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LEDiL MIRELLA REFLECTOR SERIES – FOR DEVELOPMENT OF MR16 LAMPS POWERED BY A SINGLE LED
Optimized for use with larger single-die lighting-class LEDs and COB array LEDs

SALO, FINLAND, APRIL 10, 2012 – Advancements in brightness and efficacy of lighting-class LED's means today's lighting designers have the opportunity to replace energy-inefficient track lights and retail spot lights with a single, highly efficient solid-state light source. LEDiL enables the development of MR16 and similar light fixtures with its new MIRELLA Reflector Series, a 50mm diameter reflector series available in spot, medium and wide beam angles.

Measuring just 23.9mm in height, MIRELLA is precision-engineered to produce a tight beam as narrow as 8.5° FWHM with the spot version, depending on the LED used. Beam angles of 25° and 44° FWHM can be expected with the medium and wide versions of the product. Manufactured from impact-resistant polycarbonate, MIRELLA is metallized and lacquer-coated for durability and an aesthetically pleasing appearance familiar to more expensive, yet less precise, metal reflectors. When a more diffuse beam is appropriate, MIRELLA is available with an optional secondary diffusing lens molded from PMMA, a material with outstanding light transmission properties.

The design provides two ways to integrate MIRELLA into fixture designs. The product is available with optional mounting pins, which can be fastened to the PCB using an approved adhesive. The outer flange, which is ~5mm wide, can be used to mount MIRELLA directly to the fixture. The open design of the reflector cup facilitates air flow through the fixture to enhance thermal performance of the system.

Designers also benefit from the ability of the molded reflector to gain UL 94 V-2 flammability rating and compliance to the RoHS directive.

Enabled applications are many, including accent and task lighting, display lighting in museum, art galleries and retail and entertainment venues. MIRELLA is ideally used in track lighting, recessed lighting or pendant lights, or in outdoor modules mounted below or at ground surface. Since many MR lamps utilize traditional halogen light sources, which use filaments that reach at least 500°F, MR lamps using LED technology are preferred as there is no heat emitted in the light beam.

Lighting designers are rapidly developing LED-based solutions that take advantage of the up-to 80% reduction in power afforded by solid-state technology and the long-life span of LEDs. LEDiL's MIRELLA reflectors are another step forward in the evolution of solid-state lighting technology and are available for delivery from multiple authorized partners in LEDiL's worldwide distribution network and samples are provided to qualified accounts that intend to utilize the product in an OEM application. LEDiL will continue to qualify other LEDs for use with MIRELLA and latest LED qualifications or distributor inventory can be viewed on-line at www.ledil.com.

ABOUT LEDiL Oy

The only true specialist in the field of secondary optics for high-power and lighting-class LEDs, LEDiL has been producing precision-engineered optics and reflectors since 2002 and now boasts nearly 1000 standard products optimized for use with LEDs produced by the world's prominent LED manufacturers. Custom solutions are also commonly developed with minimal end-user tooling investment required. With production in Finland and China and a global network of authorized distributors, LEDiL's products are market-competitive and readily available. For more information, including a high-resolution photograph, contact: Robert Derringer at bob.derringer@ledil.com.