

XLAMP® XB-D LEDs

- Wide range of color options in a small 2.45 mm package
- Ceramic package for highest levels of reliability
- Optimized for general lighting, aftermarket automotive, architectural and machine vision applications

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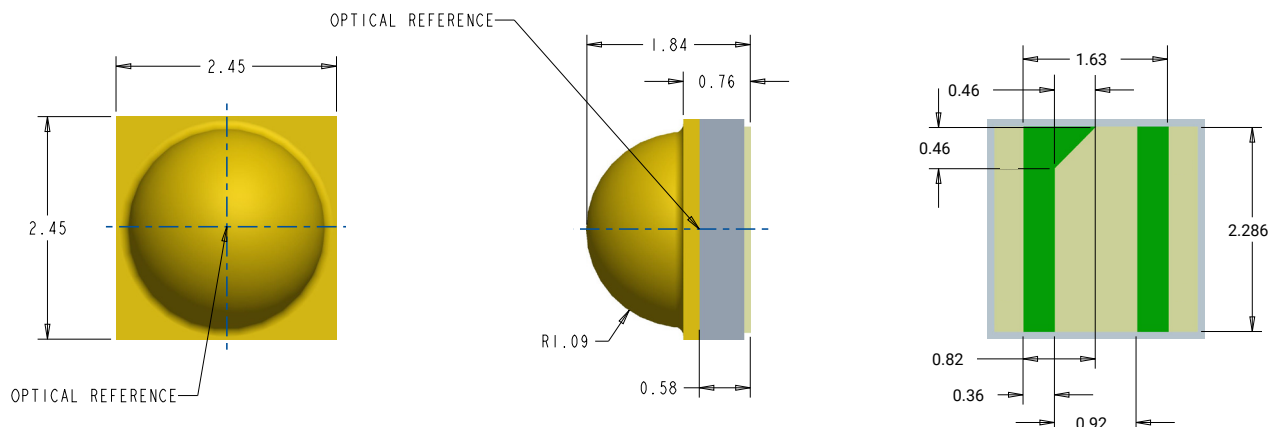
PORTFOLIO OVERVIEW



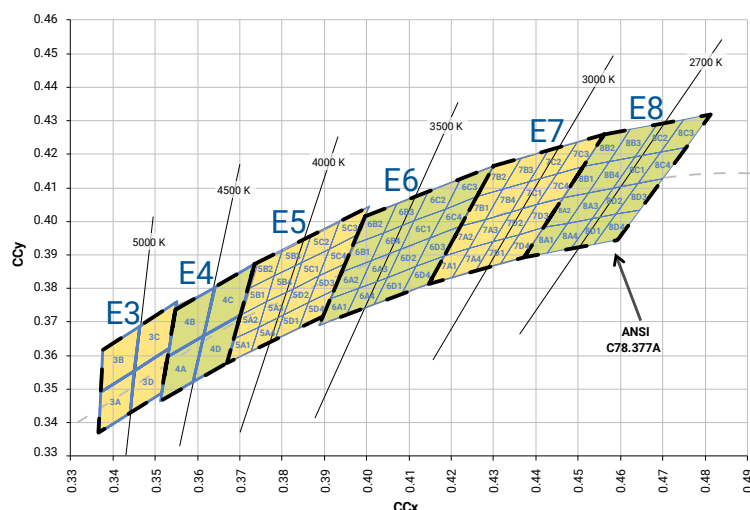
	White	Royal Blue	Blue	Green	Amber	PC Amber	Red-Orange	Red
Wavelength (nm)		450-465	465-485	520-535	585-595		610-620	620-630
Binning Temperature (°C)	85°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C
Typical Vf @ 350 mA (V)	2.90	2.95	2.95	2.97	2.17	3.10	2.17	2.17
Viewing Angle	115°	120°	125°	125°	140°	110°	140°	140°
Thermal Resistance (°C/W)	6.5	6.5	6.5	11	7.8	8.5	5	5
Max Current (mA)	1000	1000	1000	1000	1000	1000	1000	1000

COMPACT, RELIABLE PACKAGE DESIGN

- Simple 3-pad PCB layout with consistent anode/cathode location across all colors
- Large 2.1 mm² electrically isolated thermal pad for excellent heat transfer
- Small 1.5 x 1.5 mm optical source size



WHITE CCT & CRI OPTIONS



CCT	70 CRI	80 CRI	90 CRI
6500 K	◆	◆	
5700 K	◆	◆	
5000 K	◆	◆	
4000 K	◆	◆	
3500 K	◆	◆	
3000 K	◆	◆	◆
2700 K	◆	◆	◆

PERFORMANCE OPTIONS OVERVIEW

Refer to the data sheet for the complete list of available order code options

		350 mA, T _j = 85°C		150 mA, T _j = 25°C		1000 mA, T _j = 85°C	
White	4000K, 70 CRI	130 lm	128 LPW	71 lm	163 LPW	289 lm	90 LPW
		122 lm	120 LPW	67 lm	153 LPW	271 lm	84 LPW
		114 lm	112 LPW	62 lm	143 LPW	253 lm	79 LPW
	3000K, 80 CRI	122 lm	120 LPW	67 lm	153 LPW	271 lm	84 LPW
		114 lm	112 LPW	62 lm	143 LPW	253 lm	79 LPW
		107 lm	105 LPW	58 lm	134 LPW	237 lm	74 LPW

		350 mA, T _j = 25°C		150 mA, T _j = 25°C		1000 mA, T _j = 85°C	
Royal Blue	450 - 465 nm	650 mW 625 mW	63% WPE 61% WPE	302 mW 290 mW	72% WPE 69% WPE	1354 mW 1302 mW	44% WPE 42% WPE
Blue	465 - 485 nm	51.7 lm 45.7 lm 39.8 lm	50 LPW 44 LPW 39 LPW	26 lm 23 lm 20 lm	63 LPW 56 LPW 49 LPW	103 lm 91 lm 79 lm	32 LPW 29 LPW 25 LPW
Green	520- 535 nm	139 lm 130 lm 122 lm	134 LPW 125 LPW 117 LPW	81 lm 76 lm 71 lm	199 LPW 186 LPW 175 LPW	218 lm 204 lm 192 lm	67 LPW 63 LPW 59 LPW
Amber	585 - 595 nm	87.4 lm 80.6 lm 73.9 lm	115 LPW 106 LPW 97 LPW	38 lm 35 lm 32 lm	126 LPW 116 LPW 107 LPW	95 lm 87 lm 80 lm	39 LPW 36 LPW 33 LPW
PC Amber		100 lm 93.9 lm	92 LPW 87 LPW	48 lm 45 lm	111 LPW 104 LPW	182 lm 171 lm	55 LPW 52 LPW
Red-Orange	610 - 620 nm	114 lm 107 lm 100 lm	150 LPW 141 LPW 132 LPW	49 lm 46 lm 43 lm	169 LPW 159 LPW 149 LPW	190 lm 178 lm 167 lm	76 LPW 71 LPW 66 LPW
Red	620 - 630 nm	80.6 lm 73.9 lm 67.2 lm	106 LPW 97 LPW 89 LPW	35 lm 32 lm 29 lm	120 LPW 110 LPW 100 LPW	134 lm 123 lm 112 lm	54 LPW 49 LPW 45 LPW