

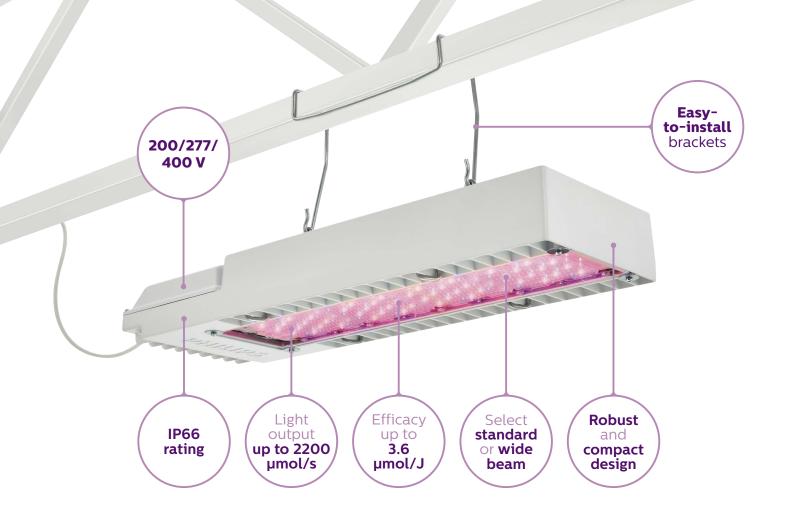
As a grower, you are probably familiar with the benefits of using LED lighting in greenhouses. However, the potentially high upfront investment in LED lighting may have held you back, especially if it meant building a new lighting set–up. That is no longer an issue with the new Philips GreenPower LED toplighting compact. It allows you to easily switch to LED lighting, replacing your existing HPS set–up, or building a new installation. The high light output of up to 2200 μ mol/s or high efficacy of up to 3.6 μ mol/J helps 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:

- ${\boldsymbol{\cdot}}$ Vegetables and fruits like tomatoes, cucumbers, lettuce and strawberries
- Cut flowers and potted plants like roses, chrysanthemums and alstroemeria
- · Medicinal cannabis

Key benefits

- Matches key requirements for any new greenhouse or 1-to-1 retrofit LED installation
- Grow lights available for light-loving crops (up to 2200 µmol/s) or low operational costs (efficacy up to 3.6 µmol/J)
- Plug and play design saves time and money on installation
- Wide or standard beam provide optimal light distribution for any crop



More light, less heat, better control

New greenhouse or renovation

For a new greenhouse or renovation situation, there's a whole range of products to choose from. You can opt for a grow light with an optimized performance balancing light output & efficacy or you can choose one of our specialized solutions with either the lowest operational costs (efficacy up to 3.6 μ mol/J), or high photosynthetic photonflux (up to 2200 μ mol/s) or a low initial investment solution. Find your most suitable option in our selection tool.

1-to-1 retrofit

The new toplighting compact fits seamlessly in existing HPS connections and trellis constructions; even between sprinklers. There are two smart options: either you choose to replace your existing HPS installation with a similar light output and consume 50% less power, or you choose to optimize your CHP and increase your light output up to 2x 1850 µmol/s. In all cases you can make the easy switch to full LED toplighting or create a hybrid LED and HPS lighting system on your current set-up.

The passively cooled module produces much less radiant heat, putting you in control over your greenhouse climate. The compact, white housing intercepts little sunlight and comes with an IP66 ingress protection rating. On top of all this, the toplighting compact comes in a standard and wide beam, 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 standalone or can be controlled via your climate computer.

Selection tool



Optimized performance for optimal combination of efficacy and light output

| Beam | Voltage | | | Deep Red/Blue/Low Blue | Deep Red/White/Low Blue | Deep Red/White/Mid Blue | Deep Red/White |
|----------|--------------|---------------------|--------|------------------------|-------------------------|-------------------------|----------------|
| | 277- 400V | Typical photon flux | µmol/s | 2200 | 2150 | 2100 | 1650 |
| Standard | 4000 | Power consumption | W | 645 | 645 | 645 | 645 |
| beam | | Efficacy | µmol/J | 3.4 | 3.3 | 3.3 | 2.6 |
| | 277- 400V | Typical photon flux | µmol/s | 2000 | 1950 | 1900 | |
| Wide | | Power consumption | W | 645 | 645 | 645 | |
| beam | | Efficacy | µmol/J | 3.1 | 3.0 | 2.9 | |

High efficacy for lowest operational costs

| Bea | ım | Voltage | | | Deep Red/Blue/Low Blue | Deep Red/White/Low Blue | Deep Red/White/Mid Blue | Deep Red/White/Far Red ¹ |
|-------|------------------|--------------|---------------------|--------|------------------------|-------------------------|-------------------------|-------------------------------------|
| 6 | Standard beam | 200- 400V | Typical photon flux | µmol/s | 1850 | 1800 | 1750 | 1650 |
| Stanc | | | Power consumption | W | 520 | 520 | 520 | 520 |
| | | | Efficacy | µmol/J | 3.6 | 3.5 | 3.4 | 3.2 |

Cost effective grow light for easier financing

| Beam | Voltage | | | Deep Red/Blue/Low Blue | Deep Red/White/Low Blue | Deep Red/White/Mid Blue |
|----------|--------------|---------------------|--------|------------------------|-------------------------|-------------------------|
| Standard | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | 1800 |
| | | Power consumption | W | 590 | 610 | 620 |
| beam | | Efficacy | µmol/J | 3.1 | 3.0 | 2.9 |
| Wide | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | 1800 |
| | | Power consumption | W | 600 | 620 | 630 |
| beam | | Efficacy | µmol/J | 3.0 | 2.9 | 2.9 |

All products are dimmable to 10% of the photon flux/power consumption when combined with a GrowWise Control system.

Selection for Roses

| Select | Beam | Voltage | | | Deep Red/White/Far Red_RSE ¹ | | |
|----------------------|----------|--------------|---------------------|--------|---|---|--------------------------------|
| Utilize | Standard | 200- 400V | Typical photon flux | µmol/s | 1650 (2 lights on 1 HPS socket) | | |
| Utilize available | | | | 4001 | Power consumption | W | 520 (2 lights on 1 HPS socket) |
| power | | | Efficacy | µmol/J | 3.2 | | |

Selection tool



Save energy

Utilize available power Increase light level

Keep existing light level and save energy

| Select | Beam | Voltage | | | Deep Red/Blue/Low Blue | Deep Red/White/Low Blue | Deep Red/White/Mid Blue |
|---|--------------|--------------|---------------------|--------|------------------------|-------------------------|-------------------------|
| Optimized performance 1000 W HPS replacement | 6 | 277- 400V | Typical photon flux | µmol/s | 2200 | 2150 | 2100 |
| | Standard | 4000 | Power consumption | W | 645 | 645 | 645 |
| | beam | | Efficacy | µmol/J | 3.4 | 3.3 | 3.3 |
| | 8 | 277- 400V | Typical photon flux | µmol/s | 2000 | 1950 | 1900 |
| | Wide beam | 4007 | Power consumption | W | 645 | 645 | 645 |
| | | | Efficacy | µmol/J | 3.1 | 3.0 | 2.9 |
| | Standard | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | 1800 |
| | | | Power consumption | W | 590 | 610 | 620 |
| Cost effective | beam | | | 3.0 | 2.9 | | |
| 1000 W HPS replacement | Wide | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | 1800 |
| | | 4000 | Power consumption | W | 600 | 620 | 630 |
| | beam | | Efficacy | µmol/J | 3.0 | 2.9 | 2.9 |

Utilize available power and increase light level

| Replace | Beam | Voltage | | | Deep Red/Blue/Low Blue | Deep Red/White/Low Blue | Deep Red/White/Mid Blue | Deep Red/White/Far Red ¹ |
|------------------------|---------------|--------------|---------------------|--------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------|
| | 6 | 200- 400V | Typical photon flux | µmol/s | 1850 | 1800 | 1750 | |
| | Standard | 4000 | Power consumption | W | 520 | 520 | 520 | |
| | beam | =60 | | 3.6 | 3.5 | 3.4 | | |
| HPS 600 Watt | Standard beam | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | 1800 | |
| | | | Power consumption | W | 590 | 610 | 620 | |
| | | | Efficacy | µmol/J | 3.1 | 3.0 | 2.9 | |
| | Wide beam | 277- 400V | Typical photon flux | µmol/s | 1800 | 1800 | | |
| | | 4000 | Power consumption | W | 600 | 620 | | |
| | | | Efficacy | µmol/J | 3.0 | 2.9 | | |
| | 66 | 200- 400V | Typical photon flux | µmol/s | 1850 (2 lights on 1 HPS socket) | 1800 (2 lights on 1 HPS socket) | 1750 (2 lights on 1 HPS socket) | 1650 (2 lights on 1 HPS socket) |
| HPS plus 1.000 Watt | Standard | 4000 | Power consumption | W | 520 (2 lights on 1 HPS socket) |
| 1.000 Watt | beam | | Efficacy | µmol/J | 3.6 | 3.5 | 3.4 | 3.2 |

Note: half the power consumption of HPS 1.000 Watt; 2 TLC modules replace one 1.040 Watt HPS grow light All products are dimmable to 10% of the photon flux/power consumption when combined with a GrowWise Control system.

Technical specifications

- · Length: 72 cm
- Width: 24 cm • Height: 9 cm
- Weight: 10.5 kg (incl. brackets)Power factor: 0,98
- Total Harmonic Distortion: < 15%

- Rated Average Lifetime²: L90: 36.000 hrs
 Ingress protection rating: IP66
- · Cooling: Passively cooled
- Approval marks: CE, ENEC, RoHS, UL/CSA, RCM

Notes

- $^{\mbox{\tiny 1}}$ The published value represents the total photon flux from 400-800nm
- 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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