CREE 💠

Cree® J Series™ 2835 LEDs



PRODUCT DESCRIPTION

J Series™ LEDs extend Cree's industry-leading portfolio of lighting-class LEDs to a broader set of applications. The J Series 2835 LEDs combine high efficacy and excellent value in a reliable package. The J Series 2835 Standard LEDs are optimized for low-density lighting applications where high efficacy and smooth appearance are critical, such as downlights, troffers, and panel lights. The J Series 2835 Fidelity LEDs offer high CRI and are optimized for lighting applications where good color quality is critical.

FEATURES

- Industry-compatible size: 2.8 x 3.5 x 0.7 mm
- · 3-V and 6-V configurations
- · Flux binned at 25 °C, chromaticity binned at 85 °C
- 6500 K-2700 K ANSI CCTs available
- 70, 80 & 90 CRI available for all CCTs
- 95 CRI minimum available for 5000 K, 4000 K, 3000 K & 2700 K
- · RoHS and REACh compliant
- UL® recognized component (E495478)

PRODUCT SUMMARY

Product			Typical Forward	4000 K	, 70 CRI	3000 K	Maximum			
Product	Class	Temperature	Current	Voltage Typical Flux		Typical Efficacy	Typical Flux	Typical Efficacy	Current	
JE2835 3-V Standard	0.5 W	25 °C	150 mA	3 V	80 lm	178 LPW	72 lm	160 LPW	240 mA	
JK2835 6-V Standard	1 W	25 °C	150 mA	6 V	156 lm	173 LPW	143 lm	159 LPW	200 mA	



J Series[™] Products are sold exclusively by Cree Venture LED Company Limited ("Cree Venture"), regardless of geography. Any orders for J Series Products that are submitted to Cree, Inc. or any of its other subsidiaries will be directed to Cree Venture for acknowledgement and order fulfillment.



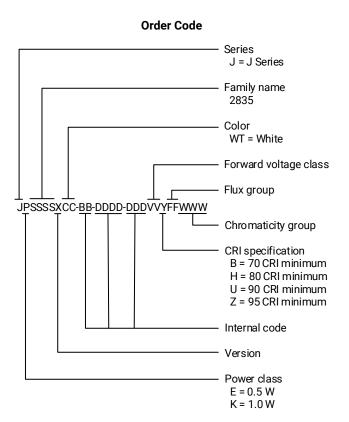
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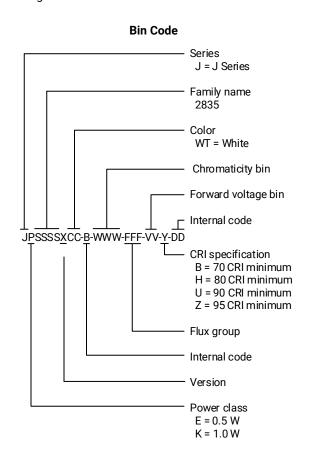
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ORDER CODE & BIN CODE FORMATS

Order codes and bin codes for J Series 2835 LEDs are configured in the following manner:





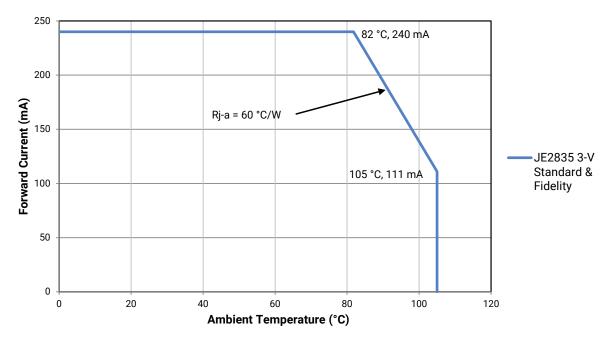


CHARACTERISTICS - JE2835 3-V STANDARD

Characteristics	Unit	Minimum	Typical	Maximum
Thermal resistance, junction to solder point	°C/W		20	
Viewing angle (FWHM)	degrees		120	
Temperature coefficient of voltage	mV/°C		-0.9	
ESD withstand voltage (JEDEC JS-001-2012)	V		Class 2	
DC forward current	mA			240
Reverse voltage	V			5
Forward voltage (@ 150 mA, 25 °C)	V		3.0	3.3
LED junction temperature	°C			125
Operating temperature	°C	-40		105

OPERATING LIMITS - JE2835 3-V STANDARD

The maximum forward current is determined by the thermal resistance between the LED junction and ambient.





FLUX CHARACTERISTICS, ORDER CODES AND BINS - JE2835 3-V STANDARD ($I_F = 150$ mA, $T_i = 25$ °C)

The following table provides order codes for J Series 2835 Standard LEDs. For a complete description of the order code nomenclature, please see the Order Code and Bin Code Formats section (page 3). For definitions of the chromaticity kits, please see the Performance Groups - Chromaticity section (page 16).

Nominal CCT	Minimum CRI [¢]	Flux Group	Minimum Flux (lm) @ 25 °C	Typical Flux (lm) @ 25 °C	Typical Flux (lm) @ 85 °C*	Order Code
6500 K	70	H6	72	80	71	JE2835AWT-00-0000-000A0BH665E
	80	G9	69	76	67	JE2835AWT-00-0000-000A0HG965E
	90	F9	57	64	57	JE2835AWT-00-0000-000A0UF965E
	70	H6	72	80	71	JE2835AWT-00-0000-000A0BH657E
5700 K	80	G9	69	76	67	JE2835AWT-00-0000-000A0HG957E
	90	F9	57	64	57	JE2835AWT-00-0000-000A0UF957E
	70	H6	72	80	71	JE2835AWT-00-0000-000A0BH650E
5000 K	80	G9	69	76	67	JE2835AWT-00-0000-000A0HG950E
	90	F9	57	64	57	JE2835AWT-00-0000-000A0UF950E
	70	H6	72	80	71	JE2835AWT-00-0000-000A0BH645E
4500 K	80	G9	69	76	67	JE2835AWT-00-0000-000A0HG945E
	90	F9	57	64	57	JE2835AWT-00-0000-000A0UF945E
	70	H6	72	80	71	JE2835AWT-00-0000-000A0BH640E
4000 K	80	G9	69	76	67	JE2835AWT-00-0000-000A0HG940E
	90	F9	57	64	57	JE2835AWT-00-0000-000A0UF940E
	70	G9	69	78	69	JE2835AWT-00-0000-000A0BG935E
3500 K	80	G8	66	74	66	JE2835AWT-00-0000-000A0HG835E
	90	F8	54	62	55	JE2835AWT-00-0000-000A0UF835E
	70	G9	69	76	67	JE2835AWT-00-0000-000A0BG930E
3000 K	80	G8	66	72	64	JE2835AWT-00-0000-000A0HG830E
	90	F8	54	60	53	JE2835AWT-00-0000-000A0UF830E
	70	G8	66	73	65	JE2835AWT-00-0000-000A0BG827E
2700 K	80	G7	63	69	61	JE2835AWT-00-0000-000A0HG727E
	90	F8	54	57	51	JE2835AWT-00-0000-000A0UF827E

Notes:

- Cree Venture maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and ±2 on CRI measurements. See the Measurements section (page 26).
- Cree Venture J Series 2835 LED order codes specify only a minimum flux bin and not a maximum. Cree Venture 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 restrictions specified by the order code.
- ♦ CRI R9 minimum is 0 for 80 CRI minimum LEDs, 50 for 90 CRI minimum LEDs, and 80 for 95 CRI minimum LEDs, with a ±3 tolerance.
- * Flux values @ 85 °C are calculated and for reference only.



FLUX CHARACTERISTICS, ORDER CODES AND BINS (FIDELITY) - JE2835 3-V STANDARD (I_E = 150 mA, T_i = 25 °C)

The following table provides order codes for J Series 2835 Fidelity LEDs. For a complete description of the order code nomenclature, please see the Order Code and Bin Code Formats section (page 3). For definitions of the chromaticity kits, please see the Performance Groups - Chromaticity section (page 16).

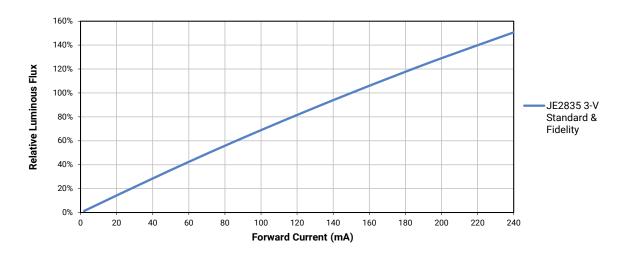
Nominal CCT	Minimum CRI [¢]	Flux Group	Minimum Flux (lm) @ 25 °C	Typical Flux (lm) @ 25 °C	Typical Flux (lm) @ 85 °C*	Order Code
5000 K	95	F9	57	60	53	JE2835AWT-00-0000-000A0ZF950E
4000 K	95	F9	57	60	53	JE2835AWT-00-0000-000A0ZF940E
3000 K	95	F7	51	55	49	JE2835AWT-00-0000-000A0ZF730E
2700 K	95	F6	48	50	44	JE2835AWT-00-0000-000A0ZF627E

Notes:

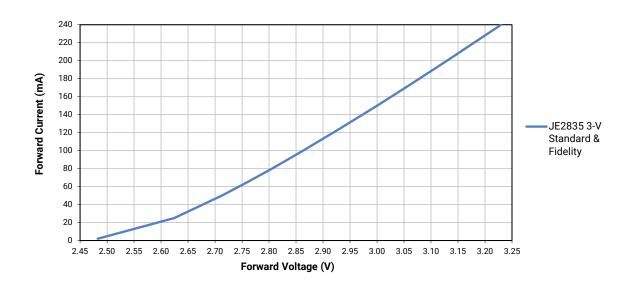
- Cree Venture maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and ±2 on CRI measurements. See the Measurements section (page 26).
- Cree Venture J Series 2835 LED order codes specify only a minimum flux bin and not a maximum. Cree Venture may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity restrictions specified by the order code.
- ♦ CRI R9 minimum is 0 for 80 CRI minimum LEDs, 50 for 90 CRI minimum LEDs, and 80 for 95 CRI minimum LEDs, with a ±3 tolerance.
- * Flux values @ 85 °C are calculated and for reference only.



RELATIVE LUMINOUS FLUX VS. CURRENT - JE2835 3-V STANDARD

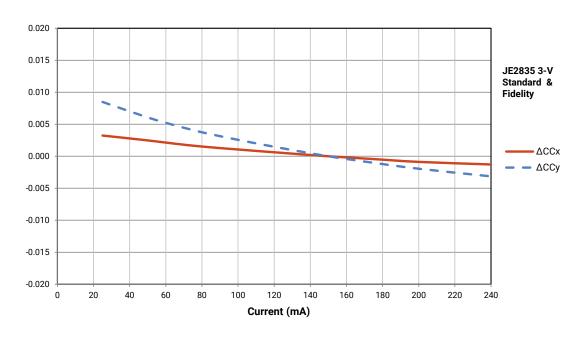


ELECTRICAL CHARACTERISTICS - JE2835 3-V STANDARD

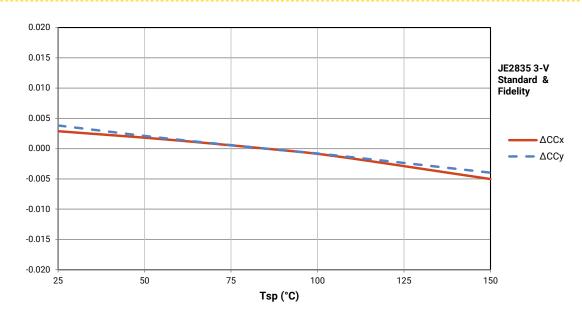




RELATIVE CHROMATICITY VS. CURRENT - JE2835 3-V STANDARD



RELATIVE CHROMATICITY VS. TEMPERATURE - JE2835 3-V STANDARD



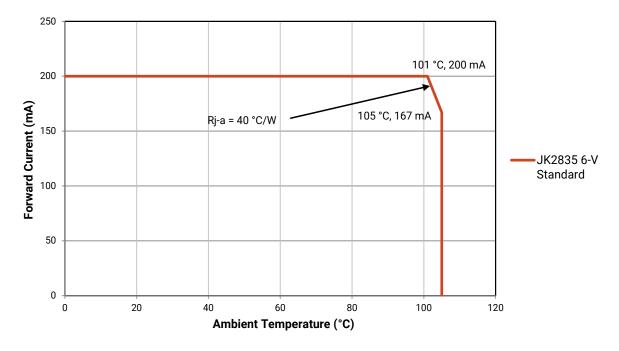


CHARACTERISTICS - JK2835 6-V STANDARD

Characteristics	Unit	Minimum	Typical	Maximum
Thermal resistance, junction to solder point	°C/W		12	
Viewing angle (FWHM)	degrees		120	
Temperature coefficient of voltage	mV/°C		-1.7	
ESD withstand voltage (JEDEC JS-001-2012)	V		Class 2	
DC forward current	mA			200
Reverse voltage	V			5
Forward voltage (@ 150 mA, 25 °C)	V		6	6.6
LED junction temperature	°C			125
Operating temperature	°C	-40		105

OPERATING LIMITS - JK2835 6-V STANDARD

The maximum forward current is determined by the thermal resistance between the LED junction and ambient.





FLUX CHARACTERISTICS, ORDER CODES AND BINS - JK2835 6-V STANDARD ($I_F = 150$ mA, $T_i = 25$ °C)

The following table provides order codes for J Series 2835 Standard LEDs. For a complete description of the order code nomenclature, please see the Order Code and Bin Code Formats section (page 3). For definitions of the chromaticity kits, please see the Performance Groups - Chromaticity section (page 16).

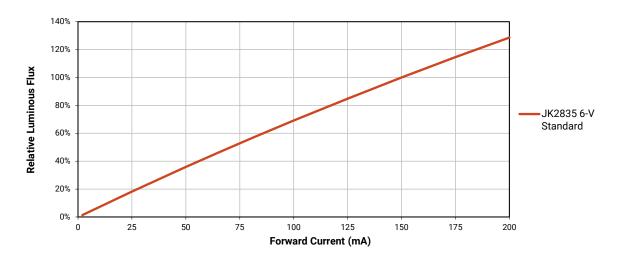
Nominal CCT	Minimum CRI ⁰	Flux Group	Minimum Flux (lm) @ 25 °C	Typical Flux (lm) @ 25 °C	Typical Flux (lm) @ 85 °C*	Order Code
	70	N2	140	156	138	JK2835AWT-00-0000-000B0BN265E
6500 K	80	M2	130	151	133	JK2835AWT-00-0000-000B0HM265E
	90	K2	110	128	113	JK2835AWT-00-0000-000B0UK265E
	70	N2	140	156	138	JK2835AWT-00-0000-000B0BN257E
5700 K	80	M2	130	151	133	JK2835AWT-00-0000-000B0HM257E
	90	K2	110	128	113	JK2835AWT-00-0000-000B0UK257E
	70	N2	140	156	138	JK2835AWT-00-0000-000B0BN250E
5000 K	80	M2	130	151	133	JK2835AWT-00-0000-000B0HM250E
	90	K2	110	128	113	JK2835AWT-00-0000-000B0UK250E
	70	N2	140	156	138	JK2835AWT-00-0000-000B0BN245E
4500 K	80	M2	130	151	133	JK2835AWT-00-0000-000B0HM245E
	90	K2	110	128	113	JK2835AWT-00-0000-000B0UK245E
	70	N2	140	156	138	JK2835AWT-00-0000-000B0BN240E
4000 K	80	M2	130	151	133	JK2835AWT-00-0000-000B0HM240E
	90	K2	110	128	113	JK2835AWT-00-0000-000B0UK240E
	70	M4	135	152	134	JK2835AWT-00-0000-000B0BM435E
3500 K	80	L4	125	147	130	JK2835AWT-00-0000-000B0HL435E
	90	J4	105	124	110	JK2835AWT-00-0000-000B0UJ435E
	70	M4	135	148	131	JK2835AWT-00-0000-000B0BM430E
3000 K	80	L4	125	143	126	JK2835AWT-00-0000-000B0HL430E
	90	J4	105	121	107	JK2835AWT-00-0000-000B0UJ430E
	70	M2	130	142	126	JK2835AWT-00-0000-000B0BM227E
2700 K	80	L2	120	137	121	JK2835AWT-00-0000-000B0HL227E
	90	J4	105	116	103	JK2835AWT-00-0000-000B0UJ427E

Notes:

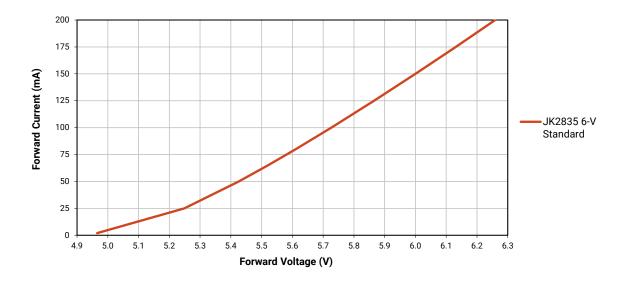
- Cree Venture maintains a tolerance of ±7% on flux and power measurements, ±0.005 on chromaticity (CCx, CCy) measurements and ±2 on CRI measurements. See the Measurements section (page 26).
- Cree Venture J Series 2835 LED order codes specify only a minimum flux bin and not a maximum. Cree Venture may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity restrictions specified by the order code.
- ♦ CRI R9 minimum is 0 for 80 CRI minimum LEDs, 50 for 90 CRI minimum LEDs, and 80 for 95 CRI minimum LEDs, with a ±3 tolerance.
- * Flux values @ 85 °C are calculated and for reference only.



RELATIVE LUMINOUS FLUX VS. CURRENT - JK2835 6-V STANDARD

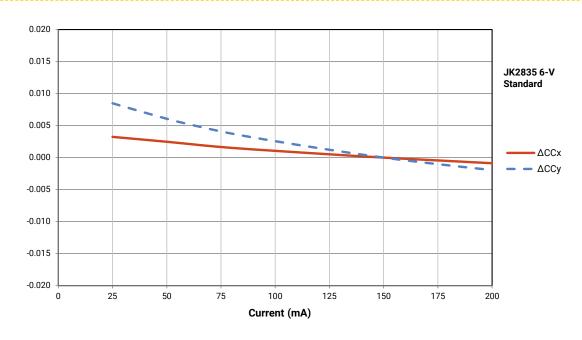


ELECTRICAL CHARACTERISTICS - JK2835 6-V STANDARD

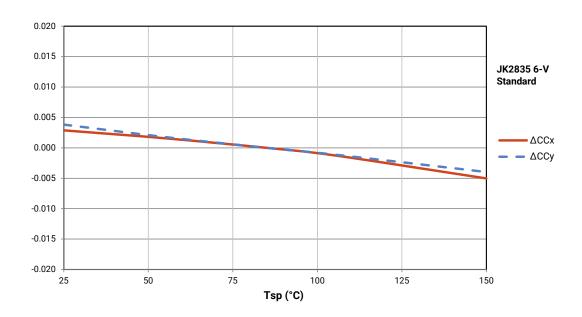




RELATIVE CHROMATICITY VS. CURRENT - JK2835 6-V STANDARD

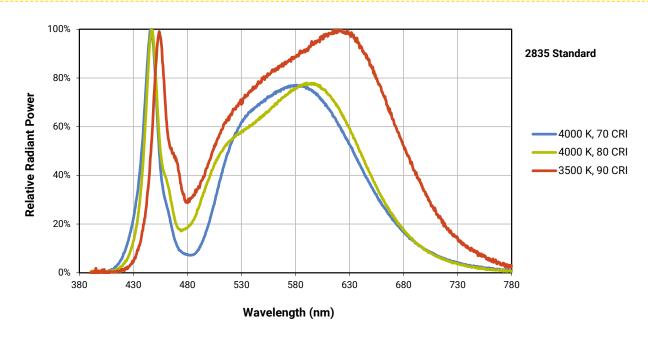


RELATIVE CHROMATICITY VS. TEMPERATURE - JK2835 6-V STANDARD

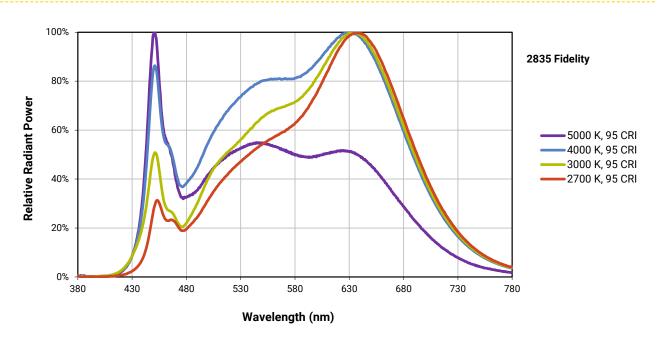




RELATIVE SPECTRAL POWER DISTRIBUTION - STANDARD

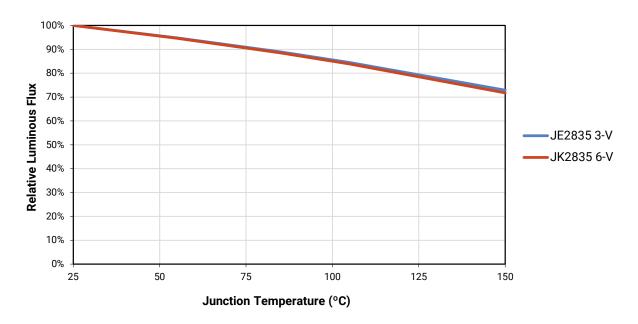


RELATIVE SPECTRAL POWER DISTRIBUTION - FIDELITY

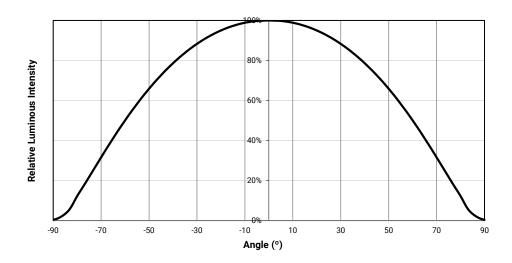




RELATIVE LUMINOUS FLUX VS. JUNCTION TEMPERATURE



TYPICAL SPATIAL DISTRIBUTION





PERFORMANCE GROUPS - LUMINOUS FLUX (T, = 25 °C)

J Series JE2835 3-V Standard & Fidelity LEDs are tested for luminous flux at 150 mA and placed into one of the following luminous-flux groups.

Group Code	Minimum Luminous Flux (lm)	Maximum Luminous Flux (lm)
F6	48	51
F7	51	54
F8	54	57
F9	57	60
G6	60	63
G7	63	66
G8	66	69
G9	69	72
H6	72	75
H7	75	78
H8	78	81
H9	81	84
K6	84	87
K 7	87	90

J Series JK2835 6-V Standard LEDs are tested for luminous flux at 150 mA and placed into one of the following luminous-flux groups.

Group Code	Minimum Luminous Flux (lm)	Maximum Luminous Flux (lm)
J2	100	105
J4	105	110
K2	110	115
K4	115	120
L2	120	125
L4	125	130
M2	130	135
M4	135	140
N2	140	145
N4	145	150
P2	150	155
P4	155	160
Q2	160	165
Q4	165	170



PERFORMANCE GROUPS - FORWARD VOLTAGE (T, = 25 °C)

J Series 2835 LEDs are tested for forward voltage and placed into one of the following voltage bins.

The following voltage bins are indicated in the Forward Voltage Bin field in the bin code for JE2835 3-V Standard & Fidelity LEDs.

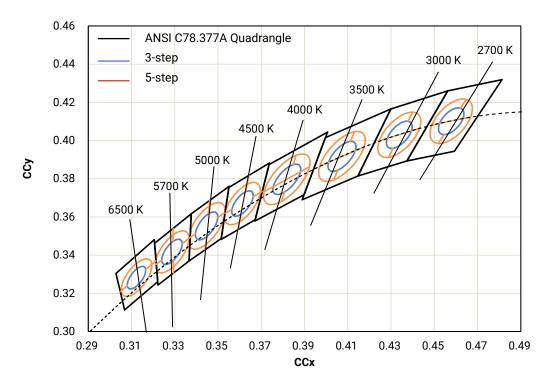
Voltage Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
AF	2.9	3.0
AG	3.0	3.1
AH	3.1	3.2
AJ	3.2	3.3

The following voltage bins are indicated in the Forward Voltage Bin field in the bin code for JK2835 6-V Standard LEDs.

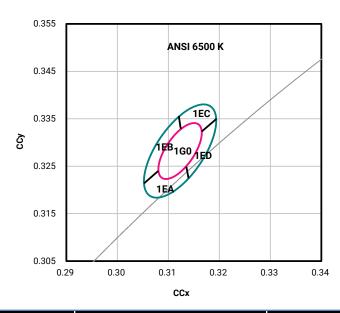
Voltage Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
BP	5.8	6.0
BQ	6.0	6.2
BR	6.2	6.4

PERFORMANCE GROUPS - CHROMATICITY

J Series 2835 LEDs are tested for chromaticity and placed into one of the regions defined by the following bounding coordinates.

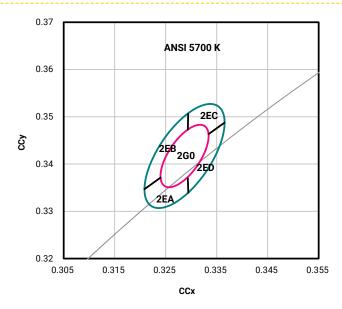






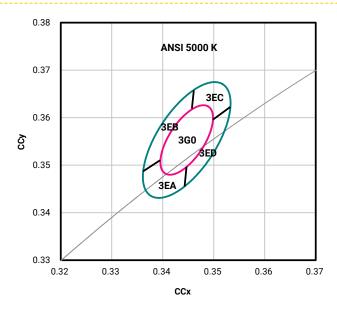
CCT MacAdam Ellipse		Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)
CCI	MacAdam Empse	included bills	x	у	а	b	Rotation Angle ()
	3-step	1G0	0.3123	0.3282	0.00669	0.00285	58.57
6500 K	5-step	1G0, 1EA, 1EB, 1EC, 1ED	0.3123	0.3282	0.01115	0.00475	58.57





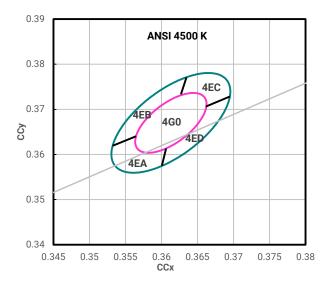
CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
	iviacAdam Empse	included bins	х	у	а	b	Rotation Angle ()
	3-step	2G0	0.3287	0.3417	0.00746	0.00320	59.09
5700 K	5-step	2G0, 2EA, 2EB, 2EC, 2ED	0.3287	0.3417	0.01243	0.00533	59.09





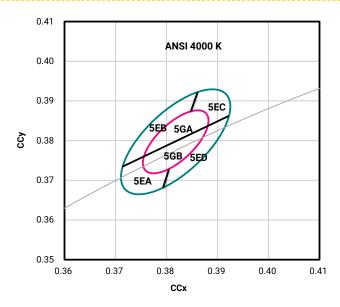
CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
	MacAdam Empse	included bins	х	у	а	b	Rotation Angle ()
	3-step	3G0	0.3447	0.3553	0.00822	0.00354	59.62
5000 K	5-step	3G0, 3EA, 3EB, 3EC, 3ED	0.3447	0.3553	0.01370	0.00590	59.62





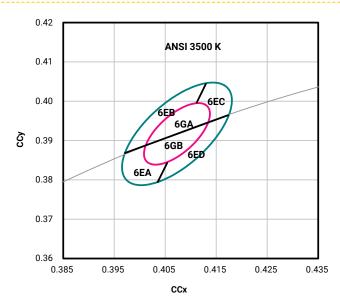
CCT MacAdam Ellipse	Included Dine	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
CCI	MacAdam Empse	acAdam Ellipse Included Bins	x	у	а	b	Rotation Angle ()
	3-step	4G0	0.3613	0.3670	0.00756	0.00338	57.58
4500 K	5-step	4G0, 4EA, 4EB, 4EC, 4ED	0.3613	0.3670	0.01260	0.00563	57.58





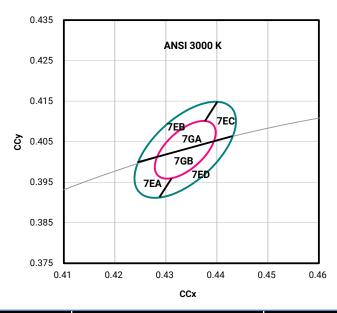
CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
	MacAdam Empse	e included bins	х	у	а	b	Rotation Angle ()
	3-step	5GA, 5GB	0.3818	0.3797	0.00939	0.00402	53.72
4000 K	5-step	5GA, 5GB, 5EA, 5EB, 5EC, 5ED	0.3818	0.3797	0.01565	0.00670	53.72





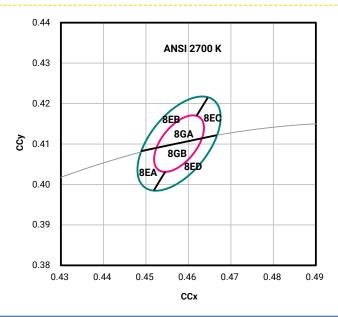
CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
	MacAdam Empse	included bins	х	у	а	b	Rotation Angle ()
	3-step	6GA, 6GB	0.4073	0.3917	0.00927	0.00414	53.22
3500 K	5-step	6GA, 6GB, 6EA, 6EB, 6EC, 6ED	0.4073	0.3917	0.01545	0.00690	53.22





CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
	MacAdam Empse	included bins	х	у	а	b	Rotation Angle ()
	3-step	7GA, 7GB	0.4338	0.4030	0.00834	0.00408	53.22
3000 K	5-step	7GA, 7GB, 7EA, 7EB, 7EC, 7ED	0.4338	0.4030	0.01390	0.00680	53.22





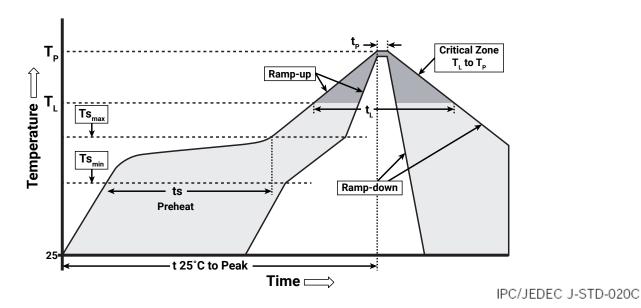
CCT MacAdam Ellipse	Included Bins	Center Point		Major Axis	Minor Axis	Rotation Angle (°)	
CCI	MacAdam Empse	Adam Ellipse Included Bins	х	у	а	b	Rotation Angle ()
	3-step	8GA, 8GB	0.4578	0.4101	0.00810	0.00420	53.70
2700 K	5-step	8GA, 8GB, 8EA, 8EB, 8EC, 8ED	0.4578	0.4101	0.01350	0.00700	53.70



REFLOW SOLDERING CHARACTERISTICS

In testing, Cree Venture has found J Series 2835 LEDs to be compatible with JEDEC J-STD-020C, using the parameters listed below. As a general guideline, Cree Venture recommends that users follow the recommended soldering profile provided by the manufacturer of the solder paste used, and therefore it is the lamp or luminaire manufacturer's responsibility to determine applicable soldering requirements.

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



Profile Feature Lead-Free Solder Temperature Min. (Ts_{min}) 150 °C Temperature Max. (Ts_{max}) 200 °C Time (ts) from Ts_{min} to Ts_{max} 60-120 seconds 3 °C/second Ramp-Up Rate (T, to T_p) 217 °C Liquidus Temperature (T,) Time (t,) Maintained Above T, 60-150 seconds Peak Package Body Temperature (Tp) 260 °C max. Time (tp) Within 5 °C of the Specified Classification Temperature (Tc) 30 seconds max. Ramp-Down Rate (T_n to T₁) 6 °C/second max. Time 25 °C to Peak Temperature 8 minutes max.

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



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 Venture'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 J Series Reliability Overview for the details of the pre-release qualification testing for J Series LEDs.

Lumen Maintenance

Cree Venture 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 J Series LM-80 results document.

Please read the Thermal Management application note for details on how thermal design, ambient temperature, and drive current affect the LED junction temperature.

Moisture Sensitivity

Cree Venture recommends keeping J Series 2835 LEDs in the provided, resealable moisture-barrier packaging (MBP) until immediately prior to soldering. Unopened MBP that contains J Series 2835 LEDs does not need special storage for moisture sensitivity.

Once the MBP is opened, J Series 2835 LEDs should be handled and stored as MSL 3 per JEDEC J-STD-033, meaning they have limited exposure time before damage to the LED may occur during the soldering operation. The table on the right specifies the maximum exposure time in days depending on temperature and humidity conditions. LEDs with exposure time longer than the specified maximums must be baked according to the baking conditions listed below.

Moisture	_	Maximum Percent Relative Humidity						
Sensitivity Level	Temp.	50%	60%	70%	80%	90%		
Level 3	35 °C	8	5	1	0.5	0.5		
Level 3	30 °C	11	7	1	1	1		
Level 3	25 °C	14	10	2	1	1		
Level 3	20 °C	20	13	2	1	1		

Baking Conditions

It is not necessary to bake all J Series 2835 LEDs. Only the LEDs that meet all of the following criteria must be baked:

- 1. LEDs that have been removed from the original MBP.
- 2. LEDs that have been exposed to a humid environment longer than listed in the Moisture Sensitivity section above.
- LEDs that have not been soldered.

LEDs should be baked at 60 °C for 24 hours. LEDs may be baked in the original reels. Remove LEDs from the MBP before baking. Do not bake parts at temperatures higher than 60 °C. This baking operation resets the exposure time as defined in the Moisture Sensitivity section above.



NOTES - CONTINUED

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 Ecology section of the Cree 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 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

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

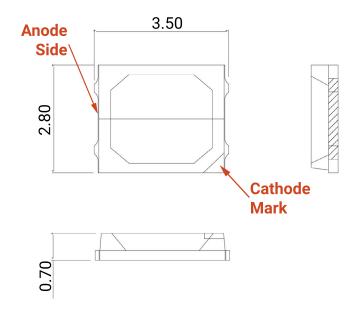
WARNING: Do not look at an exposed lamp in operation. Eye injury can result. For more information about LEDs and eye safety, please refer to the J Series LED Eye Safety application note.

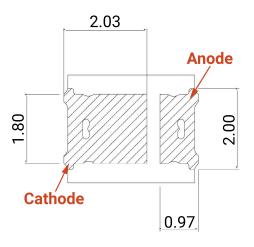


MECHANICAL DIMENSIONS

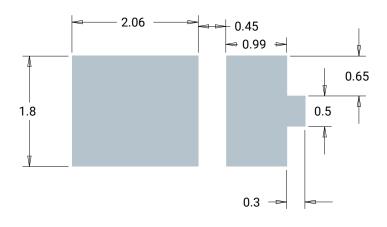
Thermal vias, if present, are not shown on these drawings.

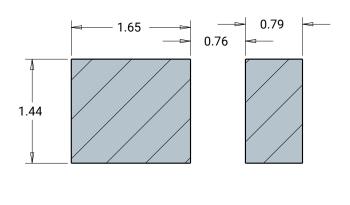
All measurements are ±0.2 mm unless otherwise indicated.





All measurements are ±0.1 mm unless otherwise indicated.





Recommended Solder Pad

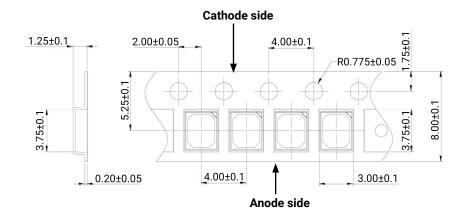
Recommended Stencil Pattern (Hatched Area Is Open)

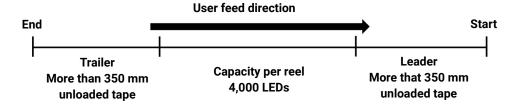


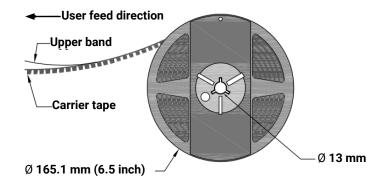
TAPE & REEL

All Cree Venture carrier tapes conform to EIA-481D, Automated Component Handling Systems Standard.

All dimensions in mm.



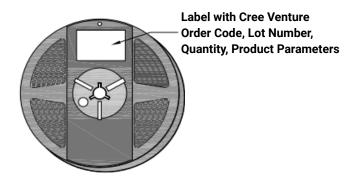




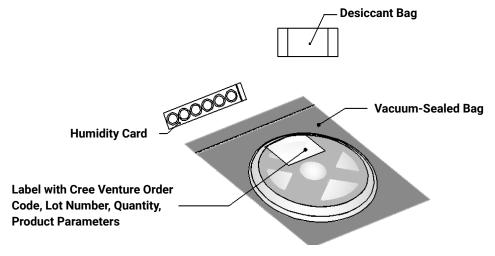


PACKAGING

Unpackaged Reel



Packaged Reel





PACKAGING - CONTINUED

J Series 2835 LEDs are packaged in boxes for shipment. Box sizes and the number of reels per box are as follows.

Вох	Box Dimensions	Number of Reels per Box
1	250 x 210 x 30 mm	2
2	250 x 210 x 50 mm	4
3	530 x 230 x 275 mm	44
4	530 x 443 x 275 mm	88

Each box has at least one label (shown as a white square in the diagrams below) showing the order code, lot number, quantity, and product parameters.

CREE I MOTOR CONTINUE AND CONTI

Box 1

Box 3

CREET BEATTREE CONTROLLES

PAGE TO MAN CONTROLL

