

XLamp® XR-E White



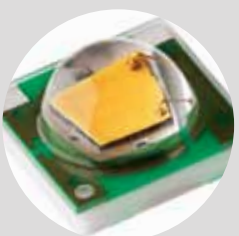
XLamp® MC-E White



XLamp® MX-6



XLamp® MPL EasyWhite



XLamp® XP-E White

FEATURES

- **Complete portfolio of ANSI-compatible white**
- **EasyWhite™ color temperatures for XLamp MC-E & MP-L**
- **Smallest warm-white chromaticity bins**
- **Industry-leading flux and efficacy**
- **Proven white point stability**
- **U.S. DOE approved lumen maintenance**
 - o XLamp XR-E, XP-E & MC-E LEDs
- **UL-recognized component**
 - o XLamp XP-G, XP-E & XP-C LEDs
- **ROHS and REACH-compliant**

APPLICATIONS

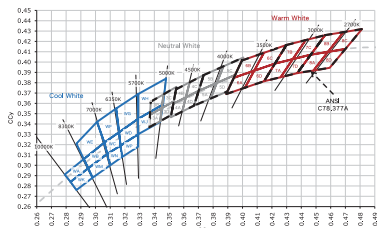
- **LED light bulbs**
 - o A19, B, MR, PAR
- **Outdoor lighting**
 - o Parking area, roadway, pedestrian
- **Indoor lighting**
 - o Downlights, wall washers, flush-mount
- **Retail display lighting**
 - o Display case, refrigerated display
- **Portable and personal lighting**
- **Architectural lighting**
- **Solar-powered lighting**
- **Security lighting**

Basic Advantages of LED Light

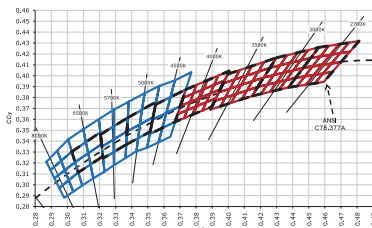
- | | |
|--------------------------|---|
| Very energy efficient | >> available up to 130 lumens/watt and still increasing |
| High-quality light | >> no compromise between efficacy and CRI |
| Directional | >> no wasted light; any pattern possible |
| Extremely long lifetime | >> L70 lifetime up to 50,000 hours |
| Inherently rugged | >> no filament to break |
| Instant on | >> reaches full brightness in nanoseconds |
| Environmentally friendly | >> contains no mercury, lead or other heavy metals |
| Infinitely controllable | >> enables new lighting fixtures and energy-saving techniques |
| Low-temperature-friendly | >> no issues starting in cold environments |

Part	Package Size (mm)	Color	Viewing Angle	CCT (K)	DWL (nm)	Max Current (mA) *	Nominal Current (mA) *	Standard Min. Flux (lm) **		
XLamp MP-L	13.15 x 12.15	EasyWhite™	125	2700/3000/3500/4000	-	250	150	600 - 900		
XLamp XP-G	3.45 x 3.45	Cool White (ANSI)	125	8300 - 5000	-	1500	350	122 - 139		
		Outdoor White	125	5300 - 4300	-	1500	350	114 - 130		
		Neutral White (ANSI)	125	5000 - 3700	-	1500	350	100 - 130		
		Warm White (ANSI)	125	3700 - 2600	-	1500	350	93.9 - 114		
		Cool White	115	10,000 - 5000	-	1000	350	107 - 122		
XLamp XP-E	3.45 x 3.45	Cool White (ANSI)	115	8300 - 5000	-	1000	350	107 - 122		
		Outdoor White	115	5300 - 4300	-	1000	350	93.9 - 114		
		Neutral White (ANSI)	115	5000 - 3700	-	1000	350	87.4 - 107		
		Warm White (ANSI)	115	3700 - 2600	-	1000	350	67.2 - 93.9		
		Royal Blue	130	-	450-465	1000	350	350 mW - 425 mW		
		Blue	130	-	465-485	1000	350	23.5 - 30.6		
		Green	130	-	520-535	1000	350	73.9 - 100		
		Amber	130	-	585-595	500	350	45.7 - 62.0		
		Red-Orange	130	-	610-620	700	350	56.8 - 73.9		
		Red	130	-	620-630	700	350	39.8 - 56.8		
		XLamp XP-C	3.45 x 3.45	Cool White	110	10,000 - 5000	-	500	350	80.6 - 100
				Cool White (ANSI)	110	8300 - 5000	-	500	350	80.6 - 100
Neutral White (ANSI)	110			5000 - 3700	-	500	350	67.2 - 87.4		
Warm White (ANSI)	110			3700 - 2600	-	500	350	56.8 - 80.6		
Royal Blue	125			-	450-465	500	350	250 mW - 300 mW		
Blue	125			-	465-485	500	350	13.9 - 18.1		
Green	125			-	520-535	500	350	51.7 - 73.9		
Amber	125			-	585-595	500	350	35.2 - 51.7		
Red-Orange	125			-	610-620	500	350	39.8 - 56.8		
Red	125			-	620-630	500	350	30.6 - 45.7		
XLamp MC-E	7.0 x 9.0			EasyWhite	110	2700/3000/3500	-	700	350	280 - 320
				Cool White	110	10,000 - 5000	-	700	350	370 - 430
		Neutral White (ANSI)	110	5000 - 3700	-	700	350	320 - 370		
		Warm White (ANSI)	110	3700 - 2600	-	700	350	280 - 320		
		Color (RGBW)	115	6000 / 4000	625/525/460	700	350	186 - 206		
		Cool White (ANSI)	120	8300 - 4300	-	1000	300	87.4 - 107		
XLamp MX-6	6.5 x 5.0	Warm White (ANSI)	120	4300 - 2600	-	1000	300	67.2 - 93.9		
		Cool White	90	10,000 - 5000	-	1000	350	80.6 - 107		
XLamp XR-E	7.0 x 9.0	Neutral White (ANSI)	90	5000 - 3700	-	700	350	67.2 - 100		
		Warm White (ANSI)	90	3700 - 2600	-	700	350	56.8 - 87.4		
		Royal Blue	100	-	450-465	1000	350	350 mW - 425 mW		
		Blue	100	-	465-485	1000	350	23.5 - 30.6		
		Green	100	-	520-535	700	350	67.2		
XLamp XR-C	7.0 x 9.0	Cool White	90	10,000 - 5000	-	500	350	73.9 - 93.9		
		Neutral White (ANSI)	90	5000 - 3700	-	500	350	56.8 - 87.4		
		Warm White (ANSI)	90	3700 - 2600	-	500	350	51.7 - 73.9		
		Royal Blue	100	-	450-465	500	350	250 mW - 300 mW		
		Blue	100	-	465-485	500	350	13.9 - 18.1		
		Green	100	-	520-535	500	350	39.8 - 51.7		
		Amber	90	-	585-595	350	350	23.5 - 39.8		
		Red-Orange	90	-	610-620	700	350	30.6 - 39.8		
		Red	90	-	620-630	700	350	23.5 - 39.8		

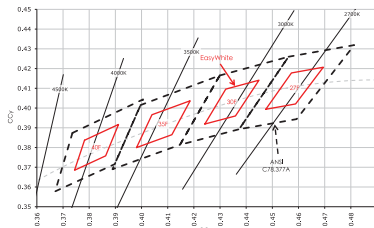
* Voltage & current specifications for XLamp® MP-L are listed per LED string; XLamp® MC-E specifications are listed per LED
 ** Range of available standard minimum flux order codes at nominal current



XLamp® XR & MCE Chromaticity Bins



XLamp® XP & MX6 Chromaticity Bins



EasyWhite color temperatures Bins

This document is provided for informational purposes only and is not a warranty or a specification.
 For product specifications, please see the data sheets available at www.cree.com.
 For warranty information, please contact Cree Sales at sales@cree.com

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