



You make outdoor lighting.

We'll make your outdoor lighting shine –
with excellent reliability, outstanding efficacy
and market leading performance.

PHILIPS
LUMILEDS

Outdoor Lighting

Creating a brighter and safer world



Application requirements

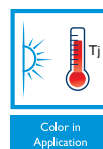
- Breakthrough efficacy for fast payback
- Highest flux, enabling low cost systems
- Unrivaled reliability for low maintenance
- Broad product portfolio with CCTs from 2700-6500K and CRIs of 60, 70 and 80 minimum

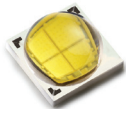

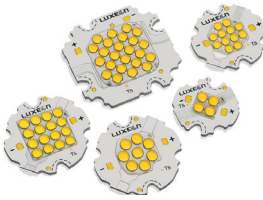



“Lumileds LED efficacy has allowed me to reduce my emitter count, lowering my system cost and complexity.”

Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
High Pressure Sodium	60 lm/W	15,000 hrs
Philips Lumileds LEDs	>100 lm/W	>60,000 hrs

LUXEON Quality of Light



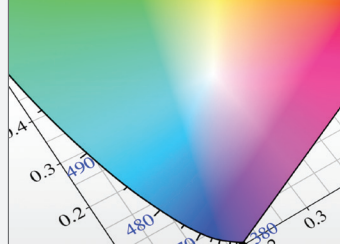
	Product/Type	Key Benefits	Flux (5700K Typical)	System Efficacy	Cost Efficient	CCT Accuracy
Arrays	 LUXEON M	<ul style="list-style-type: none"> Flexibility to design for high efficiency or lower cost Assembly and manufacturing cost savings due to component count reduction 	1000 lm @ 700 mA, 85°C	+++	+++	3-Step/ 5-Step
	 LUXEON CoB	<ul style="list-style-type: none"> Easy to use, drop in, high flux solution Highest uniformity and efficiency in a small light emitting surface Typical 130 lm/W 	1000 to 8000 lm 85°C, 70 CRI	++	+++	3-Step/ 5-Step
	 LUXEON K	<ul style="list-style-type: none"> High lumen arrays ensuring bright light where needed Fully characterized light source resulting in ease of design and assembly <i>Freedom from Binning</i> – single V_f, Flux and CCT bin 	4140 lm (16-up) 6200 lm (24-up) @ 700 mA, 85°C, 70 CRI	+++	+++	3-Step/ 5-Step
High-Power LEDs	 LUXEON T	<ul style="list-style-type: none"> Best performance in a highly efficient package 	255 lm @ 700 mA, 85°C	+++	+++	3-Step/ 5-Step
	 LUXEON Z ES	<ul style="list-style-type: none"> Small optical source size enables unique optical solutions Footprint compatible with LUXEON T allows for design flexibility. 	215 lm @ 700 mA, 85°C	++	+++	3-Step/ 5-Step
Distributed Light Solutions	 LUXEON 3535L & LUXEON 3535 2D	<ul style="list-style-type: none"> High efficiency and cost effective mid-power LEDs 	75 lm @ 100 mA, 25°C	+++	+++	ANSI

Ecosystem



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

LED Spectrum Mixer



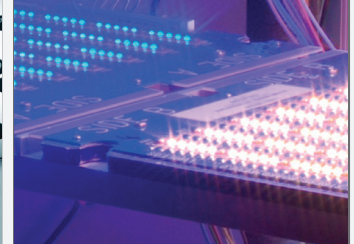
Calculate the color (white or color) that will be achieved by combining different LEDs into one application

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

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 CO₂ 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.



©2013 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 warrants, 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.