



opulent
americas

Cree High Power Starboards

Power of Cree in Standard and Custom LED Starboards

Data Sheet

Version 1.1

Lean & Fast. Made Smarter.

Superior Performance – Stay current with the highest intensity LEDs

Design Faster – Use industry standard starboards to shorten development time

Maximum Flexibility – Design to your exact specifications using Opulent Americas' starboards

Rapid Innovation – Work with Opulent Americas on your custom solution

Primary Applications



Prototyping
Flashlight
Downlight
Architectural

Directional
Horticulture
Portable
Vehicle



Custom Solutions

Opulent Americas operates facilities globally with ISO certifications for the LED lighting, automotive and medical industries. Our North Carolina based office provides quick engineering & sales support with a R&D lab for prototype development and custom solutions. Our in-house global manufacturing capabilities allow for both building in the United States as well as overseas at scale.

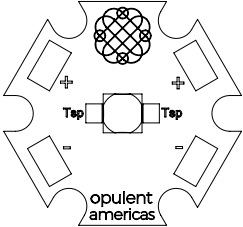
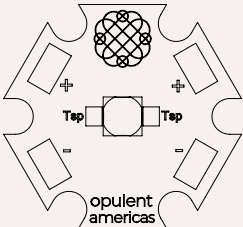
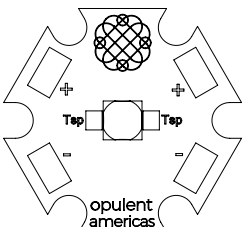
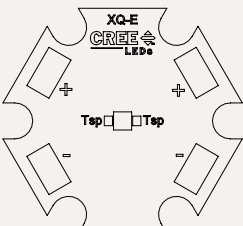
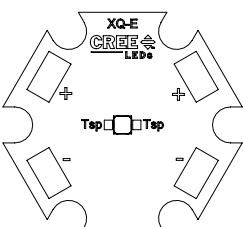
About Opulent Americas

Opulent Americas accelerates the adoption of LED technology through simple, modular products and custom designs. Through 30 years of experience, state of the art manufacturing, full traceability and advanced quality controls, Opulent offers leading solid state lighting components, modules and custom solutions. Opulent customers get to market faster, with less resources, at lower costs. Visit opulent-americas.com for more information.

Last Modified: 09/17/19

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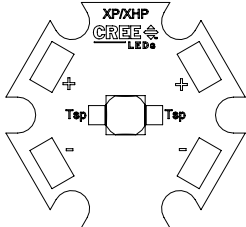
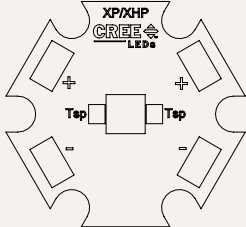
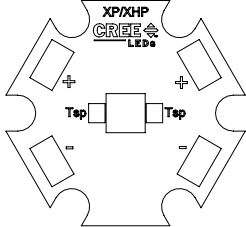
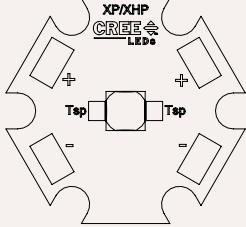
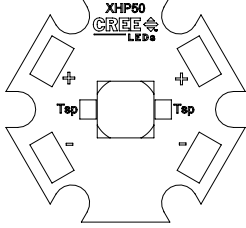
White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 New XP-G2 HE	LSTI-01C49-2780-00	2700K	80	
	LSTI-01C49-4070-00	4000K	70	
	LSTI-01C49-6570-00	6500K	70	
 New XP-G3 S-Line	LSTI-01C50-2780-00	2700K	80	
	LSTI-01C50-4070-00	4000K	70	
	LSTI-01C50-6570-00	6500K	70	
 New XHP35.2	LSTI-01C48-2780-00	2700K	80	
	LSTI-01C48-4070-00	4000K	70	
	LSTI-01C48-6570-00	6500K	70	
 XQ-E HI	XQEAWT-H0-0000-00000HDE8-SB01	2700K	80	93.9
	XQEAWT-H0-0000-00000LEE5-SB01	4000K	75	114
	XQEAWT-H0-0000-00000BFE1-SB01	6500K	70	122
 XQ-E HD	XQEAWT-00-0000-00000HBE8-SB01	2700K	80	93.9
	XQEAWT-00-0000-00000HDE5-SB01	4000K	80	107
	XQEAWT-00-0000-00000BFE1-SB01	6500K	70	122

Product performance at binning current $T_c = 85^\circ\text{C}$.
CRI and Flux values are minimum.

Cree High Power Starboards

White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 XHP35 HD	XHP35A-00-0000-0D0BD430E-SB01	3000K	70	550
	XHP35A-00-0000-0D0BE240E-SB01	4000K	70	590
	XHP35A-00-0000-0D0BE450E-SB01	5000K	70	635
 XHP35 HI	XHP35A-H0-0000-0D0BC230E-SB01	3000K	70	440
	XHP35A-H0-0000-0D0BC440E-SB01	4000K	70	475
	XHP35A-H0-0000-0D0BC450E-SB01	5000K	70	475
 XP-L HI	XPLAWT-H0-0000-000HU40F8-SB01	2850K	80	340
	XPLAWT-H0-0000-000BV20E5-SB01	4000K	70	400
	XPLAWT-H0-0000-000BV20E1-SB01	6500K	70	400
 XP-L HD	XPLAWT-00-0000-000HU60E8-SB01	2700K	80	380
	XPLAWT-00-0000-000BV50E5-SB01	4000K	70	460
	XPLAWT-00-0000-0000V60E1-SB01	6500K	65	480
 XHP50	XHP50A-00-0000-0D0BH430E-SB01	3000K	70	970
	XHP50A-00-0000-0D0BJ440E-SB01	4000K	70	1120
	XHP50A-00-0000-0D0BJ450E-SB01	5000K	70	1120

Product performance at binning current $T_c = 85^\circ\text{C}$.
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White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 XHP70	XHP70A-00-0000-0D0BM430E-SB01	3000K	70	1485
	XHP70A-00-0000-0D0BN240E-SB01	4000K	70	1590
	XHP70A-00-0000-0D0BN450E-SB01	5000K	70	1710
 XHP50.2	XHP50B-00-0000-0D0HH227G-SB01	2700K	80	900
	XHP50B-00-0000-0D0BJ440E-SB01	4000K	70	1120
	XHP50B-00-0000-0D0BJ40CB-SB01	6500K	70	1120
 XHP70.2	XHP70B-00-0000-0D0HM427G-SB01	2700K	80	1485
	XHP70B-00-0000-0D0BP240E-SB01	4000K	70	1830
	XHP70B-00-0000-0D0BN40E1-SB01	6500K	70	1710
 XP-G3	XPGDWT-H1-0000-00HE8-SB01	2700K	80	139
	XPGDWT-B1-0000-00L5E-SB01	4000K	70	164
	XPGDWT-01-0000-00LE1-SB01	6500K	70	164
 XP-L2	XPLBWT-00-0000-000HV227G-SB01	2700K	80	400
	XPLBWT-00-0000-000BV640E-SB01	4000K	70	480
	XPLBWT-00-0000-000BV50CB-SB01	6500K	70	460

Product performance at binning current $T_c = 85^\circ\text{C}$.
CRI and Flux values are minimum.

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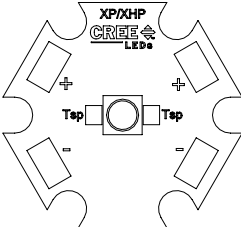
White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 MHB-B	MHBBWT-0000-000C0HC427G-SB01	2700K	80	475
	MHBBWT-0000-000C0BE240E-SB01	4000K	70	590
	MHBBWT-0000-000C0BE265E-SB01	6500K	70	590
 MHD-C	MHDCWT-0000-000N0HK427G-SB01	2700K	80	1290
	MHDCWT-0000-000N0BM440E-SB01	4000K	70	1485
	MHDCWT-0000-000N0BN265E-SB01	6500K	70	1590

Product performance at binning current $T_c = 85^\circ\text{C}$.
CRI and Flux values are minimum.

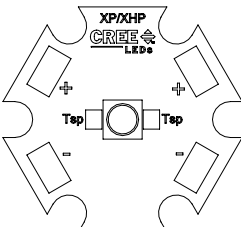
Cree High Power Starboards

Color Product Selection Guide



Link to Cree Datasheet	Part Number	Color	DW/Bin	Luminous Flux (lm)
XPEBAM	XPEBAM-L1-0000-00901-SB01	Amber	585-595	80.6
XPEBBL	XPEBBL-L1-0000-00301-SB01	Blue	465-485	45.7
XPEBGR	XPEBGR-L1-0000-00G01-SB01	Green	520-535	130
XPEBGR	XPEBGR-L1-0000-00F03-SB01	Green	525-535	122
XPEBRD	XPEBRD-L1-0000-00901-SB01	Red	620-630	80.6
XPEBPA	XPEBPA-L1-0000-00D01-SB01	PC Amber	Y2	107

Specialty Color Product Selection Guide

Link to Cree Datasheet	Part Number	Color	DW/Bin	Radiant Flux (mW)	
	XPEFAR	XPEFAR-L1-0000-00601-SB01	Far Red	720-740	210
	XPEPHR	XPEPHR-L1-0000-00901-SB01	Photo Red	650-670	350
	XPEBRY	XPEBRY-L1-0000-00R01-SB01	Royal Blue	450-465	625
	XPEBRD	XPERDO-L1-0000-00A01-SB01	Red Orange	610-620	87.4
	XPGDRY	LST1-01C32-RYL1-00	Royal Blue	440-455	730
	XQEROY	LST1-01C40-RYL1-00	Royal Blue	450-465	600
	XQEEPR	LST1-01C40-PRD1-00	HE Photo Red	650-670	375

Product performance at binning current $T_c = 85^\circ\text{C}$.
Flux values are minimum.

Opulent Americas Starboard Mechanical



MCPCB Fabrication

- 2oz copper
- 5052 Al
- White solder mask
- Lead free Immersion Gold

Intended for connection to a class 2 power source with a maximum operating voltage of 50 Vdc.

Maximum Ratings

See Cree's Datasheets [HERE](#)

Max Solder Point Verse Drive Current

See Cree's Datasheets [HERE](#)

Thermal Interface Guidance

Current derating must be observed to maintain junction temperature below the maximum, see Cree's application note for additional information on thermal management guidelines [HERE](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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