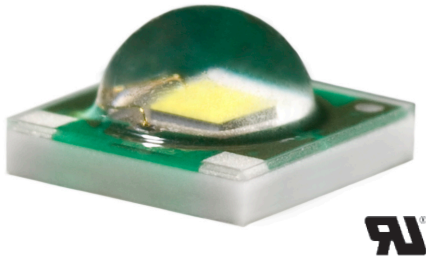


Cree® XLamp® XP-E LEDs



PRODUCT DESCRIPTION

The XLamp XP-E LED combines the proven lighting-class performance and reliability of the XLamp XR-E LED in a package with 80% smaller footprint. The XLamp XP-E LED continues Cree’s history of innovation in LEDs for lighting applications with wide viewing angle, symmetrical package, unlimited floor life and electrically neutral thermal path.

Cree XLamp LEDs bring high performance and quality of light to a wide range of lighting applications, including color-changing, portable and personal, outdoor, indoor-directional, transportation, stage and studio, commercial and emergency-vehicle lighting.

FEATURES

- Available in white, outdoor white, 80-CRI, 85-CRI and 90-CRI white, royal blue, blue, green, amber, red & red-orange
- Maximum drive current: up to 1 A
- Low thermal resistance: as low as 9°C/W
- Maximum junction temperature: 150°C
- Wide viewing angle: 115°–130°
- Unlimited floor life at $\leq 30^{\circ}\text{C}/85\% \text{RH}$
- Reflow solderable - JEDEC J-STD-020C compatible
- Electrically neutral thermal path
- RoHS- and REACH-compliant
- UL-recognized component (E326295)

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FLUX CHARACTERISTICS (T_j = 25°C) - WHITE

The following table provides several base order codes for XLamp XP-E 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 XP Family Binning and Labeling document.

Color	CCT Range		Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.	Max.	Group	Flux (lm)	
Cool White	5,000 K	10,000 K	Q4	100	XPEWHT-L1-0000-00C01
			Q5	107	XPEWHT-L1-0000-00D01
			R2	114	XPEWHT-L1-0000-00E01
			R3	122	XPEWHT-L1-0000-00F01
Outdoor White	4,000 K	5,300 K	Q3	93.9	XPEWHT-01-0000-00BC2
			Q4	100	XPEWHT-01-0000-00CC2
			Q5	107	XPEWHT-01-0000-00DC2
			R2	114	XPEWHT-01-0000-00EC2
Neutral White	3,700 K	5,000 K	Q3	93.9	XPEWHT-L1-0000-00BE4
			Q4	100	XPEWHT-L1-0000-00CE4
			Q5	107	XPEWHT-L1-0000-00DE4
80-CRI White	2,600 K	4,300 K	P4	80.6	XPEWHT-H1-0000-009E7
			Q2	87.4	XPEWHT-H1-0000-00AE7
			Q3	93.9	XPEWHT-H1-0000-00BE7
Warm White	2,600 K	3,700 K	P3	73.9	XPEWHT-L1-0000-008E7
			P4	80.6	XPEWHT-L1-0000-009E7
			Q2	87.4	XPEWHT-L1-0000-00AE7
			Q3	93.9	XPEWHT-L1-0000-00BE7
85-CRI White	2,600 K	3,200 K	P2	67.2	XPEWHT-P1-0000-007E7
			P3	73.9	XPEWHT-P1-0000-008E7
			P4	80.6	XPEWHT-P1-0000-009E7
90-CRI White	2,600 K	3,200 K	P2	67.2	XPEWHT-U1-0000-007E7
			P3	73.9	XPEWHT-U1-0000-008E7
			P4	80.6	XPEWHT-U1-0000-009E7

Notes:

- Cree maintains a tolerance of $\pm 7\%$ on flux and power measurements and ± 2 on CRI measurements.
- Typical CRI for Cool White & Neutral White (3,700 K – 10,000 K CCT) is 75.
- Typical CRI for Outdoor White (4,000 K - 5,300 K CCT) is 70.
- Typical CRI for Warm White (2,600 K – 3,700 K CCT) is 80.
- Minimum CRI for 80-CRI White is 80.
- Minimum CRI for 85-CRI White is 85.
- Minimum CRI for 90-CRI White is 90.

FLUX CHARACTERISTICS (T_J = 25°C) - COLOR

The following table provides several base order codes for XLamp XP-E 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 XP Family Binning and Labeling document.

Color	Dominant Wavelength Range				Base Order Codes Min Radiant Flux (mW) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (mW)	
	Group	DWL (nm)	Group	DWL (nm)			
Royal Blue	D3	450	D5	465	14	350	XPEROY-L1-0000-00901
					15	425	XPEROY-L1-0000-00A01

Color	Dominant Wavelength Range				Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Blue	B3	465	B6	485	J	23.5	XPEBLU-L1-0000-00W01
					K2	30.6	XPEBLU-L1-0000-00Y01

Color	Dominant Wavelength Range				Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Green	G2	520	G4	535	P3	73.9	XPEGRN-L1-0000-00801
					P4	80.6	XPEGRN-L1-0000-00901
					Q2	87.4	XPEGRN-L1-0000-00A01
					Q3	93.9	XPEGRN-L1-0000-00B01
					Q4	100	XPEGRN-L1-0000-00C01

Color	Dominant Wavelength Range				Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Amber	A2	585	A3	595	M3	45.7	XPEAMB-L1-0000-00301
					N2	51.7	XPEAMB-L1-0000-00401
					N3	56.8	XPEAMB-L1-0000-00501
					N4	62.0	XPEAMB-L1-0000-00601

Note: Cree maintains a tolerance of +/- 7% on flux and power measurements.

FLUX CHARACTERISTICS (T_j = 25°C) - COLOR (CONTINUED)

Color	Dominant Wavelength Range				Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Red-Orange	O3	610	O4	620	N3	56.8	XPERDO-L1-0000-00501
					N4	62.0	XPERDO-L1-0000-00601
					P2	67.2	XPERDO-L1-0000-00701
					P3	73.9	XPERDO-L1-0000-00801

Color	Dominant Wavelength Range				Base Order Codes Min Luminous Flux (lm) @ 350 mA		Order Code
	Min.		Max.		Group	Flux (lm)	
	Group	DWL (nm)	Group	DWL (nm)			
Red	R2	620	R3	630	M2	39.8	XPERED-L1-0000-00201
					M3	45.7	XPERED-L1-0000-00301
					N2	51.7	XPERED-L1-0000-00401
					N3	56.8	XPERED-L1-0000-00501

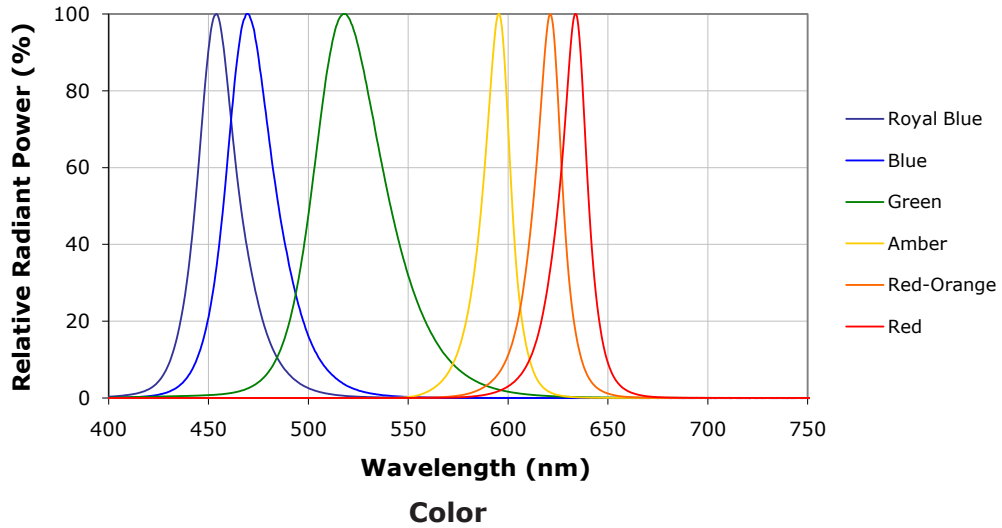
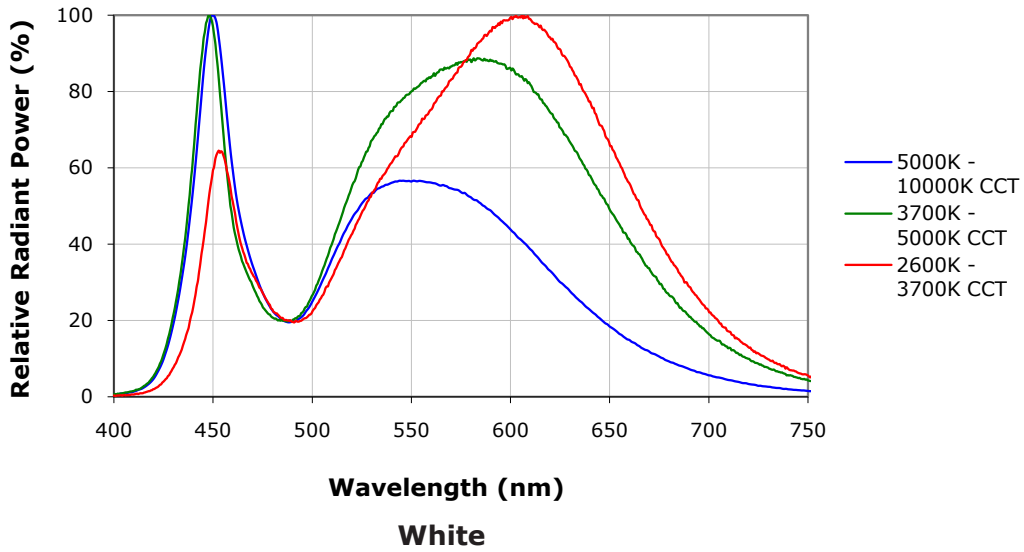
Note: Cree maintains a tolerance of +/- 7% on flux and power measurements.

CHARACTERISTICS

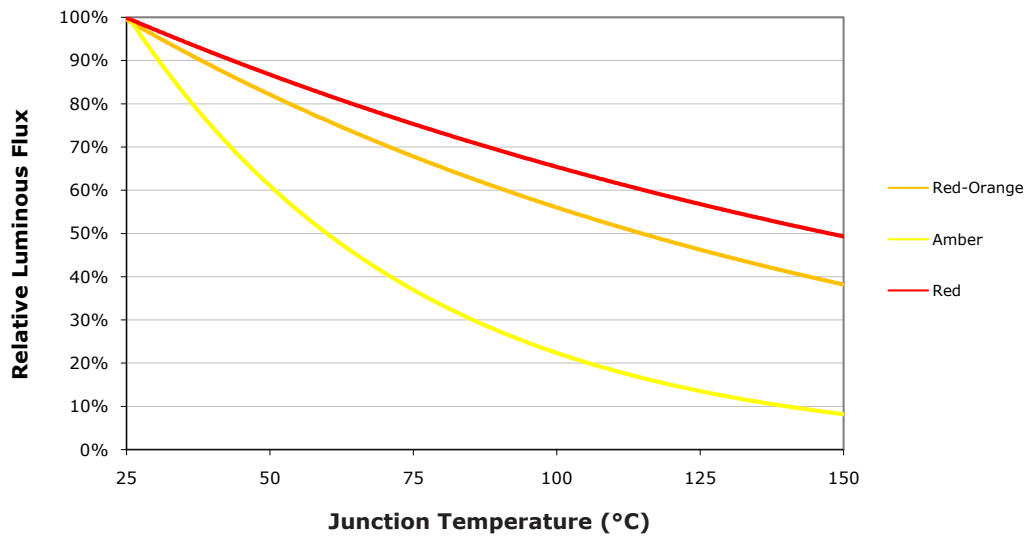
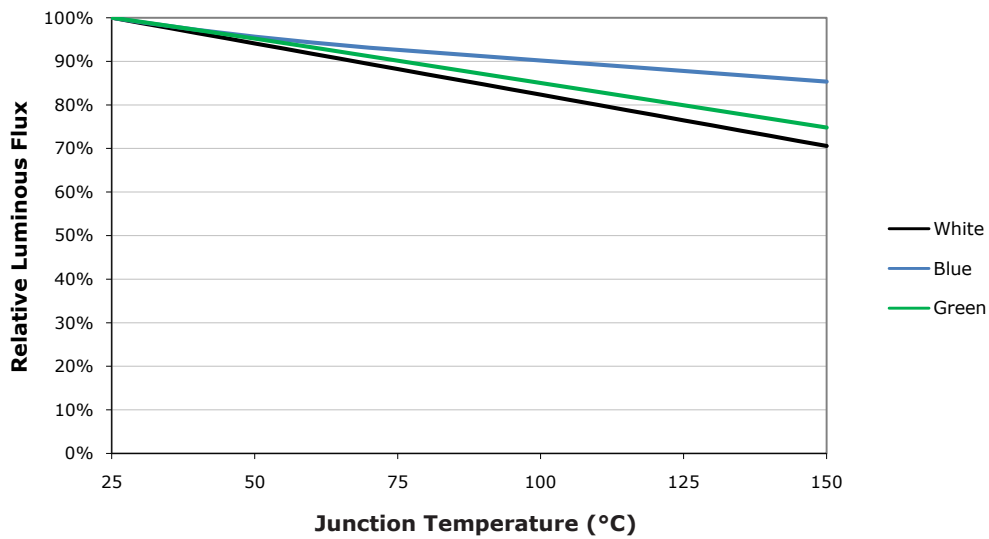
Characteristics	Unit	Minimum	Typical	Maximum
Thermal Resistance, junction to solder point - white, royal blue, blue	°C/W		9	
Thermal Resistance, junction to solder point - green	°C/W		15	
Thermal Resistance, junction to solder point - amber, red, red-orange	°C/W		10	
Viewing Angle (FWHM) - white	degrees		115	
Viewing Angle (FWHM) - royal blue, blue, green, red, red-orange, amber	degrees		130	
Temperature coefficient of voltage - white	mV/°C		-4.0	
Temperature coefficient of voltage - royal blue, blue	mV/°C		-3.3	
Temperature coefficient of voltage - green	mV/°C		-3.8	
Temperature coefficient of voltage - red-orange, red	mV/°C		-1.8	
Temperature coefficient of voltage - amber	mV/°C		-1.2	
ESD Classification (HBM per Mil-Std-883D)			Class 2	
DC Forward Current - white, royal blue, blue, green	mA			1000
DC Forward Current - red-orange, red	mA			700
DC Forward Current - amber	mA			500
Reverse Voltage	V			5
Forward Voltage (@ 350 mA) - royal blue, blue, white	V		3.2	3.9
Forward voltage (@ 350 mA) - green	V		3.4	3.9
Forward voltage (@ 350 mA) - red-orange, red, amber	V		2.1	2.5
Forward voltage (@ 500 mA) - amber	V		2.3	
Forward voltage (@ 700 mA) - white	V		3.4	
Forward voltage (@ 700 mA) - red-orange, red	V		2.3	
Forward Voltage (@ 1000 mA) - green	V		3.8	
Forward Voltage (@ 1000 mA) - white, royal blue, blue	V		3.5	
LED Junction Temperature	°C			150

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

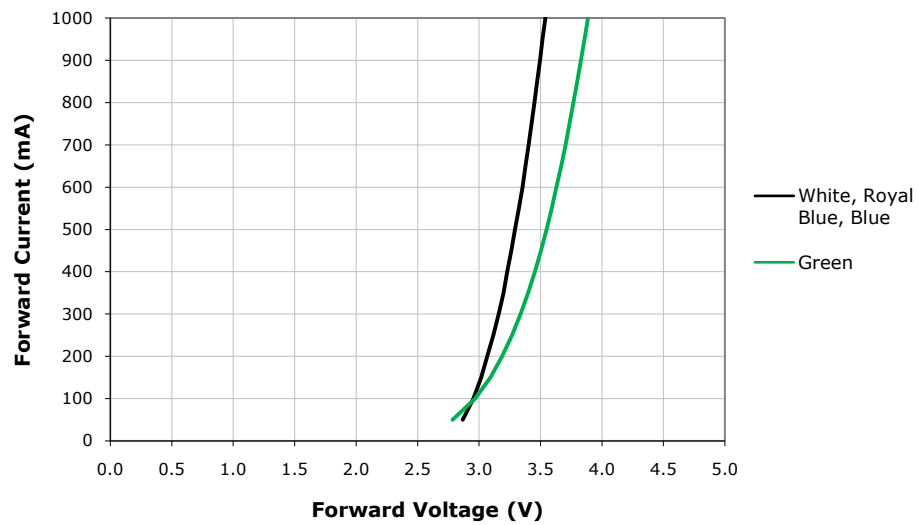
RELATIVE SPECTRAL POWER DISTRIBUTION



RELATIVE FLUX VS. JUNCTION TEMPERATURE ($I_F = 350 \text{ MA}$)

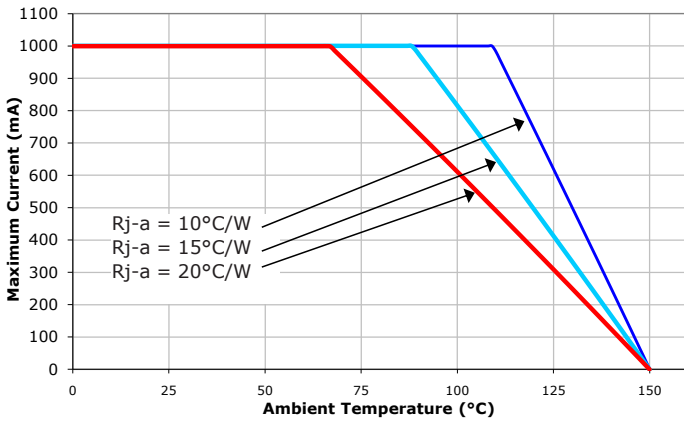


ELECTRICAL CHARACTERISTICS ($T_j = 25^\circ\text{C}$)

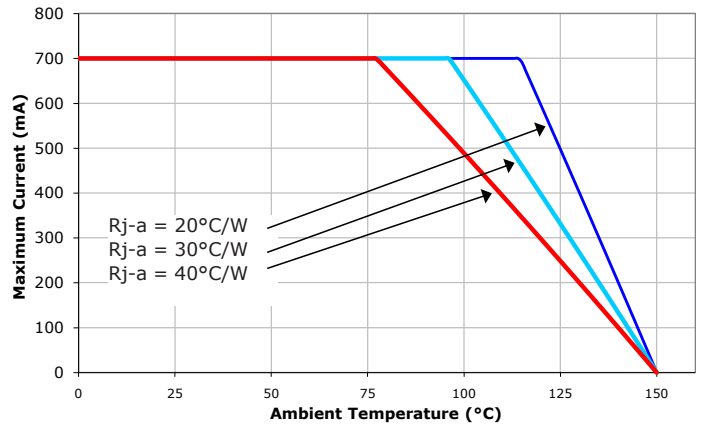


THERMAL DESIGN

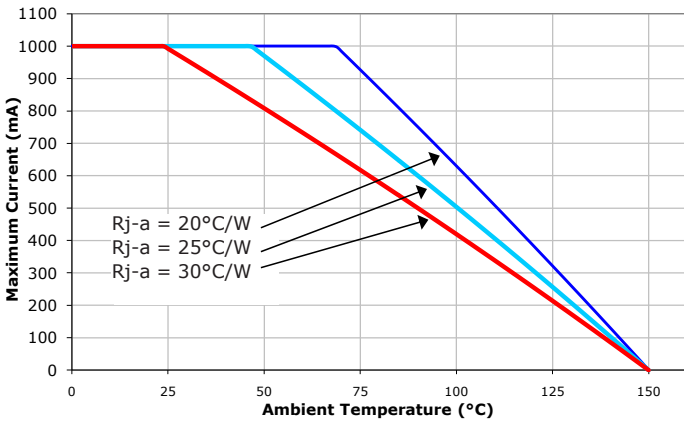
The maximum forward current is determined by the thermal resistance between the LED junction and ambient. It is crucial for the end product to be designed in a manner that minimizes the thermal resistance from the solder point to ambient in order to optimize lamp life and optical characteristics.



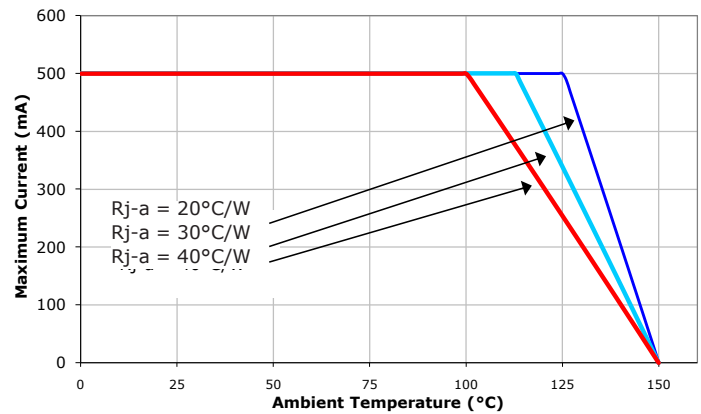
White, Blue and Royal Blue



Red, Red-Orange



Green

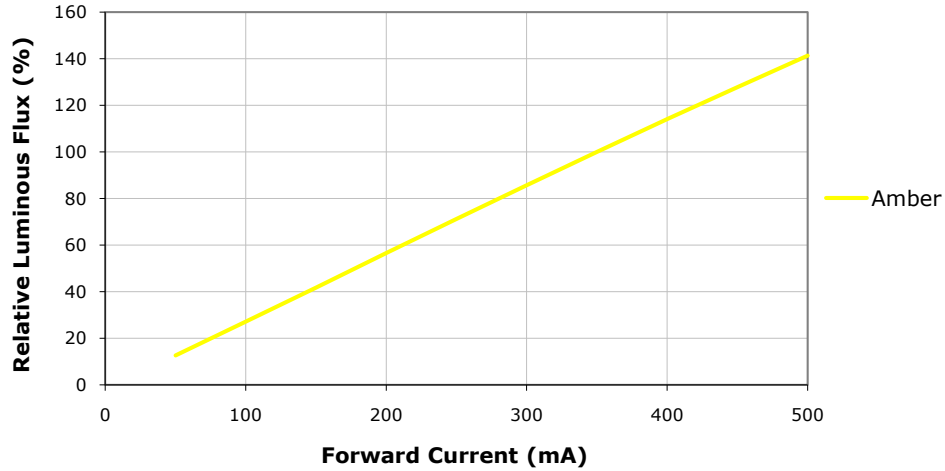


Amber

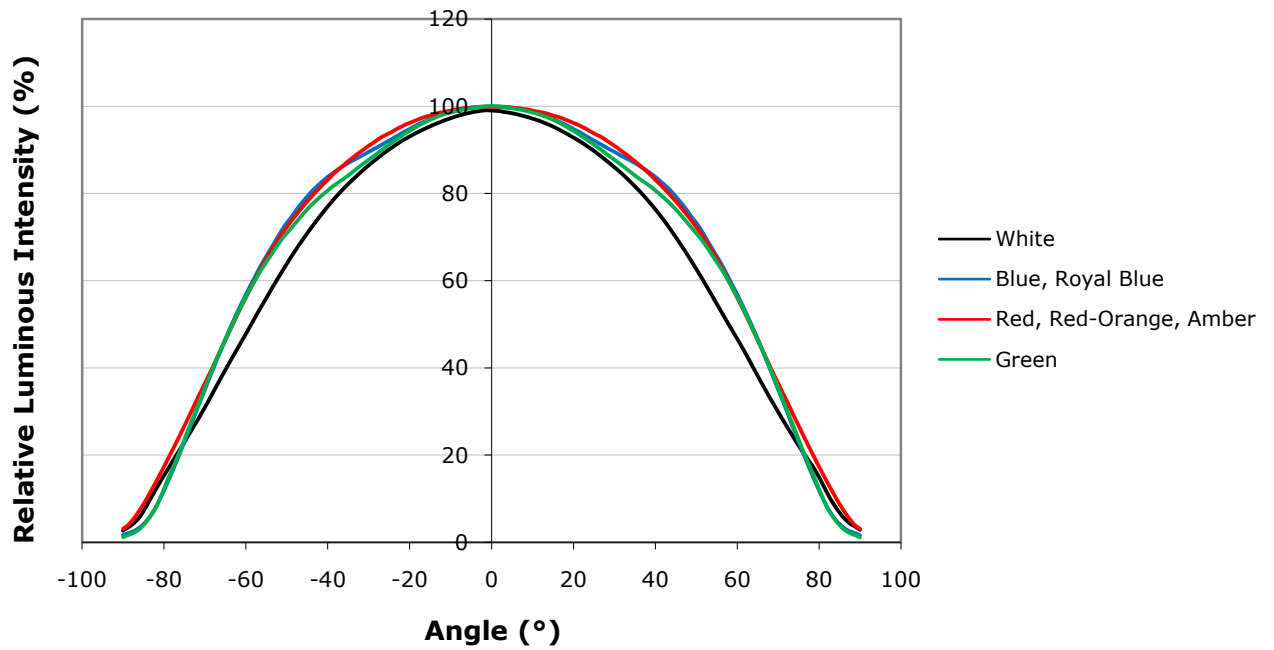
RELATIVE FLUX VS. CURRENT ($T_j = 25^\circ\text{C}$)



RELATIVE FLUX VS. CURRENT ($T_j = 25^\circ\text{C}$)



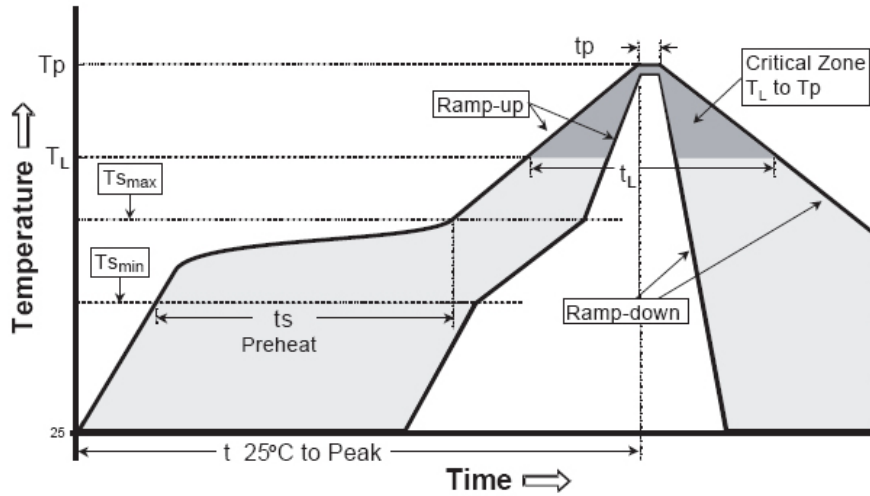
TYPICAL SPATIAL DISTRIBUTION



REFLOW SOLDERING CHARACTERISTICS

In testing, Cree has found XLamp XP-E LEDs to be compatible with JEDEC J-STD-020C, using the parameters listed below. As a general guideline, Cree recommends that users follow the recommended soldering profile provided by the manufacturer of solder paste used.

Note that this general guideline may not apply to all PCB designs and configurations of reflow soldering equipment.



IPC/JEDEC J-STD-020C

Profile Feature	Lead-Based Solder	Lead-Free Solder
Average Ramp-Up Rate (T_{smax} to T_p)	3°C/second max.	3°C/second max.
Preheat: Temperature Min (T_{smin})	100°C	150°C
Preheat: Temperature Max (T_{smax})	150°C	200°C
Preheat: Time (t_{smin} to t_{smax})	60-120 seconds	60-180 seconds
Time Maintained Above: Temperature (T_L)	183°C	217°C
Time Maintained Above: Time (t_L)	60-150 seconds	60-150 seconds
Peak/Classification Temperature (T_p)	215°C	260°C
Time Within 5°C of Actual Peak Temperature (t_p)	10-30 seconds	20-40 seconds
Ramp-Down Rate	6°C/second max.	6°C/second max.
Time 25°C to Peak Temperature	6 minutes max.	8 minutes max.

Note: All temperatures refer to topside of the package, measured on the package body surface.

NOTES

Lumen Maintenance Projections

Based on internal long-term reliability testing, Cree projects royal blue, blue, green and white XLamp XP-E LEDs to maintain an average of 70% lumen maintenance after 50,000 hours, provided the LED junction temperature is maintained at or below 135°C and the LED is operated with a constant current of up to 700 mA.

Cree currently recommends a maximum drive current of 700 mA for XLamp XP-E white in designs seeking the ENERGY STAR* 35,000 hour lifetime rating ($\geq 94.1\%$ luminous flux @ 6000 hours) or 25,000 hour lifetime rating ($\geq 91.8\%$ luminous flux @ 6000 hours).

Please read the XLamp Long-Term Lumen Maintenance application note for more details on Cree's lumen maintenance testing and forecasting. Please read the XLamp Thermal Management application note for details on how thermal design, ambient temperature, and drive current affect the LED junction temperature.

* These lifetime ratings are based on the current ENERGY STAR Solid State Lighting Luminaires V1.1 (December 12, 2008) and ENERGY STAR Integral LED Lamps V1.0 (December 3, 2009) lumen maintenance criteria.

Moisture Sensitivity

In testing, Cree has found XLamp XP-C & XP-E LEDs to have unlimited floor life in conditions $\leq 30^{\circ}\text{C}$ / 85% relative humidity (RH). Moisture testing included a 168 hour soak at 85°C / 85% RH followed by 3 reflow cycles, with visual and electrical inspections at each stage.

RoHS Compliance

The levels of environmentally sensitive, persistent biologically toxic (PBT), persistent organic pollutants (POP), or otherwise restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended through April 21, 2006.

Vision Advisory Claim

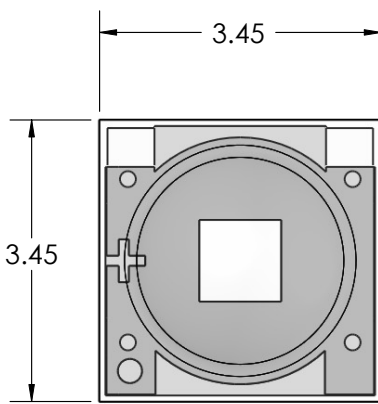
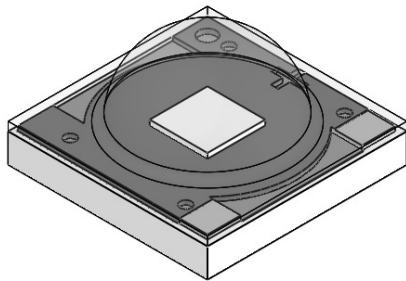
WARNING: Do not look at exposed lamp in operation. Eye injury can result. See LED Eye Safety at http://www.cree.com/products/pdf/XLamp_EyeSafety.pdf.

Intellectual Property

For remote phosphor applications, a separate license to certain Cree patents is required.

MECHANICAL DIMENSIONS (T_A = 25°C)

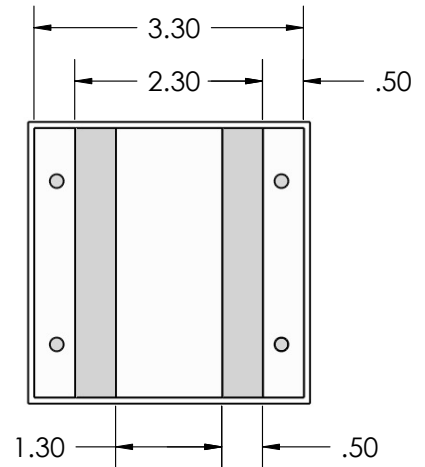
All measurements are ±.13 mm unless otherwise indicated.



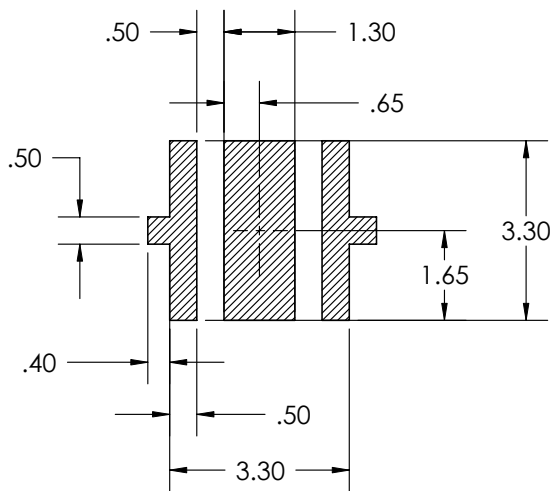
Top View



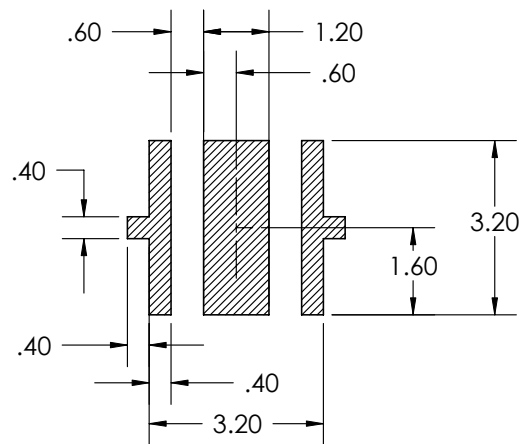
Side View



Bottom View



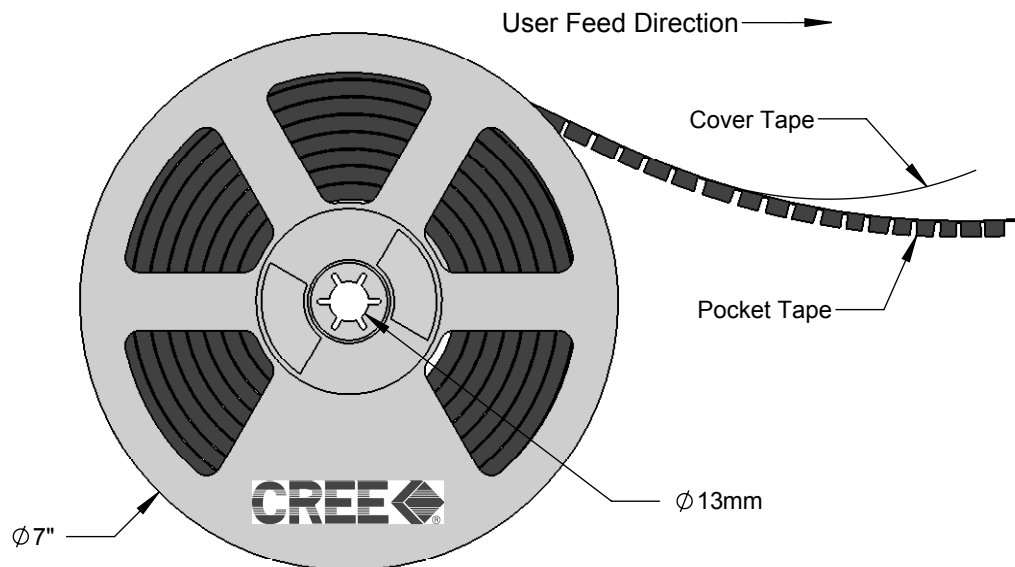
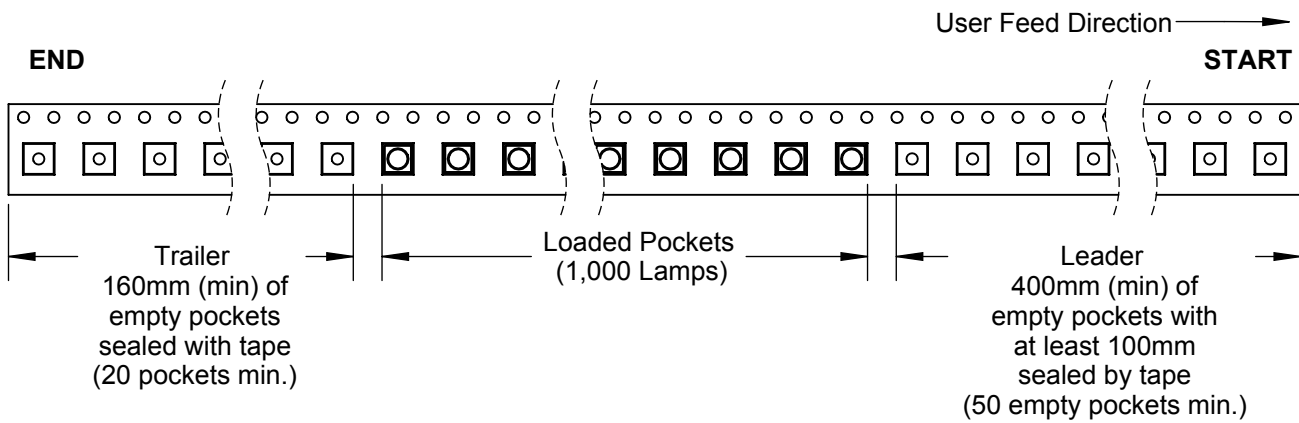
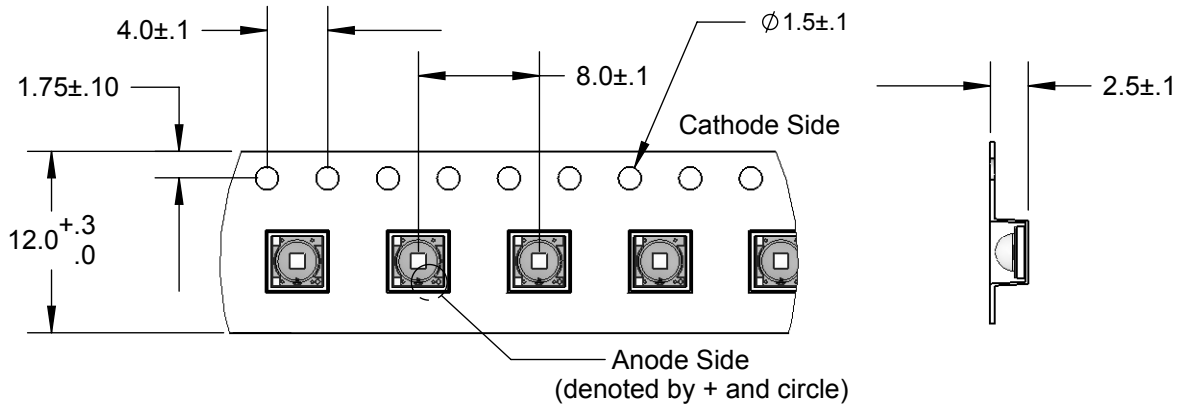
RECOMMENDED PCB SOLDER PAD



**RECOMMENDED STENCIL PATTERN
(HATCHED AREA IS OPENING)**

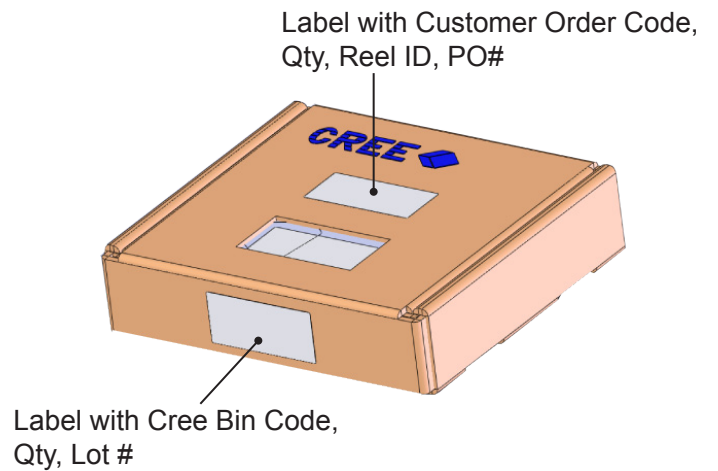
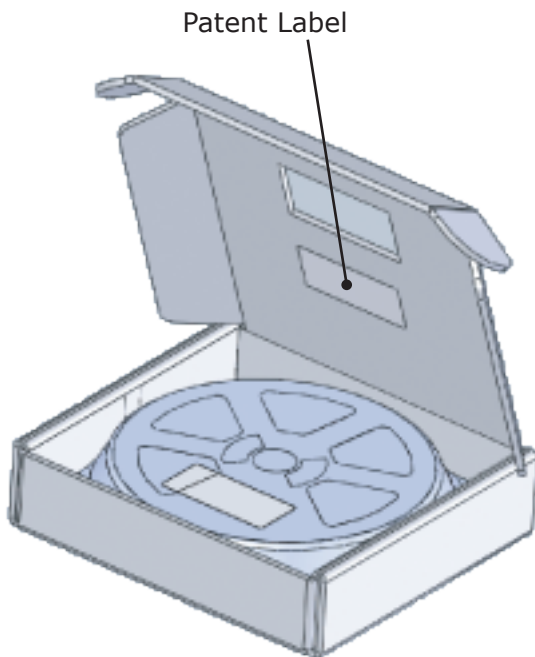
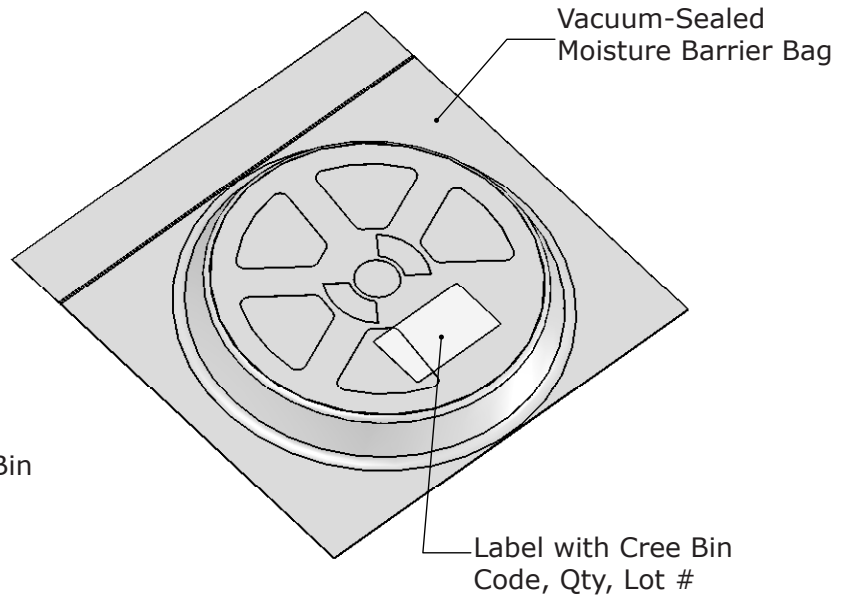
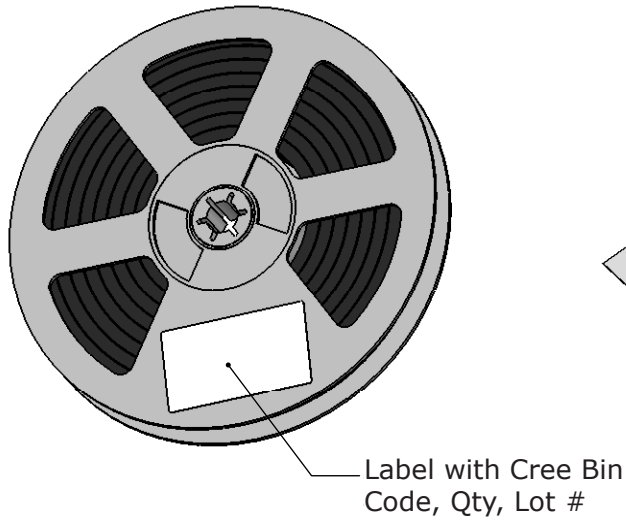
TAPE AND REEL

All dimensions in mm.



PACKAGING

All dimensions in mm.



Cree® XLamp® XP Family LEDs

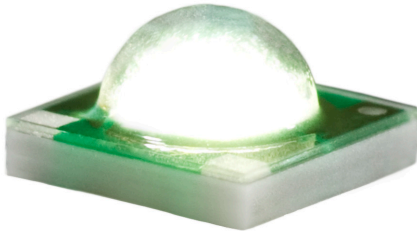


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INTRODUCTION

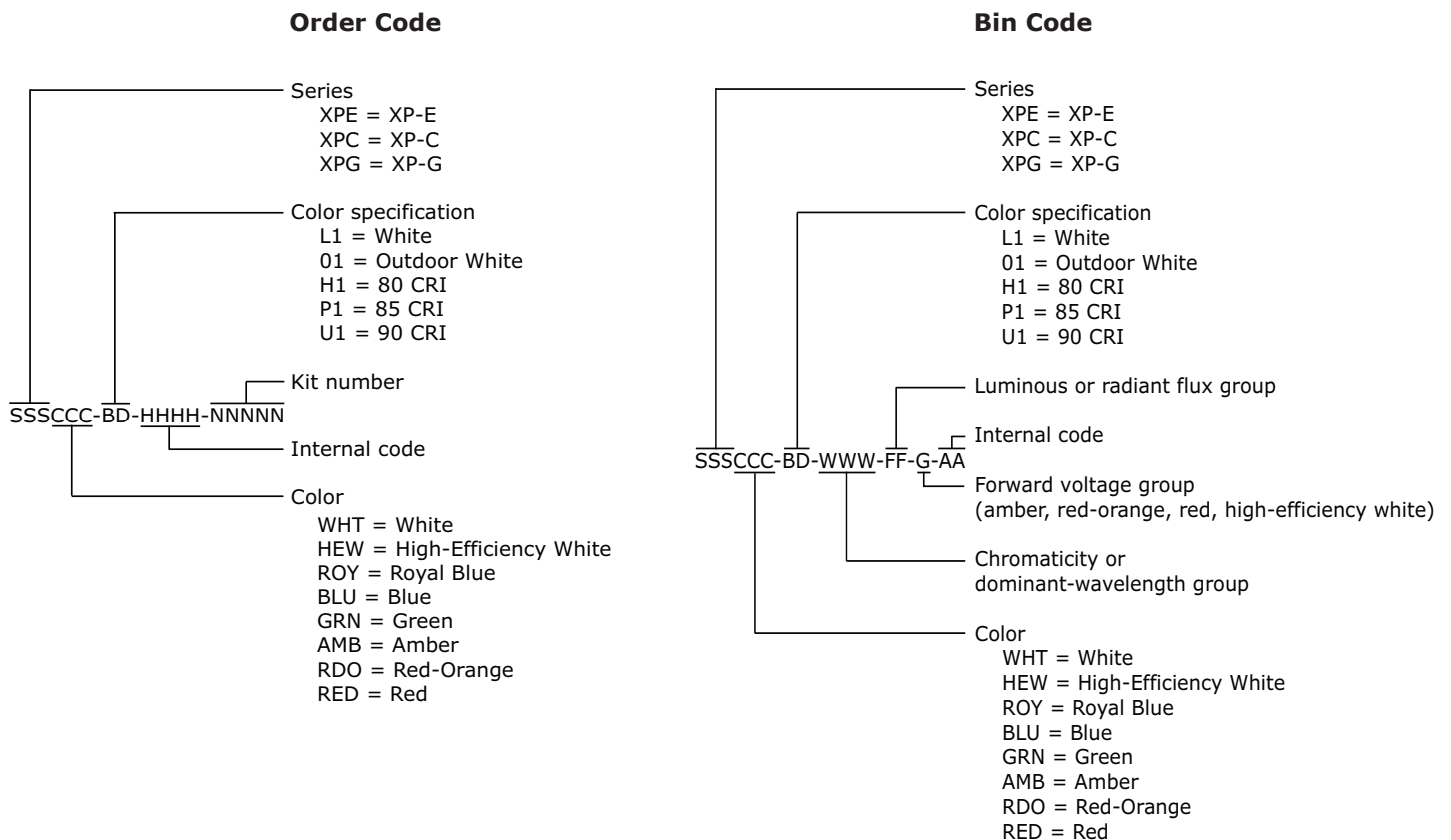
This document describes the product nomenclature required to select and order Cree’s XLamp XP Family LEDs. XLamp XP Family LEDs are tested and sorted into bins which are then combined into orderable kits identified by an order code.

All XLamp LEDs are tested and sorted by color and brightness into a unique bin. Each bin contains LEDs from only one color and brightness group and is uniquely identified by a bin code. White XLamp LEDs are sorted by chromaticity (color) and luminous flux (brightness). Color XLamp LEDs are sorted by dominant wavelength (color) and luminous or radiant flux (brightness). Amber, red-orange and red LEDs are additionally binned into forward voltage bins. LEDs are shipped on reels containing LEDs from one bin and are always labeled with the appropriate bin code.

Kits contain LEDs from a number of similar bins and are fully defined by their order codes. A full explanation of the order codes for XLamp XP Family LEDs, as well as a list of standard order codes, is provided in this document.

BIN AND ORDER-CODE FORMAT

Bin codes and order codes are configured in the following manner:



PERFORMANCE GROUPS – BRIGHTNESS

XLamp XP Family LEDs (except Royal Blue) are tested for luminous flux and placed into one of the following luminous-flux groups:

Group Code	Min. Luminous Flux @ 350 mA (lm)	Max. Luminous Flux @ 350 mA (lm)
J	23.5	30.6
K2	30.6	35.2
K3	35.2	39.8
M2	39.8	45.7
M3	45.7	51.7
N2	51.7	56.8
N3	56.8	62.0
N4	62.0	67.2
P2	67.2	73.9
P3	73.9	80.6
P4	80.6	87.4
Q2	87.4	93.9
Q3	93.9	100
Q4	100	107
Q5	107	114
R2	114	122
R3	122	130
R4	130	139
R5	139	148
S2	148	156
S3	156	164

Royal-blue XLamp LEDs are tested for radiant flux and sorted into one of the following radiant-flux bins:

Group	Min. Radiant Flux (mW) @ 350 mA	Max. Radiant Flux (mW) @ 350 mA
12	250	300
13	300	350
14	350	425
15	425	500
16	500	600

PERFORMANCE GROUPS – CHROMATICITY

White XLamp LEDs are tested for chromaticity and placed into one of the regions defined by the bounding coordinates on the following pages.

Region	x	y	Region	x	y
WK	.283	.284	WF	.314	.355
	.295	.297		.316	.332
	.298	.288		.306	.322
	.287	.276		.301	.342
WA	.292	.306	WP	.317	.319
	.295	.297		.329	.330
	.283	.284		.329	.318
	.279	.291		.318	.308
WM	.295	.297	WD	.329	.345
	.308	.311		.329	.330
	.310	.300		.317	.319
	.298	.288		.316	.332
WB	.306	.322	WG	.329	.369
	.308	.311		.329	.345
	.295	.297		.316	.332
	.292	.306		.314	.355
WE	.301	.342	WJ	.329	.330
	.306	.322		.329	.345
	.292	.306		.346	.359
	.287	.321		.344	.342
WN	.308	.311	WH	.348	.384
	.317	.319		.346	.359
	.318	.308		.329	.345
	.310	.300		.329	.369
WC	.316	.332			
	.317	.319			
	.308	.311			
	.306	.322			

PERFORMANCE GROUPS – CHROMATICITY (CONTINUED)

Region	x	y	Region	x	y	Region	x	y	Region	x	y
0A	0.2950	0.2970	0B	0.2920	0.3060	0C	0.2984	0.3133	0D	0.2984	0.3133
	0.2920	0.3060		0.2895	0.3135		0.2962	0.3220		0.3048	0.3207
	0.2984	0.3133		0.2962	0.3220		0.3028	0.3304		0.3068	0.3113
	0.3009	0.3042		0.2984	0.3133		0.3048	0.3207		0.3009	0.3042
0R	0.2980	0.2880	0S	0.2895	0.3135	0T	0.2962	0.3220	0U	0.3037	0.2937
	0.2950	0.2970		0.2870	0.3210		0.2937	0.3312		0.3009	0.3042
	0.3009	0.3042		0.2937	0.3312		0.3005	0.3415		0.3068	0.3113
	0.3037	0.2937		0.2962	0.3220		0.3028	0.3304		0.3093	0.2993
1A	0.3048	0.3207	1B	0.3028	0.3304	1C	0.3115	0.3391	1D	0.3130	0.3290
	0.3130	0.3290		0.3115	0.3391		0.3205	0.3481		0.3213	0.3373
	0.3144	0.3186		0.3130	0.3290		0.3213	0.3373		0.3221	0.3261
	0.3068	0.3113		0.3048	0.3207		0.3130	0.3290		0.3144	0.3186
1R	0.3068	0.3113	1S	0.3005	0.3415	1T	0.3099	0.3509	1U	0.3144	0.3186
	0.3144	0.3186		0.3099	0.3509		0.3196	0.3602		0.3221	0.3261
	0.3161	0.3059		0.3115	0.3391		0.3205	0.3481		0.3231	0.3120
	0.3093	0.2993		0.3028	0.3304		0.3115	0.3391		0.3161	0.3059
2A	0.3215	0.3350	2B	0.3207	0.3462	2C	0.3290	0.3538	2D	0.3290	0.3417
	0.3290	0.3417		0.3290	0.3538		0.3376	0.3616		0.3371	0.3490
	0.3290	0.3300		0.3290	0.3417		0.3371	0.3490		0.3366	0.3369
	0.3222	0.3243		0.3215	0.3350		0.3290	0.3417		0.3290	0.3300
2R	0.3222	0.3243	2S	0.3196	0.3602	2T	0.3290	0.3690	2U	0.3290	0.3300
	0.3290	0.3300		0.3290	0.3690		0.3381	0.3762		0.3366	0.3369
	0.3290	0.3180		0.3290	0.3538		0.3376	0.3616		0.3361	0.3245
	0.3231	0.3120		0.3207	0.3462		0.3290	0.3538		0.3290	0.3180
3A	0.3371	0.3490	3B	0.3376	0.3616	3C	0.3463	0.3687	3D	0.3451	0.3554
	0.3451	0.3554		0.3463	0.3687		0.3551	0.3760		0.3533	0.3620
	0.3440	0.3427		0.3451	0.3554		0.3533	0.3620		0.3515	0.3487
	0.3366	0.3369		0.3371	0.3490		0.3451	0.3554		0.3440	0.3427
3R	0.3366	0.3369	3S	0.3381	0.3762	3T	0.3480	0.3840	3U	0.3440	0.3428
	0.3440	0.3428		0.3480	0.3840		0.3571	0.3907		0.3515	0.3487
	0.3429	0.3307		0.3463	0.3687		0.3551	0.3760		0.3495	0.3339
	0.3361	0.3245		0.3376	0.3616		0.3463	0.3687		0.3429	0.3307
4A	0.3530	0.3597	4B	0.3548	0.3736	4C	0.3641	0.3804	4D	0.3615	0.3659
	0.3615	0.3659		0.3641	0.3804		0.3736	0.3874		0.3702	0.3722
	0.3590	0.3521		0.3615	0.3659		0.3702	0.3722		0.3670	0.3578
	0.3512	0.3465		0.3530	0.3597		0.3615	0.3659		0.3590	0.3521
4R	0.3512	0.3465	4S	0.3571	0.3907	4T	0.3668	0.3957	4U	0.3590	0.3521
	0.3590	0.3521		0.3668	0.3957		0.3771	0.4034		0.3670	0.3578
	0.3567	0.3389		0.3641	0.3804		0.3736	0.3874		0.3640	0.3440
	0.3495	0.3339		0.3548	0.3736		0.3641	0.3804		0.3567	0.3389

PERFORMANCE GROUPS – CHROMATICITY (CONTINUED)

Region	x	y	Region	x	y	Region	x	y	Region	x	y
5A1	0.3670	0.3578	5A2	0.3686	0.3649	5A3	0.3744	0.3685	5A4	0.3726	0.3612
	0.3686	0.3649		0.3702	0.3722		0.3763	0.3760		0.3744	0.3685
	0.3744	0.3685		0.3763	0.3760		0.3825	0.3798		0.3804	0.3721
	0.3726	0.3612		0.3744	0.3685		0.3804	0.3721		0.3783	0.3646
5B1	0.3702	0.3722	5B2	0.3719	0.3797	5B3	0.3782	0.3837	5B4	0.3763	0.3760
	0.3719	0.3797		0.3736	0.3874		0.3802	0.3916		0.3782	0.3837
	0.3782	0.3837		0.3802	0.3916		0.3869	0.3958		0.3847	0.3877
	0.3763	0.3760		0.3782	0.3837		0.3847	0.3877		0.3825	0.3798
5C1	0.3825	0.3798	5C2	0.3847	0.3877	5C3	0.3912	0.3917	5C4	0.3887	0.3836
	0.3847	0.3877		0.3869	0.3958		0.3937	0.4001		0.3912	0.3917
	0.3912	0.3917		0.3937	0.4001		0.4006	0.4044		0.3978	0.3958
	0.3887	0.3836		0.3912	0.3917		0.3978	0.3958		0.3950	0.3875
5D1	0.3783	0.3646	5D2	0.3804	0.3721	5D3	0.3863	0.3758	5D4	0.3840	0.3681
	0.3804	0.3721		0.3825	0.3798		0.3887	0.3836		0.3863	0.3758
	0.3863	0.3758		0.3887	0.3836		0.3950	0.3875		0.3924	0.3794
	0.3840	0.3681		0.3863	0.3758		0.3924	0.3794		0.3898	0.3716
5R	0.3670	0.3578	5S	0.3771	0.4034	-	-	-	-	-	-
	0.3783	0.3646		0.3916	0.4127		-	-		-	-
	0.3743	0.3502		0.3869	0.3958		-	-		-	-
	0.3640	0.3440		0.3736	0.3874		-	-		-	-
6A1	0.3889	0.3690	6A2	0.3915	0.3768	6A3	0.3981	0.3800	6A4	0.3953	0.3720
	0.3915	0.3768		0.3941	0.3848		0.4010	0.3882		0.3981	0.3800
	0.3981	0.3800		0.4010	0.3882		0.4080	0.3916		0.4048	0.3832
	0.3953	0.3720		0.3981	0.3800		0.4048	0.3832		0.4017	0.3751
6B1	0.3941	0.3848	6B2	0.3968	0.3930	6B3	0.4040	0.3966	6B4	0.4010	0.3882
	0.3968	0.3930		0.3996	0.4015		0.4071	0.4052		0.4040	0.3966
	0.4040	0.3966		0.4071	0.4052		0.4146	0.4089		0.4113	0.4001
	0.4010	0.3882		0.4040	0.3966		0.4113	0.4001		0.4080	0.3916
6C1	0.4080	0.3916	6C2	0.4113	0.4001	6C3	0.4186	0.4037	6C4	0.4150	0.3950
	0.4113	0.4001		0.4146	0.4089		0.4222	0.4127		0.4186	0.4037
	0.4186	0.4037		0.4222	0.4127		0.4299	0.4165		0.4259	0.4073
	0.4150	0.3950		0.4186	0.4037		0.4259	0.4073		0.4221	0.3984
6D1	0.4017	0.3751	6D2	0.4048	0.3832	6D3	0.4116	0.3865	6D4	0.4082	0.3782
	0.4048	0.3832		0.4080	0.3916		0.4150	0.3950		0.4116	0.3865
	0.4116	0.3865		0.4150	0.3950		0.4221	0.3984		0.4183	0.3898
	0.4082	0.3782		0.4116	0.3865		0.4183	0.3898		0.4147	0.3814

PERFORMANCE GROUPS – CHROMATICITY (CONTINUED)

Region	x	y	Region	x	y	Region	x	y	Region	x	y
7A1	0.4147	0.3814	7A2	0.4183	0.3898	7A3	0.4242	0.3919	7A4	0.4203	0.3833
	0.4183	0.3898		0.4221	0.3984		0.4281	0.4006		0.4242	0.3919
	0.4242	0.3919		0.4281	0.4006		0.4342	0.4028		0.4300	0.3939
	0.4203	0.3833		0.4242	0.3919		0.4300	0.3939		0.4259	0.3853
7B1	0.4221	0.3984	7B2	0.4259	0.4073	7B3	0.4322	0.4096	7B4	0.4281	0.4006
	0.4259	0.4073		0.4299	0.4165		0.4364	0.4188		0.4322	0.4096
	0.4322	0.4096		0.4364	0.4188		0.4430	0.4212		0.4385	0.4119
	0.4281	0.4006		0.4322	0.4096		0.4385	0.4119		0.4342	0.4028
7C1	0.4342	0.4028	7C2	0.4385	0.4119	7C3	0.4449	0.4141	7C4	0.4403	0.4049
	0.4385	0.4119		0.4430	0.4212		0.4496	0.4236		0.4449	0.4141
	0.4449	0.4141		0.4496	0.4236		0.4562	0.4260		0.4513	0.4164
	0.4403	0.4049		0.4449	0.4141		0.4513	0.4164		0.4465	0.4071
7D1	0.4259	0.3853	7D2	0.4300	0.3939	7D3	0.4359	0.3960	7D4	0.4316	0.3873
	0.4300	0.3939		0.4342	0.4028		0.4403	0.4049		0.4359	0.3960
	0.4359	0.3960		0.4403	0.4049		0.4465	0.4071		0.4418	0.3981
	0.4316	0.3873		0.4359	0.3960		0.4418	0.3981		0.4373	0.3893
8A1	0.4373	0.3893	8A2	0.4418	0.3981	8A3	0.4475	0.3994	8A4	0.4428	0.3906
	0.4418	0.3981		0.4465	0.4071		0.4523	0.4085		0.4475	0.3994
	0.4475	0.3994		0.4523	0.4085		0.4582	0.4099		0.4532	0.4008
	0.4428	0.3906		0.4475	0.3994		0.4532	0.4008		0.4483	0.3919
8B1	0.4465	0.4071	8B2	0.4513	0.4164	8B3	0.4573	0.4178	8B4	0.4523	0.4085
	0.4513	0.4164		0.4562	0.4260		0.4624	0.4274		0.4573	0.4178
	0.4573	0.4178		0.4624	0.4274		0.4687	0.4289		0.4634	0.4193
	0.4523	0.4085		0.4573	0.4178		0.4634	0.4193		0.4582	0.4099
8C1	0.4582	0.4099	8C2	0.4634	0.4193	8C3	0.4695	0.4207	8C4	0.4641	0.4112
	0.4634	0.4193		0.4687	0.4289		0.4750	0.4304		0.4695	0.4207
	0.4695	0.4207		0.4750	0.4304		0.4813	0.4319		0.4756	0.4221
	0.4641	0.4112		0.4695	0.4207		0.4756	0.4221		0.4700	0.4126
8D1	0.4483	0.3919	8D2	0.4532	0.4008	8D3	0.4589	0.4021	8D4	0.4538	0.3931
	0.4532	0.4008		0.4582	0.4099		0.4641	0.4112		0.4589	0.4021
	0.4589	0.4021		0.4641	0.4112		0.4700	0.4126		0.4646	0.4034
	0.4538	0.3931		0.4589	0.4021		0.4646	0.4034		0.4593	0.3944

PERFORMANCE GROUPS – DOMINANT WAVELENGTH

Color XLamp LEDs are tested for dominant wavelength (DWL) and sorted into one of the DWL bins defined below.

Color	DWL Group	Min. DWL (nm) @ 350 mA	Max. DWL (nm) @ 350 mA
Royal Blue	D3	450	455
	D4	455	460
	D5	460	465
Blue	B3	465	470
	B4	470	475
	B5	475	480
	B6	480	485
Green	G2	520	525
	G3	525	530
	G4	530	535
Amber	A2	585	590
	A3	590	595
Red-Orange	O3	610	615
	O4	615	620
Red	R2	620	625
	R3	625	630

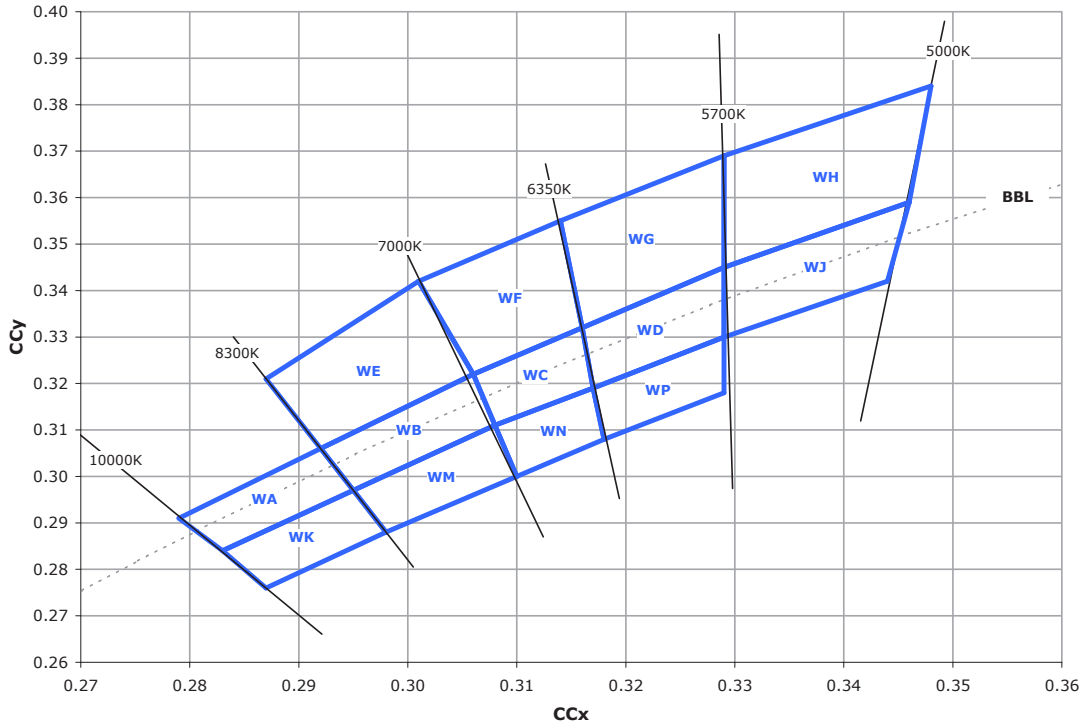
PERFORMANCE GROUPS – FORWARD VOLTAGE

Amber, red-orange and red XLamp LEDs are tested for forward voltage and sorted into one of the forward voltage bins defined below.

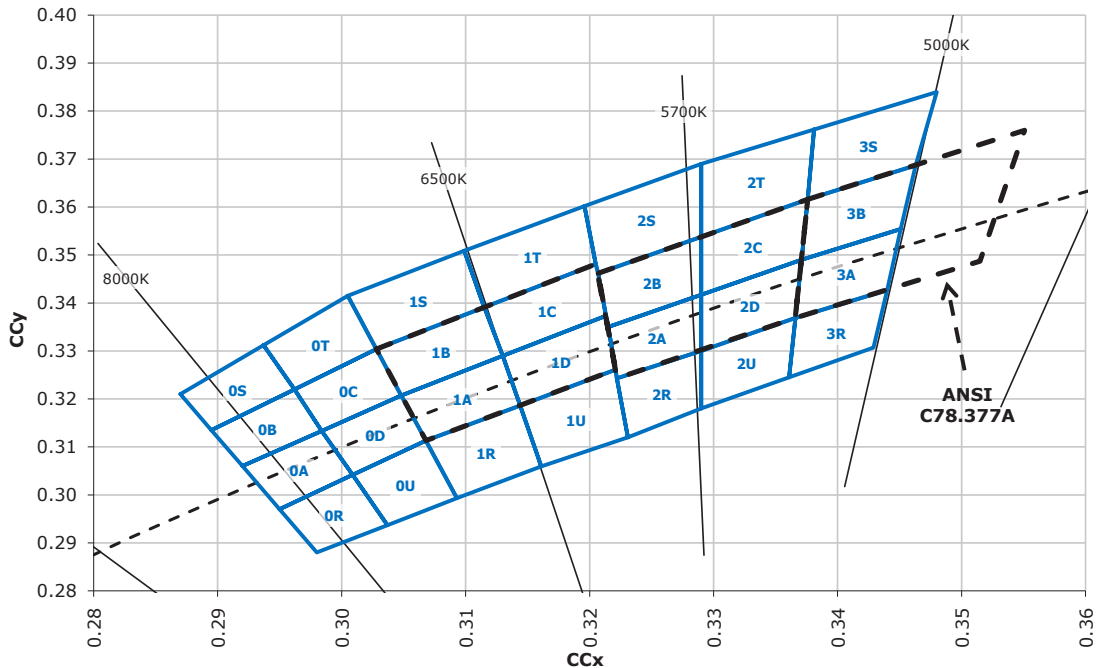
Forward Voltage Group	Min. Forward Voltage @ 350 mA	Max. Forward Voltage @ 350 mA
B	1.75	2.0
C	2.0	2.25
D	2.25	2.5
E	2.5	2.75
F	2.75	3.0
G	3.0	3.25
H	3.25	3.5
J	3.5	3.75

CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE

Cool White

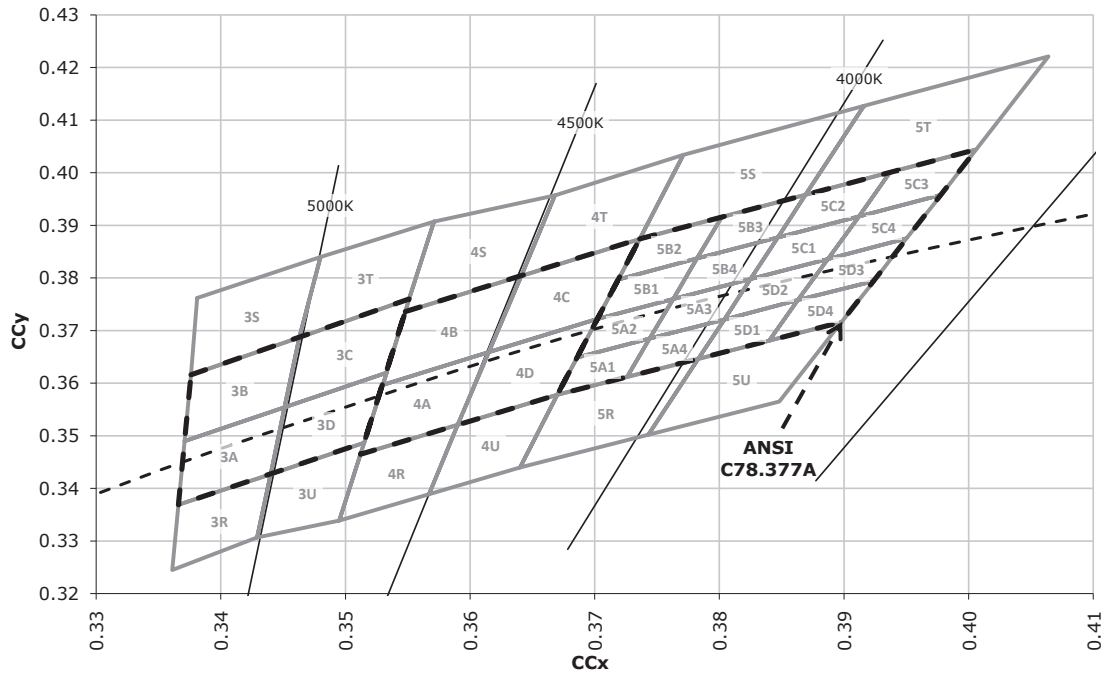


ANSI Cool White



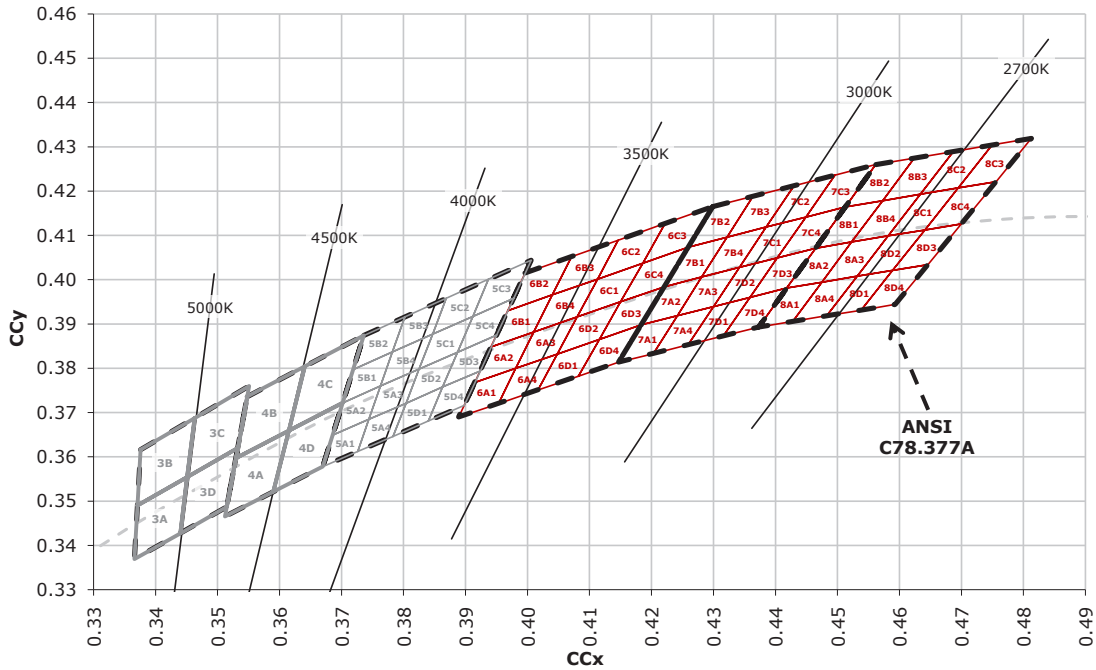
CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE (CONTINUED)

Outdoor White



CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE (CONTINUED)

ANSI Neutral White and ANSI warm white



Note: Effective July 31, 2009, Cree began sorting XLamp XP Family White LEDs with the new chromaticity structure for the CCT range 2700 K to 4300 K, as shown above, in order to provide more-detailed chromaticity information. There are no changes to XLamp XP Family White order codes. Customers with order codes containing any of the chromaticity bins 5A, 5B, 5C, 5D, 6A, 6B, 6C, 6D, 7A, 7B, 7C, 7D, 8A, 8B, 8C, 8D will automatically begin receiving the new chromaticity bins.

Please note that there is no change to existing inventory at Cree or at Cree's distributors, so customers may not see the new chromaticity bins for a period of time.

The following tables of order codes list flux minimums and chromaticity regions for the various categories of XLamp XP LEDs. For other flux and chromaticity combinations, contact Cree or an authorized distributor.

STANDARD ORDER CODES AND BINS (XP-C COOL WHITE)

XLamp XP-C LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code
Group	Flux (lm)		
Cool White (5000 K - 10,000 K)			
P4	80.6	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPCWHT-L1-0000-00901
		WC, WD, WF, WG	XPCWHT-L1-0000-00902
		WC, WD, WF, WG, WH, WJ, WN, WP	XPCWHT-L1-0000-00903
Q2	87.4	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPCWHT-L1-0000-00A01
		WC, WD, WF, WG	XPCWHT-L1-0000-00A02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPCWHT-L1-0000-00A03
Q3	93.9	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPCWHT-L1-0000-00B01
		WC, WD, WF, WG	XPCWHT-L1-0000-00B02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPCWHT-L1-0000-00B03
Q4	100	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPCWHT-L1-0000-00C01
		WC, WD, WF, WG	XPCWHT-L1-0000-00C02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPCWHT-L1-0000-00C03

STANDARD ORDER CODES AND BINS (XP-C ANSI COOL WHITE)

XLamp XP-C LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code
Group	Flux (lm)		
ANSI Cool White (5000 K - 8300 K)			
P4	80.6	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPCWHT-L1-0000-00951
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPCWHT-L1-0000-00953
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPCWHT-L1-0000-00950
Q2	87.4	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPCWHT-L1-0000-00A51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPCWHT-L1-0000-00A53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPCWHT-L1-0000-00A50
Q3	93.9	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPCWHT-L1-0000-00B51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPCWHT-L1-0000-00B53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPCWHT-L1-0000-00B50
Q4	100	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPCWHT-L1-0000-00C51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPCWHT-L1-0000-00C53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPCWHT-L1-0000-00C50

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-C NEUTRAL WHITE)

XLamp XP-C LED Standard Order Codes - White				
Min Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Neutral White (3700 K - 5000 K)				
P2	67.2	4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPCWHT-L1-0000-007F5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPCWHT-L1-0000-007E5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPCWHT-L1-0000-007F6	3700 K
P3	73.9	3A, 3B, 3C, 3D	XPCWHT-L1-0000-008E3	5000 K
		3C, 3D, 4A, 4B	XPCWHT-L1-0000-008F4	4750 K
		4A, 4B, 4C, 4D	XPCWHT-L1-0000-008E4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPCWHT-L1-0000-008F5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4,	XPCWHT-L1-0000-008E5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPCWHT-L1-0000-008F6	3700 K
P4	80.6	3A, 3B, 3C, 3D	XPCWHT-L1-0000-009E3	5000 K
		3C, 3D, 4A, 4B	XPCWHT-L1-0000-009F4	4750 K
		4A, 4B, 4C, 4D	XPCWHT-L1-0000-009E4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPCWHT-L1-0000-009F5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPCWHT-L1-0000-009E5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPCWHT-L1-0000-009F6	3700 K
Q2	87.4	3A, 3B, 3C, 3D	XPCWHT-L1-0000-00AE3	5000 K
		3C, 3D, 4A, 4B	XPCWHT-L1-0000-00AF4	4750 K
		4A, 4B, 4C, 4D	XPCWHT-L1-0000-00AE4	4500 K

STANDARD ORDER CODES AND BINS (XP-C WARM WHITE)

XLamp XP-C LED Standard Order Codes - White				
Min Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Warm White (2600 K – 3700 K)				
N3	56.8	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPCWHT-L1-0000-005F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPCWHT-L1-0000-005E8	2700 K
N4	62.0	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPCWHT-L1-0000-006F7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPCWHT-L1-0000-006E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPCWHT-L1-0000-006F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPCWHT-L1-0000-006E8	2700 K
P2	67.2	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPCWHT-L1-0000-007E6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPCWHT-L1-0000-007F7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPCWHT-L1-0000-007E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPCWHT-L1-0000-007F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPCWHT-L1-0000-007E8	2700 K
P3	73.9	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPCWHT-L1-0000-008E6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPCWHT-L1-0000-008F7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPCWHT-L1-0000-008E7	3000 K
P4	80.6	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPCWHT-L1-0000-009E6	3500 K

STANDARD ORDER CODES AND BINS (XP-C COLOR)

XLamp XP-C LED Standard Order Codes - Royal Blue								
Color	Min. Radiant Flux (mW) @ 350 mA*		Calculated Min. Radiant Flux (mW) @ 125 mA*	Dominant Wavelength (nm)				Order Code
	Group	Flux (mW)		Min.		Max.		
			Group	DWL (nm)	Group	DWL (nm)		
Royal Blue	12	250	104	D3	450	D5	465	XPCROY-L1-0000-00701
				D3	450	D4	460	XPCROY-L1-0000-00702
				D4	455	D5	465	XPCROY-L1-0000-00703
	13	300	124	D3	450	D5	465	XPCROY-L1-0000-00801
				D3	450	D4	460	XPCROY-L1-0000-00802
				D4	455	D5	465	XPCROY-L1-0000-00803
	14	350	145	D3	450	D5	465	XPCROY-L1-0000-00901
				D3	450	D4	460	XPCROY-L1-0000-00902

XLamp XP-C LED Standard Order Codes - Color								
Color	Min. Luminous Flux (lm) @ 350 mA*		Calculated Min. Luminous Flux (lm) @ 125 mA*	Dominant Wavelength (nm)				Order Code
	Group	Flux (lm)		Min.		Max.		
			Group	DWL (nm)	Group	DWL (nm)		
Blue	H	18.1	8.3	B3	465	B6	485	XPCBLU-L1-0000-00V01
				B3	465	B5	480	XPCBLU-L1-0000-00V02
				B4	470	B5	480	XPCBLU-L1-0000-00V05
	J	23.5	10.8	B3	465	B6	485	XPCBLU-L1-0000-00W01
				B3	465	B5	480	XPCBLU-L1-0000-00W02
				B4	470	B5	480	XPCBLU-L1-0000-00W05
Green	N3	56.8	28.2	G2	520	G4	535	XPCGRN-L1-0000-00501
				G2	520	G3	530	XPCGRN-L1-0000-00502
				G3	525	G4	535	XPCGRN-L1-0000-00503
	N4	62.0	30.8	G2	520	G4	535	XPCGRN-L1-0000-00601
				G2	520	G3	530	XPCGRN-L1-0000-00602
				G3	525	G4	535	XPCGRN-L1-0000-00603
	P2	67.2	33.3	G2	520	G4	535	XPCGRN-L1-0000-00701
				G2	520	G3	530	XPCGRN-L1-0000-00702
				G3	525	G4	535	XPCGRN-L1-0000-00703
	P3	73.9	36.7	G2	520	G4	535	XPCGRN-L1-0000-00801
				G2	520	G3	530	XPCGRN-L1-0000-00802
				G3	525	G4	535	XPCGRN-L1-0000-00803
Amber	K3	35.2	13.2	A2	585	A3	595	XPCAMB-L1-0000-00Z01
	M2	39.8	14.9	A2	585	A3	595	XPCAMB-L1-0000-00Z01
	M3	45.7	17.1	A2	585	A3	595	XPCAMB-L1-0000-00Z01
	N2	51.7	19.4	A2	585	A3	595	XPCAMB-L1-0000-00Z01

STANDARD ORDER CODES AND BINS (XP-C COLOR CONTINUED)

XLamp XP-C LED Standard Order Codes - Color								
Color	Min. Luminous Flux (lm) @ 350 mA*		Calculated Min. Luminous Flux (lm) @ 125 mA*	Dominant Wavelength (nm)				Order Code
				Min.		Max.		
Red-Orange	M3	45.7	17.5	O3	610	O4	620	XPCRDO-L1-0000-00301
	N2	51.7	19.8	O3	610	O4	620	XPCRDO-L1-0000-00401
	N3	56.8	21.7	O3	610	O4	620	XPCRDO-L1-0000-00501
	N4	62.0	23.7	O3	610	O4	620	XPCRDO-L1-0000-00601
Red	K3	35.2	13.4	R2	620	R3	630	XPCRED-L1-0000-00Z01
	M2	39.8	15.2	R2	620	R3	630	XPCRED-L1-0000-00201
	M3	45.7	17.5	R2	620	R3	630	XPCRED-L1-0000-00301
	N2	51.7	19.7	R2	620	R3	630	XPCRED-L1-0000-00401

* Calculated values for reference only

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E COOL WHITE)

XLamp XP-E LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code
Group	Flux (lm)		
Cool White (5000 K - 10,000 K)			
Q4	100	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPEWHT-L1-0000-00C01
		WC, WD, WF, WG	XPEWHT-L1-0000-00C02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPEWHT-L1-0000-00C03
Q5	107	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPEWHT-L1-0000-00D01
		WC, WD, WF, WG	XPEWHT-L1-0000-00D02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPEWHT-L1-0000-00D03
R2	114	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPEWHT-L1-0000-00E01
		WC, WD, WF, WG	XPEWHT-L1-0000-00E02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPEWHT-L1-0000-00E03
R3	122	WA, WB, WC, WD, WE, WF, WG, WH, WJ, WK, WM, WN, WP	XPEWHT-L1-0000-00F01
		WC, WD, WF, WG	XPEWHT-L1-0000-00F02
		WC, WD, WF, WG, WH, WJ, WN, WP	XPEWHT-L1-0000-00F03

STANDARD ORDER CODES AND BINS (XP-E ANSI COOL WHITE)

XLamp XP-E LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code
Group	Flux (lm)		
ANSI Cool White (5000 K – 8300 K)			
Q4	100	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEWHT-L1-0000-00C51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEWHT-L1-0000-00C53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEWHT-L1-0000-00C50
Q5	107	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEWHT-L1-0000-00D51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEWHT-L1-0000-00D53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEWHT-L1-0000-00D50
R2	114	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEWHT-L1-0000-00E51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEWHT-L1-0000-00E53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEWHT-L1-0000-00E50
R3	122	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEWHT-L1-0000-00F51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEWHT-L1-0000-00F53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEWHT-L1-0000-00F50

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E OUTDOOR WHITE)

XLamp XP-E LED Standard Order Codes - White				
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Outdoor White (4000 K – 5300 K)				
Q4	100	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEWHT-01-0000-00CC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00CD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00CC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00CD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00CC3	4300 K
Q5	107	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEWHT-01-0000-00DC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00DD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00DC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00DD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00DC3	4300 K
R2	114	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEWHT-01-0000-00EC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00ED1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00EC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00ED2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00EC3	4300 K
R3	122	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEWHT-01-0000-00FC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00FD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEWHT-01-0000-00FC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00FD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEWHT-01-0000-00FC3	4300 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E NEUTRAL WHITE)

XLamp XP-E LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Neutral White (3700 K - 5000 K)				
P4	80.6	5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-L1-0000-009F6	3700 K
Q2	87.4	4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEWHT-L1-0000-00AF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-L1-0000-00AE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-L1-0000-00AF6	3700 K
Q3	93.9	3A, 3B, 3C, 3D	XPEWHT-L1-0000-00BE3	5000 K
		3C, 3D, 4A, 4B	XPEWHT-L1-0000-00BF4	4750 K
		4A, 4B, 4C, 4D	XPEWHT-L1-0000-00BE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEWHT-L1-0000-00BF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-L1-0000-00BE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-L1-0000-00BF6	3700 K
Q4	100	3A, 3B, 3C, 3D	XPEWHT-L1-0000-00CE3	5000 K
		3C, 3D, 4A, 4B	XPEWHT-L1-0000-00CF4	4750 K
		4A, 4B, 4C, 4D	XPEWHT-L1-0000-00CE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEWHT-L1-0000-00CF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-L1-0000-00CE5	4000 K
Q5	107	3A, 3B, 3C, 3D	XPEWHT-L1-0000-00DE3	5000 K
		3C, 3D, 4A, 4B	XPEWHT-L1-0000-00DF4	4750 K
		4A, 4B, 4C, 4D	XPEWHT-L1-0000-00DE4	4500 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E 80-CRI MINIMUM, WHITE)

XLamp XP-E LED Standard Order Codes - 80-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
80-CRI White (2600 K - 4300 K)				
P3	73.9	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-H1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-H1-0000-008E8	2700 K
P4	80.6	5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-H1-0000-009F6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-H1-0000-009E6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEWHT-H1-0000-009F7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-H1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-H1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-H1-0000-009E8	2700 K
Q2	87.4	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-H1-0000-00AE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-H1-0000-00AF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-H1-0000-00AE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEWHT-H1-0000-00AF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-H1-0000-00AE7	3000 K
Q3	93.9	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-H1-0000-00BE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEWHT-H1-0000-00BF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-H1-0000-00BE6	3500 K
Q4	100	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEWHT-H1-0000-00CE5	4000 K

STANDARD ORDER CODES AND BINS (XP-E WARM WHITE)

XLamp XP-E LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Warm White (2600 K - 3700 K)				
P2	67.2	8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-L1-0000-007E8	2700K
P3	73.9	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-L1-0000-008E7	3000K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-L1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-L1-0000-008E8	2700 K
P4	80.6	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-L1-0000-009E6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEWHT-L1-0000-009F7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-L1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-L1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-L1-0000-009E8	2700 K
Q2	87.4	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-L1-0000-00AE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEWHT-L1-0000-00AF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-L1-0000-00AE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-L1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-L1-0000-00AE8	2700 K
Q3	93.9	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEWHT-L1-0000-00BE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEWHT-L1-0000-00BF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-L1-0000-00BE7	3000 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E 85-CRI MINIMUM, WHITE)

XLamp XP-E LED Standard Order Codes - 85-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
85-CRI White (2600 K - 3200 K)				
N4	62	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-P1-0000-006F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-P1-0000-006E8	2700 K
P2	67.2	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-P1-0000-007E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-P1-0000-007F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-P1-0000-007E8	2700 K
P3	73.9	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-P1-0000-008E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-P1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-P1-0000-008E8	2700 K
P4	80.6	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-P1-0000-009E7	3000 K

STANDARD ORDER CODES AND BINS (XP-E 90-CRI MINIMUM, WHITE)

XLamp XP-E LED Standard Order Codes - 90-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
90-CRI White (2600 K - 3200 K)				
N4	62	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-U1-0000-006F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-U1-0000-006E8	2700 K
P2	67.2	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-U1-0000-007E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEWHT-U1-0000-007F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEWHT-U1-0000-007E8	2700 K
P3	73.9	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEWHT-U1-0000-008E7	3000 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E COLOR)

XLamp XP-E LED Standard Order Codes - Royal Blue							
Color	Min. Radiant Flux (mW) @ 350 mA*		Dominant Wavelength (nm)				Order Code
	Group	Flux (mW)	Min.		Max.		
			Group	DWL (nm)	Group	DWL (nm)	
Royal Blue	14	350	D3	450	D5	465	XPEROY-L1-0000-00901
			D3	450	D4	460	XPEROY-L1-0000-00902
			D4	455	D5	465	XPEROY-L1-0000-00903
	15	425	D3	450	D5	465	XPEROY-L1-0000-00A01
			D3	450	D4	460	XPEROY-L1-0000-00A02
			D4	455	D5	465	XPEROY-L1-0000-00A03
	16	500	D3	450	D5	465	XPEROY-L1-0000-00B01
			D3	450	D4	460	XPEROY-L1-0000-00B02

XLamp XP-E LED Standard Order Codes - Color							
Color	Min. Luminous Flux (lm) @ 350 mA*		Dominant Wavelength (nm)				Order Code
	Group	Flux (lm)	Min.		Max.		
			Group	DWL (nm)	Group	DWL (nm)	
Blue	K2	30.6	B3	465	B6	485	XPEBLU-L1-0000-00Y01
			B3	465	B5	480	XPEBLU-L1-0000-00Y02
			B4	470	B5	480	XPEBLU-L1-0000-00Y05
	K3	35.2	B3	465	B6	485	XPEBLU-L1-0000-00Z01
			B3	465	B5	480	XPEBLU-L1-0000-00Z02
			B4	470	B5	480	XPEBLU-L1-0000-00Z05
	M2	39.8	B3	465	B6	485	XPEBLU-L1-0000-00201
			B3	465	B5	480	XPEBLU-L1-0000-00202
			B4	470	B5	480	XPEBLU-L1-0000-00205
Green	P4	80.6	G2	520	G4	535	XPEGRN-L1-0000-00901
			G2	520	G3	530	XPEGRN-L1-0000-00902
			G3	525	G4	535	XPEGRN-L1-0000-00903
	Q2	87.4	G2	520	G4	535	XPEGRN-L1-0000-00A01
			G2	520	G3	530	XPEGRN-L1-0000-00A02
			G3	525	G4	535	XPEGRN-L1-0000-00A03
	Q3	93.9	G2	520	G4	535	XPEGRN-L1-0000-00B01
			G2	520	G3	530	XPEGRN-L1-0000-00B02
			G3	525	G4	535	XPEGRN-L1-0000-00B03
	Q4	100	G2	520	G4	535	XPEGRN-L1-0000-00C01
			G2	520	G3	530	XPEGRN-L1-0000-00C02
			G3	525	G4	535	XPEGRN-L1-0000-00C03
	Q5	107	G2	520	G4	535	XPEGRN-L1-0000-00D01
			G2	520	G3	530	XPEGRN-L1-0000-00D02
			G3	525	G4	535	XPEGRN-L1-0000-00D03

STANDARD ORDER CODES AND BINS (XP-E COLOR CONTINUED)

XLamp XP-E LED Standard Order Codes - Color							
Color	Min. Luminous Flux (lm) @ 350 mA*		Dominant Wavelength (nm)				Order Code
			Min.		Max.		
Amber	M3	45.7	A2	585	A3	595	XPEAMB-L1-0000-00301
	N2	51.7	A2	585	A3	595	XPEAMB-L1-0000-00401
	N3	56.8	A2	585	A3	595	XPEAMB-L1-0000-00501
	N4	62.0	A2	585	A3	595	XPEAMB-L1-0000-00601
Red-Orange	N3	56.8	O3	610	O4	620	XPERDO-L1-0000-00501
	N4	62.0	O3	610	O4	620	XPERDO-L1-0000-00601
	P2	67.2	O3	610	O4	620	XPERDO-L1-0000-00701
	P3	73.9	O3	610	O4	620	XPERDO-L1-0000-00801
Red	M3	45.7	R2	620	R3	630	XPERED-L1-0000-00301
	N2	51.7	R2	620	R3	630	XPERED-L1-0000-00401
	N3	56.8	R2	620	R3	630	XPERED-L1-0000-00501
	N4	62	R2	620	R3	630	XPERED-L1-0000-00601

STANDARD ORDER CODES AND BINS (XP-E HEW ANSI COOL WHITE)

XLamp XP-E HEW LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA *		Chromaticity Regions	Order Code
Group	Flux (lm)		
ANSI Cool White (5000 K – 8300 K)			
R3	122	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEHEW-L1-0000-00F51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEHEW-L1-0000-00F53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEHEW-L1-0000-00F50
R4	130	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPEHEW-L1-0000-00G51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEHEW-L1-0000-00G53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEHEW-L1-0000-00G50
R5	139	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3	XPEHEW-L1-0000-00H51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPEHEW-L1-0000-00H53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPEHEW-L1-0000-00H50

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E HEW OUTDOOR WHITE)

XLamp XP-E HEW LED Standard Order Codes - White				
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code*	CCT
Group	Flux (lm)			
Outdoor White (2600 K – 5300 K)				
Q4	100	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-01-0000-00CF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-01-0000-00CE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-01-0000-00CF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-01-0000-00CE8	2700 K
Q5	107	5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-01-0000-00DF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-01-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-01-0000-00DF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-01-0000-00DE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-01-0000-00DF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-01-0000-00DE8	2700 K
R2	114	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEHEW-01-0000-00EC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00ED1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00EC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00ED2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00EC3	4300 K
		3A, 3B, 3C, 3D	XPEHEW-01-0000-00EE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-01-0000-00EF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-01-0000-00EE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-01-0000-00EF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D3	XPEHEW-01-0000-00EE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-01-0000-00EF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-01-0000-00EE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-01-0000-00EF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-01-0000-00EE7	3000 K
R3	122	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEHEW-01-0000-00FC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00FD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00FC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00FD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00FC3	4300 K
		3A, 3B, 3C, 3D	XPEHEW-01-0000-00FE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-01-0000-00FF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-01-0000-00FE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-01-0000-00FF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEHEW-01-0000-00FE5	4000 K

STANDARD ORDER CODES AND BINS (XP-E HEW OUTDOOR WHITE, CONTINUED)

XLamp XP-E HEW LED Standard Order Codes - White				
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code*	CCT
Group	Flux (lm)			
Outdoor White (2600 K – 5300 K)				
R4	130	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPEHEW-01-0000-00GC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00GD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPEHEW-01-0000-00GC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00GD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPEHEW-01-0000-00GC3	4300 K
		3A, 3B, 3C, 3D	XPEHEW-01-0000-00GE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-01-0000-00GF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-01-0000-00GE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-01-0000-00GF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEHEW-01-0000-00GE5	4000 K

STANDARD ORDER CODES AND BINS (XP-E HEW NEUTRAL WHITE)

XLamp XP-E HEW LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Neutral White (3700 K - 5000 K)				
Q5	107	3A, 3B, 3C, 3D	XPEHEW-L1-0000-00DE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-L1-0000-00DF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-L1-0000-00DE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-L1-0000-00DF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEHEW-L1-0000-00DE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-L1-0000-00DF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-L1-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-L1-0000-00DF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-L1-0000-00DE7	3000 K
R2	114	3A, 3B, 3C, 3D	XPEHEW-L1-0000-00EE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-L1-0000-00EF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-L1-0000-00EE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-L1-0000-00EF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEHEW-L1-0000-00EE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-L1-0000-00EF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-L1-0000-00EE6	3500 K
R3	122	3A, 3B, 3C, 3D	XPEHEW-L1-0000-00FE3	5000 K
		3C, 3D, 4A, 4B	XPEHEW-L1-0000-00FF4	4750 K
		4A, 4B, 4C, 4D	XPEHEW-L1-0000-00FE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPEHEW-L1-0000-00FF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPEHEW-L1-0000-00FE5	4000 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E HEW 80-CRI MINIMUM, WHITE)

XLamp XP-E HEW LED Standard Order Codes - 80-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
80-CRI White (2600 K - 4000 K)				
Q2	87.4	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-H1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-H1-0000-00AE8	2700 K
Q3	93.9	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-H1-0000-00BF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-H1-0000-00BE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-H1-0000-00BF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-H1-0000-00BE8	2700 K
Q4	100	5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-H1-0000-00CF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-H1-0000-00CE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-H1-0000-00CF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-H1-0000-00CE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-H1-0000-00CF8	2900 K
Q5	107	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D3	XPEHEW-H1-0000-00DE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-H1-0000-00DF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-H1-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-H1-0000-00DF7	3200 K
R2	114	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D3	XPEHEW-H1-0000-00EE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPEHEW-H1-0000-00EF6	3700 K

STANDARD ORDER CODES AND BINS (XP-E HEW WARM WHITE)

XLamp XP-E HEW LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Warm White (2600 K - 3700 K)				
Q2	87.4	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-L1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-L1-0000-00AE8	2700 K
Q3	93.9	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-L1-0000-00BF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-L1-0000-00BE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-L1-0000-00BF8	2900 K
Q4	100	8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-L1-0000-00BE8	2700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-L1-0000-00CE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-L1-0000-00CF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-L1-0000-00CE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-L1-0000-00CF8	2900 K
Q5	107	8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-L1-0000-00CE8	2700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-L1-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPEHEW-L1-0000-00DF7	3200 K
R2	114	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-L1-0000-00DE7	3000 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPEHEW-L1-0000-00EE6	3500 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-E HEW 85-CRI MINIMUM, WHITE)

XLamp XP-E HEW LED Standard Order Codes - 85-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
85-CRI White (2600 K - 3200 K)				
P3	73.9	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-P1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-P1-0000-008E8	2700 K
P4	80.6	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-P1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-P1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-P1-0000-009E8	2700 K
Q2	87.4	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-P1-0000-00AE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-P1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-P1-0000-00AE8	2700 K
Q3	93.9	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-P1-0000-00BE7	3000 K

STANDARD ORDER CODES AND BINS (XP-E HEW 90-CRI MINIMUM, WHITE)

XLamp XP-E HEW LED Standard Order Codes - 90-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
90-CRI White (2600 K - 3200 K)				
P3	73.9	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-U1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-U1-0000-008E8	2700 K
P4	80.6	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-U1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-U1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPEHEW-U1-0000-009E8	2700 K
Q2	87.4	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPEHEW-U1-0000-00AE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPEHEW-U1-0000-00AF8	2900 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-G ANSI COOL WHITE)

XLamp XP-G LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA *		Chromaticity Regions	Order Code
Group	Flux (lm)		
ANSI Cool White (5000 K – 8300 K)			
R3	122	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPGWHT-L1-0000-00F51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPGWHT-L1-0000-00F53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPGWHT-L1-0000-00F50
R4	130	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S	XPGWHT-L1-0000-00G51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPGWHT-L1-0000-00G53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPGWHT-L1-0000-00G50
R5	139	0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3	XPGWHT-L1-0000-00H51
		1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S	XPGWHT-L1-0000-00H53
		1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	XPGWHT-L1-0000-00H50

STANDARD ORDER CODES AND BINS (XP-G OUTDOOR WHITE)

XLamp XP-G LED Standard Order Codes - White				
Min. Luminous Flux (lm) @ 350 mA *		Chromaticity Regions	Order Code*	CCT
Group	Flux (lm)			
Outdoor White (4000 K – 5300 K)				
R2	114	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPGWHT-01-0000-00EC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00ED1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00EC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00ED2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00EC3	4300 K
R3	122	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPGWHT-01-0000-00FC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00FD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00FC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00FD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00FC3	4300 K
R4	130	3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4R, 4S	XPGWHT-01-0000-00GC1	5000 K
		3A, 3B, 3C, 3D, 3R, 3S, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00GD1	4750 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U	XPGWHT-01-0000-00GC2	4500 K
		3C, 3D, 3T, 3U, 4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00GD2	4500 K
		4A, 4B, 4C, 4D, 4R, 4S, 4T, 4U, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5R, 5S	XPGWHT-01-0000-00GC3	4300 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-G NEUTRAL WHITE)

XLamp XP-G LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Neutral White (3700 K - 5000 K)				
Q5	107	3A, 3B, 3C, 3D	XPGWHT-L1-0000-00DE3	5000 K
		3C, 3D, 4A, 4B	XPGWHT-L1-0000-00DF4	4750 K
		4A, 4B, 4C, 4D	XPGWHT-L1-0000-00DE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPGWHT-L1-0000-00DF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPGWHT-L1-0000-00DE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPGWHT-L1-0000-00DF6	3700 K
R2	114	3A, 3B, 3C, 3D	XPGWHT-L1-0000-00EE3	5000 K
		3C, 3D, 4A, 4B	XPGWHT-L1-0000-00EF4	4750 K
		4A, 4B, 4C, 4D	XPGWHT-L1-0000-00EE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPGWHT-L1-0000-00EF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPGWHT-L1-0000-00EE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPGWHT-L1-0000-00EF6	3700 K
R3	122	3A, 3B, 3C, 3D	XPGWHT-L1-0000-00FE3	5000 K
		3C, 3D, 4A, 4B	XPGWHT-L1-0000-00FF4	4750 K
		4A, 4B, 4C, 4D	XPGWHT-L1-0000-00FE4	4500 K
		4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4	XPGWHT-L1-0000-00FF5	4300 K
		5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4	XPGWHT-L1-0000-00FE5	4000 K

STANDARD ORDER CODES AND BINS (XP-G 80-CRI MINIMUM, WHITE)

XLamp XP-G LED Standard Order Codes - 80-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
80-CRI White (2600 K - 4000 K)				
Q2	87.4	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-H1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-H1-0000-00AE8	2700 K
Q3	93.9	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-H1-0000-00BF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-H1-0000-00BE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-H1-0000-00BF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-H1-0000-00BE8	2700 K
Q4	100	5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPGWHT-H1-0000-00CF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPGWHT-H1-0000-00CE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-H1-0000-00CF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-H1-0000-00CE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-H1-0000-00CF8	2900 K
Q5	107	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D3	XPGWHT-H1-0000-00DE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPGWHT-H1-0000-00DF6	3700 K
		6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPGWHT-H1-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-H1-0000-00DF7	3200 K
R2	114	5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D3	XPGWHT-H1-0000-00EE5	4000 K
		5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4	XPGWHT-H1-0000-00EF6	3700 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

STANDARD ORDER CODES AND BINS (XP-G WARM WHITE)

XLamp XP-G LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
Warm White (2600 K - 3700 K)				
Q2	87.4	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-L1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-L1-0000-00AE8	2700 K
Q3	93.9	6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-L1-0000-00BF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-L1-0000-00BE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-L1-0000-00BF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-L1-0000-00BE8	2700 K
Q4	100	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPGWHT-L1-0000-00CE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-L1-0000-00CF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-L1-0000-00CE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-L1-0000-00CF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-L1-0000-00CE8	2700 K
Q5	107	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPGWHT-L1-0000-00DE6	3500 K
		6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4	XPGWHT-L1-0000-00DF7	3200 K
		7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-L1-0000-00DE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-L1-0000-00DF8	2900 K
R2	114	6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4	XPGWHT-L1-0000-00EE6	3500 K

STANDARD ORDER CODES AND BINS (XP-G 85-CRI MINIMUM, WHITE)

The following tables list standard kit numbers and performance bins. Kit numbers completely describe an order code's chromaticity regions and luminous flux range.

XLamp XP-G LED Standard Order Codes - 85-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
85-CRI White (2600 K - 3200 K)				
P3	73.9	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-P1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-P1-0000-008E8	2700 K
P4	80.6	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-P1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-P1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-P1-0000-009E8	2700 K
Q2	87.4	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-P1-0000-00AE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-P1-0000-00AF8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-P1-0000-00AE8	2700 K
Q3	93.9	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-P1-0000-00BE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-P1-0000-00BF8	2900 K

* Cree XLamp XP Family order codes specify only a minimum

STANDARD ORDER CODES AND BINS (XP-G 90-CRI MINIMUM, WHITE)

XLamp XP-G LED Standard Order Codes - 90-CRI White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Order Code	CCT
Group	Flux (lm)			
90-CRI White (2600 K - 3200 K)				
P3	73.9	7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-U1-0000-008F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-U1-0000-008E8	2700 K
P4	80.6	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-U1-0000-009E7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-U1-0000-009F8	2900 K
		8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4	XPGWHT-U1-0000-009E8	2700 K
Q2	87.4	7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4	XPGWHT-U1-0000-00AE7	3000 K
		7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4	XPGWHT-U1-0000-00AF8	2900 K

* Cree XLamp XP Family order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.