
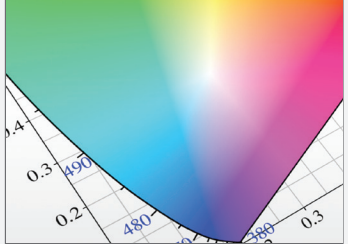

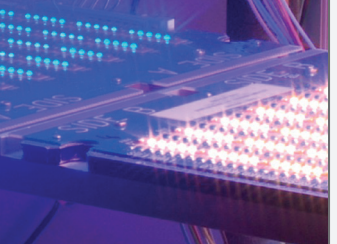


You make downlights.

We'll make your downlights shine – with high efficacy, uniform color and cost effectiveness.

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



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www.philipslumileds.com
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Downlights

Durable and effective LEDs you rely on



Application requirements

- Uniform and less than 3-step MacAdam Ellipse LED to LED consistency
- High efficiency for professional downlight market
- Enabling low system costs for consumer downlight solutions
- Broad portfolio with CCTs from 2000K to 5000K with 80 and 90 CRI minimum

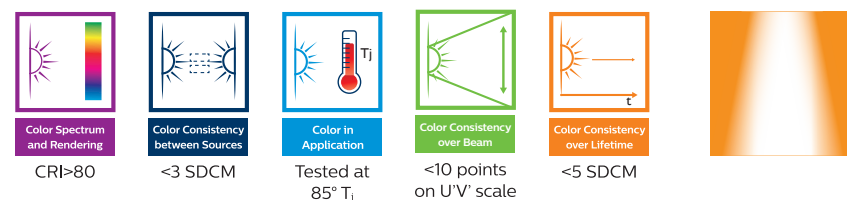
Philips Lumileds enables the highest efficacy LED downlight solution with the fastest return on investment.








Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
CFL	60-80 lm/W	15,000 hrs
Philips Lumileds LEDs	> 120 lm/W	50,000 hrs

“Philips Lumileds really enables an easy downlight design with their LEDs and their supporting ecosystem.”

LUXEON Quality of Light



	Type/Product	Key Benefits	Source Type	System Efficacy	Cost Efficient	CCT Accuracy
Array Solutions	 NEW LUXEON CoB	Highest uniformity and efficiency in a small LES (Light Emitting Surface) <ul style="list-style-type: none"> • Up to 10,000 lumens • 120 lm/W @ 3000K and up, 80 CRI at 85°C 	Array	+++	+++	3-Step
Emitter Solutions	 NEW LUXEON TX	<ul style="list-style-type: none"> • Highest efficacy • Enables tight beam control 	Emitter	+++	++	3-Step 5-Step
	 LUXEON Z ES	<ul style="list-style-type: none"> • Best Quality of Light • Same solder footprint as LUXEON T 	Emitter	++	+++	1-Step 3-Step 5-Step
Non-Directional Solutions	 NEW LUXEON 3020 LUXEON 3535L	<ul style="list-style-type: none"> • High efficiency mid-power LED 	Emitter	+++	++	ANSI
	 NEW LUXEON 3030 2D LUXEON 3535 2D	<ul style="list-style-type: none"> • Best lm/\$ solution 	Emitter	++	+++	ANSI
	 NEW LUXEON 3535 HV	<ul style="list-style-type: none"> • Enables compact cost effective drivers with a low LED count 	Emitter	+++	+++	ANSI
High-Efficiency Remote Phosphor	 LUXEON K	<ul style="list-style-type: none"> • Highest system efficiency 	Array	+++	++	3-Step