

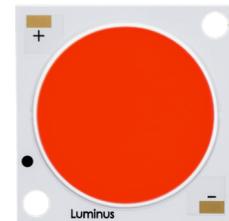


## Cannabis Market Will Achieve New Growth With New Horticulture COB LEDs from Luminus

*Best in class PPF and PPF/W COBs replace HPS Lamps*

SUNNYVALE, Calif., September 20, 2018 [Luminus Devices, Inc.](#), a global manufacturer of high-performance LEDs and solid-state light sources, has released its Horticulture COBs with spectrums targeted for cannabis production. The new devices are available with 14mm and 22mm light emitting surfaces (LES) and provide best in class PPF and PPF/W performance. With operating power from 25W to 125W, the PPF range extends from 45 $\mu$ mol/s to over 150 $\mu$ mol/s with the larger 22mm LES.

“Horticulture COBs are perfectly suited to replace HPS lamps for growing ‘light-hungry’ crops such as Cannabis as they offer high PPF output combined with excellent efficacy. Additionally, COB’s broad ecosystem makes it easy for fixture manufacturers to develop new lighting solutions for any indoor operation,” said Yves Bertic, senior director of global product marketing. COBs typically outperform HPS lamps when it comes to power consumption, spectrum, efficiency, and lifespan.



The new COBs are available with two spectra options; the first is a phosphor-converted Deep Red spectrum with 1:1 Blue to Deep Red intensity ratio and the second has a 1:2 Blue to Deep Red intensity ratio. Though the color of the COBs is often referred to as “purple”, it has two peaks, one at 450nm and one at 640nm.

“Beyond the cannabis market, the need for improved crop yields is more important than ever, and our new horticulture COBs enable innovative luminaires that directly address the market’s needs,” said Bertic “With the ability to customize spectra to specific crops or classes of crops, we foresee a portfolio that supports growers around the world.”

Luminus continues to expand its horticulture offering by adding new package types and spectrums so that growers and farmers can maximize production yields, become more sustainable and reduce costs.

### **About Luminus Devices, Inc.**

Luminus, Inc. develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Combining technology originated from the Massachusetts Institute of Technology (MIT) with innovation from Silicon Valley, Luminus offers a comprehensive range of LED solutions for global lighting markets as well as high-output specialty lighting solutions for performance-driven markets including horticulture, consumer displays,



entertainment lighting and medical applications. Luminus is headquartered in Sunnyvale, California. For additional information please visit <http://www.luminus.com>.

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