



Luminus Introduces New MP-5050 Series High-Power LEDs for Demanding Lighting Applications

SUNNYVALE, Calif., July 24, 2025, [Luminus Devices](#) a global manufacturer of high-performance LEDs and solid-state light sources, announced today product line additions to the MP-5050 Series high-power LEDs. The MP-5050-240P and MP-5050-810P models deliver industry-leading efficiency and reliability, designed specifically for demanding outdoor and commercial lighting applications. "Our new MP-5050 Series represents a significant advancement in LED technology, providing lighting manufacturers with unprecedented efficiency and design flexibility," said Kenan Chen, Senior Product Marketing Manager at Luminus. "These components deliver exceptional performance while reducing energy consumption, making them ideal for a wide range of professional lighting applications."

Key Features and Benefits

- **Unmatched Efficiency:** Delivers industry-leading efficacy of 244 lm/W at 4000K for maximum energy savings.*
- **Long-Lasting Performance:** Meets DLC Premium standards with L90 \geq 36,000 hours, ensuring extended lifespan and reliability.
- **Rugged Design:** Low thermal resistance enables superior heat dissipation, optimizing efficiency and durability, while ensuring full compatibility with standard pick-and-place automation and reflow soldering for effortless manufacturing integration.
- **Engineered for Demanding Applications:** Ideal for expressway lights, streetlights, area lights, parking lots, post-top fixtures, floodlights, stadiums, tunnels, and high-bay lighting.
- **Flexible Voltage Options:** Available in 6V (240P) and 24V (810P) for seamless compatibility with cost-effective, high-performance drivers.
- **Precision Light Control:** Square LES design enhances uniform light distribution and improves optical control for precise beam direction.
- **Superior Color Consistency:** Available in 3-step and 5-step MacAdam ellipse binning for excellent color uniformity across installations.

*at 70CRI

Technical Specifications

The MP-5050 Series features a 5.0mm x 5.0mm package with high efficacy and excellent thermal performance. The MP-5050-240P operates at 180mA with a forward voltage of 5.2-5.6V, while the MP-5050-810P operates at 45mA with a forward voltage of 20-22V. Both models are available in multiple color temperature options ranging from 2700K to 6500K and CRI options of 70, 80, and 90+, allowing designers to select the ideal combination for their specific application requirements. Both models feature a viewing angle of 120 degrees and an operating temperature range of -40°C to +105°C, making them suitable for a wide variety of environmental conditions. Their low thermal resistance of 2°C/W ensures reliable operation and extended lifespan even in challenging environments.

The MP-5050-240P and MP-5050-810P LEDs are available now through Luminus' global distribution network. For more information, technical specifications, or to request samples, please visit www.luminus.com or email sales@luminus.com.

About Luminus Devices

Luminus Devices 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 and laser 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>.

Contact: Tom Jory

E-mail: tjory@luminus.com