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

	0		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 1,500 mcd @ 20 mA	
			CLY6C	2.8 x 2.8 x 2.5 mm	Low profile/high contrast		
			CLY6D	2.8 x 2.8 x 2.5 mm	Low profile/high brightness	2,250 mcd @ 20 mA	
			CLYBA	2.8 x 2.8 x 2.5 mm	Best contrast/black package	890 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

CREE

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 guality

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

Copyright © 2014-2016 Cree, Inc. All rights reserved. This document is provided for informational purposes only and is not a warranty or specification. The information in this document is subject to change without notice. Cree® is a registered trademark and and the Cree logo is a trademark of Cree,





February 2016 (FS07R4)

Billboard and Event Display Signage



ScreenMaster: matched Red/Green/Blue radiation patterns

- World's brightest oval LEDs
- Application-specific 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 longterm 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
- High intensity and high-quality materials for long life and reduced long-term operating costs
- 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				
С503В	15°	BLU	GRN	AMB	RED	
	23°			AMB	RED	
	30°	BLU	GRN	AMB	RED	
C566C	70°/30°	BLU	GRN	AMB	RED	
CP41A/ CP41B	40 °			AMB	RED	
	70 °	BLU	GRN	AMB	RED	
	100°			AMB	RED	
CP42B	120°			AMB	RED	
CP43B	90°/35°			AMB	RED	
CLM2C	30 °	BLU 1600*	GRN 5500*	AMB 4000*	RED 3500*	
CLM2D	30 °	BLU 2600*	GRN 15,000*	AMB 6000*	RED 6000*	CYAN 7600*
	C503B C566C CP41A/ CP41B CP42B CP43B CLM2C	15° 15° 23° 30° 70°/30° 40° 70° 100° 100° 100° 120° 120° 120° 100° 1	15° BLU C503B 23° 30° BLU 30° BLU C566C 70°/30° BLU 40° 40° CP41A/ CP41B 70° BLU 100° 100° 100° CP42B 120° 100° CP43B 90°/35° 1600* CLM2C 30° BLU	15° BLU GRN C503B 23° I GRN 30° BLU GRN 30° BLU GRN C566C 70°/30° BLU GRN 40° 40° GRN 100° CP41A/ CP41B 70° BLU GRN 100° 100° 100° GRN CP42B 120° I GRN CP43B 90°/35° I GRN CLM2C 30° BLU GRN	15° BLU GRN AMB C503B 23° I GRN AMB 30° BLU GRN AMB 30° BLU GRN AMB C566C 70°/30° BLU GRN AMB C566C 70°/30° BLU GRN AMB CP41A/ CP41B 70° BLU GRN AMB 100° BLU GRN AMB CP42B 120° I AMB CP43B 90°/35° AMB AMB CLM2C 30° BLU GRN AMB	15° BLU GRN AMB RED C503B 23° I GRN AMB RED 30° BLU GRN AMB RED C566C 70°/30° BLU GRN AMB RED C566C 70°/30° BLU GRN AMB RED C566C 70°/30° BLU GRN AMB RED CP41A/ CP41B 70° BLU GRN AMB RED 100° BLU GRN AMB RED CP42B 120° I AMB RED CP43B 90°/35° AMB RED CLM2C 30° BLU GRN AMB RED

Typical intensity (mcd) @ 20 mA

.