



Architectural Lighting Solutions

For the perfect effect.



Architectural lighting is the artistic use of illumination to provide an emotionally inspiring connection between structures, materials and people, wherever we are. As the lighting industry's understanding of visual inspiration, circadian rhythms, health and wellness grows, the incorporation of the right light in the right places and at the right time will be increasingly applied in architectural settings. This includes indoor venues such as galleries, hallways, hotels, restaurants and museums. Outdoors, we see architectural lighting beautifying and enhancing more and more spaces including building facades, bridges, statues, fountains, pedestrian walkways and landscaping.



What lighting designers want most

Architectural lighting designers require maximum punch and tailored lumen output from fixtures, a broad color gamut and perfect color mixing, wide to narrow beam angles, the capability to throw short or long distances and tight beam control to minimize light pollution and light trespass. Lumileds has breakthrough products that deliver all these capabilities with best-in-class performance for efficiency, reliability and lifetime, beam control and the ability to pack all the necessary features in compact light sources. Tight time-to-market constraints also spur the use of LUXEON products in the Matrix Platform solutions to hasten to market the best designs in lamps and fixtures.

Together with our customers, Lumileds is making the world better, safer, more beautiful—with light. At Lumileds we're collaborating with our customers to push the boundaries of light. We have an ambitious vision for the future of light, and we're taking the lead. The best innovation happens when great minds work together—when we act with integrity as trusted partners to our customers, honoring commitments, offering deep expertise, and going the extra mile. Because it's only together that we can make the world better, safer, more beautiful—with light.

For companies who require innovative lighting solutions, Lumileds is a global leader employing more than 9,000 team members operating in over 65 countries. Lumileds partners with its customers to push the boundaries of light.

Architectural lighting is the art of accentuating an architectural design with creative lighting solutions.

This art of architectural design with creative lighting fuels an emotional connection between people and works of art, materials and structures that surround us. The finest in architectural lighting makes an amazing design absolutely spectacular. Architectural lighting today often means incorporating the lighting concept at the start of a building, public space or retail environment's design phase – enabling full illumination of distinctive structures that are taller than ever, take on exciting visual shapes and incorporate cutting-edge materials. Proper lighting of coves, entranceways, structures, waterways or landmarks is both

distinct and in harmony with its surroundings. The luminaires, fixtures and lamps that make up the field of architectural lighting products rise to the challenge of accentuating exciting indoor and outdoor spaces by providing compact light sources that artfully combine white light with a whole gamut of colors to illuminate the textures, shapes and beauty of our world.

We help push the boundaries of architectural lighting by consistently redefining light-engine technology.

We work closely with architects and lighting designers to engineer unparalleled LED solutions that deliver functionality and pure aesthetics. Fixture and luminaire designers require a comprehensive portfolio of solutions for indoor and outdoor architectural lighting to create stunning lighting effects for a variety of venues. Lumileds understands lighting's performance needs and the driving force behind the desire for lighting fixtures with integrated wireless lighting controls and other Internet of Things (IoT) based functionality.

Building on a rich color LED heritage to deliver the industry's best quality of light.

More than a decade ago, Lumileds helped pioneer architectural lighting when it launched the LUXEON Rebel Color Line—de facto standard color LEDs in early architectural lighting that has been continually refined and updated to transform color lighting possibilities worldwide. Every succeeding advance in color options, beam angles, punch and long-throw capability, and the integration of the best optics, drivers and wireless control technologies, is proof of our commitment to bringing the seemingly impossible within reach. We work closely with our customers, from project start to finish, to understand and continually improve our LUXEON Color LED Family—ensuring it exceeds expectations at every turn.

LED lighting is rapidly displacing traditional light sources due to LEDs sheer advantages

These advantages include versatility of design and form factor, low power consumption and drastically lower maintenance cost, especially as it relates to incandescent lighting. Even linear fluorescent, compact fluorescent and high intensity discharge (HID) lamps do not provide the quality of light, extended lifetime, color options and wireless control capabilities required for today's smart lighting designs with wireless control and connectivity.

Pioneers such as Lumileds realize the driving force behind the desire for smart, wireless lighting controls and the Internet of Things (IoT) in architectural lighting projects—interior and exterior, residential and commercial. Lumileds has the LED technology, which combines with optical, driver and other component solutions to provide the lamps and fixtures for wall washing, in-ground illumination, cove lighting and back lighting, the top applications for architectural lighting. Only LED fixtures and lamps—in linear and flexible designs, combine increasingly efficient light with superior quality, rich, saturated colors, and the control and connectedness of IoT.¹

Architectural lighting is a rapidly expanding market. A leading analytical firm forecasts that the architectural lighting products sector will to double in size from 2017's size of USD 5.7 billion to USD 10.8 billion in 2021 – a robust CAGR of 17.3%.² Asia is expected to grow even faster at a CAGR of 20%, with the region consuming more than half the global architectural LED products over the next five years.¹ Top drivers for this growth include the rapid infrastructure development in emerging economies and global initiatives to promote energy efficiency, which propel the architectural lighting industry to more widespread incorporation of LED solutions with automated controls for maximal savings.

Lumileds was an early pioneer and partner in architectural lighting, helping to compliment, beautify and energize venues around the world, from project start to finish. With the most comprehensive lines of color and white LEDs, and the most options in form factor, color, beam angle and beam control for luminaire and fixture design, Lumileds helps take your design from amazing to spectacular. Learn how our LUXEON Color Family and Matrix Solutions, together with our world-class support team, can speed to market your most demanding architectural lighting designs.

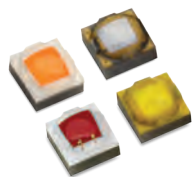
¹ Persistence Market Research, *Architectural LED Products Market Driven by Global Push for Greater Energy Efficiency*, March 13, 2018

² Persistence Market Research, *Global Market Study on Architectural LED Products: Wall Washing & Cove Lighting Applications to Witness Fastest Growth in the Next Few Years*, March 2018

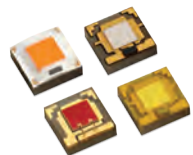




Products – Top picks from our portfolio that add the best value.



LUXEON C Color Line: With an advanced portfolio of color and white LEDs, this innovative line is designed for flawless color mixing. By featuring a single focal length for all colors, LUXEON C Color Line provides consistent radiation patterns from secondary optics and maximizes optical efficiency. Along with a low dome design that keeps the effective light source small while improving light extraction, these LEDs are optimal for the most demanding architectural applications.



LUXEON CZ Color Line: Delivering up to 48% higher “punch” and available in 21 color options, these high performance solutions eliminate crosstalk and ensure a true color point when LEDs are closely packed. Created with the same robust building blocks as the award-winning LUXEON C Color Line, these powerful products feature identical focal length in an undomed design.



LUXEON 2835 Color Line: LUXEON 2835 Color Line is a complete color portfolio offering design flexibility for the dynamic needs of architectural applications.

What makes Lumileds solution better and different?

- Tight beam control, producing a smoother image or allowing for perfect color mixing
- Full gamut of saturated colors, all with the exact same light focal point
- Industry leading performance in output, punch and quality of light
- World-class, in-house phosphor capabilities delivering vivid colors and superb color matching for perfectly consistent scenes and effects

About Lumileds

Companies developing automotive, mobile, IoT and illumination lighting applications need a partner who can collaborate with them to push the boundaries of light. With over 100 years of inventions and industry firsts, Lumileds is a global lighting solutions company that helps customers around the world deliver differentiated solutions to gain and maintain a competitive edge. As the inventor of Xenon technology, a pioneer in halogen lighting and the leader in high performance LEDs, Lumileds builds innovation, quality and reliability into its technology, products and every customer engagement. Together with its customers, Lumileds is making the world better, safer, more beautiful —with light.

To learn more about our lighting solutions, visit lumileds.com.



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