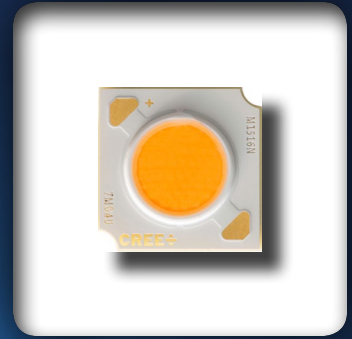


# XLAMP® HIGH-CURRENT LED ARRAYS (CMA)

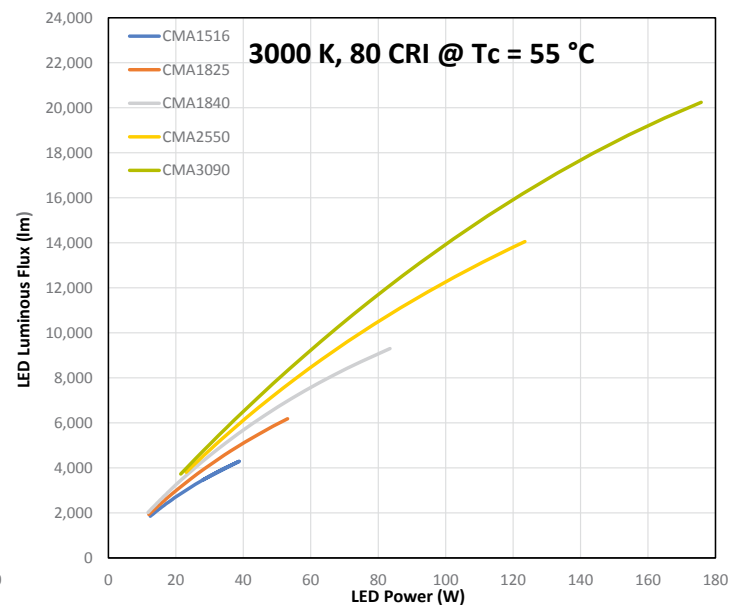
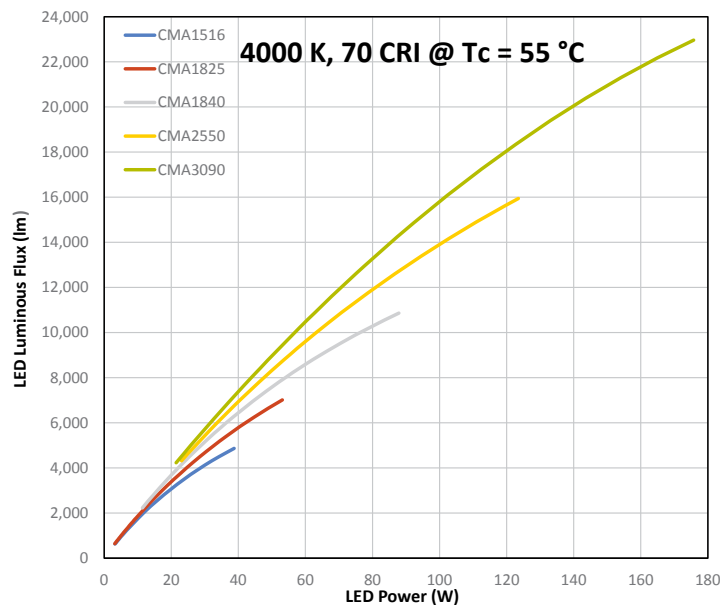
- Optimized for best-in-class lumen output, efficacy and reliability at high drive currents
- New innovative metal COB technology that delivers higher reliability than competing metal COBs
- Same package design and LES sizes as Cree XLamp® CXA2 LED Arrays for quick performance upgrade



## Product Selector: ( $T_j = 85\text{ }^\circ\text{C}$ )

	Light Emitting Surface (mm)	Voltage Options	Typ. Power (W)	Max. Power (W)	4000 K, 70 CRI		3000 K, 80 CRI		3000 K, 90 CRI	
					Typ. Flux (lm)	Typ. LPW (lm/W)	Typ. Flux (lm)	Typ. LPW (lm/W)	Typ. Flux (lm)	Typ. LPW (lm/W)
<b>CMA1516</b>	9	36V	16	41	2,439	155	2,150	137	1,818	115
<b>CMA1825</b>	12	36V	24	61	3,823	158	3,370	139	2,849	118
<b>CMA1840</b>	14	36V	38	87	6,012	158	5,300	139	4,481	117
<b>CMA2550</b>	19	36V	48	122	7,770	163	6,850	144	5,792	122
<b>CMA3090</b>	23	48V 72V	82	174	13,295	163	11,720	144	9,909	121

## Typical LED Luminous Flux vs. Power



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January 2018 (FS32R1)



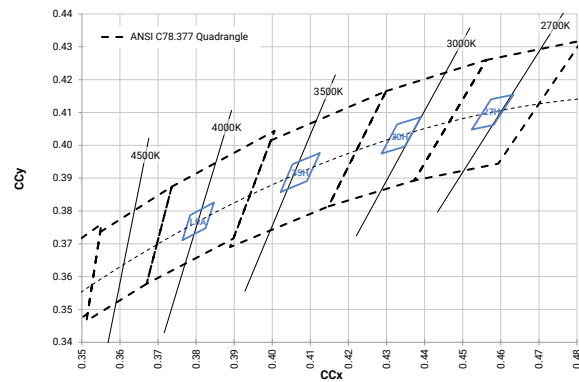
+1 919-313-5300 • 800-533-2583  
xlampsales@cree.com

### CRI & CCT Options: Standard & Premium

Series	CRI	CCT								
		6500 K	5700 K	5000 K	4000 K	3500 K	3100 K below BBL	3000 K	3000 K below BBL	2700 K
Standard	70	o	o	o	o			o		
	80	o	o	o	o	o		o		o
	90		o	o	o	o		o		o
Premium	Fidelity	98				o	o		o	o
	Specialty	80							o	
		90						o		o
		98								o

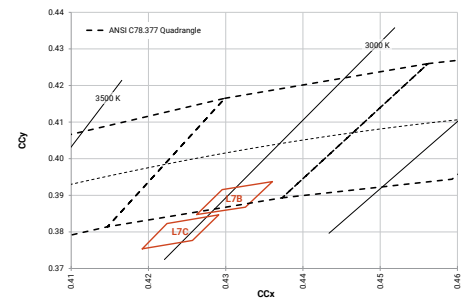
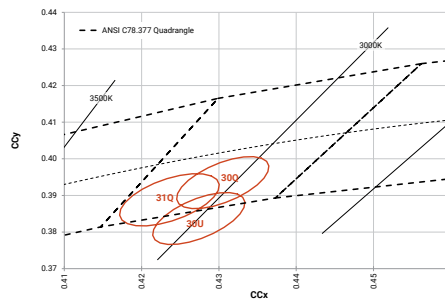
#### Fidelity

CCT	CRI		TM-30		Bin
	Ra	R9	Rf	Rg	
4000 K	97	95	91	99	L5A
3500 K	97	97	91	99	35H
3000 K	98	88	93	99	30H
2700 K	98	93	96	101	27H



#### Specialty

CCT	CRI		TM-30		Bin
	Ra	R9	Rf	Rg	
3100 K	91	56	90	100	31Q
3000 K	84	16	83	96	L7B
3000 K	92	58	89	99	30Q
3000 K	92	60	89	101	30U
3000 K	95	84	92	101	L7C



### LM-80 Data Summary

Tc (°C)	6k Hour Timing	LM-80 Current (A)					
		CMA1516	CMA1825	CMA1840	CMA2550	CMA3090 48 V	CMA3090 72 V
85	Max @ 85 °C	1.050	1.600	2.300	3.300	3.600	2.400
	Apr 2018	0.840	0.900	1.260	2.160	2.700	1.800
	Q3 CY18		1.428	2.000	2.640	3.300	2.200
105	Max @ 105 °C	0.727	1.108	1.592	2.285	2.492	1.662
	Apr 2018	0.560	0.800	1.120	1.920	2.400	1.600
	Q3 CY18		1.000	1.225			
120	Max @ 120 °C	0.485	0.738	1.062	1.523	1.662	1.108
	Apr 2018	0.280	0.481	0.560	0.960	1.200	0.800