

# 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



HORTICOOP  
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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  $\mu\text{mol/s}$  per module at a very high efficacy of up to 3.3  $\mu\text{mol/J}$ . That makes it a highly efficient replacement and energy-efficient supplement for traditional lighting systems.

## Product specifications

Spectral version		Deep Red/Blue types					Deep Red/White types							Deep Red/White/Far Red types types <sup>1</sup>				
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	$\mu\text{mol/s}$	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	$\mu\text{mol/J}$	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

<sup>1</sup> = Draft

Dimensions <sup>2</sup>	cm	<b>Length:</b> 127	<b>Width:</b> 5	<b>Height:</b> 11
Weight	kg	3.65		
Power input <sup>3</sup>	VAC	400		
Power factor	VAC	> 0.95 @ 400		
Rated Average Lifetime <sup>4</sup>	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		



## 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.

## Legend

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



<sup>1</sup> The published value represents the total photon flux from 400 - 800nm.

<sup>2</sup> Including the mounting profile integration of a 40x40mm profile.

<sup>3</sup> 50-60Hz.

<sup>4</sup> 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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