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Lumileds Releases Reference Design for LED-Based Camera Phone Flash

*Market's Brightest Flash Solution for Mobile Phone Cameras
Delivers 72 Lumens at Up to 2 Meters Utilizing Lumileds Luxeon LEDs*

SAN JOSE, CA (August 11, 2003) — Lumileds Lighting today announced the availability of a reference design for rapid development of LED-based camera phone flash applications utilizing Luxeon™ LEDs, the world's brightest light emitting diodes. A single Luxeon emitter can be used to produce 72 lumens of light at distances up to 2 meters (6.5 feet), providing significantly more illumination than conventional LED sources and enabling flashes on mobile phone cameras to approach the light levels of those on digital still cameras for the first time. This brightness also will allow a Luxeon-powered flash to double as a mobile phone flashlight for user safety.

Available for download at www.lumileds.com/pdfs/DR01.PDF, Lumileds' suggested design will deliver a 72-lumen flash with peak illuminance of up to 142 lux at half a meter, 36 lux at one meter, and 9 lux at 2 meters. In contrast, other LED-based mobile camera flashes yield no more than 30 lux of illumination at half a meter.

In addition to Luxeon's industry-leading brightness, the design enables mobile phone manufacturers to take advantage of the small footprint, long life and instant-on capabilities common to all solid-state lighting. Luxeon devices can be turned on and off in less than 1 microsecond, eliminating the charging time required by conventional discharge lamps.

The reference design, called "Luxeon for Camera Phone Flash, PDA and DSC Applications," covers optical, mechanical, thermal and electrical design components as well as image sensor requirements and performance results. A parts list is included. For more information pertaining to the reference design, email julian.carey@lumileds.com.

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 and Malaysia and sales offices throughout the world. For more information, call Lumileds at 408-435-6111 or visit www.lumileds.com.

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