

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 optimized for photonflux density values [PPFD] of $<75 \mu\text{mol}/\text{m}^2$. It is also the optimal grow-light solution for lower greenhouse constructions, still reaching your desired light uniformity. 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 $3.3 \mu\text{mol}/\text{J}$ 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 $3.3 \mu\text{mol}/\text{J}$
- 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.

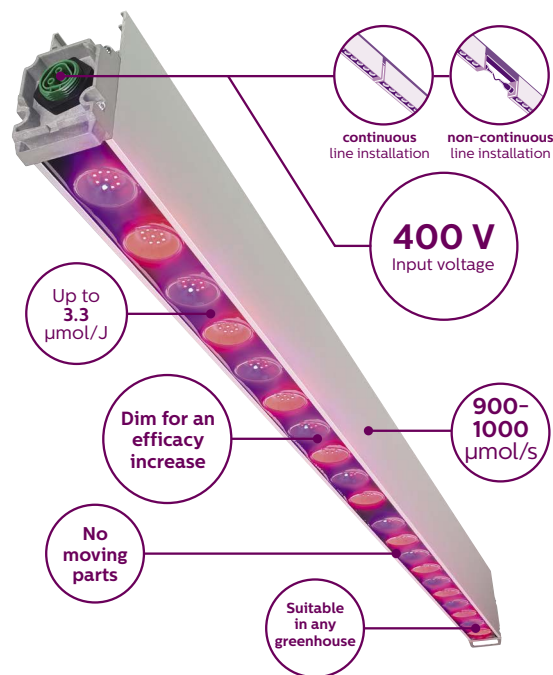
GrowWise Control System enables dimming

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.

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 adjustable light output levels between 100 and 1000 $\mu\text{mol/s}$ when connected to



a GrowWise control system (90-900 $\mu\text{mol/s}$ for specific FR light spectra). The 3.3 $\mu\text{mol/J}$ efficacy makes this proposition 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 (DR/B)		Deep Red/White types (DR/W)			Deep Red/White/Far Red types (DR/W/FR) ¹	
		LB	LB	MB	HB	LB	RSE	
Typical photon flux	$\mu\text{mol/s}$	1000	1000	1000	1000	900	900	
Power consumption (max.)	W	305	315	325	325	285	285	
Efficacy	$\mu\text{mol/J}$	3.3	3.2	3.1	3.1	3.2	3.2	
Efficacy at 50% (dimmed)	$\mu\text{mol/J}$	3.8	3.6	3.5	3.5	3.6	3.6	

Light distribution		Standard Beam -> beam angle 120°
Dimmable		10%-100% - Coded Mains Dim (i.c.w. GWCS)
Input voltage ²	VAC	400V

Dimensions ³	cm	Length: 127 Width: 5 Height: 11
Weight	kg	3.65
Power factor		0.95
Rated Average Lifetime ⁴	hrs	L90 : 36.000
Ingress protection rating		IP66
Cooling		Passively air-cooled
Approval marks		CE, RoHS, ENEC, RCM, EAC
Connector		Wieland RST20i3 Green
Accessories		Full range of brackets available for easy and quick installation

Legend

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

Notes:

¹ The published value represents the total photon flux from 400-800nm.
² 50-60Hz.
³ Including mounting profile integration of 40x40mm profile.
⁴ Lifetime and maintenance values are given at 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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