


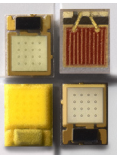








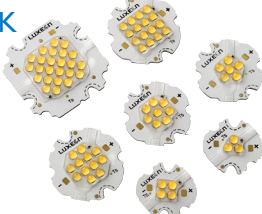

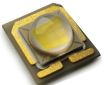
# You make architectural lighting.

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

**PHILIPS**  
LUMILEDS

Architectural Lighting

Energize your venue with vivid colors

	Product	Key Benefits	Royal Blue	Blue	Cyan	Green	Amber	PC Amber	Red-Orange	Red	Deep Red	Applications				
Color LED Solutions	<b>LUXEON Z</b>  High packaging density 1mm <sup>2</sup> die in 1.3x1.7mm <sup>2</sup> package 	The new building block feature of the LUXEON Z allows fixture designers to deliver next generation features: <ul style="list-style-type: none"><li>• Multi-color sources under a single optic</li><li>• High flux density</li><li>• High color density</li><li>• Collimated output</li><li>• High packing density</li></ul>	440-460	465-480	490-510	520-540	585-597		610-620	620-630	650-670	Linear	Wash	Spot	Graze	Direct View
	<b>LUXEON Rebel Color</b>  1mm <sup>2</sup> die	High-efficiency package design supports a broad color & CCT selection allowing manufacturers to deliver: <ul style="list-style-type: none"><li>• Full range of color palette</li><li>• Common fixture architecture</li><li>• High lumen output</li></ul>										+++	+++	+++	+++	+++
	<b>LUXEON Rebel ES Color</b>  2mm <sup>2</sup> die											+++	+++	+	++	+
	Product	Key Benefits	Royal Blue	2700K	3000K	3500K	4000K	5000K	5700K	6500K	Binning & CRI (min)	Linear	Wash	Spot	Graze	Direct View
White LED Solutions	<b>LUXEON Z ES</b> 	LUXEON Z ES improves system luminance and miniaturizes light sources enabling the next generation of uniform and efficient light source. <ul style="list-style-type: none"><li>• Design flexibility</li><li>• Narrow beam angle</li><li>• <i>Freedom from Binning</i></li></ul>									3-Step/5-Step & 70, 80, 90 CRI	+++	+++	+++	+++	+++
	<b>LUXEON Z</b> 															
	<b>LUXEON T</b> 	LUXEON T, 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"><li>• Exceptional efficacy (lm/W performance)</li><li>• Superior color consistency</li><li>• Proven reliability and lifetime performance</li><li>• <i>Freedom from Binning</i></li></ul>									3-Step/5-Step & 70, 80, 90 CRI	+++	+++	+	++	+
	<b>LUXEON Rebel ES</b> 										ANSI & 60, 70, 80, 90 CRI	+++	+++	+	++	+
	<b>LUXEON Rebel PLUS</b> 										3-Step/5-Step & 80 CRI	+++	+++	+	++	+
	<b>LUXEON CoB</b> 	Leveraging the system value of LUXEON CoB and LUXEON K array, fixture designers can benefit from: <ul style="list-style-type: none"><li>• High lumen density and uniformity</li><li>• Simplified system integration</li><li>• <i>Freedom from Binning</i></li></ul>									3-Step/5-Step & 80 CRI		+++	++		
	<b>LUXEON K</b> 										3-Step & 80, 90 CRI		+++	++		
	<b>LUXEON M</b> 	LUXEON M and LUXEON S are high output emitters that can support narrow beam angles because of their compact optical source size. <ul style="list-style-type: none"><li>• Full range of CCTs/CRI</li><li>• High flux output</li><li>• <i>Freedom from Binning</i></li></ul>									3-Step/5-Step & 70, 80, 90 CRI		++	+++	+	
	<b>LUXEON S</b> 										3-Step & 80, 90 CRI		+++	+++		





## 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

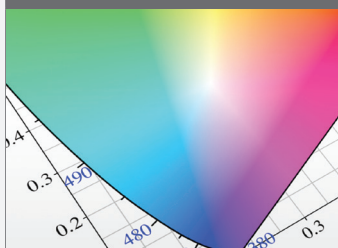
	System Efficacy	Reliability
Traditional + Gel Based	10-30 lm/W (depending on gel color)	5,000 hrs
Philips Lumileds LEDs	30-50 lm/W	50,000 hrs

### Ecosystem



Select pre-qualified, off-the-shelf components to aid in complete system design.

### LED Spectrum Mixer



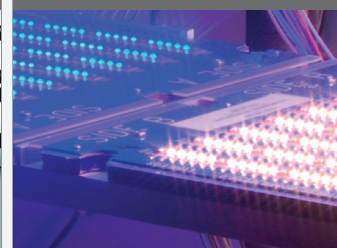
Calculate the color (white or color) that will be achieved by combining different LEDs into one application

### System Calculator



Calculate the overall system performance based on design inputs.

### LM-80 Reports



Generate LM-80 reports for specific Lumileds LEDs.

Please check out our growing ecosystem support at [www.philipslumileds.com/designtools](http://www.philipslumileds.com/designtools)

## Company Information

Philips Lumileds is a leading provider of LEDs for everyday lighting applications. The company's records for light output, efficacy and thermal management are direct results of the ongoing commitment to advancing solid-state lighting technology and enabling lighting solutions that are more environmentally friendly, help reduce CO<sub>2</sub> emissions and reduce the need for power plant expansion. Philips Lumileds LUXEON® LEDs are enabling never before possible applications in outdoor lighting, shop lighting, home lighting, digital imaging, display and automotive lighting.

Philips Lumileds is a fully integrated supplier, producing core LED material in all three base colors, (Red, Green, Blue) and white. Philips Lumileds has R&D centers in San Jose, California and in the Netherlands, and production capabilities in San Jose, Singapore and Penang, Malaysia. Founded in 1999, Philips Lumileds is the high flux LED technology leader and is dedicated to bridging the gap between solid-state technology and the lighting world. More information about the company's LUXEON LED products and solid-state lighting technologies can be found at [www.philipslumileds.com](http://www.philipslumileds.com).



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