

We'll make your business grow with LEDs optimized for horticulture, enabling you to design your ideal solution.



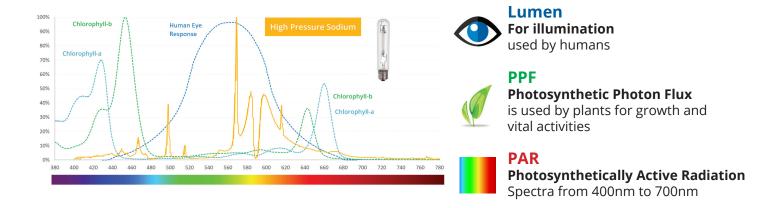
"LED horticultural luminaires are forecast to experience astronomical growth over the next 5 years" 1

Industry experts predict that LEDs for horticulture applications will experience dramatic growth, with fixture sales expected to increase at an astounding 30% CAGR during 2018-2022².

Fueling this expansion is the fact that the economics of LEDs now make sound financial sense for growers, and will increasingly become the only practical solution for large-scale deployments.

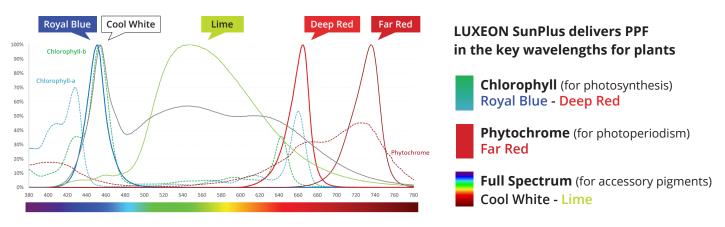
Conventional lamps were designed for the human eye response, not for plants

HPS lamps miss the chlorophyll absorption peaks, the wavelengths that drive photosynthesis



LUXEON SunPlus LEDs are optimized for horticulture

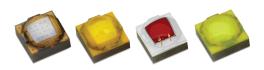
Engineered to target the right wavelengths and binned to maximize growth in the most efficient way



LUXEON SunPlus Series LEDs

Delivering precise light to improve crop yield

LUXEON SunPlus 20 Line



- Targets the key wavelengths where plants absorb photons (450nm & 660nm)
- High PPF to maximize the photon output of the system
- Optical design optimal for directional applications













LUXEON SunPlus CoB Line

Best for Directional High Lumen PPF

- · Fixed spectra for quick designs
- Optimal design for directional applications
- 200W single emitter solution in 32mm LES

Available Spectra



Typical viewing angle: 115°

LUXEON SunPlus 35 Line



- Unique Purple LED enabling a fixed spectra for quick designs
- · Perfect uniformity at short distances
- Photon output per LED enables vertical farming













Purple 25% Blue

LUXEON SunPlus Matrix Platform

(Fully Assembled Light Engine)



Best for Ease of Design and Fast Time to Market

- Fully assembled light engine on a flexible or rigid substrate, enabling leading luminaire solutions and accelerating time to market
- Turnkey solution with full flexibility to fit existing fixtures
- Oberon Intelligent assembly for consistent growth performance. Can also be provided as a tailored solution per customer's spectral requirement



Why LUXEON SunPlus LEDs?

Higher Yield:

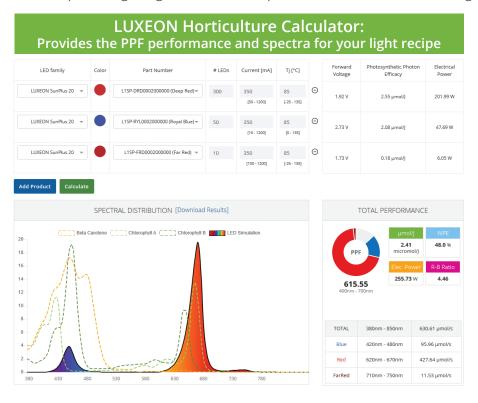
• Optimized LEDs that perfectly match the chlorophyll absorption peaks to drive intense photosynthesis and obtain greater yield, increased crop quality and consistent growth

Lower Cost of Ownership:

- High efficiency to reduce energy consumption, water usage and A/C costs
- · Leading PPF maintenance and reliability reduces or eliminates fixture/lamp replacements

Better for Growers:

- · Higher quality of light and reduced heat for a better working environment
- LEDs do not break like lamps, saving the greenhouse from poisonous chemicals or broken glass



About Lumileds

Companies developing automotive, mobile, IoT and illumination lighting applications need a partner who can collaborate with them to push the boundaries of light. With over 100 years of inventions and industry firsts, Lumileds is a global lighting solutions company that helps customers around the world deliver differentiated solutions to gain and maintain a competitive edge. As the inventor of Xenon technology, a pioneer in halogen lighting and the leader in high performance LEDs, Lumileds builds innovation, quality and reliability into its technology, products and every customer engagement. Together with its customers, Lumileds is making the world better, safer, more beautiful—with light.

To learn more about our lighting solutions, visit lumileds.com.



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