

PHILIPS

Horticulture LED

GreenPower
LED toplighting



Break the barriers of yield and quality

Combined with our dedicated light recipes, the Philips GreenPower LED toplighting opens up new opportunities for every greenhouse grower to increase their quality and yields and move to year-round production. LED toplighting offers light output levels of 800 $\mu\text{mol/s}$ per module at a very high efficacy reaching up to 3.0 $\mu\text{mol /Joule}$. It offers growers unique advantages for specific crops that need high photonflux as a direct replacement for traditional lighting systems or as an energy-efficient supplement.

The unique capabilities of the GreenPower LED toplighting bring benefits to growers in many light-loving crops like:

- Cut flowers
- Potted plants
- Bedding plants
- Perennial plants
- Licensed medicinal cannabis

Key benefits

- Shorten growth cycles
- Improve color, shape and taste
- Grow with more control over your climate
- Year-round growing
- Add light to low greenhouses
- Cut operational costs
- Lower maintenance costs compared to HPS lighting

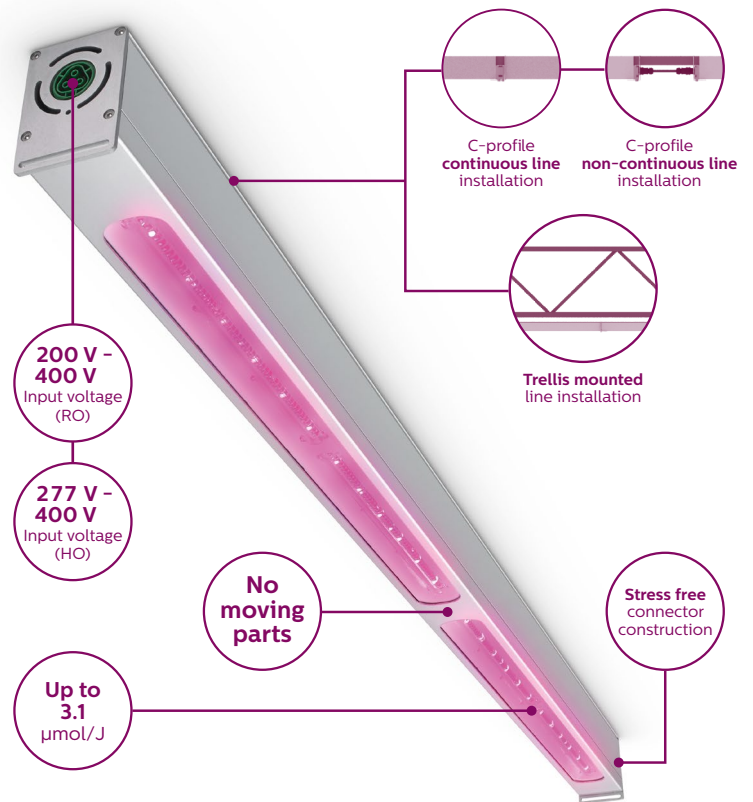
The best solution for your crop

Next level of productivity

Our GreenPower LED toplighting delivers very high light output, while radiating much less heat than HPS toplighting. That means you can control light and temperature separately from each other to reach unprecedented lighting levels for your plants and gain more control over growing conditions.

LED toplighting can shorten growth cycles, increase yields, reduce energy and enable more economic use of space. These results may vary depending on the crops being grown and the type of LED installation. Add our proven light recipes and you can further control plant growth, development, and/or nutritional content to produce unique results that differentiate your business in the market.

Our LED toplighting solution comes with the extensive knowledge of our Plant Specialists, Account Managers, Application Engineers and our Philips LED Horti partners. All this so you can truly expect growth like never before.



Specifications Regular Output

Spectral version		Deep Red/Blue types			Deep Red/White types			
Spectral code		LB	MB	HB	LB	MB	HB	MB + Far red
Typical photon flux	μmol/s	550	550	520	520	520	520	500
Power consumption (max)	W	175	180	175	170	175	180	190
Efficacy	μmol/J	3.1	3.1	3.0	3.1	3.0	2.9	2.6

Specifications High Output

Spectral version		Deep Red/Blue types		Deep Red/White types		
Spectral code		LB	LB	MB	W	
Typical photon flux	μmol/s	800	800	800	630	
Power consumption (max)	W	265	275	285	265	
Efficacy	μmol/J	3.0	2.9	2.8	2.4	

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

Dimensions (LxWxH)	cm/inch	126.4 x 5.5 x 8 / 49.8 x 2.2 x 3.2
Weight	kg/lbs	3.2 / 7.1
Power input	VAC	200 - 400 (RO); 277 - 400 (HO)
Power factor	VAC	> 0.95 @ 400 VAC
Lifetime*	hrs	L90: 36.000; L70: 50.000
Ingress protection rating		IP66, UL/CSA rating: Suitable for dry, damp and wet locations
Cooling		Passively air-cooled
Approval marks		CE, UL/CSA, RoHS, ISO, C-Tick
Accessories		Full range of accessories available for easy and quick installation

Legend

W = White
LB = Low Blue
MB = Medium blue
HB = High blue

* 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.

Philips GreenPower horticulture LED products meet photobiological safety standard EN 62471. Signify advises not to look into a direct light source as indicated in the application guide (doc# 4422 944 05672). Please protect eyes for the 300-700 nm range by wearing approved protection glasses.



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Document order number: 442295201254 A
 05/2020 | Data subject to change

For more information about Philips Horticulture LED Solutions visit: www.philips.com/horti

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