

High Brightness LEDs - Round



FEATURES

- **Size (mm):**
 - ▶ 5
- **Color and Typical Dominant Wavelength (nm):**
 - ▶ Amber: (591)
 - ▶ Blue: (470)
 - ▶ Green: (527)
 - ▶ Red: (624)
 - ▶ White
- **Viewing Angle:**
 - ▶ 503: 15°, 23°, 30°
 - ▶ 512: 25°
 - ▶ 513: 55°
 - ▶ 535: 110°
- **Luminous Intensity (mcd):**
 - 503
 - ▶ Amber: 3000~23500
 - ▶ Blue: 2130~23500
 - ▶ Green: 5860~64600
 - ▶ Red: 3000~23500
 - ▶ White: 14400~32900
 - 513
 - ▶ White: 2130~8200
 - 535
 - ▶ White: 770~3000
- **Lead-Free**
- **RoHS Compliant**

APPLICATIONS

- **Amusement**
 - ▶ Pachinko
 - ▶ Slot machine
 - ▶ Pin ball machine
 - ▶ Gaming machine
- **Electronic Signs & Signals (ESS)**
 - ▶ Full color video screen
 - ▶ Motorway sign
 - ▶ Variable-message sign (VMS)
 - ▶ Advertising sign
 - ▶ Bus sign
 - ▶ Petrol sign
 - ▶ Traffic signal
- **Illumination**
 - ▶ Torch
 - ▶ Light strip
 - ▶ Channel letter
 - ▶ Backlight for mobile devices
 - ▶ Retail display lighting



Typical Electrical - Optical Characteristics

Round	Part Number	Color	Size	Viewing Angle	Leads with Stoppers	Intensity(mcd)			Dominant Wavelength(nm)			Forward Voltage	
						min	typ	max	min	typ	max	typ	max
503	C503B-AAN	Amber	5	15	No	5860	13000	23500	584	591	596	2.1	2.6
	C503B-AAS	Amber	5	15	Yes	5860	13000	23500	584	591	596	2.1	2.6
	C503B-ABN	Amber	5	23	No	3000	5000	12000	584	591	596	2.1	2.6
	C503B-ABS	Amber	5	23	Yes	3000	5000	12000	584	591	596	2.1	2.6
	C503B-ACN	Amber	5	30	Yes	3000	5000	8200	584	591	596	2.1	2.6
	C503B-ACS	Amber	5	30	Yes	3000	5000	8200	584	591	596	2.1	2.6
	C503B-BAN	Blue	5	15	No	5860	11000	23500	465	470	480	3.2	4.0
	C503B-BAS	Blue	5	15	Yes	5860	11000	23500	465	470	480	3.2	4.0
	C503B-BCN	Blue	5	30	No	2130	4100	8200	465	470	480	3.2	4.0
	C503B-BCS	Blue	5	30	Yes	2130	4100	8200	465	470	480	3.2	4.0
	C503B-GAN	Green	5	15	No	16800	34000	64600	520	527	535	3.2	4.0
	C503B-GAS	Green	5	15	Yes	16800	34000	64600	520	527	535	3.2	4.0
	C503B-GCN	Green	5	30	No	5860	12500	23500	520	527	535	3.2	4.0
	C503B-GCS	Green	5	30	Yes	5860	12500	23500	520	527	535	3.2	4.0
	C503B-RAN	Red	5	15	No	5860	12000	23500	618	624	630	2.1	2.6
	C503B-RAS	Red	5	15	Yes	5860	12000	23500	618	624	630	2.1	2.6
	C503B-RBN	Red	5	23	No	3000	5000	12000	618	624	630	2.1	2.6
	C503B-RBS	Red	5	23	Yes	3000	5000	12000	618	624	630	2.1	2.6
	C503B-RCN	Red	5	30	No	3000	5100	12000	618	624	630	2.1	2.6
	C503B-RCS	Red	5	30	Yes	3000	5100	12000	618	624	630	2.1	2.6
503C	C503B-WAN	White	5	15	No	14400	18000	32900				3.2	4.0
	C503C-WAN	White	5	15	No	16800	24000	32900				3.2	4.0
	C503C-WAS	White	5	15	Yes	16800	24000	32900				3.2	4.0
	C513A-WSN	White	5	55	No	2130	4000	8200				3.2	4.0
513	C513A-WSS	White	5	55	Yes	2130	4000	8200				3.2	4.0
	C535A-WJN	White	5	110	No	770	1400	3000				3.2	4.0

Part number will be subject to change without notice.
www.cree.com

Headquarters
4600 Silicon Drive
Durham, NC 27703
Phone: +1 919 313 5300
XLampSales@cree.com

Cree Asia-Pacific Limited
Unit 301, 3/F, Photonics Centre,
2 Science Park East Avenue,
Hong Kong Science Park,
Shatin, Hong Kong
Phone: + 852 3602 9200
CreeAsia-Pacific@cree.com

Cree Hong Kong Limited
Unit 301, 3/F, Photonics Centre
2 Science Park East Avenue
Hong Kong Science Park
Shatin, Hong Kong
Phone: +852 2424 8228
CreeSalesAsia@cree.com

Cree Shanghai Opto Development Limited
Block 22, Universal Software Park,
No.879 Zhongjiang Rd.,
Shanghai, PRC
Postal Code: 200333
Phone: +86 21 5283 1808, 5283 1809

Cree Huizhou Opto Limited
10/F, Rong Chao Economic & Business
Centre No. 4028 Jin Tian Road
FuTian Centre, Shenzhen, PRC
Postal Code : 518008
Phone : +86 755 2502 6291, 2502 6292