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Revolutionary Innovation from Luminus: World's First Round LED

Big Chip Round LEDs boost system-level throughput and efficiency, opening new markets to solid-state lighting



Frankfurt, Germany, Light + Building, April 19, 2012 —[Luminus Devices, Inc.](http://www.luminusdevices.com), announced today it will be releasing a family of round LEDs that will accelerate the adoption of solid-state technology by displacing conventional light sources in high brightness lighting applications.

“Optical architectures of high power entertainment fixtures are frequently defined by a circular aperture, so using a traditional square LED was like putting a square peg into a round hole,” said Don McDaniel, Global Marketing Director for Entertainment Lighting at Luminus. “Our new round LED increases system-level efficiency by as much as 30%, enabling our customers to use a single LED to replace a 250W HID lamp.”

Other markets and applications that will benefit from Luminus’ round LED technology include medical, machine vision, portable and retail spot lighting. “There are obvious benefits to fiber coupled lighting systems,” explained Chuck DeMilo, Global Director of Product Marketing, Lighting Business Group, at Luminus. “The fiber is round, the optic is round, but the LED has always been square – it was an optical mismatch. This has now been resolved with the round LED breakthrough that will enable us to replace the 300W Xenon lamp in an application like endoscopy.”

According to Luminus President and CEO Keith T.S. Ward, “We made a decision to invest significantly in R&D and operational infrastructure to revolutionize LED lighting – making the round LED concept a reality. The importance of this innovation can’t be overstated, and our customers are extremely excited.”

The company's first round LED product will be commercially available in Q3 this year. Luminus is exhibiting in Hall 4.2, Stand G02 at Light + Building, April 15-20 at Messe Frankfurt in Frankfurt, Germany, where its ground-breaking round Big Chip LEDs are on display. In Europe, these will be available through EBV Elektronik. For more information on how Luminus is enabling the conversion of today's conventional lighting fixtures to LED, visit www.luminus.com.

About Luminus Devices

Luminus Devices is a leading developer and manufacturer of LED technologies and solutions for the multi-billion dollar global illumination market. Luminus' high efficacy and high brightness LEDs are used by many of the world's biggest companies for general lighting, projection display, entertainment, ultraviolet curing, medical, portable, transportation and digital signage lighting applications. Luminus has more than 144 patents/patents pending worldwide, and its revolutionary Big Chip LED™ technology enables new markets for solid-state lighting. Headquarters and wafer fab manufacturing facilities are located near Boston, Massachusetts, U.S.A. For more information, visit www.luminus.com