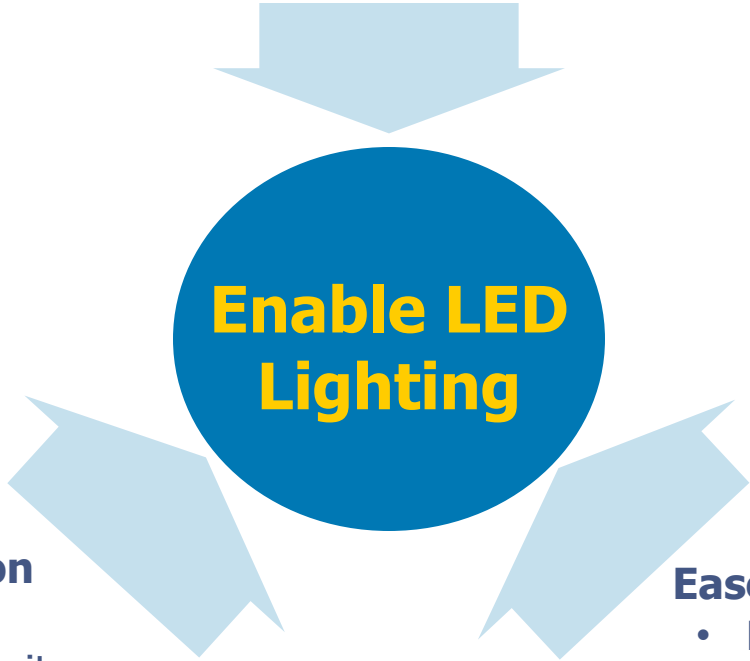


Components Product Strategy - Lighting

Lighting Class Performance

- Brightness & Efficacy
- Color point stability
- Lumen Maintenance
- Thermal performance
- Decrease cost



**Enable LED
Lighting**

Application Optimization

- Form Factor
- Lumen output and density
- Level of optical control / Uniformity
- CRI & Color Consistency
- IV Characteristics
- Breadth of portfolio

Ease of Use

- Higher levels of integration
- Eliminate the need to color mix where possible
- Eliminate need to reflow
- Drive and adopt standards – ANSI, NEMA, etc

The diagram features a central dark blue circle with the text "Lowest System Cost". Surrounding this central circle is a larger, light gray circle. Five blue arrow-shaped callouts point from the outer edge of the gray circle towards the central dark blue circle. Each callout contains white text representing a different factor. The factors are: "Lighting-Class Performance" (top-left), "Ability to Deliver" (top-right), "Ease of Use" (bottom-right), "Right LED for the Right Application" (bottom-left), and "Lowest System Cost" (center).

**Lowest
System
Cost**

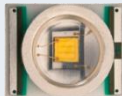
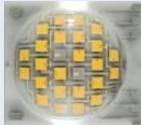
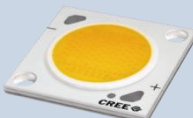
**Lighting-Class
Performance**

Ability to Deliver

**Right LED for the
Right Application**

Ease of Use

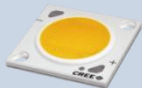
Cree Lighting LED Components

Ease of Use			
	Discretes	Arrays	Modules
Directional	XM-L XP-G XP-E XP-C XR-E XR-C ↑ Performance	MT-G MP-L XM-L EZW MC-E ↑ Performance	
	Non-Directional	XP-E HEW MX-6 MX-3 ML-E ML-B ↑ Performance	CXA20 ↑ Performance

Example Lighting Applications

Indoor				
Non-directional	• A & E bulbs • Chandeliers	• Floor lamps • Vanities	• Sconces • Table lamps	
Directional	• PAR bulbs • MR bulbs	• Spot lights • Accent lighting	• Track lighting	
Downlight	• Recessed • Can lights	• Pendants	• Surface-mount	
Distributed	• Under-cabinet • T8 replacement tubes • Light panels	• Light panels • Retail display • Refrigerated display	• Portable desk • Cove • Wall wash	
Low & High Bay	• Manufacturing lighting	• Warehouse lighting	• Distribution centers	
Outdoor				
Roadway & Parking	• Street & tunnel	• Parking lot	• Parking garage	
Exterior Area	• Post-top • Wall pack	• Bollard • Coach light	• Security light • Exterior sconce	
Landscape	• Spot lights	• Path lights	• Step lights	
Portable				
Consumer	• Flashlights	• Lanterns	• Head lights	
High End	• Weapon lights	• Search lights	• Tactical lights	

Lighting Applications Matrix for Cree LEDs

	DISCRETES		ARRAYS		MODULES	
Indoor						
Omni-directional A & E Bulbs, Sconces	 MX-6	 XP-E HEW	 CXA20		 LMR4 LMR2	
Directional MR & PAR, Spot, Track	 XP-G XP-E	 XM-L	 MC-E	 XM-L	 MT-G	 MP-L LMR2
Downlight Ceiling Mount, Pendant	 MX-6	 XP-E HEW	 MP-L	 CXA20		 LMR4 LMR2
Distributed Cove, FL Retrofit, Panel	 ML-E ML-B	 MX-6 MX-3				
Low & High Bay Warehouse, Industrial	 XP-G	 XM-L				
Outdoor						
Roadway & Parking Street, Tunnel, Garage	 XP-G	 XM-L				
Exterior Area Bollard, Wall Pack	 MX-6	 XP-E HEW	 CXA20		 LMR4 LMR2	
Landscape	 ML-E		 XM-L	 MT-G		
Portable						
Mainstream	 ML-E	 XP-E XP-C				
High End Search, Lantern, Spot	 XR-E	 XP-G XP-E				