



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	Directional
Flashlight	Horticulture
Downlight	Portable
Architectural	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.

Cree High Power Starboards

White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 <p>New XP-G2 HE</p>	LSTI-01C49-2780-00	2700K	80	
	LSTI-01C49-4070-00	4000K	70	
	LSTI-01C49-6570-00	6500K	70	
 <p>New XP-G3 S-Line</p>	LSTI-01C50-2780-00	2700K	80	
	LSTI-01C50-4070-00	4000K	70	
	LSTI-01C50-6570-00	6500K	70	
 <p>New XHP35.2</p>	LSTI-01C48-2780-00	2700K	80	
	LSTI-01C48-4070-00	4000K	70	
	LSTI-01C48-6570-00	6500K	70	
 <p>XQ-E HI</p>	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
 <p>XQ-E HD</p>	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.

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 <p>XHP35 HD</p>	XHP35A-00-0000-0D0BD430E-SB01	3000K	70	550
	XHP35A-00-0000-0D0BE240E-SB01	4000K	70	590
	XHP35A-00-0000-0D0BE450E-SB01	5000K	70	635
 <p>XHP35 HI</p>	XHP35A-H0-0000-0D0BC230E-SB01	3000K	70	440
	XHP35A-H0-0000-0D0BC440E-SB01	4000K	70	475
	XHP35A-H0-0000-0D0BC450E-SB01	5000K	70	475
 <p>XP-L HI</p>	XPLAWT-H0-0000-000HU40F8-SB01	2850K	80	340
	XPLAWT-H0-0000-000BV20E5-SB01	4000K	70	400
	XPLAWT-H0-0000-000BV20E1-SB01	6500K	70	400
 <p>XP-L HD</p>	XPLAWT-00-0000-000HU60E8-SB01	2700K	80	380
	XPLAWT-00-0000-000BV50E5-SB01	4000K	70	460
	XPLAWT-00-0000-000V60E1-SB01	6500K	65	480
 <p>XHP50</p>	XHP50A-00-0000-0D0BH430E-SB01	3000K	70	970
	XHP50A-00-0000-0D0BJ440E-SB01	4000K	70	1120
	XHP50A-00-0000-0D0BJ450E-SB01	5000K	70	1120

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 <p>XHP70</p>	XHP70A-00-0000-0D0BM430E-SB01	3000K	70	1485
	XHP70A-00-0000-0D0BN240E-SB01	4000K	70	1590
	XHP70A-00-0000-0D0BN450E-SB01	5000K	70	1710
 <p>XHP50.2</p>	XHP50B-00-0000-0D0HH227G-SB01	2700K	80	900
	XHP50B-00-0000-0D0BJ440E-SB01	4000K	70	1120
	XHP50B-00-0000-0D0BJ40CB-SB01	6500K	70	1120
 <p>XHP70.2</p>	XHP70B-00-0000-0D0HM427G-SB01	2700K	80	1485
	XHP70B-00-0000-0D0BP240E-SB01	4000K	70	1830
	XHP70B-00-0000-0D0BN40E1-SB01	6500K	70	1710
 <p>XP-G3</p>	XPGDWT-H1-0000-00HE8-SB01	2700K	80	139
	XPGDWT-B1-0000-00L5E-SB01	4000K	70	164
	XPGDWT-01-0000-00LE1-SB01	6500K	70	164
 <p>XP-L2</p>	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 $T_c = 85^\circ\text{C}$.
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White Product Selection Guide

Link to Cree Datasheet	Part Number	CCT	CRI	Luminous Flux (lm)
 <p>MHB-B</p>	MHBBWT-0000-000C0HC427G-SB01	2700K	80	475
	MHBBWT-0000-000C0BE240E-SB01	4000K	70	590
	MHBBWT-0000-000C0BE265E-SB01	6500K	70	590
 <p>MHD-G</p>	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.

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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	LSTI-01C32-RYL1-00	Royal Blue	440-455	730
	XQEROY	LSTI-01C40-RYL1-00	Royal Blue	450-465	600
	XQEEPR	LSTI-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](#)

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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