

PHILIPS

Full flexibility for optimal uniformity

Philips GreenPower toplighting linear 2.4

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 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 3.7 µmol/J and has an option to dim the lights to let you set and adjust the light levels when you need to.

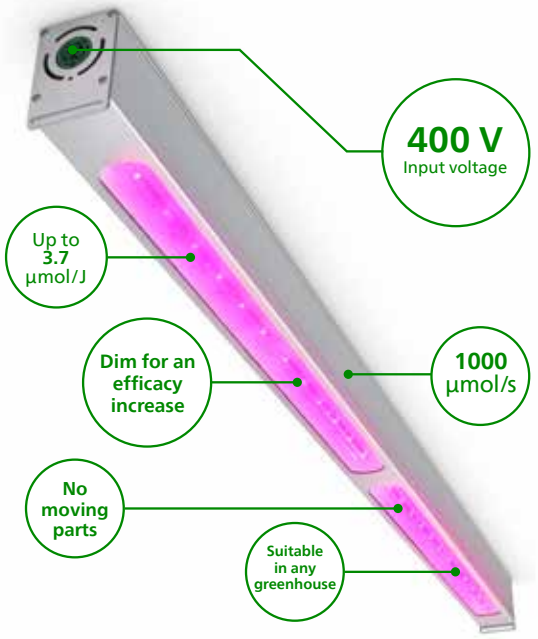
Successful projects were installed in:

- 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 3.7 µmol/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 30%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 capabilities require the GrowWise Control System. It can be used as a standalone or it can be connected and controlled via your climate computer.

Efficient output

Our GreenPower LED toplighting linear offers adjustable light output levels between 300 and 1000 µmol/s when connected to a GrowWise control system. The 3.7 µmol/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	Deep Red/White	Deep Red/White	Deep Red/White/ Far Red
Spectral code		LB	LB	MB	
Typical photon flux	µmol/s	1000	1000	1000	1000
Power consumption (max.)	W	268	285	295	289
Efficacy typical[1]	µmol/J	3.7	3.5	3.4	3.5

Light distribution		Standard Beam -> beam angle 120°
Dimmable		30%-100% - Coded Mains Dim (i.c.w. GWCS)
Input voltage	VAC	400V, 50-60Hz

Dimensions[3]	cm	**Length**: 127 **Width**: 6 **Height**: 8
Weight	kg	3.25
Power factor		0.95
Rated Average Lifetime[1,2]	hrs	Q90 : 36.000
Ingress protection rating		IP66
Cooling		Passively air-cooled
Approval marks		CE, RoHS, ENEC, RCM
Connector		Wieland RST20i3 Green
Accessories		Full range of brackets available for easy and quick installation

Legend
LB = Low Blue
MB = Medium blue

Note: The dimmable product have the option to tune the photon flux between 30% and 100%. The efficacy for dimmable products is given for 100% photon flux. IP66 covers 100Kpa = 1 bar water pressure. To avoid damaged gaskets Signify advices NOT to clean this product with water power jets.

[1] Efficacy typical, Rated average lifetime and Max. case temperature, at Tambient = 25 °C / 77 °F.

[2] 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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