



APPLICATION SOLUTIONS BROCHURE

You make downlights.

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

Downlights

Realizing design goals with durable and effective LEDs



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 70, 80 and 90CRI minimums

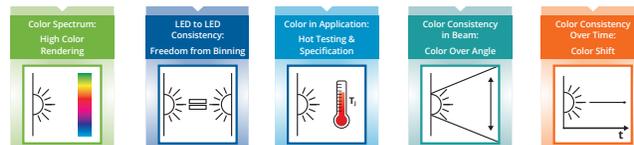
“Lumileds really enables an easy downlight design with their LEDs and their supporting ecosystem.”

Lumileds LEDs Outperform Conventional Lighting

	SYSTEM EFFICACY	RELIABILITY
CFL	60–80 lm/W	5,000 hrs
LUXEON LEDs	>140 lm/W	100,000 hrs



LUXEON Quality of Light



Downlights Design Approach

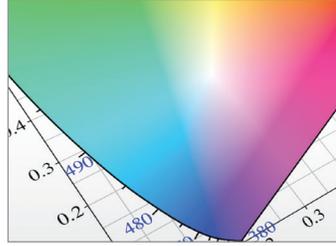
		DOWNLIGHTS	
		CoB	MID & LOW POWER
		 <p>Reflector Designs</p> <ul style="list-style-type: none"> • Single optics 	 <p>Diffuser & Edge Lit Designs</p> <ul style="list-style-type: none"> • High efficacy • Slim & light
VALUE	<p>LUXEON CoB Core Range</p> <ul style="list-style-type: none"> • Balanced efficacy/cost 	<p>LUXEON 3014</p> <ul style="list-style-type: none"> • Ultra-thin light guide based designs 	<p>LUXEON 2835E</p> <ul style="list-style-type: none"> • Balanced efficacy/cost 
	<p>LUXEON CoB Core Range</p> <ul style="list-style-type: none"> • High flux 	<p>LUXEON 2835C</p> <ul style="list-style-type: none"> • High efficacy 	
SIGNATURE	<p>LUXEON Stylist Series: CoB</p> <ul style="list-style-type: none"> • Engineered spectrum 	<p>LUXEON 3535L HE Plus</p> <ul style="list-style-type: none"> • Highest efficacy 	<p>LUXEON Stylist Series: Mid Power</p> <ul style="list-style-type: none"> • Engineered spectrum 

ECOSYSTEM



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

LED SPECTRUM MIXER



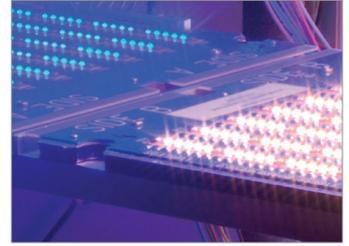
Calculate the color (white or color) that will be achieved by combining different LEDs into one application

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 ecosystem support at lumileds.com/designtools.

About Lumileds

Companies developing automotive, mobile, IoT and illumination lighting applications need a partner who can collaborate with them to push the boundaries of light. With over 100 years of inventions and industry firsts, Lumileds is a global lighting solutions company that helps customers around the world deliver differentiated solutions to gain and maintain a competitive edge. As the inventor of Xenon technology, a pioneer in halogen lighting and the leader in high performance LEDs, Lumileds builds innovation, quality and reliability into its technology, products and every customer engagement. Together with its customers, Lumileds is making the world safer, better and more beautiful—with light.

To learn more about our lighting solutions, visit lumileds.com.



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