Cree® XLamp® CXA1507 LED

PRODUCT DESCRIPTION

The XLamp CXA1507 LED array expands Cree's family of high-flux, multi-die arrays in a smaller, easy-to-use platform. With XLamp lighting-class reliability, the CXA1507's small, uniform emitting surface enables both directional and non-directional lighting applications including lamp retrofit and luminaire designs. Available in 2-step and 4-step color consistency, and featuring a 9-mm optical source, the CXA1507 brings new levels of flux and efficacy to this form factor.

FEATURES

- Available in ANSI white bins as well as 4-step and 2-step EasyWhite® bins at 2700 K, 3000 K, 3500 K, 4000 K and 5000 K
- Available in ANSI white bins as well as 4-step EasyWhite bins at 5700 K and 6500 K CCT
- Available in 70-, 80-, 90- and 93-minimum CRI options
- Forward voltage: 37 V
- 85 °C binning and characterization
- Maximum drive current: 375 mA
- 115° viewing angle, uniform chromaticity profile
- Top-side solder connections
- Thermocouple attach point
- NEMA SSL-3 2011 standard flux bins
- RoHS- and REACh-compliant
- UL-recognized component (E349212)

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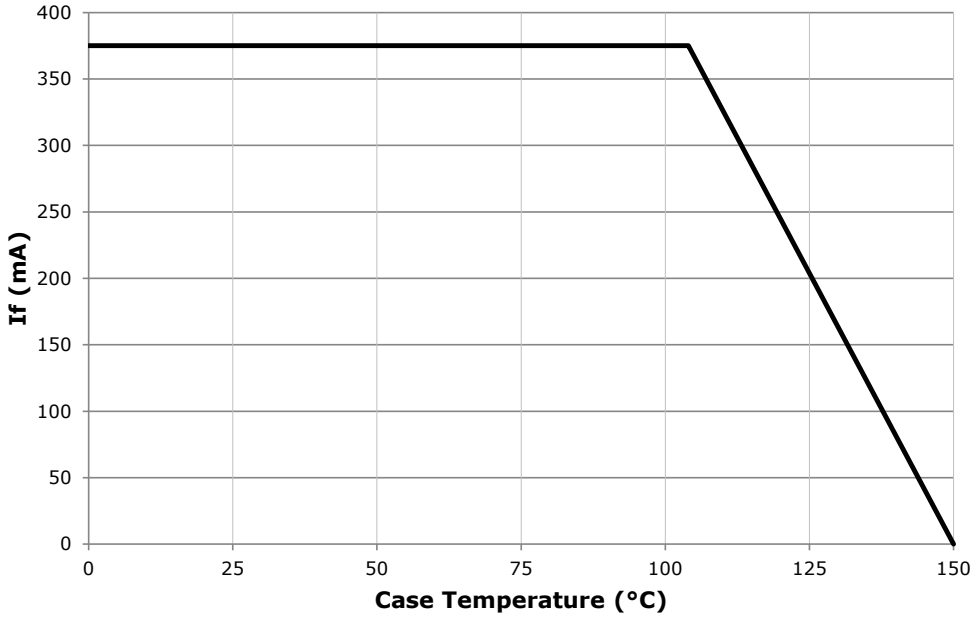
CHARACTERISTICS

Characteristics	Unit	Minimum	Typical	Maximum
Viewing angle (FWHM)	degrees		115	
ESD withstand voltage (HBM per Mil-Std-883D)	V			8000
DC forward current	mA			375*
Reverse current	mA			0.1
Forward voltage (@ 200 mA, 85 °C)	V		37	
Forward voltage (@ 200 mA, 25 °C)	V			42

* Refer to the Operating Limits section.

OPERATING LIMITS

The maximum current rating of the CXA1507 is dependent on the case temperature (Tc) when the LED has reached thermal equilibrium under steady-state operation. Please refer to the Mechanical Dimensions section on page 14 for the location of the Tc measurement point.



FLUX CHARACTERISTICS, EASYWHITE ORDER CODES AND BINS (I_F = 200 mA, T_J = 85 °C)

The following tables provide order codes for XLamp CXA1507 LEDs. For a complete description of the order code nomenclature, please reference Bin and Order Code Formats (page 15).

CCT Range	CRI		Base Order Codes Min. Luminous Flux @ 200 mA			2-Step Order Code		4-Step Order Code	
	Min	Typ	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C*	Chromaticity Region		Chromaticity Region	
6500 K	70	75	G2	780	871				CXA1507-0000-000N00G265F
			G4	840	938			65F	CXA1507-0000-000N00G465F
			H2	900	1005				CXA1507-0000-000N00H265F
	80	---	F4	730	815				CXA1507-0000-000N0HF465F
			G2	780	871			65F	CXA1507-0000-000N0HG265F
			G4	840	938				CXA1507-0000-000N0HG465F
5700 K	70	75	G2	780	871				CXA1507-0000-000N00G257F
			G4	840	938			57F	CXA1507-0000-000N00G457F
			H2	900	1005				CXA1507-0000-000N00H257F
	80	---	F4	730	815				CXA1507-0000-000N0HF457F
			G2	780	871			57F	CXA1507-0000-000N0HG257F
			G4	840	938				CXA1507-0000-000N0HG457F
5000 K	70	75	G2	780	871	50H	CXA1507-0000-000N00G250H		CXA1507-0000-000N00G250F
			G4	840	938		CXA1507-0000-000N00G450H	50F	CXA1507-0000-000N00G450F
			H2	900	1005		CXA1507-0000-000N00H250H		CXA1507-0000-000N00H250F
	80	---	F4	730	815	50H	CXA1507-0000-000N0HF450H		CXA1507-0000-000N0HF450F
			G2	780	871		CXA1507-0000-000N0HG250H	50F	CXA1507-0000-000N0HG250F
			G4	840	938		CXA1507-0000-000N0HG450H		CXA1507-0000-000N0HG450F
	90	95	E4	635	709	50H	CXA1507-0000-000N0UE450H		CXA1507-0000-000N0UE450F
			F2	680	759		CXA1507-0000-000N0UF250H	50F	CXA1507-0000-000N0UF250F
			F4	730	815		CXA1507-0000-000N0UF450H		CXA1507-0000-000N0UF450F

Notes

- Cree maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and a tolerance of ±2 on CRI measurements.

* Flux values @ 25 °C are calculated and for reference only.

FLUX CHARACTERISTICS, EASYWHITE ORDER CODES AND BINS (I_F = 200 mA, T_J = 85 °C) - CONTINUED

CCT Range	CRI		Base Order Codes Min. Luminous Flux @ 200 mA			2-Step Order Code		4-Step Order Code	
	Min	Typ	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C*	Chromaticity Region		Chromaticity Region	
4000 K	70	75	F4	730	815	40H	CXA1507-0000-000N00F440H	40F	CXA1507-0000-000N00F440F
			G2	780	871		CXA1507-0000-000N00G240H		CXA1507-0000-000N00G240F
			G4	840	938		CXA1507-0000-000N00G440H		CXA1507-0000-000N00G440F
	80	---	F4	780	815	40H	CXA1507-0000-000N0HF440H	40F	CXA1507-0000-000N0HF440F
			G2	780	871		CXA1507-0000-000N0HG240H		CXA1507-0000-000N0HG240F
	90	95	E2	590	659	40H	CXA1507-0000-000N0UE240H	40F	CXA1507-0000-000N0UE240F
			E4	635	709		CXA1507-0000-000N0UE440H		CXA1507-0000-000N0UE440F
			F2	680	759		CXA1507-0000-000N0UF240H		CXA1507-0000-000N0UF240F
3500 K	80	---	F2	680	759	35H	CXA1507-0000-000N00F235H	35F	CXA1507-0000-000N00F235F
			F4	730	815		CXA1507-0000-000N00F435H		CXA1507-0000-000N00F435F
			G2	780	871		CXA1507-0000-000N00G235H		CXA1507-0000-000N00G235F
	93	95	D4	550	614	35H	CXA1507-0000-000N0YD435H	35F	CXA1507-0000-000N0YD435F
			E2	590	659		CXA1507-0000-000N0YE235H		CXA1507-0000-000N0YE235F
			E4	635	709		CXA1507-0000-000N0YE435H		CXA1507-0000-000N0YE435F
3000 K	80	---	F2	680	759	30H	CXA1507-0000-000N00F230H	30F	CXA1507-0000-000N00F230F
			F4	730	815		CXA1507-0000-000N00F430H		CXA1507-0000-000N00F430F
			G2	780	871		CXA1507-0000-000N00G230H		CXA1507-0000-000N00G230F
	90	---	D4	550	614	30H	CXA1507-0000-000N0UD430H	30F	CXA1507-0000-000N0UD430F
			E2	590	659		CXA1507-0000-000N0UE230H		CXA1507-0000-000N0UE230F
	93	95	D2	510	569	30H	CXA1507-0000-000N0YD230H	30F	CXA1507-0000-000N0YD230F
			D4	550	614		CXA1507-0000-000N0YD430H		CXA1507-0000-000N0YD430F
			E2	590	659		CXA1507-0000-000N0YE230H		CXA1507-0000-000N0YE230F
2700 K	80	---	E4	635	709	27H	CXA1507-0000-000N00E427H	27F	CXA1507-0000-000N00E427F
			F2	680	759		CXA1507-0000-000N00F227H		CXA1507-0000-000N00F227F
			F4	730	815		CXA1507-0000-000N00F427H		CXA1507-0000-000N00F427F
	90	---	C4	475	530	27H	CXA1507-0000-000N0UC427H	27F	CXA1507-0000-000N0UC427F
			D2	510	569		CXA1507-0000-000N0UD227H		CXA1507-0000-000N0UD227F
			D4	550	614		CXA1507-0000-000N0UD427H		CXA1507-0000-000N0UD427F
	93	95	C4	475	530	27H	CXA1507-0000-000N0YC427H	27F	CXA1507-0000-000N0YC427F
			D2	510	569		CXA1507-0000-000N0YD227H		CXA1507-0000-000N0YD227F
			D4	550	614		CXA1507-0000-000N0YD427H		CXA1507-0000-000N0YD427F

Notes

- Cree maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and a tolerance of ±2 on CRI measurements.

* Flux values @ 25 °C are calculated and for reference only.

FLUX CHARACTERISTICS, ANSI WHITE ORDER CODES AND BINS (I_F = 200 mA, T_J = 85 °C)

The following tables provide order codes for XLamp CXA1507 LEDs. For a complete description of the order code nomenclature, please reference Bin and Order Code Formats (page 15).

CCT Range	CRI		Base Order Codes Min. Luminous Flux @ 200 mA			Chromaticity Regions	Order Code
	Min	Typ	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C*		
6500 K	70	75	G2	780	871	1A0, 1B0, 1C0, 1D0	CXA1507-0000-000N00G20E1
			G4	840	938		CXA1507-0000-000N00G40E1
			H2	900	1005		CXA1507-0000-000N00H20E1
	80	---	F4	730	815	1A0, 1B0, 1C0, 1D0	CXA1507-0000-000N0HF40E1
			G2	780	871		CXA1507-0000-000N0HG20E1
			G4	840	938		CXA1507-0000-000N0HG40E1
5700 K	70	75	G2	780	871	2A0, 2B0, 2C0, 2D0	CXA1507-0000-000N00G20E2
			G4	840	938		CXA1507-0000-000N00G40E2
			H2	900	1005		CXA1507-0000-000N00H20E2
	80	---	F4	730	815	2A0, 2B0, 2C0, 2D00	CXA1507-0000-000N0HF40E2
			G2	780	871		CXA1507-0000-000N0HG20E2
			G4	840	938		CXA1507-0000-000N0HG40E3
5000 K	70	75	G2	780	871	3A0, 3B0, 3C0, 3D0	CXA1507-0000-000N00G20E3
			G4	840	938		CXA1507-0000-000N00G40E3
			H2	900	1005		CXA1507-0000-000N00H20E3
	80	---	F4	730	815	3A0, 3B0, 3C0, 3D0	CXA1507-0000-000N0HF40E3
			G2	780	871		CXA1507-0000-000N0HG20E3
			G4	840	938		CXA1507-0000-000N0HG40E3
	90	95	E4	635	709	3A0, 3B0, 3C0, 3D0	CXA1507-0000-000N0UE40E3
			F2	680	759		CXA1507-0000-000N0UF20E3
			F4	730	815		CXA1507-0000-000N0UF40E3

Notes

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* Flux values @ 25 °C are calculated and for reference only.

FLUX CHARACTERISTICS, ANSI WHITE ORDER CODES AND BINS (I_F = 200 mA, T_J = 85 °C) - CONTINUED

CCT Range	CRI		Base Order Codes Min. Luminous Flux @ 200 mA			Chromaticity Regions	Order Code
	Min	Typ	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C*		
4000 K	70	75	F4	730	815	5A0, 5B0, 5C0, 5D0	CXA1507-0000-000N00F40E5
			G2	780	871		CXA1507-0000-000N00G20E5
			G4	840	938		CXA1507-0000-000N00G40E5
	80	---	F4	780	815	5A0, 5B0, 5C0, 5D0	CXA1507-0000-000N0HF40E5
			G2	780	871		CXA1507-0000-000N0HG20E5
	90	95	E2	590	659	5A0, 5B0, 5C0, 5D0	CXA1507-0000-000N0UE20E5
			E4	635	709		CXA1507-0000-000N0UE40E5
			F2	680			CXA1507-0000-000N0UF20E5
3500 K	80	---	F2	680	759	6A0, 6B0, 6C0, 6D0	CXA1507-0000-000N00F20E6
			F4	730	815		CXA1507-0000-000N00F40E6
			G2	780	871		CXA1507-0000-000N00G20E6
	93	95	D4	550	614	6A0, 6B0, 6C0, 6D0	CXA1507-0000-000N0YD40E6
			E2	590	659		CXA1507-0000-000N0YE20E6
			E4	635	709		CXA1507-0000-000N0YE40E6
3000 K	80	---	F2	680	759	7A0, 7B0, 7C0, 7D0	CXA1507-0000-000N00F20E7
			F4	730	815		CXA1507-0000-000N00F40E7
			G2	780	871		CXA1507-0000-000N00G20E7
	90	---	D4	550	614	7A0, 7B0, 7C0, 7D0	CXA1507-0000-000N0UD40E7
			E2	590	659		CXA1507-0000-000N0UE20E7
	93	95	D2	510	569	7A0, 7B0, 7C0, 7D0	CXA1507-0000-000N0YD20E7
			D4	550	614		CXA1507-0000-000N0YD40E7
			E2	590	659		CXA1507-0000-000N0YE20E7
2700 K	80	---	E4	635	709	8A0, 8B0, 8C0, 8D0	CXA1507-0000-000N00E40E8
			F2	680	759		CXA1507-0000-000N00F20E8
			F4	730	815		CXA1507-0000-000N00F40E8
	90	---	C4	475	530	8A0, 8B0, 8C0, 8D0	CXA1507-0000-000N0UC40E8
			D2	510	569		CXA1507-0000-000N0UD20E8
			D4	550	614		CXA1507-0000-000N0UD40E8
	93	95	C4	475	530	8A0, 8B0, 8C0, 8D0	CXA1507-0000-000N0YC40E8
			D2	510	569		CXA1507-0000-000N0YD20E8
			D4	550	614		CXA1507-0000-000N0YD40E8

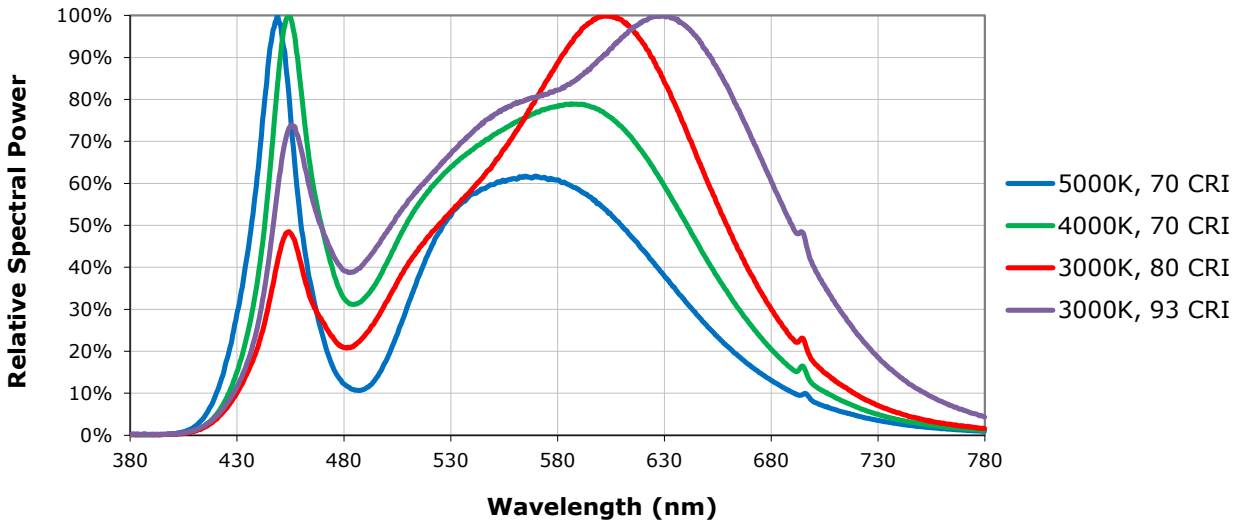
Notes

- Cree maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and a tolerance of ±2 on CRI measurements.

* Flux values @ 25 °C are calculated and for reference only.

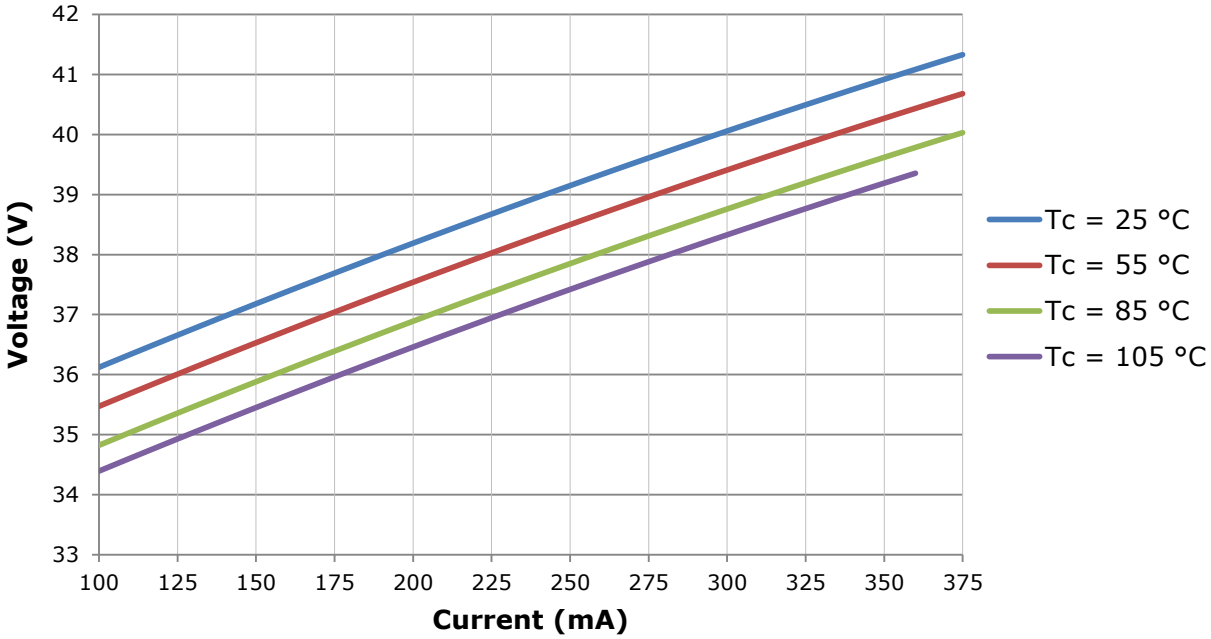
RELATIVE SPECTRAL POWER DISTRIBUTION (I_F = 200 mA, T_J = 85 °C)

The following graph is the result of a series of pulsed measurements at 200 mA and T_J = 85 °C.



ELECTRICAL CHARACTERISTICS

The following graph is the result of a series of steady-state measurements.

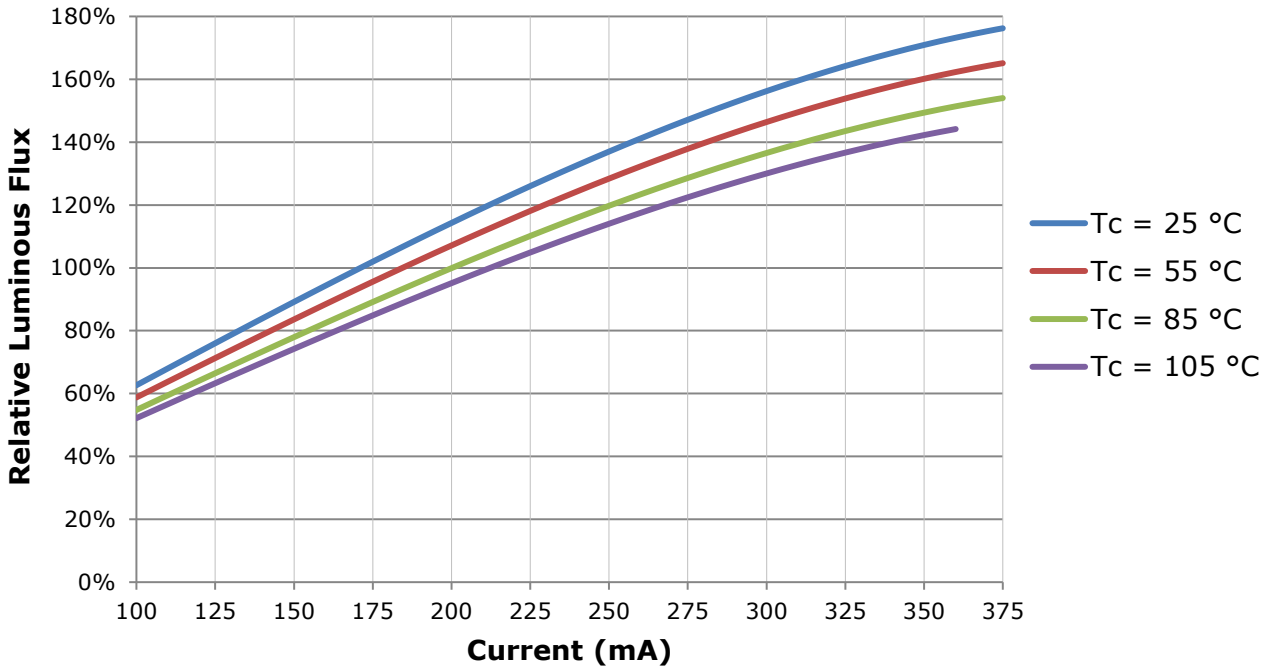


RELATIVE LUMINOUS FLUX

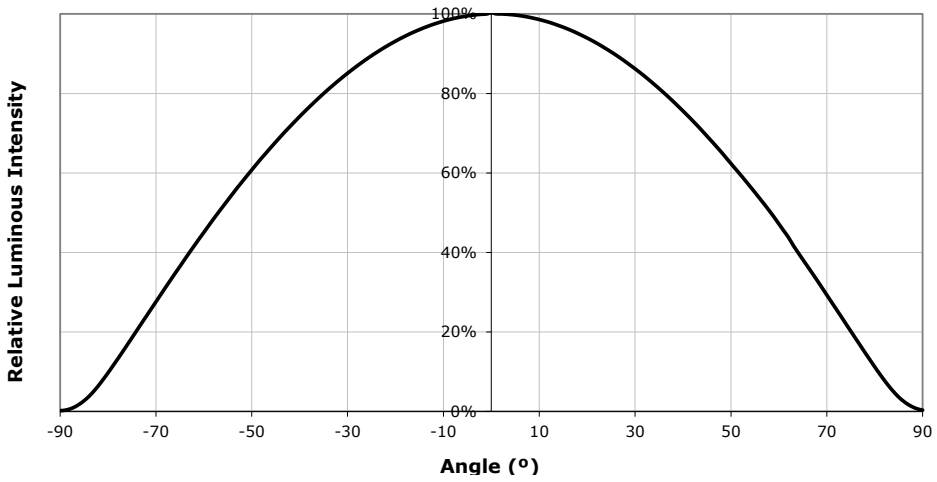
The relative luminous flux values provided below are the ratio of:

- Measurements of CXA1507 at steady-state operation at the given conditions, divided by
- Flux measured during binning, which is a pulsed measurement at 200 mA at T_J = 85 °C.

For example, at steady-state operation of Tc = 55 °C, I_F = 300 mA, the relative luminous flux ratio is 140% in the chart below. A CXA1507 LED that measures 710 lm during binning will deliver 994 lm (710 * 1.4) at steady-state operation of Tc = 55 °C, I_F = 300 mA.



TYPICAL SPATIAL DISTRIBUTION



PERFORMANCE GROUPS - BRIGHTNESS (I_F = 200 mA, T_J = 85 °C)

XLamp CXA1507 LEDs are tested for luminous flux and placed into one of the following bins.

Group Code	Min. Luminous Flux @ 200 mA	Max. Luminous Flux @ 200 mA
C4	475	510
D2	510	550
D4	550	590
E2	590	635
E4	635	680
F2	680	730
F4	730	780
G2	780	840
G4	840	900
H2	900	970

PERFORMANCE GROUPS - CHROMATICITY (T_J = 85 °C)

XLamp CXA1507 LEDs are tested for chromaticity and placed into one of the regions defined by the following bounding coordinates.

EasyWhite Color Temperatures – 4-Step			
Code	**CCT**	**x**	**y**
65F	6500 K	0.3253	0.3325
		0.3249	0.3439
		0.3331	0.3514
		0.3330	0.3393
57F	5700 K	0.3097	0.3196
		0.3079	0.3297
		0.3164	0.3382
		0.3176	0.3275
50F	5000 K	0.3407	0.3459
		0.3415	0.3586
		0.3499	0.3654
		0.3484	0.3521
40F	4000 K	0.3744	0.3685
		0.3782	0.3837
		0.3912	0.3917
		0.3863	0.3758
35F	3500 K	0.3981	0.3800
		0.4040	0.3966
		0.4186	0.4037
		0.4116	0.3865
30F	3000 K	0.4242	0.3919
		0.4322	0.4096
		0.4449	0.4141
		0.4359	0.3960
27F	2700 K	0.4475	0.3994
		0.4573	0.4178
		0.4695	0.4207
		0.4589	0.4021

EasyWhite Color Temperatures – 2-Step			
Code	**CCT**	**x**	**y**
50H	5000 K	0.3429	0.3507
		0.3434	0.3571
		0.3475	0.3604
		0.3469	0.3539
40H	4000 K	0.3784	0.3741
		0.3804	0.3818
		0.3867	0.3857
		0.3844	0.3778
35H	3500 K	0.4030	0.3857
		0.4061	0.3941
		0.4132	0.3976
		0.4099	0.3890
30H	3000 K	0.4291	0.3973
		0.4333	0.4062
		0.4395	0.4084
		0.4351	0.3994
27H	2700 K	0.4528	0.4046
		0.4578	0.4138
		0.4638	0.4152
		0.4586	0.4060

PERFORMANCE GROUPS - CHROMATICITY (T_j = 85 °C) - CONTINUED

ANSI White Bins				
Code	CCT	Bin Code	x	y
0E1	6500 K	1A0	0.3048	0.3207
			0.3130	0.3290
			0.3144	0.3186
			0.3068	0.3113
		1B0	0.3028	0.3304
			0.3115	0.3391
			0.3130	0.3290
			0.3048	0.3207
		1C0	0.3115	0.3391
			0.3205	0.3481
			0.3213	0.3373
			0.3130	0.3290
		1D0	0.3130	0.3290
			0.3213	0.3373
			0.3221	0.3261
			0.3144	0.3186

ANSI White Bins				
Code	CCT	Bin Code	x	y
0E2	5700 K	2A0	0.3215	0.3350
			0.3290	0.3417
			0.3290	0.3300
			0.3222	0.3243
		2B0	0.3207	0.3462
			0.3290	0.3538
			0.3290	0.3417
			0.3215	0.3350
		2C0	0.3290	0.3538
			0.3376	0.3616
			0.3371	0.3490
			0.3290	0.3417
		2D0	0.3290	0.3417
			0.3371	0.3490
			0.3366	0.3369
			0.3290	0.3300

ANSI White Bins				
Code	CCT	Bin Code	x	y
0E3	5000 K	3A0	.3371	.3490
			.3451	.3554
			.3440	.3427
			.3366	.3369
		3B0	.3376	.3616
			.3463	.3687
			.3451	.3554
			.3371	.3490
		3C0	.3463	.3687
			.3551	.3760
			.3533	.3620
			.3451	.3554
		3D0	.3451	.3554
			.3533	.3620
			.3515	.3487
			.3440	.3427

ANSI White Bins				
Code	CCT	Bin Code	x	y
0E5	4000 K	5A0	.3670	.3578
			.3702	.3722
			.3825	.3798
			.3783	.3646
		5B0	.3702	.3722
			.3736	.3874
			.3869	.3958
			.3825	.3798
		5C0	.3825	.3798
			.3869	.3958
			.4006	.4044
			.3950	.3875
		5D0	.3783	.3646
			.3825	.3798
			.3950	.3875
			.3898	.3716

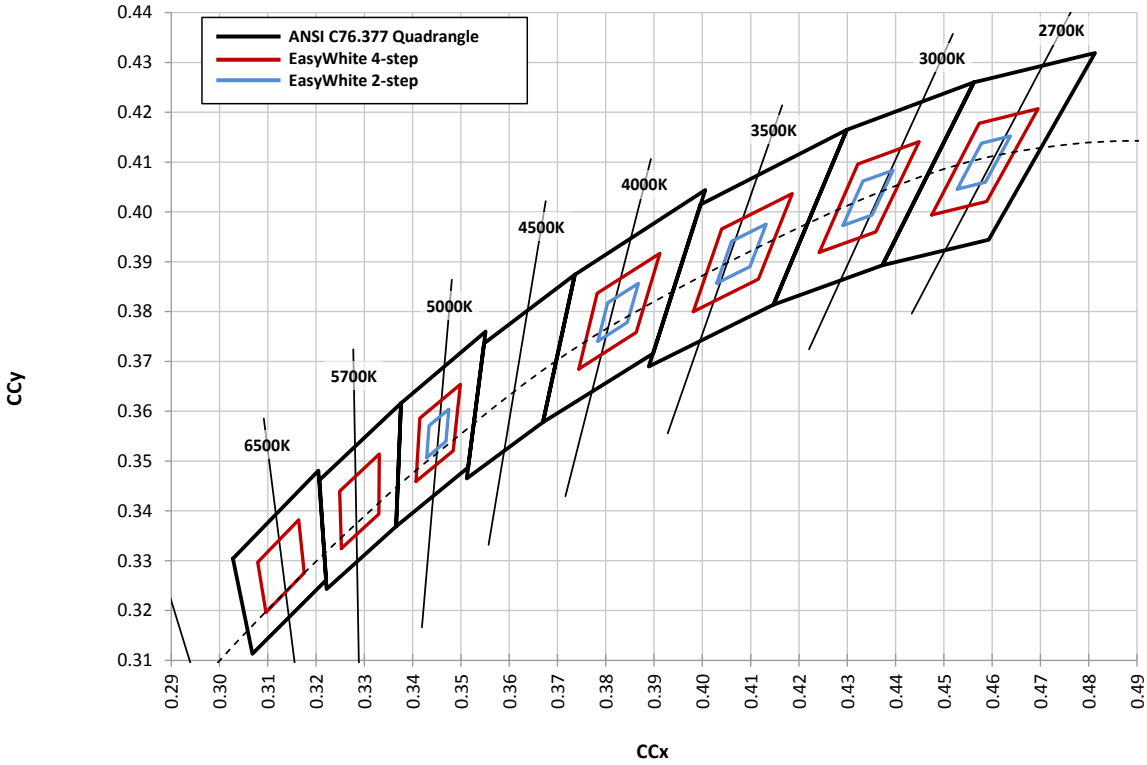
ANSI White Bins				
Code	CCT	Bin Code	x	y
0E6	3500 K	6A0	.3889	.3690
			.3941	.3848
			.4080	.3916
			.4017	.3751
		6B0	.3941	.3848
			.3996	.4015
			.4146	.4089
			.4080	.3916
		6C0	.4080	.3916
			.4146	.4089
			.4299	.4165
			.4221	.3984
		6D0	.4017	.3751
			.4080	.3916
			.4221	.3984
			.4147	.3814

PERFORMANCE GROUPS - CHROMATICITY (T_j = 85 °C) - CONTINUED

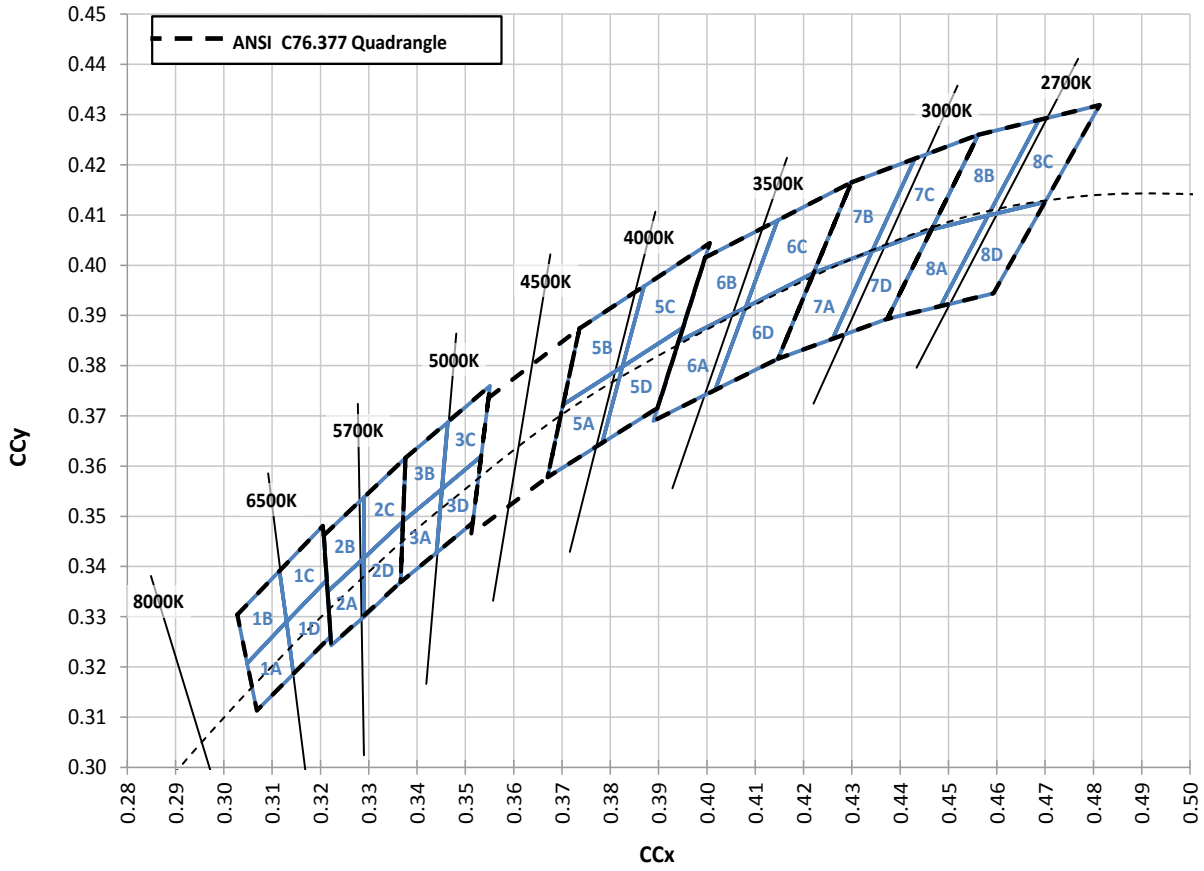
ANSI White Bins				
Code	CCT	Bin Code	x	y
0E7	3000 K	7A0	.4147	.3814
			.4221	.3984
			.4342	.4028
			.4259	.3853
		7B0	.4221	.3984
			.4299	.4165
			.4430	.4212
			.4342	.4028
		7C0	.4342	.4028
			.4430	.4212
			.4562	.4260
			.4465	.4071
		7D0	.4259	.3853
			.4342	.4028
			.4465	.4071
			.4373	.3893

ANSI White Bins				
Code	CCT	Bin Code	x	y
0E8	2700 K	8A0	.4373	.3893
			.4465	.4071
			.4582	.4099
			.4483	.3919
		8B0	.4465	.4071
			.4562	.4260
			.4687	.4289
			.4582	.4099
		8C0	.4582	.4099
			.4687	.4289
			.4813	.4319
			.4700	.4126
		8D0	.4483	.3919
			.4582	.4099
			.4700	.4126
			.4593	.3944

CREE EASYWHITE BINS PLOTTED ON THE 1931 CIE COLOR SPACE (T_j = 85 °C)



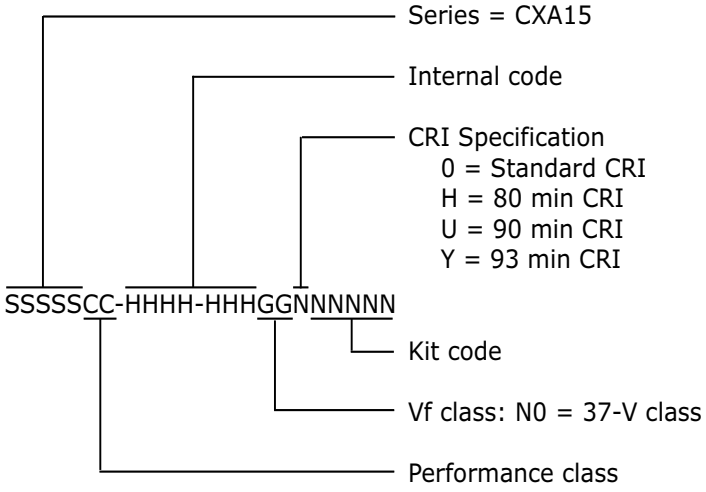
CREE ANSI WHITE BINS PLOTTED ON THE 1931 CIE COLOR SPACE (T_J = 85 °C)



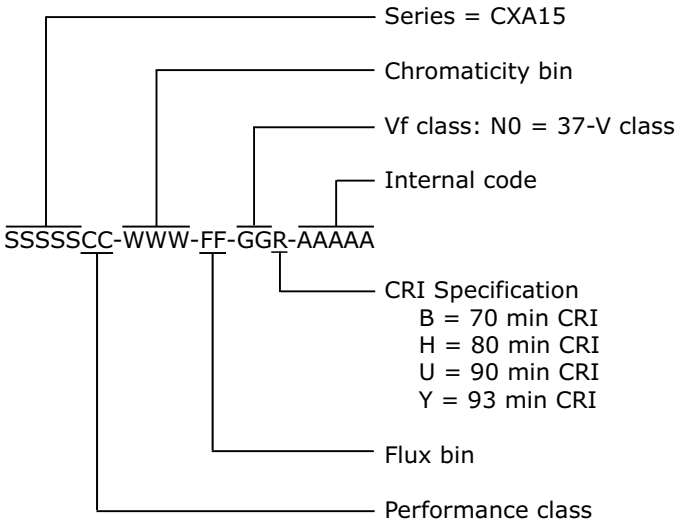
BIN AND ORDER CODE FORMATS

Bin codes and order codes are configured as follows:

Order Code



Bin Code



MECHANICAL DIMENSIONS

Dimensions are in mm.

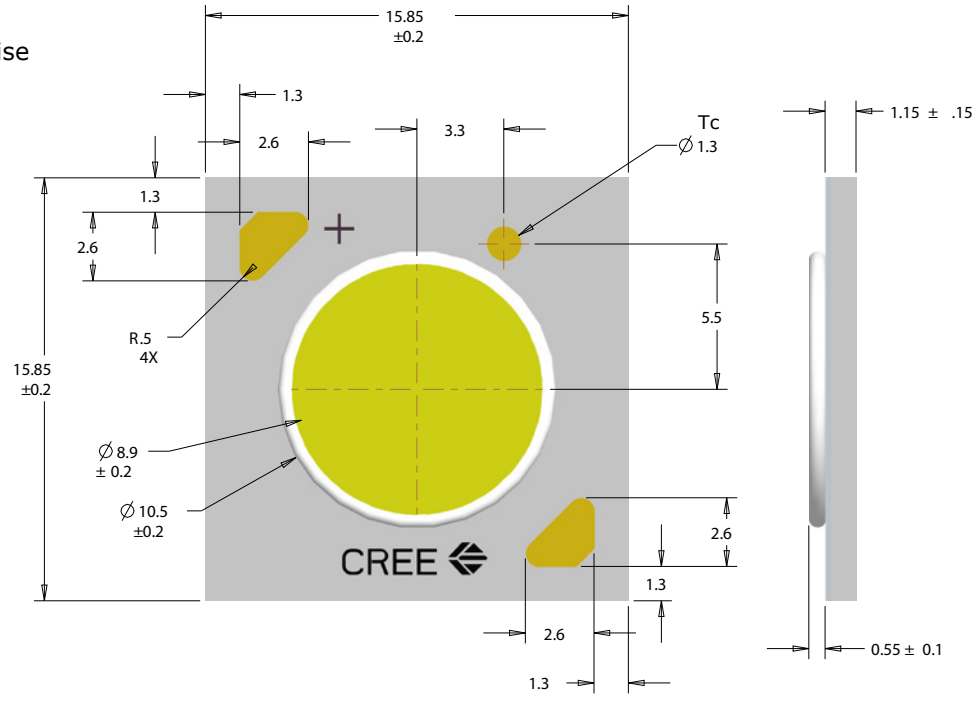
Tolerances unless otherwise specified:

.x ± .10

.xx ± .03

.xxx ± .010

x° ± 1°



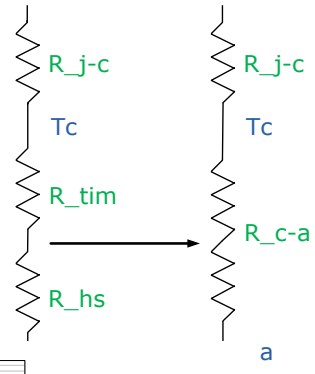
THERMAL DESIGN

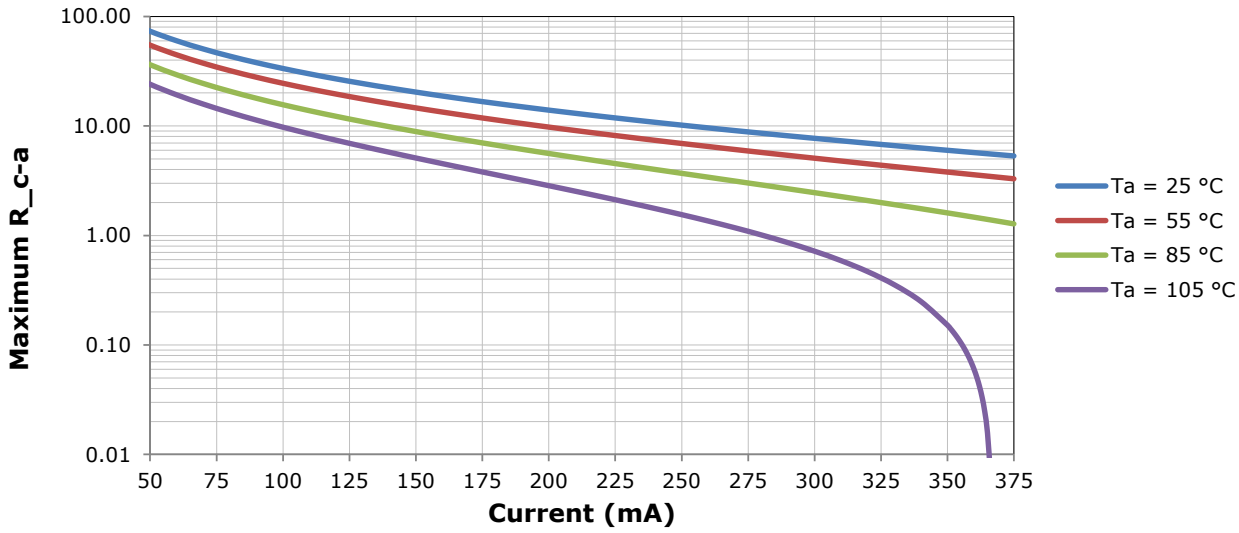
The CXA family of LED arrays can include over a hundred different LED die inside one package, and thus over a hundred different junction temperatures (T_J). Cree has intentionally removed junction-temperature-based operating limits and replaced the commonplace maximum T_J calculations with maximum ratings based on forward current (I_F) and case temperature (Tc). No additional calculations are required to ensure the CXA LED is being operated within its designed limits. Please refer to page 2 for the Operating Limit specification.

Cree has measured the temperature at the bottom of the package, commonly referred to as the solder point (T_{SP}), and found this value to be equivalent to the temperature at the Tc location at the top of the package once the LED has reached thermal equilibrium. There is no need to calculate for T_J inside the package, as the thermal management design process, specifically from T_{SP} to ambient (T_a), remains identical to any other LED component. For more information on thermal management of Cree XLamp LEDs, please refer to the XLamp Thermal Management application note at www.cree.com/xlamp_app_notes/thermal_management. For CXA soldering recommendations and more information on thermal interface materials (TIM) and connection methods, please refer to the Cree XLamp CXA Family LEDs soldering and handling document at www.cree.com/xlamp_app_notes/CXA_SH.

To keep the CXA1507 LED at or below the maximum rated Tc, the case to ambient temperature thermal resistance (R_c-a) must be at or below the maximum R_c-a value shown on the following graph, depending on the operating environment. The y-axis in the graph is a base 10 logarithmic scale.

As the figure at right shows, the R_c-a value is the sum of the thermal resistance of the TIM (R_tim) plus the thermal resistance of the heat sink (R_hs).





NOTES

Lumen Maintenance Projections

Cree now uses standardized IES LM-80-08 and TM-21-11 methods for collecting long-term data and extrapolating LED lumen maintenance. For information on the specific LM-80 data sets available for this LED, refer to the public LM-80 results document at www.cree.com/xlamp_app_notes/LM80_results.

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

RoHS Compliance

The levels of RoHS 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 2011/65/EC (RoHS2), as implemented January 2, 2013. RoHS Declarations for this product can be obtained from your Cree representative or from the Product Documentation sections of www.cree.com.

REACh Compliance

REACh substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact a Cree representative to insure you get the most up-to-date REACh SVHC Declaration. REACh banned substance information (REACh Article 67) is also available upon request.

UL Recognized Component

Level 4 enclosure consideration. The LED package or a portion thereof has been investigated as a fire and electrical enclosure per ANSI/UL 8750.

Vision Advisory Claim

Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.

PACKAGING

Cree CXA1507 LEDs are packaged in trays of 20. Five trays are sealed in an anti-static bag and placed inside a carton, for a total of 100 LEDs per carton. Each carton contains 100 LEDs from the same performance bin.

Dimensions are in inches.
Tolerances:
.x ± .1
.xx ± .05
.xxx ± .005
x° ± 1°