Luminus introduces Online Horticulture Calculator

Users can easily create and modify custom horticulture spectral solutions

SUNNYVALE, Calif., October 14, 2020, Luminus Devices new horticulture calculator offers system engineers the opportunity to choose from over 30 of Luminus horticulture LEDs and create their own 'recipe' for specific luminaires and to save and output a complete LED bill of materials. System designers can select multiple LEDs and establish operating conditions, including current and junction temperature, and calculate for photosynthetic photon flux (PPF), optical power, and electrical power. Engineers can test virtually unlimited variations and immediately see spectral and performance data.

"Our extensive portfolio of horticulture LEDs span the photo biological spectrum from 360nm to 800nm+. And with three package platforms and five product families, it's easy for our customers to select the best combination of LEDs to achieve the specific PPF or PPF per Watt that they need," said Yves Bertic, Senior Director of Global Product Marketing. "With this new calculator, users can create custom solutions and see in real time how changes in their LED product mix will affect key luminaire parameters."

By using the free horticulture calculator, users can evaluate and compare the results of using mid-power and/or high-power LEDs, packaged LEDs and/or COBs, and ultimately produce a bill of materials with specific part numbers for the mix that serves them best.

Users of the Luminus horticulture calculator can adjust inputs to achieve desired results for the following metrics:

Inputs/Selections	Outputs
LED part number	Forward Voltage (V)
Number of LEDs	Electrical Power (W)
Drive Current	Optical Power (W)
Temperature	Wall Plug Efficiency (%)
	PPF (umol/s) (400-700nm
	PF (umol/s) (300-830nm)
	PPF/W (400-700nm)
	PF/W (300-830nm)
	PF% (300-830nm)

About Luminus Devices, Inc.

Luminus Devices, 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 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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