


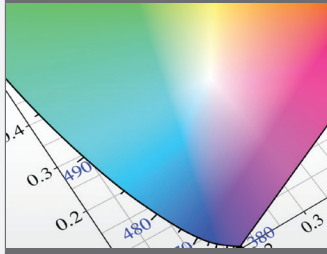

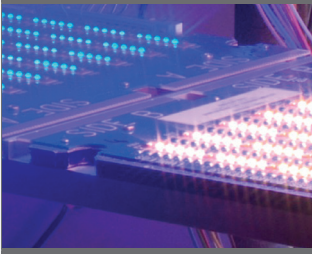


Application requirements

- Systems that support dynamic and fixed color output
- Higher system efficiency over gel based, traditional color systems
- Lower maintenance and longer life across installations
- Common fixture form factor that supports a variety of applications – color changing, single color/white, tunable white

Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
Traditional + Gel Based	10-30 lm/W (depending on gel color)	5,000 hrs
Philips Lumileds LEDs	30-160 lm/W	50,000 hrs

<p>Ecosystem</p>  <p>Select pre-qualified, off-the-shelf components to aid in complete system design.</p>	<p>LED Spectrum Mixer</p>  <p>Calculate the color (white or color) that will be achieved by combining different LEDs into one application</p>	<p>System Calculator</p>  <p>Calculate the overall system performance based on design inputs.</p>	<p>LM-80 Reports</p>  <p>Generate LM-80 reports for specific Lumileds LEDs.</p>
--	--	---	--

Please check out our ecosystem support at www.philipslumileds.com/designtools

Who We Are

Philips Lumileds focuses on one goal: Creating the world's highest performing LEDs for lighting, flash, display and automotive applications. In partnership with its customers, Philips Lumileds matches application specific LEDs and uncompromising service with your end product design. Philips Lumileds

understands that solid-state lighting is not just about energy efficiency. It's about elegant design. Reinventing form. Pioneering markets and simplifying the supply chain. It's about a shared vision. Learn more about our comprehensive portfolio of LEDs at www.philipslumileds.com.



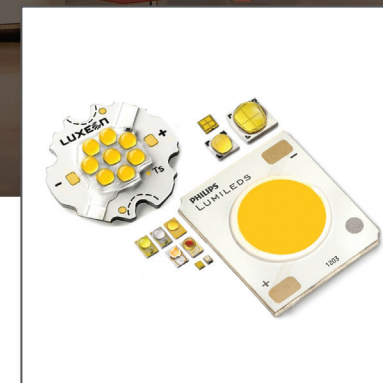
©2014 Philips Lumileds Lighting Company. All rights reserved. LUXEON is a registered trademark of the Philips Lumileds Lighting Company in the United States and other countries.

www.philipslumileds.com
www.philipslumileds.cn.com

Philips Lumileds Lighting Company shall not be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Philips Lumileds Lighting Company has attempted to provide the most accurate information and data, the materials and services information and data are provided "as is" and Philips Lumileds Lighting Company neither warranties, nor guarantees the contents and correctness of the provided information and data. Philips Lumileds Lighting Company reserves the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data.




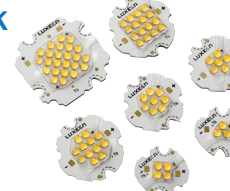


You make architectural lighting.

We'll make your architectural lighting shine – with high color density, design flexibility and a broad color palette.



Architectural Lighting Energize your venue with vivid colors

Color LED Solutions	Product	Key Benefits	Royal Blue	Blue	Cyan	Green	Lime	Amber	PC Amber	Red-Orange	Red	Deep Red	Applications				
			440-460	465-480	490-510	520-540	565-570	584-595	588-592	610-620	620-630	650-670	Linear	Wash	Spot	Graze	Direct View
Color LED Solutions	LUXEON Z  <p>High packaging density 1mm² die in 1.3x1.7mm² package</p>	The new building block feature of the LUXEON Z allows fixture designers to deliver next generation features: <ul style="list-style-type: none"> Multi-color sources under a single optic High flux density High color density Collimated output High packing density 	•	•	•	•	•	•	•	•	•	•	+++	+++	+++	+++	+++
	LUXEON Rebel Color  <p>1mm² die</p>	High-efficiency package design supports a broad color & CCT selection allowing manufacturers to deliver: <ul style="list-style-type: none"> Full range of color palette Common fixture architecture High lumen output 	•	•	•	•	•	•	•	•	•	•	+++	+++	+	++	+
	LUXEON Rebel ES Color  <p>2mm² die</p>	High-efficiency package design supports a broad color & CCT selection allowing manufacturers to deliver: <ul style="list-style-type: none"> Full range of color palette Common fixture architecture High lumen output 	•	•	•	•	•	•	•	•	•	•	•	+++	+++	+	++

White LED Solutions	Product	Key Benefits	Royal Blue	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K	Binning & CRI (min)	Applications					
														Linear	Wash	Spot	Graze	Direct View
White LED Solutions	LUXEON Z ES 	LUXEON Z ES and LUXEON Z improve system luminance and miniaturize light sources enabling the next generation of uniform and efficient light source. <ul style="list-style-type: none"> Design flexibility Narrow beam angle Freedom from Binning 	•	•	•	•	•	•	•	•	•	3-Step/5 Step & 70, 80, 90 CRI	+++	++	+++	+++	++	
	LUXEON Z 		•		•	•	•	•	•	•	•							•
	LUXEON TX 	LUXEON TX, LUXEON Rebel ES, LUXEON Rebel PLUS offers tight color control and consistency while enabling high quality of light solutions. <ul style="list-style-type: none"> Exceptional efficacy (lm/W performance) Superior color consistency Proven reliability and lifetime performance Freedom from Binning 	•		•	•	•	•	•	•	•	3-Step/5-Step & 70, 80, 90 CRI	+++	+++	+	++	+	
	LUXEON Rebel ES 		•		•	•	•	•	•	•	•							ANSI & 60, 70, 80, 90 CRI
	LUXEON Rebel PLUS 		•		•	•	•	•	•	•	•							
	LUXEON CoB NEW 	Leveraging the system value of LUXEON CoB and LUXEON K array, fixture designers can benefit from: <ul style="list-style-type: none"> High lumen density and uniformity Simplified system integration Freedom from Binning 	•		•	•	•	•	•	•	•	3-Step/5-Step & 80 CRI		+++	++			
	LUXEON K 		•		•	•	•	•	•	•	•							•
	LUXEON M 	LUXEON M and LUXEON MZ are high output emitters that can support narrow beam angles because of their compact optical source size. <ul style="list-style-type: none"> Full range of CCTs/CRIs High flux output Freedom from Binning 	•		•	•	•	•	•	•	•	3-Step/5-Step & 70, 80, 90 CRI		++	+++	+		
	LUXEON MZ NEW 		•		•	•	•	•	•	•	•							•