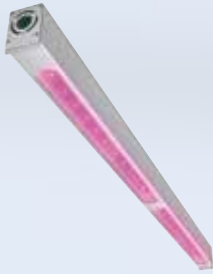


PHILIPS

Horticulture LED Solutions

GreenPower
LED toplighting



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 $3,9 \mu\text{mol/J}$ 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
- Cannabis

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 $3,9 \mu\text{mol/J}$
- 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 trellis or 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 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 light output levels that typically range between 550 to 800 $\mu\text{mol/s}$ per module at a very high efficacy of up to 3,9 $\mu\text{mol/J}$. 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.

Specifications 200-400V

Spectral version		Deep Red/Blue types (DRB)			Deep Red/White types (DRW)		Deep Red/White/Far Red types (DRWFR) ¹	Vision White
Spectral code		LB	MB	HB	LB	MB	FR_2	VSN2
Typical photon flux	$\mu\text{mol/s}$	550	550	550	550	550	550	550
Power consumption (max)	W	142	145	153	149	153	173	194
Efficacy		3,9	3,8	3,6	3,7	3,6	3,2	2,8

Specifications 277-400V

Spectral version		Deep Red/Blue types (DRB)		Deep Red/White types (DRW)		Vision White	
Spectral code		LB	MB	LB	MB	VSN2	EBW
Typical photon flux	$\mu\text{mol/s}$	800	800	800	800	700	720
Power consumption (max)	W	217	230	238	238	253	234
Efficacy	$\mu\text{mol/J}$	3,7	3,5	3,4	3,4	2,8	3,1

Note: 200-400V products are dimmable between 35% - 100% and 277-400V products are dimmable between 25% - 100% Photosynthetic Photon Flux 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 factor	VAC	> 0.95 @ 400 VAC
Lifetime*	hrs	Q90: 36.000; Q70: 50.000
Ingress protection rating		IP66, UL/CSA rating: Suitable for dry, damp and wet locations
Cooling		Passively air-cooled
Approval marks		UL/CSA
Accessories		Full range of accessories available for easy and quick installation

Legend

LB = Low Blue
 MB = Medium blue
 HB = High blue
 VSN2 = Vision - White spectrum
 EBW = Efficient broad white
 FR_1...5 = Far Red recipes 1...5

All TLL product are prepared to work with GWCS (Coded Mains) protocol CMv1 / CMv2. This means that no control wires are needed. The modules will operate in combination with Standard and High Output GWCS transformers/transmitters.

* Efficacy typical and electrical characteristics are defined $T_a=25^\circ\text{C}/77^\circ\text{F}$. Driver Lifetime is based @ T_c max 85°C , Flux maintenance guaranteed @ T_a Max 40°C . 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# 44422 957 22639). Please protect eyes for the 300-700 nm range by wearing approved protection glasses.



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Write us an e-mail: horti.info@signify.com

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Philips Horticulture LED Solutions
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