

XLAMP® CXA2 LED ARRAYS (SMALL)

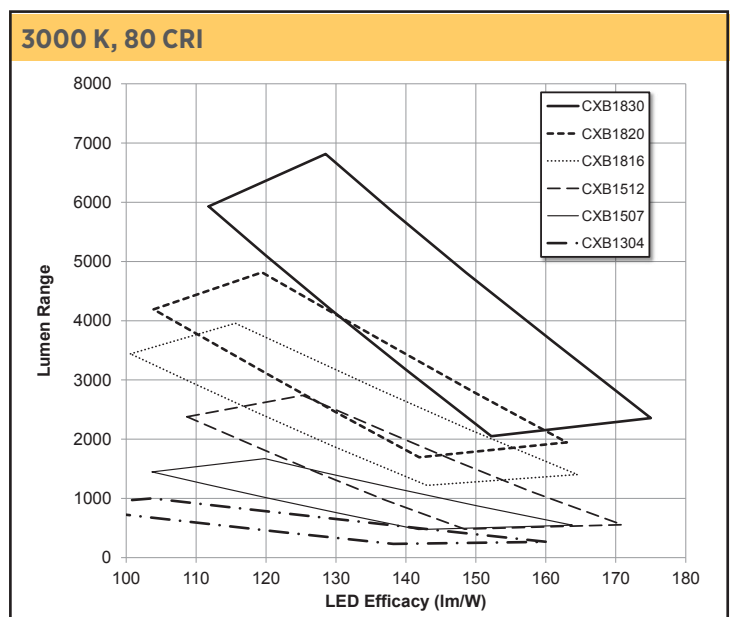
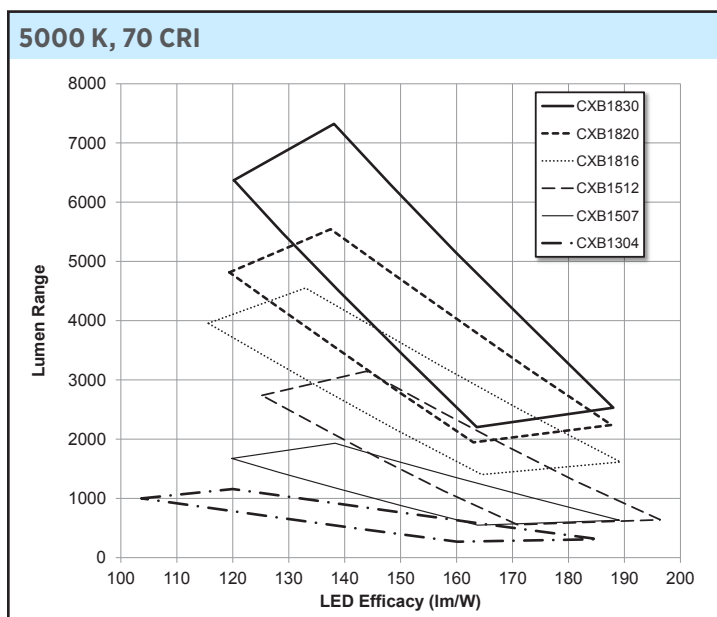
- Optimized to Lower System Cost: Improved Lumen Density, Reliability & Color Consistency
- Up to 33% Efficacy Increase over CXA Arrays
- Tighter Color Consistency: 2-Step, 3-Step & 5-Step Bins
- Mechanical & Optical Compatibility with CXA Family



Product Selector Table

		CXB1304			CXB1507		CXB1512		CXB1816	CXB1820	CXB1830
		9V	18V	36V	18V	36V	18V	36V			
Light Emitting Surface (mm)		6			9		9		12		14
Typical	Current (mA)	400	200	100	400	200	700	350	450	550	800
	Vf @ 85 °C (V)	8.6	17.3	34.5	17.3	34.5	17.2	34.3	35	35	35
	Power (W)	3.5			7		12		16	20	28
Max.	Current (mA)	1000	500	250	750	375	1200	600	900	1050	1400
	Power (W)	10			14		22		34	40	53

Performance Selector Guide (T_c = 55 °C)



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Applications

Directional

- Track / Spot: Halogen, CMH
- PAR, MR, GU Lamp: Halogen

Semi-Directional

- Downlight: CFL
- BR Lamp: Halogen
- Low-Bay, Garage, Tunnel: Metal Halide

CRI & CCT Options

70 CRI minimum

- 6500 K
- 5700 K
- 5000 K
- 4000 K

80 CRI minimum

- 6500 K
- 5700 K
- 5000 K
- 4000 K
- 3500 K
- 3000 K
- 2700 K

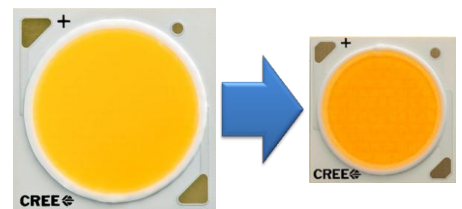
92 CRI typical

- 5000 K
- 4000 K
- 3500 K
- 3000 K
- 2700 K

CXA to CXA2 Upgrade Guide

Upgrade Guide				Similar or Higher Performance Available Up to:	
CXA	LES Size	CXA2	LES Size	18V	36V
CXA1507	9 mm	CXB1304	6 mm	400 mA	200 mA
CXA1510/1512	9 mm	CXB1507	9 mm	700 mA	350 mA
CXA1816/1820	12 mm	CXB1512	9 mm	---	600 mA
CXA1830	14 mm	CXB1816	12 mm	---	900 mA
CXA2520/2530	19 mm	CXB1816	12 mm	---	900 mA
CXA2530/2540	19 mm	CXB1820	12 mm	---	1050 mA
CXA3050	23 mm	CXA1830	12 mm	---	1400 mA

CXA2 Upgrade Example:



CXA2540 @ 900 mA
19 mm LES
3790 lm
32.0W

CXB1820 @ 900 mA
12 mm LES
3853 lm
33.6W

LM-80 Data Summary

LED	I _F (mA)	Ta/Tc (°C)	TM-21 Reported (Hrs)	
			L90	L70
CXB1304 9V	620	105	35,000	>60,500
CXB1304 9V	928	85	35,500	>39,300
CXB1304 18V	310	105	35,000	>60,500
CXB1304 18V	464	85	35,500	>39,300
CXB1304 37V	155	105	35,000	>60,500
CXB1304 37V	232	85	35,500	>39,300
CXB1507 18V	620	105	35,000	>60,500
CXB1507 18V	750	85	35,500	>39,300
CXB1507 37V	310	105	35,000	>60,500
CXB1507 37V	375	85	35,500	>39,300

LED	I _F (mA)	Ta/Tc (°C)	TM-21 Reported (Hrs)	
			L90	L70
CXB1512 18V	1000	105	35,000	>60,500
CXB1512 18V	1200	85	35,500	>39,300
CXB1512 37V	500	105	35,000	>60,500
CXB1512 37V	600	85	35,500	>39,300
CXB1816	620	105	35,000	>60,500
CXB1816	900	85	35,500	>39,300
CXB1820	668	105	35,000	>60,500
CXB1820	1050	85	35,500	>39,300
CXB1830	696	105	>36,300	>36,300
CXB1830	1400	85	>36,300	>36,300

* Above summary is for LM-80 data scaled from CXA arrays. CXA2 LM-80 data is scheduled to reach 6k hours in Q4 2015.