

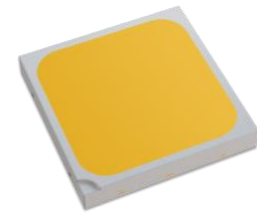


Lumileds Delivers 199lm/W for Outdoor and Industrial Lighting with New LUXEON 5050 HE Plus LEDs

Higher LED efficacy drives lower energy costs even as rates increase

San Jose, CA – September 30, 2024—Efficiency and energy sustainability are key drivers of LED selection for industrial and outdoor lighting applications. With its introduction of [LUXEON 5050 HE Plus](#), Lumileds can deliver 199 lumens per Watt and 746 lumens of high-quality light output and reduce application power consumption by 18% or more in critical infrastructure applications common to cities and businesses around the world. Further, the lower energy consumption of LUXEON 5050 HE Plus supports the transition to low-carbon or no-carbon electricity supply. OEMs can achieve greater sustainability in their manufacturing process by reducing the physical material in both the heatsink and the system’s driver.

Fixture system example 4000K, 70CRI	Standard 5050 LED	LUXEON 5050 HE Plus
Fixture output	24,500lm	
Driver efficiency	85%	
Optical efficiency	90%	
# of 5050 LEDs	40pcs	
Fixture power	207W	170W
Application efficacy	119lm/W	144lm/W
LED T _j	96C	89C
Drive current	723mA	633mA
Electricity price	\$0.20/kWh	
Carbon Dioxide Emission per kWh (US 2022 average per U.S. Energy Information Administration)	390 grams	
Energy and cost savings at 10 hours daily use	135kWh/Yr or \$27.01	
Fixture Annual CO ₂ emissions reduction	52.65kg / 116lbs	



LUXEON 5050 HE Plus lowers energy and system costs by delivering the highest efficacy and output 5050 LED for industrial and outdoor lighting applications

As global energy costs continue to increase, efficiency gains pay increasing dividends to end-users and communities that need to lower municipal costs, reduce energy consumption, and support sustainability goals. All these objectives can now be achieved while also addressing dark sky initiatives. With CCT options as low as 1800K and 70 or 80 CRI, LUXEON 5050 HE Plus is the clear choice for on and off grid lighting solutions.

“Efficiency remains the key driver for outdoor and industrial lighting and the focus of our continuous improvement programs,” said Mei Yi, Director of Product Marketing at Lumileds. “The efficacy gains achieved with our LUXEON 5050 HE Plus make it the highest-performing 5050 LED available today and these gains offer dramatic performance advantages for on-grid lighting and solar, off-grid, solutions.”

In addition to the leading efficacy and output combination, Lumileds has:



- Lowered thermal resistance to an Rth of 1.1k/W so that smaller, less costly heatsinks can be used
- Established narrower flux bin widths of 25lm to facilitate accurate system design
- Hot-color targeted the LEDs at 85°C
- Advanced the most robust package to support a maximum drive current of 1.2A.”

LUXEON 5050 HE Plus joins an already powerful portfolio that includes LUXEON 5050 Round, LUXEON 5050 Square, and LUXEON 5050 HE. Both the HE and HE Plus parts have a square light emitting surface. The performance advances available in the HE Plus versions is also available in Lumileds SunPlus 5050 LEDs for the horticulture industry now

All LUXEON 5050 LEDs are immediately available through Lumileds global distribution network.

About Lumileds

Lumileds is a global leader in LED and microLED technology, innovation, and solutions for the automotive, display, illumination, mobile, and other markets where light sources are essential. Our approximately 3,500 employees operate in over 15 countries and partner with our customers to deliver never before possible solutions for lighting, safety, and well-being.

To learn more about our company and solution portfolios, please visit lumileds.com.

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