

PHILIPS

Horticulture LED

GreenPower LED
production module



Full control and flexibility to optimize multilayer crop cultivation

Whether you use a multilayer system to grow the crispiest lettuce, the tastiest basil, or other vegetables or fruits, the GreenPower LED production module 3.1 enables you to optimize your lighting for every single crop to reach your business goals. Gain an edge in your market by tuning our dedicated light recipes to accommodate different growth stages, pre-harvest treatments, new crops. Thanks to the wide beam optics and high light output, this robust all-round module will prove to be a very economic investment.

Our GreenPower LED production module 3.1 has been developed for growers who are looking for more flexible and cost-efficient ways to use LED grow lights to improve crop results and operational efficiency in closed, climate-controlled cultivation facilities. This module is ideal for multilayer systems to grow:

- Lettuce and other leafy greens
- Herbs
- Strawberries and other soft fruits
- Young plants

The best light for every crop

With our solution you can easily adapt the color spectra and light levels of various dedicated light recipes to meet the needs of different crops and growth phases. By optimizing these parameters, you can improve the quality, consistency and yield of your fresh produce. You can also steer specific plant characteristics, such as compactness, color intensity and taste to fit local customer and market requirements. This can be easily managed via the Philips GrowWise Control System on your PC, tablet or smartphone.

Key benefits

- Adjust color and light level to optimize the growth cycle
- Less modules needed due to wide beam optics
- Provides high light output to maximize crop growth

Make the most of your lighting

Full flexibility

The production module 3.1 is available in different versions and lengths to fit your preferences. The standard on-off modules come with our proven light recipes. Once connected to the GrowWise Control System (GWCS) these modules become controllable allowing adjustments of color and light levels. This gives you full flexibility to create and control of your own time-based recipes.

More choice of flexible and cost effective solutions

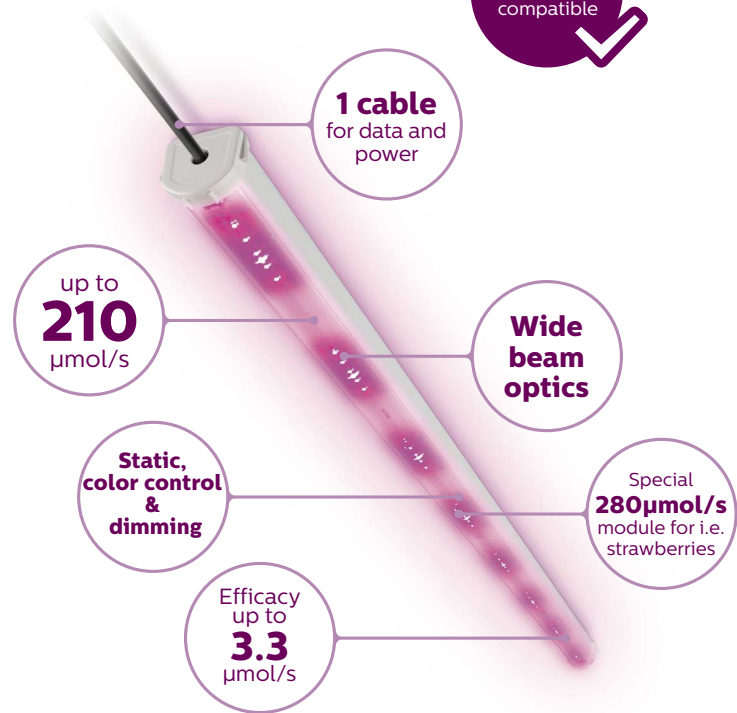
The new C4 production modules offer you the choice between cost effective C4 modules and Research versions offering more flexibility at a high efficacy. Operational costs are now lower thanks to the increased efficiency and continued robust design, high light output and long lifetime. You can count on consistent production with the very high light uniformity - day after day.

Easy installation

The modules are compatible with standard Wieland connectors, which can be easily connected and disconnected and comply with IP66 and UL ratings for wet conditions. We offer 3 standard mounting brackets for easy installation in any multilayer set-up.

Expert support

Your Philips LED lighting solution is backed by expert know-how and support to help you achieve the best results and maximum profit for your specific situation. You benefit from our unique light recipes for a variety of crops, which are the result of years of research by our plant specialists collaborations with leading horticultural research facilities.



Preliminary product specifications EU/APR/JP

| Spectrum | DRB | | | | DR/B/FR | | | DR/W | | | DR/W/FR | | | DR/B/W/FR | | | DR/B/W/FR_R | DR/B/W/FR | | |
|--|-------------------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|---------|-------|-------|-----------|-------|-------|-------------|-----------|-------|-------|
| Length (cm) | 120 | | 150 | | 120 | 150 | 240 | 120 | 150 | 240 | 120 | 150 | 240 | 120 | 150 | 240 | 120 | 150 | | |
| Blue level | LB | HB | LB | HB | LB | LB | LB | LB | LB | LB | LB | LB | LB | LB | LB | LB | LB | LB | | |
| Type | Static & Colour Control | | | | | | | | | | | | | C4 | C4 | C4 | C4-R | C4-R | SB | |
| Typical photon flux | μmol/s | 168 | 168 | 210 | 210 | 168 | 210 | 210 | 168 | 210 | 210 | 168 | 210 | 210 | 168 | 210 | 210 | 168 | 210 | 280 |
| Power nominal static vs colour control | W | 51/70 | 56/70 | 64/88 | 70/88 | 51/70 | 64/88 | 66/88 | 58/70 | 73/88 | 76/88 | 58/70 | 73/88 | 75/88 | 0-70 | 0-88 | 0-88 | 0-70 | 0-88 | 88/88 |
| Efficacy nominal static | μmol/J | 3.3 | 3.0 | 3.3 | 3.0 | 3.3 | 3.3 | 3.2 | 2.9 | 2.9 | 2.8 | 2.9 | 2.9 | 2.8 | < 3.2 | < 3.2 | < 3.2 | < 3.3 | < 3.3 | 3.2 |

| | | 120 | 150 | 240 |
|-------------------------------------|--------|--|------------|------------|
| Length | cm | 120 | 150 | 240 |
| Weight (driver included) | kg | 1.25 | 1.45 | 2.05 |
| Typical photon flux | μmol/s | 168 | 210 | 210 |
| Power (nominal max.) | W | 51-58 70 | 64-73 88 | 66-76 88 |
| Efficacy | μmol/J | Up to 3.3 | | |
| Beam width | | 140° | | |
| Power input ¹ | V AC | 120-277 | | |
| Power factor | | > 0.9 at full load | | |
| Rated average lifetime ² | hrs | L95, 36,000 hrs | | |
| Ingress protection rating | | IP66 | | |
| Cooling | | Passively air-cooled | | |
| Approval marks | | CE, RCM, PSE | | |
| Warranty | | 3 years | | |
| Accessories | | Comprehensive range of accessories available for easy and quick installation | | |

Legend

- DR** = Deep Red
- B** = Blue
- FR** = Far Red
- W** = White
- LB** = Low Blue
- HB** = High Blue
- R** = Research

¹ 50-60 Hz.

² 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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Write us an e-mail: horti.info@signify.com

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