of all

this, the toplighting compact has optimized wide beam optics, providing excellent light distribution in most greenhouse configurations, including high wire-crops.

GrowWise Control System enables dimming

The dimmable version of the GreenPower LED toplighting compact can be connected with the GrowWise Control System, allowing growers to dim the lighting to mimic the dusk to dawn interval and enhance results for specific crops. The GrowWise Control System can be used stand-alone or can be controlled via your climate computer.

Product specifications

| Spectral version | | Deep Red/Blue types (DR/B) | | | | Deep Red/White types (DR/W) | | | | Deep Red/White/Far Red types (DR/W/FR) ¹ | | | |
|---------------------|--------|----------------------------|----------|----------|----------|-----------------------------|----------|----------|----------|---|----------|----------|----------|
| Full spectral code | | LB | | | | MB | | | | FR1_LB | | FR4_RSE | |
| Type | | Standard | Dimmable | Standard | Dimmable | Standard | Dimmable | Standard | Dimmable | Standard | Dimmable | Standard | Dimmable |
| Typical photon flux | μmol/s | 1800 | 180-1800 | 1800 | 180-1800 | 1800 | 180-1800 | 1650 | 165-1650 | 1650 | 165-1650 | 1650 | 165-1650 |
| Power consumption | W | 600 | 49-600 | 620 | 53-620 | 630 | 54-630 | 590 | 51-590 | 590 | 51-590 | 590 | 51-590 |
| Efficacy | μmol/J | 3.0 | 3.0 | 2.9 | 2.9 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |

Note: For product availability of dimmable versions please consult your regional Key Account Manager.

| | | | | |
|-------------------------------------|-----|------------------------------|-----------|-----------|
| Dimensions | cm | Length: 72 | Width: 24 | Height: 9 |
| Weight | kg | 10.5 (incl. module brackets) | | |
| Power factor | | 0,98 | | |
| Total Harmonic Distortion | % | < 15 | | |
| Rated Average Lifetime ² | hrs | 36.000 L90 | | |
| Cooling | | Passively cooled | | |
| Approval marks | | CE, ENEC, RoHS, UL/CSA, RCM | | |
| Connector | | Wieland RST20i3 Green | | |
| Warranty | | 3 years | | |

Legend

| | |
|----------------------|--------------------------|
| DR = Deep Red | LB = Low Blue |
| B = Blue | MB = Medium Blue |
| W = White | RSE = Rose Module |
| FR = Far Red | |

Notes

¹ The published value represents the total photon flux from 400-800nm

² 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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