



APPLICATION SOLUTIONS BROCHURE

You make spotlights.

We'll make your spotlights shine —
with luminance, high color
rendering and lumen density.

Spotlights

Creating impact, intensity and style



Application Requirements

- Narrow, crisp and uniform beams
- High punch for best merchandise presentation, enabling highest Center Beam Candle Power (CBCP)
- High color rendering with typical CRI of 97 (R9<90)
- Color consistency between LEDs and fixtures (less than 3-step MacAdam ellipse)
- High efficacy

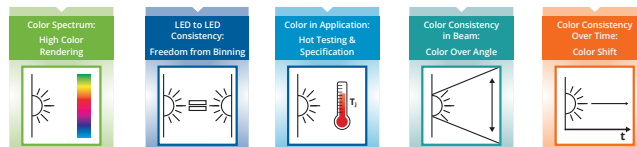
“Lumileds enables me to make high quality fixtures with great center beam candlepower.”

Lumileds enables the highest center beam candle power with the best quality of light.










	SYSTEM EFFICACY	RELIABILITY
Halogen/CDM	60–80 lm/W	1,000–12,000 hrs
LUXEON LEDs	>130 lm/W	100,000 hrs



LUXEON Quality of Light



Spotlights Design Approach

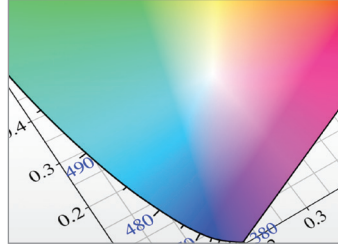
		SPOTLIGHTS	
		CoB	HIGH POWER
		 <ul style="list-style-type: none"> • Single optics designs 	 <ul style="list-style-type: none"> • High lumen output • Narrow beam angles
VALUE	LUXEON CoB Core Range <ul style="list-style-type: none"> • Balanced efficacy/cost 	LUXEON Z ES <ul style="list-style-type: none"> • Balanced efficacy/cost • Superior color over angle 	
	LUXEON CoB Core Range <ul style="list-style-type: none"> • Ease of design 	LUXEON TX <ul style="list-style-type: none"> • High efficacy 	
SIGNATURE	LUXEON Stylist Series: CoB <ul style="list-style-type: none"> • Engineered spectrum 	LUXEON MZ <ul style="list-style-type: none"> • Very narrow beams 	
	LUXEON CoB 1202HD, LUXEON CoB 1204HD & LUXEON CoB 1205HD <ul style="list-style-type: none"> • High flux • Small form factor 		

ECOSYSTEM



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

LED SPECTRUM MIXER



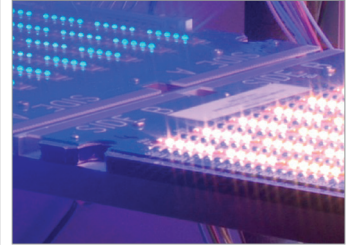
Calculate the color (white or color) that will be achieved by combining different LEDs into one application

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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