

Illumination Line Card

A comprehensive portfolio of application optimized LUXEON LEDs and the infinitely configurable Matrix Platform

High Power LEDs - Industry leading flux, efficiency and design flexibility

Product	Description	Features and Benefits
LUXEON FlipChip White	Chip Scale Package for maximum design flexibility	 Up to 145 lumens, 148 lm/W at 350mA, 85°C (4000K 70CRI) Direct Attach—no wire bonds for high reliability 1.4mm x 1.4mm and 1.1mm x 1.1mm packages for design flexibility and high packing density
LUXEON M	Brightest, most uniform and highest efficacy multi-die emitter	 High flux >1,100 typical lumens at 700mA, 85°C Thermal resistance of 1.25°C/W enables flexible system design to optimize for lm/\$ and lm/W Best in Class V_f of 11.2V delivering better lm/W than competitive solutions at similar flux levels
LUXEON MZ	Best combination of brightness, uniformity and luminance, enabling precision light control	Highest lumen density for ideal optical control in a 600–1,000+ lumen package High Central Beam Candle Power (CBCP) for portable and spot applications Tighter beam angles for higher quality retrofit lamps and outdoor applications
LUXEON TX	Extreme efficacy and best performance	145+ lm/W, 700mA, 85°C (5000K 70CRI) 1.5A maximum drive current Compact, high lumen package for design flexibility and reduced LED count
LUXEON Z ES	Extreme flux density in a micro footprint package for precise optical control	Micro footprint enables close packaging No dome design allows precise optical control Freedom from Binning enables color consistency

Mid Power & Low Power LEDs - A broad and expanding selection of high performance, reliable LEDs

Product	Description	Features and Benefits				
UXEON 2835C	Perfected performance, built on a proven legacy for higher output ranges in a 3V package	 59 lumens at 120mA (4000K 80CRI) Maximum drive current of 240mA Hot-color targeted at 85°C and 1/9th ANSI micro-binning for tight color control 				
	Perfected performance, built on a proven legacy for higher output ranges in a 6V package	113 lumens at 120mA (4000K 80CRI) Maximum drive current of 240mA Hot-color targeted at 85°C and 1/9 th ANSI micro-binning for tight color control				
JXEON 2835E	Perfected performance, built on a proven legacy for lower output ranges in a 6V package	54 lumens at 60mA (4000K 80CRI) Maximum drive current of 120mA Hot-color targeted at 85°C and 1/9 th ANSI micro-binning for tight color control				
	Perfected performance, built on a proven legacy for lower output ranges in a 9V package	 72 lumens at 60mA (2700K 80CRI) Maximum drive current of 120mA Hot-color targeted at 85°C and 1/9th ANSI micro-binning for tight color control 				
UXEON 3014	Hot-color targeted industry standard package for uniform light	156 lm/W at 60mA (4000K 80CRI) 33 lumens at 100mA max drive for superior value Enables tight color control				
UXEON 3020	Industry's most compact, highest drive current, 3V mid power LED	100 lumens at 240mA (5000K 80CRI) Lumen package of 10–12 lumens (30mA) delivering uniform, smooth lighting Industry standard footprint offering compatibility with existing designs				
JXEON 3030 2D	High flux, hot-color targeted 6V package	160 lumens at 240mA (6500K 80CRI) EMC plastic QFN package delivers superior thermal properties and reliability Tight color control				
JXEON 3030 HV	High flux, hot-color targeted, 24V and 48V mid power packages	117 lumens at 17mA, 48V and 34mA, 24V (4000K 80CRI) Maximum drive current of 30mA for 48V and 60mA for 24V parts Hot-color targeted at 85°C and 1/9 th ANSI micro-binning for tight color control				
JXEON 3535L	3535 footprint LED, delivering the highest efficacy in its class	 46 lumens at 100mA (4000K 80CRI) Maximum drive current of 200mA 1/7th ANSI micro-binning for tight color control Enables T_s points of 105°C which allows for higher board temperatures 				
UXEON 3535L HE	High flux and efficacy in a 3535 package with full range of CCTs and CRIs	 51 lumens at 100mA (4000K 80CRI) Maximum drive current of 300mA 1/7th ANSI micro-binning for tight color control Enables T_s points of 105°C which allows for higher board temperatures 				
JXEON 3535L HE Plus	High flux and highest efficacy in a 3535 package with full range of CCTs and CRIs	 52 lumens at 100mA (4000K 80CRI) Maximum drive current of 300mA 1/7th ANSI micro-binning for tight color control Enables T_s points of 105°C which allows for higher board temperatures 				
UXEON HR30	Superior lumen maintenance and corrosion resistance in punishing conditions	121 lumens at 150mA (4000K 80CRI) Maximum drive current of 240mA Available in two ESD protection levels 2kV and 8kV				

Chip on Board LEDs - High performance array solutions that optimize system designs

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Product	Description	Features and Benefits
LUXEON 5258	Multi-die single LED for effective single source lamps, high bay and streetlight applications	 Up to 600 lumens, 150 lm/W at 160mA (4000K 70CRI 24V) 24V and 96V versions compatible with low cost and high efficiency drivers 5mm diameter optical source enables good optic design with high lumens in small Light Emitting Surface (LES)
LUXEON CoB Compact Range	Unsurpassed light quality and CBCP due to small LES	 Up to 1,200 lumens, 125 lm/W at 250mA, 85°C (3000K 80CRI) Available in 80CRI and 90CRI—3 SDCM color definition: Freedom from Binning Highest flux densities with the smallest Light Emitting Surface (LES)
LUXEON CoB Core Range	Uniform, high-efficacy and easy-to-design array	 Multiple lumen packages up to 15,000 lumens with 140 lm/W typical performance (3000K 80CRI) Available in 80CRI and 90CRI—3 SDCM color definition: Freedom from Binning Up to 4x lower thermal resistance than competition, enabling smaller heatsinks and higher lumens
LUXEON CoB with CrispWhite Technology	Fashion retail lighting that makes an impact, revealing the whitest whites	One light source for clean, crisp white light, and rich colors Content activates Fluorescent Whitening Agents (FWAs) in fabrics to mimic actual daylight Can be used with standard LUXEON CoB Ecosystem

Color LEDs - A complete color spectrum for a variety of architecture, entertainment and horticulture applications

Product	Description	Features and Benefits				
LUXEON 3535L Color Line	Color LEDs that deliver the perfect amount of color you need. No more. No less.	 Same focal length as other LUXEON Color Lines—optically compatible for simpler design cycles Color palette +3V white portfolio on the same footprint Unique phosphor converted PC Amber and Lime colors provide unrivaled maximum performance 				
LUXEON C Color Line	Multiple colors, a single focal length	 Single focal length allows flawless color mixing, maximum optical efficiency and removes halos Hot tested, 85°C, removes guesswork for designers Industry's lowest thermal resistance for greater light output and lower heatsink costs Small symmetrical package enables dense packing 				
LUXEON FlipChip UV	Unique UV LED enables limitless design freedom	• 400–700mW at 25°C (380–410nm) • Two large pads with 200µ separation for easy die attach and reflow process • 1.0mm² package for design flexibility and packing density				
LUXEON Rebel Color Line	High flux and efficacy on industry's most widely used color platform	 High flux and efficacy on industry's proven LUXEON Rebel platform Distinct 105 lumens LUXEON Rebel PC Amber 1200mW LUXEON Rebel ES Royal Blue offerings at 700mA, 85°C 				
LUXEON Z Color Line	High power color LEDs in a micro footprint package for ultimate design flexibility	Small 1.3mm x 1.7mm footprint enables designs for space constrained applications 440–670nm color selection with White and Violet/UV portfolio available on same footprint Undomed package allows better optical management through collimated light output				
LUXEON Z UV	Superior flux density, efficiency and design freedom—the industry's only micro-package UV LED	 Smallest footprint, 2.2mm² SMD enables highest W/cm² system, design flexibility 1A max drive current allows more flux per LED Up to 45+% WPE leading performance 				

Matrix Platform - Infinitely configurable LED boards, linear flex and modules using LUXEON LEDs

Product	Description	Features and Benefits					
LUXEON XF-3014 CV	Flexible light source distributing uniform light across user selectable lengths	 112 lumens per 96mm segment with 105 lm/W efficacy at 24V, T_j=50°C Offered in 80CRI: 2700K, 3000K, 4000K <2% light output attenuation over 10m length 					
LUXEON XF-3535L	Illumination grade, flexible LED strips enabling high lumen and high efficacy design	 Up to 5,076 lumens and 157 lm/W typical at 25°C and 100mA/LED Offered in 80CRI and 90CRI: 2200K–5700K Ultra-thin, drop-in solution for linear applications such as troffers 					
LUXEON XR-3020	Linear LED module on an ultra-slim and rigid substrate enabling high efficacy designs	 1,100 or 2,200 lumen packages at 100mA/LED and 45°C board temperature Offered in 80CRI and 90CRI: 3000K-5000K 160 lm/W for maximum light output and low power consumption 					
LUXEON XR-3535L	Turnkey solution on a rigid substrate enabling high efficacy designs	 Up to 1,502 lumens and 152 lm/W typical at 25°C and 100mA/LED Offered in 80CRI: 3000K–5000K Designed for Zhaga compliant assemblies 					
LUXEON XR-M	Bright, uniform light source in practical, convenient and easy to configure modules	 Typical 3,200–5,300 lumen building blocks with 140 lm/W efficacy at 700mA, T_c=85°C Offered in 70CRI: 4000K, 5000K, 5700K MCPCB for efficient heat dissipation and mechanical robustness 					
LUXEON XR-TX	High performance LED modules with extreme effi-cacy for robust lighting designs	Typical 3,300 lumens with 140 lm/W efficacy at 700mA and 85°C board temperature Offered in 70CRI: 4000K–5700K 150mm x 45mm footprint is designed for use with standard third party optics					

Illumination Product Portfolio

Product	Architectural	Downlights	High Bay & Low Bay	Indoor Area Lighting	Lamps	Outdoor	Specialty Lighting	Spotlights
LUXEON 2835C								
LUXEON 2835E								
LUXEON 3014								
LUXEON 3020								
LUXEON 3030 2D								
LUXEON 3030 HV								
LUXEON 3535L								
LUXEON 3535L Color Line								
LUXEON 3535L HE								
LUXEON 3535L HE Plus								
LUXEON 5258								
LUXEON C Color Line								
LUXEON CoB Compact Range								
LUXEON CoB Core Range								
LUXEON CoB with CrispWhite Technology								
LUXEON FlipChip UV								
LUXEON FlipChip White								
LUXEON HR30								
LUXEON M*								
LUXEON MZ*								
LUXEON Rebel Color Line								
LUXEON TX*								
LUXEON XF-3014 CV								
LUXEON XF-3535L								
LUXEON XR-3020								
LUXEON XR-3535L								
LUXEON XR-M								
LUXEON XR-TX								
LUXEON Z Color Line								
LUXEON Z ES*								
LUXEON Z UV								

^{*}Product also offered in Royal Blue.

About Lumileds

Lumileds is the global leader in light engine technology. The company develops, manufactures and distributes groundbreaking LEDs and automotive lighting products that shatter the status quo and help customers gain and maintain a competitive edge.

With a rich history of industry "firsts," Lumileds is uniquely positioned to deliver lighting advancements well into the future by maintaining an unwavering focus on quality, innovation and reliability.

To learn more about our portfolio of light engines, visit lumileds.com.



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