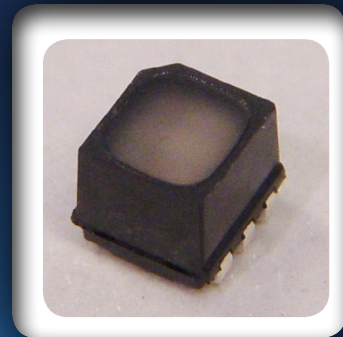


HIGH BRIGHTNESS LEDS FOR SIGNAGE

- Brightest Signage LEDs Available on the Market
- Industry-Leading Optimizations for Video Screen: IPX8 Waterproofing, Matte Surface for Contrast, Smaller Size
- Proven Delivery Track Record for Large & High-Profile Projects



Outdoor Full-Color LED Signs



Optimized to increase intensity, improve contrast & reduce system cost

- Cree first to launch waterproof SMD LEDs in 2009
- IPX8 rated waterproof family
- Bright enough to replace thru-hole LEDs, enabling lighter designs and lower manufacturing costs
- Matte surface for best contrast
- Vertical chip alignment for best picture quality



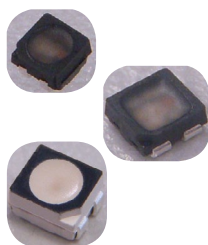
	LED	Size	Value	Typ. Green Int.
PLCC6 Full-Color	CLX6E	3.5 x 3.4 x 2.8 mm	Best price/performance	1,500 mcd @ 20 mA
	CLX6F	3.5 x 3.4 x 2.8 mm	High brightness	2,100 mcd @ 20 mA
	CLY6C	2.8 x 2.8 x 2.5 mm	Low profile/high contrast	1,500 mcd @ 20 mA
	CLY6D	2.8 x 2.8 x 2.5 mm	Low profile/high brightness	2,250 mcd @ 20 mA
	CLYBB	2.8 x 2.8 x 2.3 mm	Best contrast/black package	1,220 mcd @ 20 mA
	CLMXB	2.1 x 1.8 x 1.55 mm	Smallest outdoor black package	570 mcd @ 10 mA

Indoor Full-Color LED Signs



Optimized for high resolution and maximum contrast

- The proven choice for large indoor signage projects
- Enabling high definition sign resolutions
- Matte surface for best contrast
- Vertical chip alignment for best picture quality



	LED	Size	Value	Typ. Green Int.
PLCC4 Full-Color	UHD1110	1.0 x 1.0 x 0.6 mm	Industry's best contrast & reliability	100 mcd @ 5 mA
	CLMUC	1.5 x 1.5 x 1.0 mm	Smallest size, highest resolution	170 mcd @ 5 mA
	CLMVC	2.0 x 2.0 x 1.9 mm	Small size, good contrast	225 mcd @ 5 mA
	CLV1L	3.2 x 2.8 x 1.9 mm	Enables semi-outdoor w/ cover	1,400 mcd @ 20 mA

Billboard and Event Display Signage



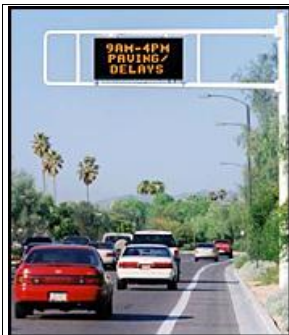
ScreenMaster: matched Red/Green/Blue radiation patterns

- World's brightest oval LEDs for advertising, transportation and live events
- Advanced optical-grade epoxy offering superior high-temperature and high moisture-resistance performance in outdoor applications
- Encapsulation resin contains anti-UV material to reduce the effects of long-term exposure to direct sunlight



	LED	Angle	Value	Typ. Green Int.
P2 4 mm	S4SMS	105°/50° (-10° tilted)	Best price/performance	3,800 mcd @ 15 mA
	C4SMM	115°/65°	Wide viewing angle	1,800 mcd @ 10 mA
	C4SMB	90°/45°	Highest intensity	7,500 mcd @ 20 mA
	C4SMA	90°/45°	Best price/performance	2,500 mcd @ 10 mA
P2 5 mm	C5SMF	100°/40°	Large pitch displays	4,400 mcd @ 20 mA

LED Roadway Signage



The global choice for LED roadway signage

- Minimum beam angle P2 LEDs available to meet DOT specs
- Advanced optical-grade epoxy offering superior high-temperature and high moisture-resistance performance in outdoor applications
- Encapsulation resin contains anti-UV material to reduce the effects of long-term exposure to direct sunlight



	LED	Angle	Colors Available				
P2 5 mm	C503B	15°	BLUE	GREEN	AMBER	RED	
		23°			AMBER	RED	
		30°	BLUE	GREEN	AMBER	RED	
	C566C	70°/30°	BLUE	GREEN	AMBER	RED	
P4	CP41A/ CP41B	40°			AMBER	RED	
		70°	BLUE	GREEN	AMBER	RED	
		100°			AMBER	RED	
Single color SMD with lens	CLM2C	30°	BLUE 1,600*	GREEN 5,500*	AMBER 4,000*	RED 3,500*	
Single color SMD with lens (high intensity)	CLM2D	30°	BLUE 2,300*	GREEN 12,000*	AMBER 5,200*	RED 5,000*	CYAN 6,500*

- Typical intensity (mcd) @ 20 mA

Gaming Machine



Brightest side-view LEDs optimized for gaming applications

- Patented innovative package with a shallow cavity maximizes light output and enables better color mixing

	LED	Size	Intensity (mcd)
SMD Full-Color Side-View	QLS6B	4.7 x 1.5 x 1.3 mm	900 - 2,800

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Cree, Inc.:](#)

[CLM2D-CCC-CZ0B0253](#) [CLM2D-CCC-CA0B0253](#) [CLM2D-CCC-CA0B0343](#) [CLM2D-ACC-CZ0C0343](#) [CLM2D-ACC-CYbC0253](#) [CLM2D-ACC-CZ0C0253](#)