

XLamp® CXB1820 LED



PRODUCT DESCRIPTION

The XLamp® CXB1820 LED Array is a • member of the second generation of the . CXA family that delivers up to 30% higher efficacy and up to 20% higher lumens than the first generation in the same LES. The higher performance second generation · CXA LED Arrays provide a drop-in performance upgrade to existing CXA LED . designs to shorten product development . time. In addition, the CXB LEDs also . allow lighting manufacturers to achieve . the same or better performance with a . smaller LES, enabling a smaller, more impactful luminaire. Available in 2-step, . 3-step and 5-step EasyWhite® bins and . 2-step and 3-step Premium Color bins, the . CXB1820 LED delivers high lumen output . and high efficacy in a single, easy-to-use package that eliminates the need for reflow soldering.

The CX Family LED Design Guide provides basic information on the requirements to use the CXB1820 LED successfully in luminaire designs.

FEATURES

- · 12-mm optical source
- Mechanical and optical design consistent with other CXA18 and CXB18 LEDs with a 12-mm optical source
- Available in 70-, 80-, 90- and 95-minimum CRI options
- EasyWhite® 2-, 3- and 5-step binning
- · Premium Color 2- and 3-step binning
- · Forward voltage option: 36-V class
- 85 °C binning and characterization
- Extremely uniform color over viewing angle
- 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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Cree LED / 4400 Silicon Drive / Durham, NC 27703 USA / +1.919.313.5330 / www.cree-led.com



CHARACTERISTICS

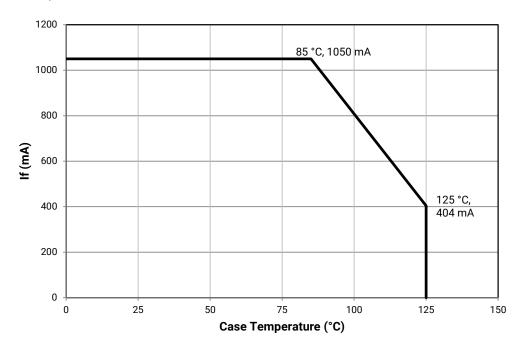
Characteristics	Unit	Minimum	Typical	Maximum
Viewing angle (FWHM)	degrees		115	
ESD withstand voltage (HBM per Mil-Std-883D)	V			8000
DC forward current	mA			1050*
Reverse current	mA			0.1
Forward voltage (@ 550 mA, 85 °C)	V		35	38

^{*} Refer to the Operating Limits section.

OPERATING LIMITS

The maximum current rating of the CXB1820 depends on the case temperature (Tc) when the LED has reached thermal equilibrium under steady-state operation. The graph shown below assumes that the system design employs good thermal management (thermal interface material and heat sink) and may vary when poor thermal management is employed. Please refer to the Mechanical Dimensions section on page 16 for the location of the Tc measurement point.

Another important factor in good thermal management is the temperature of the Light Emitting Surface (LES). Cree LED recommends a maximum LES temperature of 135 °C to ensure optimal LED lifetime. Please refer to the Thermal Design section on page 17 for more information on LES temperature measurement.





FLUX CHARACTERISTICS, EASYWHITE $^{\circ}$ ORDER CODES AND BINS (I_F = 550 mA, T_J = 85 $^{\circ}$ C)

The following table provides order codes for XLamp CXB1820 LEDs. For a complete description of the order code nomenclature, please see the Bin and Order Code Formats section (page 16).

	CF	RI*	Minin	num Lumin	ous Flux		2-Step		3-Step	5-Step	
Nominal CCT	Min	Тур	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C**	Group	Order Code	Group	Order Code	Group	Order Code
			S2	2780	3050						CXB1820-0000- 000N0BS265E
	70		S4	2990	3280					65E	CXB1820-0000- 000N0BS465E
6500 K			T2	3200	3510						CXB1820-0000- 000N0BT265E
	80		S2	2780	3050					65E	CXB1820-0000- 000N0HS265E
	00		S4	2990	3280					UJL	CXB1820-0000- 000N0HS465E
			S2	2780	3050						CXB1820-0000- 000N0BS257E
	70		S4	2990	3280					57E	CXB1820-0000- 000N0BS457E
5700 K			T2	3200	3510						CXB1820-0000- 000N0BT257E
	80		S2	2780	3050					57E	CXB1820-0000- 000N0HS257E
	00		S4	2990	3280					072	CXB1820-0000- 000N0HS457E
			S2	2780	3050						CXB1820-0000- 000N0BS250E
	70		S4	2990	3280					50E	CXB1820-0000- 000N0BS450E
			T2	3200	3510						CXB1820-0000- 000N0BT250E
5000 K	80		S2	2780	3050			50G	CXB1820-0000- 000N0HS250G	50E	CXB1820-0000- 000N0HS250E
	00		S4	2990	3280			300	CXB1820-0000- 000N0HS450G	302	CXB1820-0000- 000N0HS450E
	90	92	R2	2420	2655			50G	CXB1820-0000- 000N0UR250G		
	70	72	R4	2600	2852			300	CXB1820-0000- 000N0UR450G		

- Cree LED 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. See the Measurements section (page 18).
- CXB1820 LED order codes specify only a minimum flux bin and not a maximum. Cree LED 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 bin restrictions specified by the order code.
- * For 80 CRI minimum LEDs, CRI R9 minimum is 0 with a ±2 tolerance. For 90 CRI minimum LEDs, CRI R9 typical is 60.
- ** Flux values @ 25 °C are calculated and for reference only.



FLUX CHARACTERISTICS, EASYWHITE $^{\circ}$ ORDER CODES AND BINS (I $_{\rm F}$ = 550 mA, T $_{\rm J}$ = 85 °C) - CONTINUED

	CF	₹1*	Minin	num Lumin	ous Flux		2-Step		3-Step		5-Step
Nominal CCT	Min	Тур	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C**	Group	Order Code	Group	Order Code	Group	Order Code
			S2	2780	3050						CXB1820-0000- 000N0BS240E
	70		S4	2990	3280					40E	CXB1820-0000- 000N0BS440E
			T2	3200	3510						CXB1820-0000- 000N0BT240E
			R4 260	2600	2852		CXB1820-0000- 000N0HR440H		CXB1820-0000- 000N0HR440G		
4000 K	80		S2	2780	3050	40H	CXB1820-0000- 000N0HS240H	40G	CXB1820-0000- 000N0HS240G		
			S4	2990	3280		CXB1820-0000- 000N0HS440H		CXB1820-0000- 000N0HS440G		
			Q4	2260	2479		CXB1820-0000- 000N0UQ440H		CXB1820-0000- 000N0UQ440G		
	90	92	R2	2420	20 2655 40H CXB1820-0000- 000N0UR240H	CXB1820-0000- 000N0UR240H	40G	CXB1820-0000- 000N0UR240G			
			R4	2600	2852		CXB1820-0000- 000N0UR440H		CXB1820-0000- 000N0UR440G		
	80		R4	2600	2852	35H	CXB1820-0000- 000N0HR435H	35G	CXB1820-0000- 000N0HR435G		
3500 K	00		S2	2780	3050	ээп	CXB1820-0000- 000N0HS235H		CXB1820-0000- 000N0HS235G		
3300 K	90	92	Q4	2260	2479	35H	CXB1820-0000- 000N0UQ435H	35G	CXB1820-0000- 000N0UQ435G		
	90	92	R2	2420	2655	3311	CXB1820-0000- 000N0UR235H	330	CXB1820-0000- 000N0UR235G		
			R2	2420	2655		CXB1820-0000- 000N0HR230H		CXB1820-0000- 000N0HR230G		
	80		R4	2600	2852	30H	CXB1820-0000- 000N0HR430H	30G	CXB1820-0000- 000N0HR430G		
3000 K			S2	2780	3050		CXB1820-0000- 000N0HS230H		CXB1820-0000- 000N0HS230G		
3000 K			Q2	2100	2304		CXB1820-0000- 000N0UQ230H		CXB1820-0000- 000N0UQ230G		
	90	92	Q4	2260	2479	30H	CXB1820-0000- 000N0UQ430H	30G	CXB1820-0000- 000N0UQ430G		
			R2	2420	2655		CXB1820-0000- 000N0UR230H		CXB1820-0000- 000N0UR230G		

- Cree LED 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. See the Measurements section (page 18).
- CXB1820 LED order codes specify only a minimum flux bin and not a maximum. Cree LED 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 bin restrictions specified by the order code.
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- ** Flux values @ 25 °C are calculated and for reference only.



FLUX CHARACTERISTICS, EASYWHITE $^{\circ}$ ORDER CODES AND BINS (I $_{\rm F}$ = 550 mA, T $_{\rm J}$ = 85 °C) - CONTINUED

	CF	CRI*		Minimum Luminous Flux			2-Step		3-Step		5-Step
Nominal CCT	Min	Тур	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C**	Group	Order Code	Group	Order Code	Group	Order Code
	00		R2	2420	2655	0711	CXB1820-0000- 000N0HR227H	270	CXB1820-0000- 000N0HR227G		
	80		R4	2600	2852	27H	CXB1820-0000- 000N0HR427H	27G	CXB1820-0000- 000N0HR427G		
2700 K			P4	1965	2156		CXB1820-0000- 000N0UP427H		CXB1820-0000- 000N0UP427G		
	90	92	Q2	2100	2304	27H	CXB1820-0000- 000N0UQ227H	27G	CXB1820-0000- 000N0UQ227G		
			Q4	2260	2479		CXB1820-0000- 000N0UQ427H		CXB1820-0000- 000N0UQ427G		
2200 K	80		Q4	2260	2479			22G	CXB1820-0000- 000N0HQ422G		

- Cree LED 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. See the Measurements section (page 18).
- CXB1820 LED order codes specify only a minimum flux bin and not a maximum. Cree LED 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 bin restrictions specified by the order code.
- * For 80 CRI minimum LEDs, CRI R9 minimum is 0 with a ±2 tolerance. For 90 CRI minimum LEDs, CRI R9 typical is 60.
- ** Flux values @ 25 °C are calculated and for reference only.



FLUX CHARACTERISTICS, PREMIUM COLOR ORDER CODES AND BINS (I_E = 550 mA, T_I = 85 °C)

Fidelity

	CRI*		Minin	num Lumin	ous Flux	Typical	2-Step		
Nominal CCT	Min	Тур	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C**	Luminous Flux (lm) @ 85 °C	Group	Order Code	
4000 K	95	98	Q2	2100	2304	2297	L5A	CXB1820-0000-000N0ZQ2L5A	
3500 K	95	98	Q2	2100	2304	2212	35H	CXB1820-0000-000N0ZQ235H	
3000 K	95	98	P4	1965	2156	2127	30H	CXB1820-0000-000N0ZP430H	
2700 K	95	98	P2	1830	2007	2006	27H	CXB1820-0000-000N0ZP227H	

Specialty

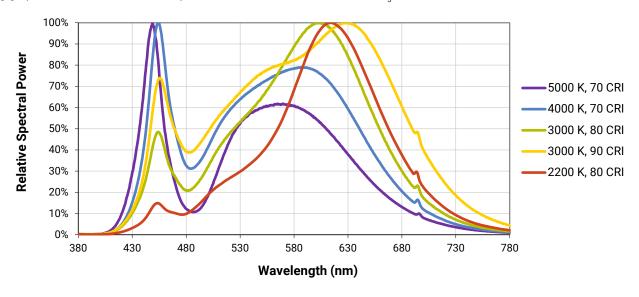
	С	RI	Minir	num Lumin	ous Flux	Typical		2-Step		3-Step				
Nominal CCT	Min	Тур	Group	Flux (lm) @ 85 °C	Flux (lm) @ 25 °C**	Luminous Flux (lm) @ 85 °C	Group	Order Code	Group	Order Code	Group	Order Code		
2100 1/	90	92	N4	1710	1876	0.451			210	CXB1820-0000- 000N0UN431Q				
3100 K	90	92	Q2	2100	2304	2451			31Q	CXB1820-0000- 000N0UQ231Q				
	80		R2	2420	2655	2850	L7B	CXB1820-0000- 000N0HR2L7B						
			P4	1965	2156							CXB1820-0000- 000N0UP430U		
3000 K	90	92	Q2	2100	2304	2451			30Q	CXB1820-0000- 000N0UQ230Q	30U	CXB1820-0000- 000N0UQ230U		
		Q4 2260 2479					CXB1820-0000- 000N0UQ430Q		CXB1820-0000- 000N0UQ430U					
	95	98	P2	1830	2007	2127	L7C	CXB1820-0000- 000N0ZP2L7C						

- Cree LED 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. See the Measurements section (page 18).
- CXB1820 LED order codes specify only a minimum flux bin and not a maximum. Cree LED 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 bin restrictions specified by the order code.
- * For 80 CRI minimum LEDs, CRI R9 minimum is 0 with a ±2 tolerance. For 90 CRI minimum LEDs, CRI R9 typical is 60.
- ** Flux values @ 25 °C are calculated and for reference only.



RELATIVE SPECTRAL POWER DISTRIBUTION, EASYWHITE®

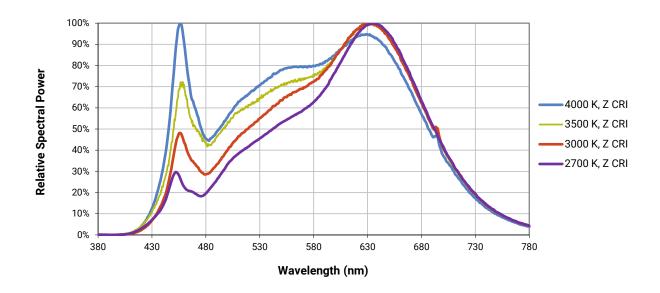
The following graph is the result of a series of pulsed measurements at 550 mA and T₁ = 85 °C.



RELATIVE SPECTRAL POWER DISTRIBUTION, PREMIUM COLOR

The following graphs are the result of a series of pulsed measurements at 550 mA and T_J = 85 °C.

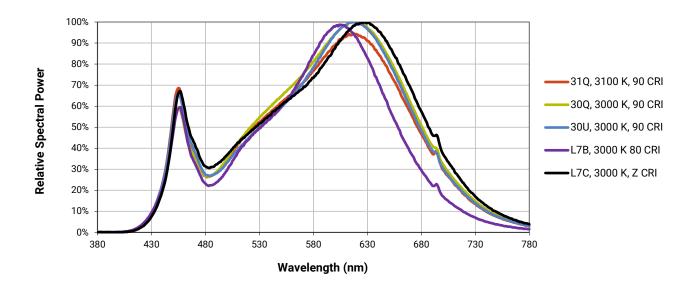
Fidelity





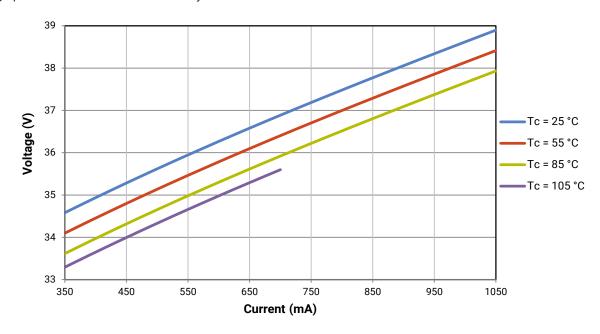
RELATIVE SPECTRAL POWER DISTRIBUTION, PREMIUM COLOR - CONTINUED

Specialty



ELECTRICAL CHARACTERISTICS

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

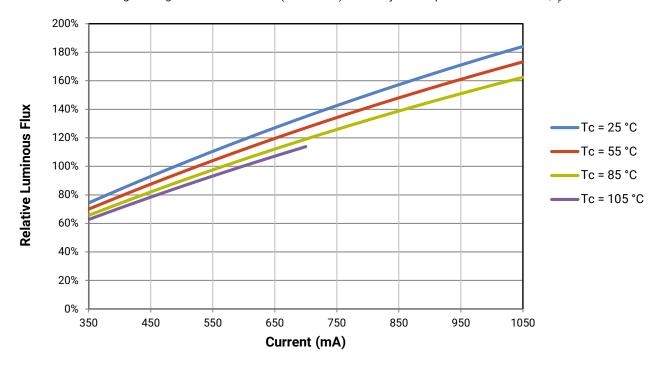




RELATIVE LUMINOUS FLUX

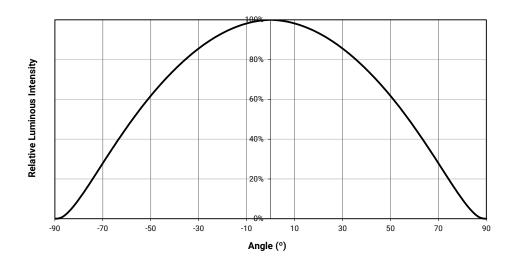
The relative luminous flux values provided below are the ratio of measurements of the CXB1820 LED at steady-state operation at the given conditions, divided by the flux measured during binning, which is a pulsed measurement at 550 mA at $T_1 = 85$ °C.

For example, at steady-state operation of Tc = 55 °C, I_F = 650 mA, the relative luminous flux ratio is 120% in the chart below. A CXB1820 LED that measures 2100 lm during binning will deliver 2520 lm (2100 * 1.2) at steady-state operation of Tc = 55 °C, I_F = 650 mA.





TYPICAL SPATIAL DISTRIBUTION



PERFORMANCE GROUPS - BRIGHTNESS ($I_F = 550 \text{ mA}, T_J = 85 ^{\circ}\text{C}$)

XLamp CXB1820 LEDs are tested for luminous flux and placed into one of the following bins.

Group Code	Minimum Luminous Flux	Maximum Luminous Flux
N4	1710	1830
P2	1830	1965
P4	1965	2100
Q2	2100	2260
Q4	2260	2420
R2	2420	2600
R4	2600	2780
S2	2780	2990
S4	2990	3200
T2	3200	3440
T4	3440	3680



EASYWHITE® PERFORMANCE GROUPS - CHROMATICITY (T_J = 85 °C)

XLamp CXB1820 LEDs are tested for chromaticity and placed into one of the regions defined by the following bounding coordinates.

EasyW	/hite Color Ter	nperatures – :	2-Step
Code	сст	х	у
		0.3777	0.3739
40H	4000 K	0.3797	0.3816
40H	4000 K	0.3861	0.3855
		0.3838	0.3777
		0.4022	0.3858
35H	3500 K	0.4053	0.3942
3311		0.4125	0.3977
		0.4091	0.3891
		0.4287	0.3975
30H	3000 K	0.4328	0.4064
30П	3000 K	0.4390	0.4086
		0.4347	0.3996
		0.4524	0.4048
27H	2700 K	0.4574	0.4140
∠/⊓	2700 K	0.4633	0.4154
		0.4581	0.4062

	EasyWhite Color Temperatures - 3-Step Ellipse											
p: 0 l	сст	Cente	r Point	Major Axis	Minor Axis	Rotation Angle						
Bin Code	CCI	х	у	a	b	(°)						
50G	5000 K	0.3447	0.3553	0.00840	0.00312	65.0						
40G	4000 K	0.3818	0.3797	0.00939	0.00402	53.7						
35G	3500 K	0.4073	0.3917	0.00927	0.00414	54.0						
30G	3000 K	0.4338	0.4030	0.00834	0.00408	53.2						
27G	2700 K	0.4577	0.4099	0.00834	0.00420	48.5						
22G	2200 K	0.5066	0.4158	0.00980	0.00480	45.5						

	EasyWhite Color Temperatures - 5-Step Ellipse											
Bin Code	сст	Cente	r Point	Major Axis	Minor Axis	Rotation Angle						
		х	у	а	b	(°)						
65E	6500 K	0.3123	0.3282	0.01110	0.00550	61.0						
57E	5700 K	0.3287	0.3417	0.01230	0.00600	72.0						
50E	5000 K	0.3447	0.3553	0.01400	0.00520	65.0						
40E	4000 K	0.3818	0.3797	0.01565	0.00670	53.7						



PREMIUM COLOR PERFORMANCE GROUPS - CHROMATICITY ($T_J = 85$ °C)

XLamp CXB1820 LEDs are tested for chromaticity and placed into one of the regions defined by the following bounding coordinates.

Fidelity

EasyW	/hite Color Ter	nperatures – 2	2-Step
Code	сст	х	у
		0.3764	0.3711
LEA	4000 K	0.3784	0.3787
L5A	4000 K	0.3847	0.3826
		0.3825	0.3748
		0.4022	0.3858
35H	3500 K	0.4053	0.3942
3311	3300 K	0.4125	0.3977
		0.4091	0.3891
		0.4287	0.3975
30H	3000 K	0.4328	0.4064
3011	3000 K	0.4390	0.4086
		0.4347	0.3996
		0.4524	0.4048
27H	2700 K	0.4574	0.4140
∠/⊓	2700 K	0.4633	0.4154
		0.4581	0.4062

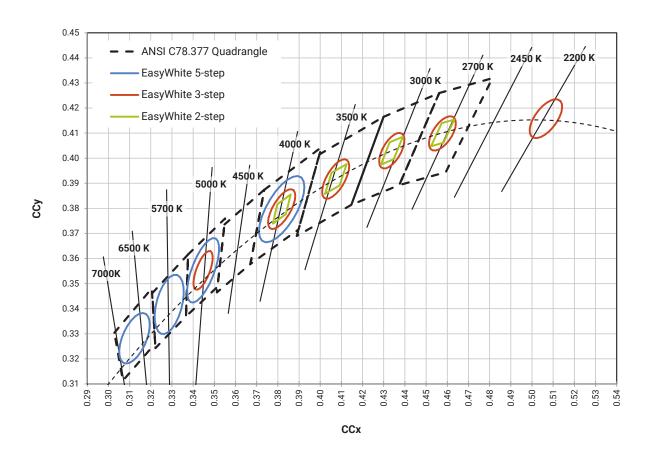
Specialty

EasyWhite Color Temperatures - 2-Step							
Code	сст	х	у				
L7B	3000 K	0.4263	0.3848				
		0.4296	0.3916				
		0.4361	0.3938				
		0.4326	0.3868				
L7C	3000 K	0.4192	0.3754				
		0.4224	0.3823				
		0.4291	0.3847				
		0.4257	0.3777				

EasyWhite Color Temperatures – 3-Step Ellipse								
Bin Code CCT	CCT	Center Point		Major Axis	Minor Axis	Rotation Angle		
	CCI	х	у	а	b	(°)		
31Q	3100 K	0.4236	0.3888	0.00848	0.00455	50.3		
30Q	3000 K	0.4305	0.3935	0.00834	0.00408	53.2		
30U	3000 K	0.4274	0.3837	0.00834	0.00408	53.2		



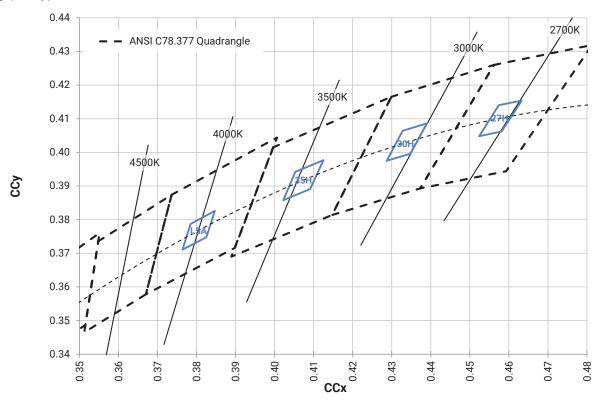
EASYWHITE® BINS PLOTTED ON THE 1931 CIE COLOR SPACE (T₁ = 85 °C)





PREMIUM COLOR BINS PLOTTED ON THE 1931 CIE COLOR SPACE (T, = 85 °C)

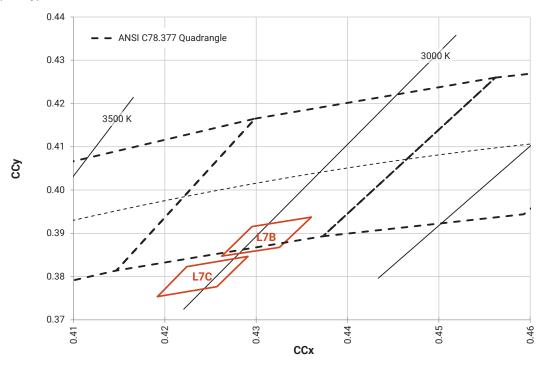
Fidelity (2-step)



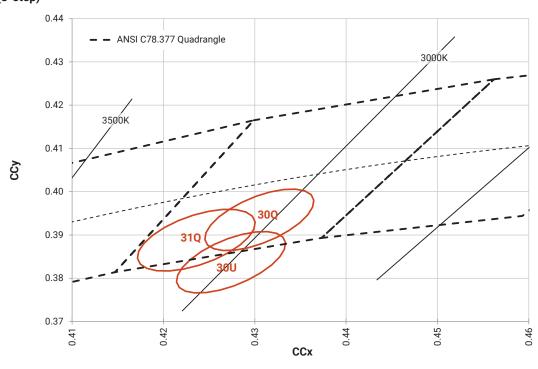


PREMIUM COLOR BINS PLOTTED ON THE 1931 CIE COLOR SPACE (T_J = 85 °C) - CONTINUED

Speciality (2-step)



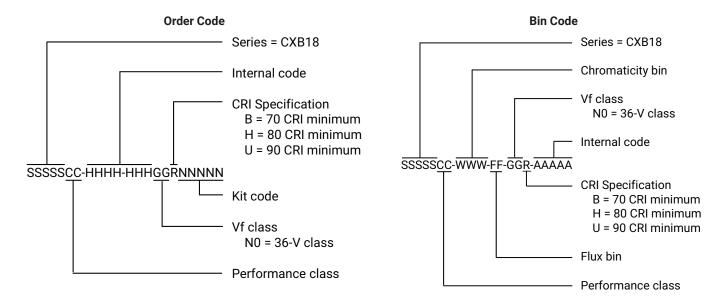
Speciality (3-step)





BIN AND ORDER CODE FORMATS

Bin codes and order codes are configured as follows:

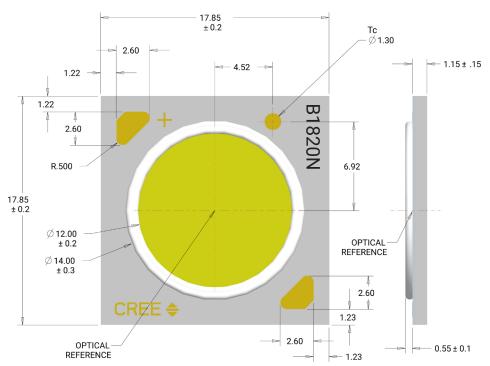


MECHANICAL DIMENSIONS

Dimensions are in mm. Tolerances unless otherwise specified: $\pm .13$ $x^{\circ} \pm 1^{\circ}$

Meaning of B1820N

B1820N = 36-V CXB1820





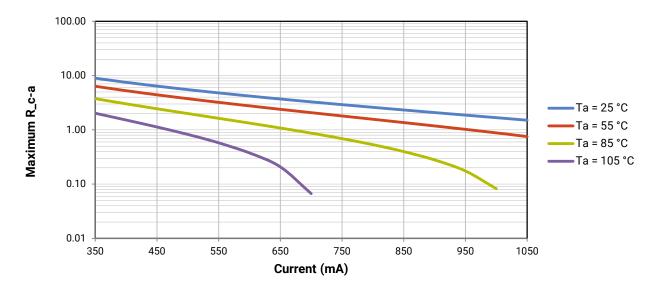
THERMAL DESIGN

The CXB family of LED arrays can include over a hundred different LED die inside one package, and thus over a hundred different junction temperatures (T,). Cree LED has intentionally removed junction-temperature-based operating limits and replaced the commonplace maximum T, calculations with maximum ratings based on forward current (I_E) and case temperature (Tc). No additional calculations are required to ensure that the CXB LED is being operated within its designed limits. LES temperature measurement provides additional verification of good thermal design. Please refer to page 2 for the Operating Limit specifications.

There is no need to calculate for T_{\perp} 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 XLamp LEDs, please refer to the Thermal Management application note. For CXB soldering recommendations and more information on thermal interface materials (TIM), LES temperature measurement, and connection methods, please refer to the XLamp CX Family LEDs soldering and handling document. The CX Family LED Design Guide provides basic information on the requirements to use XLamp CXB LEDs successfully in luminaire designs.

To keep the CXB1820 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

Measurements

The luminous flux, radiant power, chromaticity, forward voltage and CRI measurements in this document are binning specifications only and solely represent product measurements as of the date of shipment. These measurements will change over time based on a number of factors that are not within Cree LED's control and are not intended or provided as operational specifications for the products. Calculated values are provided for informational purposes only and are not intended or provided as specifications.

Pre-Release Qualification Testing

Please read the LED Reliability Overview for details of the qualification process Cree LED applies to ensure long-term reliability for XLamp LEDs and details of Cree LED's pre-release qualification testing for XLamp LEDs.

Lumen Maintenance

Cree LED 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.

Please read the Long-Term Lumen Maintenance application note for more details on Cree LED's lumen maintenance testing and forecasting. Please read the Thermal Management application note 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 LED representative or from the Product Ecology section of the Cree LED website.

REACh Compliance

REACh substances of very 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 LED representative to insure you get the most up-to-date REACh Declaration. REACh banned substance information (REACh Article 67) is also available upon request.

UL® Recognized Component

This product meets the requirements to be considered a UL Recognized Component with 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

WARNING: Do not look at an exposed lamp in operation. Eye injury can result. For more information about LEDs and eye safety, please refer to the LED Eye Safety application note.



Dimensions are in inches.

PACKAGING

CODE, QUANTITY, LOT #

CXB1820 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.

Tolerances: ±.13 x° <u>+</u>1° 7.875 R.375 $\emptyset.75$ 1.125 7.125 → 1.125 PATENT LABEL IS LOCATED ON UNDERSIDE OF CARTON CREE BAG-LABEL WITH CREE BIN LABEL WITH CREE BIN CODE, QUANTITY, LOT #

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cree LED:

CXB1820-0000-000N0UR235H CXB1820-0000-000N0HS465E CXB1820-0000-000N0UR240G CXB1820-0000-000N0HR427H CXB1820-0000-000N0HR440G CXB1820-0000-000N0UR235G CXB1820-0000-000N0HS235G CXB1820-0000-000N0HR430H CXB1820-0000-000N0HS450G CXB1820-0000-000N0HR435G CXB1820-0000-000N0HS250E CXB1820-0000-000N0HS240H CXB1820-0000-000N0HS457E CXB1820-0000-000N0HS250G CXB1820-0000-000N0UQ430H CXB1820-0000-000N0UP427H CXB1820-0000-000N0HR230H CXB1820-0000-000N0UR240H CXB1820-0000-000N0BS257E CXB1820-0000-000N0HS257E CXB1820-0000-000N0BS457E CXB1820-0000-000N0BS440E CXB1820-0000-000N0BS240E CXB1820-0000-000N0UQ227H CXB1820-0000-000N0UR450G CXB1820-0000-000N0HS265E CXB1820-0000-000N0UR440G CXB1820-0000-000N0UR440H CXB1820-0000-000N0BS465E CXB1820-0000-000N0HR227H CXB1820-0000-000N0HS450E CXB1820-0000-000N0UQ435H CXB1820-0000-000N0BS450E CXB1820-0000-000N0BS265E CXB1820-0000-000N0UQ435G CXB1820-0000-000N0BS250E CXB1820-0000-000N0HR440H CXB1820-0000-000N0UR250G CXB1820-0000-000N0HS240G CXB1820-0000-000N0HR435H CXB1820-0000-000N0HS235H CXB1820-0000-000N0UQ230H CXB1820-0000-000N0HR427G CXB1820-0000-000N0UQ430G CXB1820-0000-000N0HR430G CXB1820-0000-000N0UQ230G CXB1820-0000-000N0UQ227G CXB1820-0000-000N0UP427G CXB1820-0000-000N0HR227G CXB1820-0000-000N0HR230G CXB1820-0000-000N0UQ440G CXB1820-0000-000N0UQ440H CXB1820-0000-000N0UQ430Q CXB1820-0000-000N0UP430U CXB1820-0000-000N0UQ230Q CXB1820-0000-000N0UQ230U CXB1820-0000-000N0UQ430U CXB1820-0000-000N0HR2L7B CXB1820-0000-000N0ZP227H CXB1820-0000-000N0ZP2L7C CXB1820-0000-000N0ZP430H CXB1820-0000-000N0ZQ235H CXB1820-0000-000N0ZQ2L5A CXB1820-0000-000N0UQ231Q CXB1820-0000-000N0UR230G CXB1820-0000-000N0UR230H CXB1820-0000-000N0BT265E CXB1820-0000-000N0HS230G CXB1820-0000-000N0BT240E CXB1820-0000-000N0UQ427H CXB1820-0000-000N0HS440H CXB1820-0000-000N0UQ427G CXB1820-0000-000N0BT257E CXB1820-0000-000N0HS440G CXB1820-0000-000N0BT250E CXB1820-0000-000N0HS230H CXB1820-0000-000N0HQ422G