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Lumileds Ships Industry's First Warm White LED

*New Luxeon Product Delivers Typical CRI of 90 and 3200K CCT,
Offering Incandescent-Style Illumination with Solid-State Benefits*

SAN JOSE, CA (October 27, 2003) — Lumileds Lighting is now shipping a warm white version of its high-brightness Luxeon LEDs, becoming the first manufacturer to deliver a warm white emitter in production quantities. The new product opens the door for significantly greater use of solid-state illumination in interior and task lighting applications by overcoming the resistance of lighting designers and consumers to the cooler blue tones of conventional white LEDs.

Luxeon warm white provides an industry-leading color rendering index (CRI) of 90, a correlated color temperature (CCT) of 3200K, and an average light output of 20 lumens that is up to 10 times brighter than standard LEDs. In addition, it is the first solid-state light source to closely match the black body illuminant spectrum across the visible colored range. These characteristics, based on advanced phosphor material technology developed by Lumileds engineers, make it possible for the first time to create LED-powered luminaires that achieve lighting effects comparable to those produced with incandescent and halogen bulbs.

The new warm white emitter also offers the same industry-leading lumen maintenance as other Luxeon LEDs, with an expected retention of 70% of its initial light output through 50,000 hours of operation under typical conditions.

Potential applications range from hospitality lighting, including retail stores, restaurants and hotels, to luminaires and fixtures for display cases and cabinets, task and accent lighting, and cove and architectural lighting.

"We are already using warm white Luxeon LEDs for two lighting manufacturers — one that is producing a bedside table lamp powered by the new emitters, and another that is fabricating over 600 Luxeon-based fixtures for a major new public building in Barcelona," said Dave Simpson, International Manager of Semai Lighting,

a provider of custom lighting design services based in Spain. "Previously many of the designers we talked to balked at the coldness of solid-state illumination, but Luxeon warm white has overcome any objections they had."

"We have had customers waiting for luminaires based on warm white LEDs, and we're currently developing both display case lighting and overhead fixtures for high-end yachts with the new Luxeon product," said Chris Christiani, Vice President at Dialight, a lighting manufacturer based in Farmingdale, NJ, that specializes in LED applications. "We already know about a major installation for our new display case lighting in a chain of upscale retail stores that wants LED-based illumination in part because it will avoid having their products feel hot when they are removed from a case to show a customer."

In addition to its breakthrough color temperature, the new Luxeon light source allows manufacturers to take advantage of the design benefits common to all LEDs, including an extremely small footprint, long life, low energy consumption, and a beam that is cool to the touch and contains no UV.

Specifications and Availability

Luxeon warm white emitters are immediately available in both unmounted and mounted form in the batwing radiation pattern. All Luxeon products are available from Lumileds Lighting through Future Electronics (1-800-FUTURE1).

About Lumileds Lighting

Lumileds Lighting is the world's leading manufacturer of high-power LEDs and a pioneer in the use of solid-state lighting solutions for everyday purposes including general lighting, automotive lighting, traffic signaling, signage and LCD backlighting. The company's patented Luxeon Power Light Sources are the first to combine the brightness of conventional lighting with the small footprint, long life and other advantages of LEDs. Lumileds also supplies core LED material and LED packaging, and manufactures billions of LEDs annually. A joint venture between Agilent Technologies and Philips Lighting, Lumileds is headquartered in San Jose, California, with operations in the Netherlands, Japan and Malaysia and sales offices throughout the world. For more information, call Lumileds at 408-435-6111 or visit www.lumileds.com.