

Cree® J Series® 2835 LED Product Change Notification

Customer Name: Cree® J Series® 2835 LED Customers

PCN Reference Number: CVL-PCN-2006

Date Issued: October 27, 2020

Please be advised that Cree has qualified a Minor Change to the J Series® 2835 LEDs which does not impact their form, fit, function, or reliability, and Cree will begin shipping the affected products with the change immediately after the PCN Issue Date.

Please review the additional PCN information below.

Affected Product

Table 1 provides a list of products affected by this Minor change:

Table 1: Affected Products List

Product	Cree Part Number
JB2835B 3-V G Class	JB2835BWT-G-xxxxAxxxx-xxxxxxxxx
JB2835B 3-V J Class	JB2835BWT-J-xxxxAxxxx-xxxxxxxxx
JE2835B 3-V N Class	JE2835BWT-N-xxxxAxxxx-xxxxxxxxx
JE2835B 3-V P Class	JE2835BWT-P-xxxxAxxxx-xxxxxxxxx
JE2835 3-V R Class	JE2835AWT-R-xxxxAxxxx-xxxxxxxxx
JB2835 3-V W Class	JB2835AWT-W-xxxxAxxxx-xxxxxxxxx
JK2835 6-V P Class	JK2835AWT-P-xxxxBxxxx-xxxxxxxxx
JK2835B 9-V W Class	JK2835BWT-W-xxxxCxxxx-xxxxxxxxx
JK2835 18-V X Class	JK2835AWT-X-xxxxFxxxx-xxxxxxxxx

Description of the Change

Cree will be changing the minimum and typical flux for the JB2835, JB2835B, JE2835, JE2835B, JK2835, JK2835B LEDs. Table 2 to Table 10 shows the new and current values.

Table 2: New and Current Flux Values for JB2835B 3-V G Class (JB2835BWT-G-xxxxAxxxx-xxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	29	30.5	28.4	27	29.8
70 CRI, 3000 K	29	31.5	29.3	29	31
70 CRI, 3500 K	31	32.5	30.2	29	32
70 CRI, 4000 K	31	33.5	31.1	31	32.9
70 CRI, 5000 K	31	33.5	31.1	31	32.9
70 CRI, 5700 K	31	33.5	31.1	31	32.9
70 CRI, 6500 K	31	33.5	31.1	31	32.9
80 CRI, 2700 K	27	28.8	26.8	27	28.6
80 CRI, 3000 K	27	29.9	27.8	27	29.7
80 CRI, 3500 K	29	30.9	28.7	29	30.7
80 CRI, 4000 K	29	31.8	29.6	29	31.5
80 CRI, 5000 K	29	31.8	29.6	29	31.5
80 CRI, 5700 K	29	31.8	29.6	29	31.5
80 CRI, 6500 K	29	31.8	29.6	29	31.5
90 CRI, 2700 K	23	24.5	22.8	21	24.1
90 CRI, 3000 K	23	25.5	23.7	23	25.1
90 CRI, 3500 K	25	26.4	24.5	23	26
90 CRI, 4000 K	25	27.3	25.4	25	26.7
90 CRI, 5000 K	25	27.3	25.4	25	26.7
90 CRI, 5700 K	25	27.3	25.4	25	26.7
90 CRI, 6500 K	25	27.3	25.4	25	26.7

Table 3: New and Current Flux Values for JB2835B 3-V J Class (JB2835BWT-J-xxxxAxxxx-xxxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	27	29.7	27.7	27	29.2
70 CRI, 3000 K	29	30.7	28.6	29	30.4
70 CRI, 3500 K	29	31.7	29.6	29	31.4
70 CRI, 4000 K	31	32.7	30.5	31	32.3
70 CRI, 5000 K	31	32.7	30.5	31	32.3
70 CRI, 5700 K	31	32.7	30.5	31	32.3
70 CRI, 6500 K	31	32.7	30.5	31	32.3
80 CRI, 2700 K	27	28	26.1	27	28
80 CRI, 3000 K	27	29.1	27.2	27	29.1
80 CRI, 3500 K	29	30.1	28.1	29	30.1
80 CRI, 4000 K	29	31	28.9	29	30.9
80 CRI, 5000 K	29	31	28.9	29	30.9
80 CRI, 5700 K	29	31	28.9	29	30.9
80 CRI, 6500 K	29	31	28.9	29	30.9
90 CRI, 2700 K	21	23.7	22.1	21	23.5
90 CRI, 3000 K	23	24.8	23.1	23	24.8
90 CRI, 3500 K	23	25.6	23.9	23	25.4
90 CRI, 4000 K	25	26.5	24.7	25	26.1
90 CRI, 5000 K	25	26.5	24.7	25	26.1
90 CRI, 5700 K	25	26.5	24.7	25	26.1
90 CRI, 6500 K	25	26.5	24.7	25	26.1

Table 4: New and Current Flux Values for JE2835B 3-V N Class (JE2835BWT-N-xxxxAxxxx-xxxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	72	75	67.9	72	75
70 CRI, 3000 K	75	79	71.5	75	79
70 CRI, 3500 K	78	80	72.4	78	80
70 CRI, 4000 K	81	83	75.1	81	83
70 CRI, 5000 K	81	83	75.1	81	83
70 CRI, 5700 K	81	83	75.1	81	83
70 CRI, 6500 K	78	83	75.1	78	83
80 CRI, 2700 K	69	71.5	64.7	69	71.5
80 CRI, 3000 K	72	74.5	67.4	72	74
80 CRI, 3500 K	72	76.5	69.2	72	76
80 CRI, 4000 K	75	78.5	71	75	78
80 CRI, 5000 K	75	78.5	71	75	78
80 CRI, 5700 K	75	78.5	71	75	78
80 CRI, 6500 K	75	78.5	71	75	78
90 CRI, 2700 K	57	59.5	53.9	57	59
90 CRI, 3000 K	60	62.5	56.6	60	62
90 CRI, 3500 K	63	65.5	59.3	63	65
90 CRI, 4000 K	63	67.5	61.1	63	67
90 CRI, 5000 K	63	67.5	61.1	63	67
90 CRI, 5700 K	63	67.5	61.1	63	67
90 CRI, 6500 K	63	67.5	61.1	63	67

Table 5: New and Current Flux Values for JE2835B 3-V P Class (JE2835BWT-P-xxxxAxxxx-xxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	69	73.5	66.1	69	73
70 CRI, 3000 K	75	76.5	68.8	72	76
70 CRI, 3500 K	75	78.5	70.6	75	78
70 CRI, 4000 K	78	80.5	72.4	75	80
70 CRI, 5000 K	78	80.5	72.4	75	80
70 CRI, 5700 K	78	80.5	72.4	75	80
70 CRI, 6500 K	78	80.5	72.4	75	80
80 CRI, 2700 K	66	69	62.1	63	69
80 CRI, 3000 K	69	72	64.8	66	72
80 CRI, 3500 K	72	74	66.6	69	74
80 CRI, 4000 K	75	77	69.3	72	76
80 CRI, 5000 K	75	77	69.3	72	76
80 CRI, 5700 K	75	77	69.3	72	76
80 CRI, 6500 K	72	76	68.4	72	76
90 CRI, 2700 K	54	57.5	51.7	51	57
90 CRI, 3000 K	57	60.5	54.4	54	60
90 CRI, 3500 K	60	62.5	56.2	57	62
90 CRI, 4000 K	63	65	58.5	60	64
90 CRI, 5000 K	63	65	58.5	60	64
90 CRI, 5700 K	63	65	58.5	60	64
90 CRI, 6500 K	63	65	58.5	60	64
95 CRI, 2700 K	48	52	46.8	48	51
95 CRI, 3000 K	51	55	49.5	51	54
95 CRI, 3500 K	54	56.5	50.8	51	55.5
95 CRI, 4000 K	57	59	53.1	54	57
95 CRI, 5000 K	57	59	53.1	54	57
95 CRI, 6500 K	57	59	53.1	54	57

Table 6: New and Current Flux Values for JE2835 3-V R Class (JE2835AWT-R-xxxxAxxxx-xxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	66	68.5	61.3	63	67
70 CRI, 3000 K	69	73	65.3	66	70
70 CRI, 3500 K	72	74.5	66.6	69	72
70 CRI, 4000 K	75	76.5	68.4	72	74
70 CRI, 5000 K	75	76.5	68.4	72	74
70 CRI, 5700 K	75	76.5	68.4	72	74
70 CRI, 6500 K	75	76.5	68.4	72	74
80 CRI, 2200 K	54	58.5	52.3	54	57.5
80 CRI, 2700 K	66	67.5	60.4	63	66.5
80 CRI, 3000 K	69	70.5	63.0	66	69.5
80 CRI, 3500 K	69	72	64.4	66	71.5
80 CRI, 4000 K	72	73.5	65.7	69	72
80 CRI, 5000 K	72	73.5	65.7	69	72.5
80 CRI, 5700 K	72	73.5	65.7	69	72.5
80 CRI, 6500 K	72	73.5	65.7	69	72
90 CRI, 2200 K	45	49	43.8	45	48.5
90 CRI, 2700 K	54	55.5	49.6	51	55
90 CRI, 3000 K	57	58.5	52.3	54	56.5
90 CRI, 3500 K	57	59.5	53.2	54	58.5
90 CRI, 4000 K	60	62.5	55.9	57	61.5
90 CRI, 5000 K	60	62.5	55.9	57	62
90 CRI, 5700 K	60	62.5	55.9	57	62
90 CRI, 6500 K	60	62.5	55.9	57	61.5

Table 7: New and Current Flux Values for JB2835 3-V W Class (JB2835AWT-W-xxxxAxxxx-xxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
80 CRI, 2200 K	21	24	21.5	19	23.5
80 CRI, 2700 K	25	27.3	24.4	23	26.8
80 CRI, 3000 K	27	29.1	26	25	29
80 CRI, 3500 K	27	29.5	26.4	25	29.2
80 CRI, 4000 K	27	30.4	27.2	27	29.7
80 CRI, 5000 K	27	30.4	27.2	27	29.7
80 CRI, 5700 K	27	30.4	27.2	27	29.7
80 CRI, 6500 K	27	30.4	27.2	27	29.7
90 CRI, 2200 K	17	20.1	18	17	20
90 CRI, 2700 K	21	22.9	20.5	21	22.7
90 CRI, 3000 K	21	24.4	21.8	21	24
90 CRI, 3500 K	21	24.8	22.2	21	24.5
90 CRI, 4000 K	23	25.7	23	23	25.5
90 CRI, 5000 K	23	25.7	23	23	25.5
90 CRI, 5700 K	23	25.7	23	23	25.5
90 CRI, 6500 K	23	25.7	23	23	25.5

Table 8: New and Current Flux Values for JK2835 6-V P Class (JK2835AWT-P-xxxxBxxxx-xxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	140	146	131	135	142
70 CRI, 3000 K	145	152	137	140	148
70 CRI, 3500 K	150	156	140	145	152
70 CRI, 4000 K	155	162	146	150	156
70 CRI, 5000 K	155	162	146	150	156
70 CRI, 5700 K	155	162	146	150	156
70 CRI, 6500 K	155	162	146	150	156
80 CRI, 2700 K	135	140	126	130	137
80 CRI, 3000 K	140	146	131	135	143
80 CRI, 3500 K	145	150	135	140	147
80 CRI, 4000 K	145	154	138	145	151
80 CRI, 5000 K	145	154	138	145	151
80 CRI, 5700 K	145	154	138	145	151
80 CRI, 6500 K	145	154	138	145	151
90 CRI, 2700 K	110	119	107	110	116
90 CRI, 3000 K	115	124	111	115	121
90 CRI, 3500 K	120	127	114	115	124
90 CRI, 4000 K	125	131	118	120	128
90 CRI, 5000 K	125	131	118	120	128
90 CRI, 5700 K	125	131	118	120	128
90 CRI, 6500 K	125	131	118	120	128

Table 9: New and Current Flux Values for JK2835B 9-V W Class (JK2835BWT-W-xxxxCxxxx-xxxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	120	125	109	115	123
70 CRI, 3000 K	125	131	114	120	129
70 CRI, 3500 K	130	134	117	125	132
70 CRI, 4000 K	135	139	121	130	136
70 CRI, 5000 K	135	139	121	130	136
70 CRI, 5700 K	135	139	121	130	136
70 CRI, 6500 K	135	139	121	130	136
80 CRI, 2200 K	100	104	90	100	104
80 CRI, 2700 K	115	120	104	115	119
80 CRI, 3000 K	115	124	108	115	123
80 CRI, 3500 K	120	129	112	120	128
80 CRI, 4000 K	125	132	115	125	131
80 CRI, 5000 K	125	132	115	125	131
80 CRI, 5700 K	125	132	115	125	131
80 CRI, 6500 K	125	132	115	125	131
90 CRI, 2200 K	80	86	75	80	86
90 CRI, 2700 K	95	101	88	95	101
90 CRI, 3000 K	100	104	90	95	104
90 CRI, 3500 K	100	108	94	100	107
90 CRI, 4000 K	105	112	97	105	111
90 CRI, 5000 K	105	112	97	105	111
90 CRI, 5700 K	105	112	97	105	111
90 CRI, 6500 K	105	112	97	105	111

Table 10: New and Current Flux Values for JK2835 18-V X Class (JK2835AWT-X-xxxxFxxxx-xxxxxxxx)

CRI / CCT	New			Current	
	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C	Typical Flux (lm) @85°C*	Minimum Flux (lm) @25°C	Typical Flux (lm) @25°C
70 CRI, 2700 K	115	121	105	115	121
70 CRI, 3000 K	120	125	109	115	125
70 CRI, 3500 K	120	128	112	120	128
70 CRI, 4000 K	125	132	115	125	132
70 CRI, 5000 K	125	132	115	125	132
70 CRI, 5700 K	125	132	115	125	132
70 CRI, 6500 K	125	132	115	125	132
80 CRI, 2200 K	90	97	84	90	97
80 CRI, 2700 K	110	115	100	105	115
80 CRI, 3000 K	110	119	104	105	119
80 CRI, 3500 K	115	122	106	110	122
80 CRI, 4000 K	120	126	110	115	126
80 CRI, 5000 K	120	126	110	115	126
80 CRI, 5700 K	120	126	110	115	126
80 CRI, 6500 K	120	126	110	115	126
90 CRI, 2200 K	75	82	71	75	82
90 CRI, 2700 K	90	97	84	90	97
90 CRI, 3000 K	95	101	88	90	101
90 CRI, 3500 K	95	104	91	95	104
90 CRI, 4000 K	100	107	93	95	107
90 CRI, 5000 K	100	107	93	95	107
90 CRI, 5700 K	100	107	93	95	107
90 CRI, 6500 K	100	107	93	95	107

* Flux values @85°C are calculated and for reference only.

Cree will be changing the typical forward voltage for JE2835B 3-V N Class, JE2835B 3-V P Class, JB2835 3-V W Class, JK2835 6-V P Class, and JK2835B 9-V W Class LEDs. Table 11 shows the new and current values.

Table 11: New and Current Voltage Values

Product	Typical Forward Voltage	
	New	Current
JE2835B 3-V N Class	2.91 V	2.93 V
JE2835B 3-V P Class	3.04 V	3 V
JB2835 3-V W Class	2.91 V	2.95 V
JK2835 6-V P Class	6.07 V	6 V
JK2835B 9-V W Class	9.15 V	9.2 V

Cree will be changing the maximum DC forward current for JK2835 6-V P Class LEDs. Table 12 shows the new and current values.

Table 12: New and Current Values

Product	Maximum DC Forward Current	
	New	Current
JK2835 6-V P Class	240 mA	200 mA

Reason for Change

The minimum flux, typical flux and typical forward voltage changes are being made to better reflect manufacturing yield.

The JK2835 6-V P Class LEDs maximum DC forward current change is being made to provide greater design flexibility for our customers.

Change Impact on Form, Fit, Function, or Reliability

This has no impact on the function or reliability of the JB2835, JB2835B, JE2835, JE2835B, JK2835, JK2835B LEDs. No customer action is required. This product change does not affect the order codes.

The JK2835 6-V P Class LEDs maximum DC forward current change is applicable for current and new LED shipments of JK2835 6-V P Class LEDs.

Cree Contact Information

If you have any questions regarding this PCN please contact:

Table 13: PCN Contact

Cree Contact:	LEDs Customer Service
Cree Contact E-Mail:	xlampsales@cree.com
Address:	4600 Silicon Dr. Durham, NC 27703 USA

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