

# PHILIPS

Horticulture LED

GreenPower  
LED toplighting linear



## Full flexibility for optimal uniformity

Whether you want to increase yields, move to predictable year-round production, improve quality or shorten growth cycles, you can achieve it with the Philips GreenPower LED toplighting linear.

GreenPower LED toplighting linear is the product you'll need when light uniformity is key. It offers full flexibility in mounting the lights by using a separate c-profile. The result is optimal vertical light distribution and horizontal uniformity in cases where crop heights are limited or lower light levels are required. The linear range's efficacy boosts up to  $3.4 \mu\text{mol/J}$  and has an option to dim the lights to let you set and adjust the light levels when you need to.

Successful projects were installed 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 benefits

- Can be installed in any greenhouse situation, including in cases of lower light levels or limited height
- Maximal horizontal light uniformity and vertical light distribution to ensure uniform growth
- Efficacy up to  $3.4 \mu\text{mol/J}$
- Dimmability lets you set the proper light level at any given time and increase efficacy.
- Uses 50% less energy than HPS lights



# Power up when flexibility is key

## Uniform crops and convenient installation

The advanced LED technology in our GreenPower LED toplighting linear delivers maximal horizontal light uniformity and vertical light distribution. This ensures uniform growth for every plant in your greenhouse to help you realize a higher return on each crop. The grow light 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.

## GrowWise Control System enables dimming

GreenPower LED toplighting linear can be dimmed to 10% of its maximal photosynthetic photonflux in combination with the GrowWise Control System to improve the efficacy. This allows growers to dim the lighting for reasons of additional energy saving during peak hours or to mimic the dusk to dawn interval and enhance results for specific crop. The grow light 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.

Dimming will work reliable without the need of specific control cables. The GrowWise Control System can be used standalone or can be connected and controlled via your climate computer.

## Efficient output

Our GreenPower LED toplighting linear offers light output levels that typically range between 560 to 1000  $\mu\text{mol/s}$  per module at a very high efficacy of up to 3.4  $\mu\text{mol/J}$ . That makes



it a highly efficient replacement and energy-efficient supplement for traditional lighting systems.

## Reliable, low-maintenance design

The GreenPower LED toplighting linear 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 <sup>1</sup>			
Spectral code		LB	LB*	MB	LB	LB*	MB	MB*	HB*	FR_1	FR_1*	FR_2	RSE*
Typical photon flux	$\mu\text{mol/s}$	620	1000	620	620	1000	620	1000	1000	590	900	560	900
Power consumption (max.)	W	185	305	190	195	315	205	325	325	195	285	210	285
Efficacy	$\mu\text{mol/J}$	3.4	3.3	3.3	3.2	3.2	3.0	3.1	3.1	3.0	3.2	2.7	3.2

Dimensions <sup>2</sup>	cm	Length: 127	Width: 5	Height: 11
Weight	kg	3.65		
Power input <sup>3</sup>	VAC	400		
Power factor (50-60 Hz)	VAC	> 0.95 @ 400		
Rated Average Lifetime <sup>3</sup>	hrs	L90: 36.000		
Ingress protection rating		IP66		
Cooling		Passively air-cooled		
Approval marks		CE, RoHS		
Accessories		Full range of accessories available for easy and quick installation		

### Legend

**LB** = Low Blue  
**MB** = Medium blue  
**HB** = High blue  
**RSE** = Rose spectrum

<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> 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.

\* Note: dimmable product between 10% and 100% Photosynthetic Photo Flux.



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