



XLAMP® PORTABLE LEDS

- High-power LEDs that deliver industry-leading ANSI FL 1 lumens and beam distance
- Portable-specific overdrive currents enable higher maximum lumen outputs
- Excellent customer support and product quality
- Most valuable portable LED brand for over 10 years

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LUMEN-OPTIMIZED LEDS

Lumen is a measure of luminous flux, which is light output emitted in all directions.

		XLamp LED	Footprint (mm)	Voltage Class	Lumens @ Max Current (lm)	Lumens @ Overdrive Current* (lm)	Beam Distance	Beam Quality
		XT-E HE	3.45	3 V	629 @ 1.5 A	1,000 @ 3.0 A	●●	●●
		XP-G2 HE		3 V	822 @ 2.0 A	1,350 @ 4.0 A	●	●
		XP-L2		3 V	1,300 @ 3.0 A	2,000 @ 5.0 A	●	●●●
		XHP50.3 HD	5.00	3 V	2,654 @ 6.0 A	---	●	●●●
		XHP70.3	7.00	6 V	4,292 @ 4.8 A	---	●	●●●

BEAM-DISTANCE-OPTIMIZED LEDS

Beam distance is the distance from the flashlight where illuminance is equivalent to a full moon on a clear night.

		XLamp LED	Footprint (mm)	Voltage Class	Lumens @ Max Current (lm)	Lumens @ Overdrive Current* (lm)	Beam Distance	Beam Quality
		XP-G2 Standard	3.45	3 V	658 @ 1.5 A	1,100 @ 3.0 A	●●	●●●
		XP-P		3 V	767 @ 3.0 A	---	●●●●●	●●●●●
		XP-L HI		3 V	1,100 @ 3.0 A	1,850 @ 5.0 A	●●●	●●●
		XHP35.2 HI		12 V	1,527 @ 1.0 A	---	●●●	●●●●
		XM-L3	5.00	3 V	1,860 @ 5.0 A	Coming Soon	●●●	●●●
		XHP50.3 HI		6 V	2,191 @ 3.0 A	---	●●●	●●●●

* Overdrive performance ratings are for portable lighting application use only and not for general lighting. Cree LED gives no guarantee for color shift, failures and/or rated LM-80 lifetimes for parts used beyond standard maximum drive currents per published data sheets. Cree LED overdrive performance ratings were measured in a controlled environment at 25 °C and for no more than 60 seconds.

SHADES OF WHITE OPTIONS EXPLAINED

Cree LEDs are available in a wide range of white shades, expressed in terms of correlated color temperature (CCT).

Description	Cool White	Warm White
CCT	>5000 K	3000 K
Appearance	Standard blue-white shade	Yellow shade of white
Use	Gives the highest contrast for all applications.	Provides a warm light that best highlights oranges and reds.
Example applications	Military Police Search and rescue	Camping lanterns Cold weather & snow

COLOR RENDERING OPTIONS EXPLAINED

The color rendering index (CRI) measures how well a light delivers a natural appearance to objects in the beam.

	CRI 70	CRI 90
Appearance	Moderate color distortion. Used for most outdoor lighting.	Very little color distortion. Used for color-sensitive lighting, such as medical and museums.
Example applications	Standard portable lights	Inspection lights Outdoor adventure sports Bicycle lights Portable photography lighting

CCT & CRI OPTIONS

FL-1 Optimized	XLamp LED	Standard	Premium	New Options	
		>5000 K, 70 CRI	3000 K, 90 CRI	>5000 K, 90 CRI	3000 K, 70 CRI
Lumens	XT-E High Efficacy	●	X		●
	XP-G2 High Efficacy	●	●	●	●
	XP-L2	●	X	X	●
	XHP50.3 High Density	●			
	XHP70.3	●	●	●	●
Beam Distance	XP-G2 Standard	●	●	X	●
	XP-P	●			
	XP-L High Intensity	●			●
	XHP35.2 High Intensity	●	●	●	●
	XM-L3	●			Coming Soon
	XHP50.3 High Intensity	●	●	●	●

● = Currently available

X = Contact Cree LED Sales for options