

FLUX CHARACTERISTICS (T_j = 25°C)

The following table provides several base order codes for XLamp MX-6 LEDs. It is important to note that the base order codes listed here are a subset of the total available order codes for the product family. For more order codes, as well as a complete description of the order-code nomenclature, please consult the XLamp MX-6 LED Binning & Labeling document.

Color	CCT Range		Base Order Codes Min Luminous Flux (lm) @ 300 mA		Calculated Min Luminous Flux (lm) @ 350 mA*	Order Code
	Min.	Max.	Group	Flux (lm)	Flux (lm)	
Cool White	5,000 K	8,300 K	Q5	107	122	MX6AWT-A1-0000-000D51
			R2	114	130	MX6AWT-A1-0000-000E51
			Q4	100	114	MX6AWT-A1-0000-000CE3
			Q5	107	122	MX6AWT-A1-0000-000DE3
80-CRI White	3,700K	4,300K	Q2	87.4	100	MX6AWT-H1-0000-000AE5
			Q3	93.9	107	MX6AWT-H1-0000-000BE5
	2,600K	3,700K	P4	80.6	92	MX6AWT-H1-0000-0009E7
			Q2	87.4	100	MX6AWT-H1-0000-000AE7
Warm White	3,700 K	4,300 K	Q3	93.9	107	MX6AWT-A1-0000-000BE5
			Q4	100	114	MX6AWT-A1-0000-000CE5
	2,600 K	3,700 K	Q2	87.4	100	MX6AWT-A1-0000-000AE7
			Q3	93.9	107	MX6AWT-A1-0000-000BE7

* Calculated values for reference purposes only.

Notes:

- Cree maintains a tolerance of $\pm 7\%$ on flux and power measurements and ± 2 on CRI measurements.
- Typical CRI for Cool White (4,300 K – 8,300 K CCT) is 75.
- Typical CRI for Warm White (2,600 K – 4,300 K CCT) is 80.
- Minimum CRI for 80-CRI White is 80.

CHARACTERISTICS

Characteristics	Unit	Minimum	Typical	Maximum
Thermal resistance, junction to solder point	°C/W		5	
Viewing angle (FWHM)	degrees		120	
Temperature coefficient of voltage	mV/°C		-3.3	
ESD classification (HBM per Mil-Std-883D)			Class 2	
DC forward current	mA			1000
Forward voltage (@ 300 mA)	V		3.3	3.8
LED junction temperature	°C			150

* The increase of maximum forward current to 1000 mA for XLamp MX-6 White is retroactive and applies to all XLamp MX-6 White LEDs produced by Cree. This increase is the result of more extensive testing that was performed after the initial product launch.