PHILIPS

Horticulture LED Solutions

GreenPower LED toplighting linear

Break the barriers of **yield and quality**

Philips GreenPower horticulture lighting offers a complete solution designed to move your greenhouse business forward. It combines our unmatched LED technology with custom light recipes and the professional support of our experienced plant specialists, account managers, application engineers and Philips LED Horti partners. Whether you want to increase yields, move to predictable year-round production, improve quality or shorten growth cycles. Our proven solutions have helped growers like you across the globe gain more control over their greenhouse climate and crops, and produce unique results that make them stand out in their markets.

GreenPower LED toplighting is a crucial ingredient in many of our project solutions. Each GreenPower LED toplighting comes with a light recipe that is designed for your crop(s) and type of growing situation. Successful projects were done in:

- High wire vegetables: tomatoes, cucumbers and peppers
- Leafy greens and herbs: lettuce and basil
- Soft fruits: strawberries
- Floriculture: cut flowers, potted plants, bedding plants, annuals and perennials
- Propagation for floriculture and vegetables

Key project benefits

- Excellent light uniformity to ensure uniform growth
- Shorten growth cycles
- Improve color, shape and taste
- Low maintenance costs
- 50% energy reduction compared to HPS
- Custom light recipe to fit your crop and situation
- Easy to mount and connect

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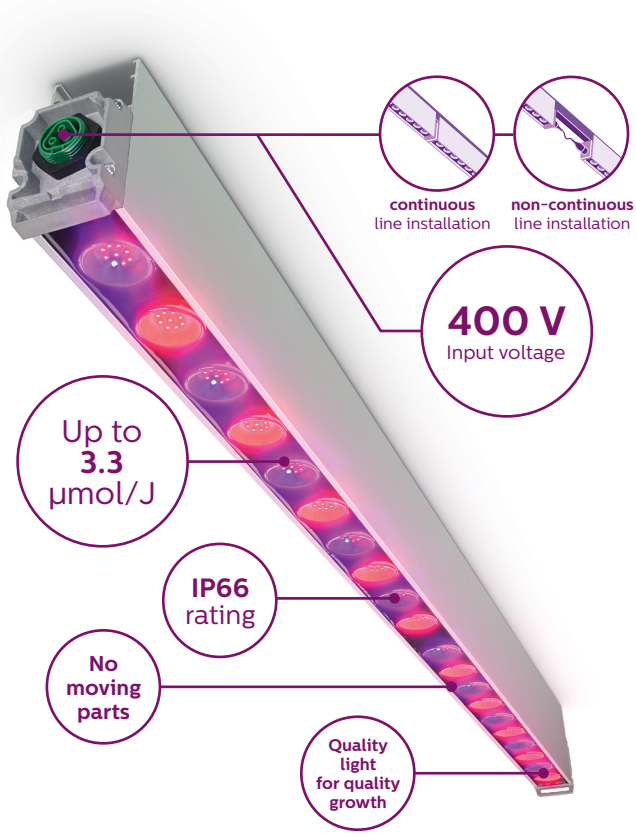
Power up **new productivity**

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



Uniform crops

The advanced LED technology in our GreenPower LED toplighting delivers excellent light uniformity over your crop. This ensures uniform growth for every plant in your greenhouse to help you realize a higher return on each crop.

Convenient installation

Whether you are equipping a new greenhouse with LED lighting or retrofitting an existing greenhouse, our GreenPower LED toplighting module is designed for a perfect fit and easy installation. The module can be easily mounted on a C profile which allows you to position the lighting exactly where you need it. Simply click the modules into each other with or without spaces between them, to get the right set-up for your crops.

Efficient output

Our GreenPower LED toplighting offers light output levels that typically range between 410 to 1000 µmol/s per module at a very high efficacy of up to 3.3 µmol/J. That makes it a highly efficient replacement and energy-efficient supplement for traditional lighting systems.

Reliable, low-maintenance design

The GreenPower LED toplighting module uses passive cooling without moving parts, so it performs robustly and reliably and is easy to install. The module is designed to dissipate heat efficiently, which greatly extends its lifetime.

Product specifications

Spectral version		**Deep Red/Blue types**					**Deep Red/White types**							**Deep Red/White/Far Red types types[1]**				
Spectral code		**LB**	**LB HO**	**LB HO**	**MB**	**HB**	**LB**	**LB HO**	**LB HO**	**MB**	**MB HO**	**MB HO**	**HB**	**LB**	**LB HO**	**MB**	**RSE**	**RSE HO**
Typical photon flux	µmol/s	520	620	1000	520	520	520	620	1000	520	620	1000	520	500	900	410	600	900
Power consumption (max.)	W	170	195	305	175	180	180	200	315	185	210	325	190	180	300	160	205	300
Efficacy	µmol/J	3.1	3.2	3.3	3.0	2.9	2.9	3.1	3.2	2.8	3.0	3.1	2.7	2.8	3.0	2.6	2.9	3.0

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Dimensions[2]	cm	**Length:** 127 **Width:** 5 **Height:** 11
Weight	kg	3.65
Power input[3]	VAC	400
Power factor	VAC	› 0.95 @ 400
Rated Average Lifetime[4]	hrs	L90: 36.000
Ingress protection rating		IP66
Cooling		Passively air-cooled
Approval marks		CE, RoHS
Warranty		3 years
Accessories		Full range of accessories available for easy and quick installation

Legend

DR = Deep Red
B = Blue
W = White
FR = Far Red
LB = Low Blue
MB = Medium blue
HB = High blue
HO = High Output
RSE = Rose

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[1] The published value represents the total photon flux from 400 -800nm.
[2] Including the mounting profile integration of a 40x40mm profile.
[3] 50-60Hz.
[4] 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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For more information about Philips Horticulture LED Solutions visit:
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