

# J Series® LED Components

## IES LM-80-2015 Testing Results

Revision: 31 (August 2, 2024)

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### INTRODUCTION

This document provides the results of IES LM-80-2015 ("LM-80") testing on J Series® LED components. Cree Venture is providing this data so that the public can verify the reliability of Cree Venture LEDs as part of a complete LED lighting system.

Note that this document provides only the end results of the LM-80 tests. This is not a complete LM-80 report. Do not use this document to submit luminaires or lamps to an agency. Cree Venture customers who need the full LM-80 reports should contact their Cree Venture sales representative.

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**J SERIES® 2016 WHITE LEDs (REV 1)**

Revision: 1 (December 10, 2018)

**Description Of LED Light Sources**

J Series 2016 White LEDs (Series: Jx2016xWT)

This LM-80 report is applicable to the following order codes:

2016 0.2-W 3-V Standard	JB2016AWT-xx-xxxx-x0xAxxxxxx
2016 Gen 2 0.2-W 3-V P Class	JB2016BWT-P-xxxxAxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JB2016 0.2-W 3-V Standard**

Applicable order codes: JB2016AWT-xx-xxxx-x0xAxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	100 mA	JB2016 3-V Standard @ 55 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 19,500 hrs L80(9k) = 40,600 hrs L70(9k) > 54,000 hrs
85 °C	100 mA	JB2016 3-V Standard @ 85 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 18,400 hrs L80(9k) = 39,100 hrs L70(9k) > 54,000 hrs
105 °C	100 mA	JB2016 3-V Standard @ 105 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 16,100 hrs L80(9k) = 34,500 hrs L70(9k) > 54,000 hrs

**Summary: JB2016 Gen 2 3-V P Class**

Applicable order codes: JB2016BWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	100 mA	JB2016 3-V Standard @ 55 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 19,500 hrs L80(9k) = 40,600 hrs L70(9k) > 54,000 hrs
85 °C	100 mA	JB2016 3-V Standard @ 85 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 18,400 hrs L80(9k) = 39,100 hrs L70(9k) > 54,000 hrs
105 °C	100 mA	JB2016 3-V Standard @ 105 °C, 100 mA	2700 K	80	25	9,000 hrs	L90(9k) = 16,100 hrs L80(9k) = 34,500 hrs L70(9k) > 54,000 hrs

**J SERIES® 2835 WHITE LEDs (REV 11)**

Revision: 11 (July 2, 2024)

**Description Of LED Light Sources**

J Series 2835 White LEDs (Series: Jx2835xWT)

This LM-80 report is applicable to the following order codes:

2835 0.2-W 3-V W Class	JB2835AWT-W-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.5-3-V T Class:	JE2835BWT-T-xxxxAxxxx-xxxxxxx
2835 0.5-W 3-V R-Class	JE2835AWT-R-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.5-W 3-V P Class	JE2835BWT-P-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.5-W 3-V N Class	JE2835BWT-N-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.2-W 3-V J Class	JB2835BWT-J-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.2-W 3-V G Class	JB2835BWT-G-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.2-W 3-V X Class:	JB2835BWT-X-xxxxAxxxx-xxxxxxx
2835 Gen 2 1-W 6-V W Class	JK2835BWT-W-xxxxBxxxx-xxxxxxx
2835 1-W 6-V P Class	JK2835AWT-xx-xxxx-x0xBxxxxxx
	JK2835AWT-P-xxxxBxxxx-xxxxxxx
2835 Gen 2 1-W 9-V U Class	JK2835BWT-U-xxxxCxxxx-xxxxxxx
2835 Gen 2 1-W 9-V W Class	JK2835BWT-W-xxxxCxxxx-xxxxxxx
2835 Gen 2 1-W 18-V U Class	JK2835BWT-U-xxxxFxxxx-xxxxxxx
2835 1-W 18-V Value X Class	JK2835AWT-X-xxxxFxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JB2835 0.2-W 3-V W Class**

Applicable order codes: JB2835AWT-W-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	150 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	150 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	150 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**J SERIES® 2835 WHITE LEDs (REV 11) - CONTINUED****Summary: JE2835B 3-V T Class**

Applicable order codes: JE2835BWT-T-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	214 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	214 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	214 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JE2835 0.5-W 3-V R Class**

Applicable order codes: JE2835AWT-R-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	240 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	240 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	240 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JE2835 Gen 2 0.5-W 3-V P Class**

Applicable order codes: JE2835BWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	240 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	240 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	240 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**J SERIES® 2835 WHITE LEDs (REV 11) - CONTINUED****Summary: JE2835 Gen 2 0.5-W 3-V N Class**

Applicable order codes: JE2835BWT-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	240 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	240 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	240 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JB2835 Gen 2 0.2-W 3-V J Class**

Applicable order codes: JB2835BWT-J-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	368 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	368 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	368 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JB2835 Gen 2 0.2-W 3-V G Class**

Applicable order codes: JB2835BWT-G-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	368 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	368 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	368 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**J SERIES® 2835 WHITE LEDs (REV 11) - CONTINUED****Summary: JB2835B 3-V X Class**

Applicable order codes: JB2835BWT-X-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	60 mA	JB2835B 3-V X Class @ 55 °C, 60 mA	2700 K	80	30	9,000 hrs	L90(9k) = 31,800 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	60 mA	JB2835B 3-V X Class @ 85 °C, 60 mA	2700 K	80	30	9,000 hrs	L90(9k) = 20,200 hrs L80(9k) = 42,500 hrs L70(9k) > 54,000 hrs
105 °C	60 mA	JB2835B 3-V X Class @ 105 °C, 60 mA	2700 K	80	30	9,000 hrs	L90(9k) = 17,200 hrs L80(9k) = 37,100 hrs L70(9k) > 54,000 hrs

**Summary: JK2835 Gen 2 1-W 6-V W Class**

Applicable order codes: JK2835BWT-W-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	177 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	177 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	177 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JK2835 1-W 6-V P Class**

Applicable order codes: JK2835AWT-xx-xxxx-x0xBxxxxxx, JK2835AWT-P-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	181 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	181 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	181 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**J SERIES® 2835 WHITE LEDs (REV 11) - CONTINUED****Summary: JK2835B 1-W 9-V U Class**

Applicable order codes: JK2835BWT-U-xxxx-xxxCxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	119 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	119 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	119 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JK2835 Gen 2 1-W 9-V W Class**

Applicable order codes: JK2835BWT-W-xxxxCxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	120 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	120 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	120 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

**Summary: JK2835B 1-W 18-V U Class**

Applicable order codes: JK2835BWT-U-xxxxFxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	60 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	60 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	60 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs

## J SERIES® 2835 WHITE LEDs (REV 11) - CONTINUED

## Summary: JK2835 1-W 18-V X Class

Applicable order codes: JK2835AWT-X-xxxxFxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	42 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	42 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs
115 °C	42 mA	JK2835B 9-V W Class @ 115 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 31,600 hrs L80(17k) = 63,600 hrs L70(17k) = 99,900 hrs
115 °C	60 mA	JK2835 18-V X Class @ 115 °C, 60 mA	2700 K	80	25	10,000 hrs	L90(10k) = 24,200 hrs L80(10k) = 51,300 hrs L70(10k) > 60,000 hrs

**J SERIES® 2835 COLOR LEDs (REV 2)**

Revision: 2 (July 8, 2024)

**Description Of LED Light Sources**

J Series 2835 Color LEDs (Series: Jx2835xxx)

This LM-80 report is applicable to the following order codes:

JE2835 3-V N Class Violet:	JE2835AVT-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Royal Blue	JE2835ARY-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Blue	JE2835ABL-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Cyan	JE2835ACY-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Green	JE2835AGR-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class PC Lime	JE2835APL-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class PC Mint	JE2835APM-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Amber	JE2835AAM-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class PC Amber	JE2835APA-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Red-Orange	JE2835ARO-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class PC Red-Orange	JE2835APO-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Red	JE2835ARD-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Photo Red	JE2835AHR-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class Far Red	JE2835AFR-N-xxxxAxxxx-xxxxxxx
JE2835 3-V N Class PC Purple	JE2835APP-N-xxxxAxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JE2835 3-V N Class Violet**

Applicable order codes: JE2835AVT-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Violet @ 85 °C, 140 mA	N/A	N/A	30	6,000 hrs	R90(6k) > 36,000 hrs R80(6k) > 36,000 hrs R70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class Royal Blue**

Applicable order codes: JE2835ARY-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Royal Blue @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	R90(10k) > 60,000 hrs R80(10k) > 60,000 hrs R70(10k) > 60,000 hrs

**J SERIES® 2835 COLOR LEDs (REV 2) - CONTINUED****Summary: JE2835 3-V N Class Blue**

Applicable order codes: JE2835ABL-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Blue @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 41,500 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class Blue @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class Cyan**

Applicable order codes: JE2835ACY-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Cyan @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 40,300 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class Cyan @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class Green**

Applicable order codes: JE2835AGR-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Green @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 43,000 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class Green @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class PC Lime**

Applicable order codes: JE2835APL-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class PC Lime @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 44,600 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs

**J SERIES® 2835 COLOR LEDs (REV 0) - CONTINUED****Summary: JE2835 3-V N Class PC Mint**

Applicable order codes: JE2835APM-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class PC Mint @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 42,900 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class PC Mint @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class Amber**

Applicable order codes: JE2835AAM-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Amber @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 48,700 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs

**Summary: JE2835 3-V N Class PC Amber**

Applicable order codes: JE2835APA-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class PC Amber @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 38,900 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class PC Amber @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JE2835 3-V N Class Red-Orange**

Applicable order codes: JE2835ARO-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Red-Orange @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 47,900 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs

**Summary: JE2835 3-V N Class PC Red-Orange**

Applicable order codes: JE2835APO-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class PC Red-Orange @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 39,200 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs

## J SERIES® 2835 COLOR LEDs (REV 0) - CONTINUED

## Summary: JE2835 3-V N Class Red

Applicable order codes: JE2835ARD-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	140 mA	JE2835 3-V N Class Red @ 85 °C, 140 mA	N/A	N/A	25	10,000 hrs	L90(10k) = 39,800 hrs L80(10k) > 60,000 hrs L70(10k) > 60,000 hrs
105 °C	140 mA	JE2835 3-V N Class Red @ 105 °C, 140 mA	N/A	N/A	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

## Summary: JE2835 3-V N Class Photo Red

Applicable order codes: JE2835AHR-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	Sample Count	Test Duration	Reported TM-21 Lifetimes	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	140 mA	JE2835 3-V N Class Photo Red @ 85 °C, 140 mA	25	9,000 hrs	R90(9k) > 54,000 hrs R80(9k) > 54,000 hrs R70(9k) > 54,000 hrs	Q90(9k) > 54,000 hrs Q80(9k) > 54,000 hrs Q70(9k) > 54,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	140 mA	JE2835 3-V N Class Photo Red @ 105 °C, 140 mA	30	6,000 hrs	R90(6k) > 36,000 hrs R80(6k) > 36,000 hrs R70(6k) > 36,000 hrs	Q90(6k) > 36,000 hrs Q80(6k) > 36,000 hrs Q70(6k) > 36,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JE2835 3-V N Class Far Red

Applicable order codes: JE2835AFR-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	Sample Count	Test Duration	Reported TM-21 Lifetimes	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	140 mA	JE2835 3-V N Class Far Red @ 85 °C, 140 mA	25	9,000 hrs	R90(9k) > 54,000 hrs R80(9k) > 54,000 hrs R70(9k) > 54,000 hrs	<25% flux in PPF range	Q90(9k) > 54,000 hrs Q80(9k) > 54,000 hrs Q70(9k) > 54,000 hrs

## Summary: JE2835 3-V N Class PC Purple

Applicable order codes: JE2835APP-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	Sample Count	Test Duration	Reported TM-21 Lifetimes	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	140 mA	JE2835 3-V N Class PC Purple @ 85 °C, 140 mA	25	10,000 hrs	R90(10k) = 50,200 hrs R80(10k) > 60,000 hrs R70(10k) > 60,000 hrs	Q90(10k) = 45,200 hrs Q80(10k) > 60,000 hrs Q70(10k) > 60,000 hrs	<25% flux in PF <sub>FR</sub> range

**J SERIES® 2835 PRO9™ LEDs (REV 0)**

Revision: 0 (September 15, 2023)

**Description Of LED Light Sources**

J Series 2835 Pro9™ LEDs (Series: Jx2835BWT)

This LM-80 report is applicable to the following order codes:

2835 Gen 2 0.2-W 3-V N Class Pro9	JB2835BWT-N-xxxxAxxxx-xxxxPxxx
2835 Gen 2 0.2-W 3-V J-Class Pro9	JB2835BWT-J-xxxxAxxxx-xxxxPxxx
2835 Gen 2 0.2-W 3-V G Class Pro9	JB2835BWT-G-xxxxAxxxx-xxxxPxxx
2835 Gen 2 1-W 9-V U Class Pro9	JK2835BWT-U-xxxxCxxxx-xxxxPxxx

No failures occurred during testing.

**Summary: JB2835B 0.2-W 3-V N Class Pro9**

Applicable order codes: JB2835BWT-N-xxxxAxxxx-xxxxPxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	240 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	240 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs

**Summary: JB2835B 0.2-W 3-V J Class Pro9**

Applicable order codes: JB2835BWT-J-xxxxAxxxx-xxxxPxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	368 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	368 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs

**Summary: JB2835B 0.2-W 3-V G Class Pro9**

Applicable order codes: JB2835BWT-G-xxxxAxxxx-xxxxPxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	368 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	368 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs

## J SERIES® 2835 PRO9™ LEDS (REV 0) - CONTINUED

### Summary: JK2835B 1-W 9-V U Class Pro9

Applicable order codes: JK2835BWT-U-xxxxCxxxx-xxxxPxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	119 mA	JK2835B 9-V W Class @ 85 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 52,600 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
105 °C	119 mA	JK2835B 9-V W Class @ 105 °C, 120 mA	2700 K	92	25	17,000 hrs	L90(17k) = 38,700 hrs L80(17k) = 79,200 hrs L70(17k) > 102,000 hrs

**J SERIES® 3030 WHITE LEDs (REV 3)**

Revision: 3 (September 27, 2018)

**Description Of LED Light Sources**

J Series 3030 White LEDs (Series: Jx3030AWT)

This LM-80 report is applicable to the following order codes:

3030 0.2-W 3-V P Class	JB3030AWT-xx-xxxx-xxxAxxxxxx
	JB3030AWT-P-xxxxAxxxx-xxxxxxx
3030 1-W 3-V P Class	JK3030AWT-xx-xxxx-xxxAxxxxxx
	JK3030AWT-P-xxxxAxxxx-xxxxxxx
3030 1-W 6-V P Class	JK3030AWT-xx-xxxx-xxxBxxxxxx
	JK3030AWT-P-xxxxBxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JB3030 0.2-W 3-V P Class**

Applicable order codes: JB3030AWT-xx-xxxx-xxxAxxxxxx, JB3030AWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	60 mA	JK3030 6-V @ 55 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) > 54,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	60 mA	JK3030 6-V @ 85 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 43,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
105 °C	60 mA	JK3030 6-V @ 105 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 38,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
55 °C	180 mA	JK3030 6-V @ 55 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 43,000 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	180 mA	JK3030 6-V @ 85 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 35,400 hrs L80(12k) = 71,900 hrs L70(12k) > 72,000 hrs
105 °C	180 mA	JK3030 6-V @ 105 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 29,700 hrs L80(12k) = 60,400 hrs L70(12k) > 72,000 hrs

## J SERIES® 3030 WHITE LEDs (REV 3) - CONTINUED

### Summary: JK3030 1-W 3-V P Class

Applicable order codes: JK3030AWT-xx-xxxx-xxxAxxxxxx, JK3030AWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	78 mA	JK3030 6-V @ 55 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) > 54,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	78 mA	JK3030 6-V @ 85 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 43,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
105 °C	78 mA	JK3030 6-V @ 105 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 38,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
55 °C	234 mA	JK3030 6-V @ 55 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 43,000 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	234 mA	JK3030 6-V @ 85 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 35,400 hrs L80(12k) = 71,900 hrs L70(12k) > 72,000 hrs
105 °C	234 mA	JK3030 6-V @ 105 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 29,700 hrs L80(12k) = 60,400 hrs L70(12k) > 72,000 hrs
55 °C	350 mA	JK3030 3-V @ 55 °C, 350 mA	2700 K	81	25	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
85 °C	350 mA	JK3030 3-V @ 85 °C, 350 mA	2700 K	81	25	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
105 °C	350 mA	JK3030 3-V @ 105 °C, 350 mA	2700 K	81	25	6,000 hrs	L90(6k) = 28,400 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

### Summary: JK3030 1-W 6-V P Class

Applicable order codes: JK3030AWT-xx-xxxx-xxxBxxxxxx, JK3030AWT-P-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	60 mA	JK3030 6-V @ 55 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) > 54,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	60 mA	JK3030 6-V @ 85 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 43,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
105 °C	60 mA	JK3030 6-V @ 105 °C, 60 mA	2700 K	93	25	9,000 hrs	L90(9k) = 38,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
55 °C	180 mA	JK3030 6-V @ 55 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 43,000 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	180 mA	JK3030 6-V @ 85 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 35,400 hrs L80(12k) = 71,900 hrs L70(12k) > 72,000 hrs
105 °C	180 mA	JK3030 6-V @ 105 °C, 180 mA	2200 K	82	25	12,000 hrs	L90(12k) = 29,700 hrs L80(12k) = 60,400 hrs L70(12k) > 72,000 hrs

**J SERIES® 3030 HIGH EFFICACY WHITE LEDs (REV 5)**

Revision: 5 (September 21, 2021)

**Description Of LED Light Sources**

J Series 3030 High Efficacy White LEDs (Series: Jx3030UWT)

This LM-80 report is applicable to the following order codes:

3030 1-W 6-V High Efficacy B Class JK3030UWT-B-xxxxBxxxx-xxxxxxx

3030 0.2-W 3-V High Efficacy B Class JB3030UWT-B-xxxxAxxxx-xxxxxxx

3030 0.2-W 3-V High Efficacy D Class JB3030UWT-D-xxxxAxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JK3030 1-W 6-V High Efficacy B Class**

Applicable order codes: JK3030UWT-B-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
115 °C	65 mA	JB3030 3-V HE B Class @ 115 °C, 130 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	90 mA	JB3030 3-V HE B Class @ 85 °C, 180 mA	2700 K	77	20	16,128 hrs	L90(16k) > 96,800 hrs L80(16k) > 96,800 hrs L70(16k) > 96,800 hrs
85 °C	150 mA	JK3030 6-V HE B Class @ 85 °C, 150 mA	2700 K	82	20	20,160 hrs	L90(20k) > 121,000 hrs L80(20k) > 121,000 hrs L70(20k) > 121,000 hrs
105 °C	150 mA	JK3030 6-V HE B Class @ 105 °C, 150 mA	2700 K	82	20	11,088 hrs	L90(11k) = 44,300 hrs L80(11k) > 66,500 hrs L70(11k) > 66,500 hrs
85 °C	180 mA	JB3030 3-V HE B Class @ 85 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
115 °C	180 mA	JB3030 3-V HE B Class @ 115 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 29,600 hrs L80(12k) = 64,900 hrs L70(12k) > 72,000 hrs

## J SERIES® 3030 HIGH EFFICACY WHITE LEDs (REV 5) - CONTINUED

## Summary: JB3030 0.2-W 3-V High Efficacy B Class

Applicable order codes: JB3030UWT-B-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
115 °C	130 mA	JB3030 3-V HE B Class @ 115 °C, 130 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	180 mA	JB3030 3-V HE B Class @ 85 °C, 180 mA	2700 K	77	20	16,128 hrs	L90(16k) > 96,800 hrs L80(16k) > 96,800 hrs L70(16k) > 96,800 hrs
85 °C	300 mA	JK3030 6-V HE B Class @ 85 °C, 150 mA	2700 K	82	20	20,160 hrs	L90(20k) > 121,000 hrs L80(20k) > 121,000 hrs L70(20k) > 121,000 hrs
105 °C	300 mA	JK3030 6-V HE B Class @ 105 °C, 150 mA	2700 K	82	20	11,088 hrs	L90(11k) = 44,300 hrs L80(11k) > 66,500 hrs L70(11k) > 66,500 hrs
85 °C	360 mA	JB3030 3-V HE B Class @ 85 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
115 °C	360 mA	JB3030 3-V HE B Class @ 115 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 29,600 hrs L80(12k) = 64,900 hrs L70(12k) > 72,000 hrs

## Summary: JB3030 0.2-W 3-V High Efficacy D Class

Applicable order codes: JB3030UWT-D-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
115 °C	65 mA	JB3030 3-V HE B Class @ 115 °C, 130 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	90 mA	JB3030 3-V HE B Class @ 85 °C, 180 mA	2700 K	77	20	16,128 hrs	L90(16k) > 96,800 hrs L80(16k) > 96,800 hrs L70(16k) > 96,800 hrs
85 °C	150 mA	JK3030 6-V HE B Class @ 85 °C, 150 mA	2700 K	82	20	20,160 hrs	L90(20k) > 121,000 hrs L80(20k) > 121,000 hrs L70(20k) > 121,000 hrs
105 °C	150 mA	JK3030 6-V HE B Class @ 105 °C, 150 mA	2700 K	82	20	11,088 hrs	L90(11k) = 44,300 hrs L80(11k) > 66,500 hrs L70(11k) > 66,500 hrs
85 °C	180 mA	JB3030 3-V HE B Class @ 85 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 37,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
115 °C	180 mA	JB3030 3-V HE B Class @ 115 °C, 360 mA	2700 K	78	25	12,000 hrs	L90(12k) = 29,600 hrs L80(12k) = 64,900 hrs L70(12k) > 72,000 hrs

**J SERIES® JB3030C WHITE LEDs (REV 1)**

Revision: 1 (July 15, 2024)

**Description Of LED Light Sources**

J Series JB3030 White LEDs (Series: JB3030CWT)

This LM-80 report is applicable to the following order codes:

JB3030CWT 3-V E Class: JB3030CWT-E-xxxxAxxxx-xxxxxxx

JB3030CWT 3-V F Class: JB3030CWT-F-xxxxAxxxx-xxxxxxx

**Summary: JB3030C 0.2-W 3-V E Class**

Applicable order codes: JB3030CWT-E-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes	PFM <sub>p</sub> Lifetimes
85 °C	159 mA	JR5050C 6-V E Class @ 85 °C, 400 mA	2700 K	82	20	6,048 hrs	L90(6k) > 36,300 hrs L80(6k) > 36,300 hrs L70(6k) > 36,300 hrs	N/A
85 °C	200 mA	JB3030C 3-V F Class @ 85 °C, 200 mA	2700 K	80	25	9,000 hrs	L90(9k) = 51,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs	Q90(9k) = 50,200 hours Q80(9k) > 54,000 hours Q70(9k) > 54,000 hours
105 °C	200 mA	JB3030C 3-V F Class @ 105 °C, 200 mA	2700 K	80	25	9,000 hrs	L90(9k) = 41,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs	Q90(9k) = 40,900 hours Q80(9k) > 54,000 hours Q70(9k) > 54,000 hours

**Summary: JB3030C 0.2-W 3-V F Class**

Applicable order codes: JB3030CWT-F-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes	PFM <sub>p</sub> Lifetimes
85 °C	133 mA	JR5050C 6-V E Class @ 85 °C, 400 mA	2700 K	82	20	6,048 hrs	L90(6k) > 36,300 hrs L80(6k) > 36,300 hrs L70(6k) > 36,300 hrs	N/A
85 °C	200 mA	JB3030C 3-V F Class @ 85 °C, 200 mA	2700 K	80	25	9,000 hrs	L90(9k) = 51,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs	Q90(9k) = 50,200 hours Q80(9k) > 54,000 hours Q70(9k) > 54,000 hours
105 °C	200 mA	JB3030C 3-V F Class @ 105 °C, 200 mA	2700 K	80	25	9,000 hrs	L90(9k) = 41,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs	Q90(9k) = 40,900 hours Q80(9k) > 54,000 hours Q70(9k) > 54,000 hours

**J SERIES® 5050A & 5050B WHITE LEDs (REV 11)**

Revision: 11 (May 5, 2022)

**Description Of LED Light Sources**

J Series 5050 White LEDs (Series: Jx5050xWT)

This LM-80 report is applicable to the following order codes:

5050 5-W 6-V K Class	JR5050BWT-K-xxxxBxxxx-xxxxxxx
5050 5-W 6-V P Class	JR5050AWT-P-xxxxBxxxx-xxxxxxx
5050 5-W 6-V Q Class	JR5050AWT-Q-xxxxBxxxx-xxxxxxx
	JR5050AWT-xx-xxxx-x0xBxxxxxx
5050 5-W 9-V P Class	JR5050AWT-P-xxxxCxxxx-xxxxxxx
5050 5-W 9-V Q Class	JR5050AWT-Q-xxxxCxxxx-xxxxxxx
	JR5050AWT-xx-xxxx-x0xCxxxxxx
5050 5-W 24-V P Class	JR5050AWT-P-xxxxHxxxx-xxxxxxx
5050 5-W 24-V Q Class	JR5050AWT-Q-xxxxHxxxx-xxxxxxx
	JR5050AWT-xx-xxxx-x0xHxxxxxx
5050 5-W 30-V K Class	JR5050BWT-K-xxxxKxxxx-xxxxxxx
5050 5-W 36-V Q Class	JR5050AWT-Q-xxxxNxxxx-xxxxxxx
	JR5050AWT-xx-xxxx-x0xNxxxxxx

No failures occurred during testing.

**Summary: JR5050 5-W 6-V K Class**

Applicable order codes: JR5050BWT-K-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	479 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	758 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	916 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	916 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

## J SERIES® 5050A & 5050B WHITE LEDs (REV 11) - CONTINUED

### Summary: JR5050 5-W 6-V P Class

Applicable order codes: JR5050AWT-P-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	485 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	760 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	912 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	912 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

### Summary: JR5050 5-W 6-V Q Class

Applicable order codes: JR5050AWT-Q-xxxxBxxxx-xxxxxxx, JR5050AWT-xx-xxxx-x0xBxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	480 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	750 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	900 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	900 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

### Summary: JR5050 5-W 9-V P Class

Applicable order codes: JR5050AWT-P-xxxxCxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	329 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	518 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	626 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	626 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

**J SERIES® 5050A & 5050B WHITE LEDs (REV 11) - CONTINUED****Summary: JR5050 5-W 9-V Q Class**

Applicable order codes: JR5050AWT-Q-xxxxCxxxx-xxxxxxx, JR5050AWT-xx-xxxx-x0xCxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	320 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	500 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	600 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	600 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

**Summary: JR5050 5-W 24-V P Class**

Applicable order codes: JR5050AWT-P-xxxxHxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	121 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	190 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	228 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	228 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

**Summary: JR5050 5-W 24-V Q Class**

Applicable order codes: JR5050AWT-Q-xxxxHxxxx-xxxxxxx, JR5050AWT-xx-xxxx-x0xHxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	107 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	168 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	201 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	201 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

## J SERIES® 5050A &amp; 5050B WHITE LEDs (REV 11) - CONTINUED

## Summary: JR5050 5-W 30-V K Class

Applicable order codes: JR5050BWT-K-xxxxKxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	96 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	151 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	183 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	183 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

## Summary: JR5050 5-W 36-V Q Class

Applicable order codes: JR5050AWT-Q-xxxxNxxxx-xxxxxxx, JR5050AWT-xx-xxxx-x0xNxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	80 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
85 °C	125 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
55 °C	150 mA	JR5050 36-V Q Class @ 55 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 33,100 hrs L80(17k) = 71,500 hrs L70(17k) > 102,000 hrs
105 °C	150 mA	JR5050 36-V Q Class @ 105 °C, 150 mA	2700 K	92	25	17,000 hrs	L90(17k) = 25,200 hrs L80(17k) = 54,800 hrs L70(17k) = 88,300 hrs

**J SERIES® 5050C WHITE LEDs (REV 0)**

Revision: 0 (November 7, 2023)

**Description Of LED Light Sources**

J Series 5050 White LEDs (Series: Jx5050CWT)

This LM-80 report is applicable to the following order codes:

5050 5-W 6-V E Class      JR5050CWT-E-xxxxBxxxx-xxxxxxx

**Summary: JR5050 5-W 6-V E Class**

Applicable order codes: JR5050CWT-E-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	400 mA	JR5050C 6-V E Class @ 55 °C, 400 mA	2700 K	82	25	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
85 °C	400 mA	JR5050C 6-V E Class @ 85 °C, 400 mA	2700 K	82	25	6,000 hrs	L90(6k) = 36,000 hrs L80(6k) = 36,000 hrs L70(6k) = 36,000 hrs

**J SERIES® 5630 WHITE LEDs (REV 2)**

Revision: 2 (November 13, 2019)

**Description Of LED Light Sources**

J Series 5630 White LEDs (Series: Jx5630AWT)

This LM-80 report is applicable to the following order codes:

5630 0.2-W 3-V Standard	JB5630AWT-P-xxxxAxxxx-NZ000001
	JB5630AWT-Cx-xxxx-x0xAxxxxxx
	JB5630AWT-0x-xxxx-xPxAxxxxxx
5630 0.2-W 3-V High Efficacy	JB5630AWT-H-xxxxAxxxx-NZ000001

No failures occurred during testing.

**Summary: JB5630 0.2-W 3-V Standard**

Applicable order codes: JB5630AWT-P-xxxxAxxxx-NZ000001, JB5630AWT-Cx-xxxx-x0xAxxxxxx, JB5630AWT-0x-xxxx-xPxAxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	65 mA	JB5630 3-V Standard @ 55 °C, 65 mA	2700 K	83	25	12,000 hrs	L90(12k) = 44,200 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	65 mA	JB5630 3-V Standard @ 85 °C, 65 mA	2700 K	83	25	12,000 hrs	L90(12k) = 35,600 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	65 mA	JB5630 3-V Standard @ 105 °C, 65 mA	2700 K	83	25	12,000 hrs	L90(12k) = 29,100 hrs L80(12k) = 61,800 hrs L70(12k) > 72,000 hrs
55 °C	180 mA	JB5630 3-V Standard @ 55 °C, 180 mA	2700 K	82	25	12,000 hrs	L90(12k) = 40,200 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	180 mA	JB5630 3-V Standard @ 85 °C, 180 mA	2700 K	82	25	12,000 hrs	L90(12k) = 31,600 hrs L80(12k) = 67,400 hrs L70(12k) > 72,000 hrs
105 °C	180 mA	JB5630 3-V Standard @ 105 °C, 180 mA	2700 K	82	25	12,000 hrs	L90(12k) = 26,600 hrs L80(12k) = 56,500 hrs L70(12k) > 72,000 hrs

**J SERIES® 5630 WHITE LEDs (REV 2) - CONTINUED****Summary: JB5630 0.2-W 3-V High Efficacy**

Applicable order codes: JB5630AWT-H-xxxxAxxxx-NZ000001

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	65 mA	JB5630 3-V High Efficacy @ 55 °C, 65 mA	2700 K	82	25	9,000 hrs	L90(9k) = 43,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	65 mA	JB5630 3-V High Efficacy @ 85 °C, 65 mA	2700 K	82	25	9,000 hrs	L90(9k) = 35,400 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
105 °C	65 mA	JB5630 3-V High Efficacy @ 105 °C, 65 mA	2700 K	82	25	9,000 hrs	L90(9k) = 30,700 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
55 °C	180 mA	JB5630 3-V High Efficacy @ 55 °C, 180 mA	2700 K	82	25	9,000 hrs	L90(9k) = 39,500 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
85 °C	180 mA	JB5630 3-V High Efficacy @ 85 °C, 180 mA	2700 K	82	25	9,000 hrs	L90(9k) = 33,400 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs
105 °C	180 mA	JB5630 3-V High Efficacy @ 105 °C, 180 mA	2700 K	82	25	9,000 hrs	L90(9k) = 29,000 hrs L80(9k) > 54,000 hrs L70(9k) > 54,000 hrs

**J SERIES® 7070B WHITE LEDs (REV 1)**

Revision: 1 (July 9, 2024)

**Description Of LED Light Sources**

J Series 7070 White LEDs (Series: JU7070BWT)

This LM-80 report is applicable to the following order codes:

7070 Gen 2 8-W 12-V K Class JU7070BWT-K-xxxxDxxxx-xxxxxxx

7070 Gen 2 8-W 36-V K Class JU7070BWT-K-xxxxNxxxx-xxxxxxx

No failures occurred during testing.

**Summary: JU7070BWT 12-V K Class**

Applicable order codes: JU7070BWT-K-xxxxDxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	900 mA	JU7070B 12-V K Class @ 55 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 54,700 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
85 °C	900 mA	JU7070B 12-V K Class @ 85 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 48,200 hrs L80(17k) = 100,000 hrs L70(17k) > 102,000 hrs
105 °C	900 mA	JU7070B 12-V K Class @ 105 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 43,800 hrs L80(17k) = 91,600 hrs L70(17k) > 102,000 hrs
85 °C	1200 mA	JU7070B 12-V K Class @ 85, 1200 mA	2700K	80	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
105 °C	1200 mA	JU7070B 12-V K Class @ 105, 1200 mA	2700K	80	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**Summary: JU7070BWT 36-V K Class**

Applicable order codes: JU7070BWT-K-xxxxNxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
55 °C	300 mA	JU7070B 12-V K Class @ 55 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 54,700 hrs L80(17k) > 102,000 hrs L70(17k) > 102,000 hrs
85 °C	300 mA	JU7070B 12-V K Class @ 85 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 48,200 hrs L80(17k) = 100,000 hrs L70(17k) > 102,000 hrs
105 °C	300 mA	JU7070B 12-V K Class @ 105 °C, 900 mA	2700 K	80	25	17,000 hrs	L90(17k) = 43,800 hrs L80(17k) = 91,600 hrs L70(17k) > 102,000 hrs
85 °C	400 mA	JU7070B 12-V K Class @ 85, 1200 mA	2700K	80	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
105 °C	400 mA	JU7070B 12-V K Class @ 105, 1200 mA	2700K	80	30	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs

**J SERIES® HORTICULTURE LEDs (REV 6)**

Revision: 6 (July 12, 2024)

**Description Of LED Light Sources**

This LM-80 report is applicable to the following order codes:

JE2835 3-V Value:	JE2835AWT-xx-xxxx-xBxAxxxxxx
JB2835 3-V Value W Class:	JB2835AWT-W-xxxxAxxxx-xxxxxxx
JE2835 3-V Standard R Class:	JE2835AWT-R-xxxxAxxxx-xxxxxxx
JE2835B 3-V Standard P Class:	JE2835BWT-P-xxxxAxxxx-xxxxxxx
JE2835 3-V Standard:	JE2835AWT-xx-xxxx-x0xAxxxxxx
JE2835B 3-V N Class:	JE2835BWT-N-xxxxAxxxx-xxxxxxx
JB2835B 3-V J Class:	JB2835BWT-J-xxxxAxxxx-xxxxxxx
JE2835 3-V H Class:	JE2835AWT-xx-xxxx-xCxAxxxxxx
JB2835B 3-V G Class:	JB2835BWT-G-xxxxAxxxx-xxxxxxx

JB2835B 3-V G Class Photophyll™ Select:

JB2835BWT-G-NxxxxAxxxx-xxxxxxx
JB2835BWT-G-QxxxxAxxxx-xxxxxxx
JB2835BWT-G-XxxxxAxxxx-xxxxxxx

JK2835B 6-V Value W Class:	JK2835BWT-W-xxxxBxxxx-xxxxxxx
JK2835 6-V Standard:	JK2835AWT-xx-xxxx-x0xBxxxxxx
	JK2835AWT-P-xxxxBxxxx-xxxxxxx

JB3030 3-V P Class:	JB3030AWT-xx-xxxx-xxxAxxxxxx
	JB3030AWT-P-xxxxAxxxx-xxxxxxx

JK3030 3-V P Class:	JK3030AWT-xx-xxxx-xxxAxxxxxx
	JK3030AWT-P-xxxxAxxxx-xxxxxxx

JK3030 6-V P Class:	JK3030AWT-xx-xxxx-xxxBxxxxxx
	JK3030AWT-P-xxxxBxxxx-xxxxxxx

JB3030 3-V High Efficacy D Class:	JB3030UWT-D-xxxxAxxxx-xxxxxxx
JB3030 3-V High Efficacy B Class:	JB3030UWT-B-xxxxAxxxx-xxxxxxx
JK3030 6-V High Efficacy B Class:	JK3030UWT-B-xxxxBxxxx-xxxxxxx

JR5050 6-V K Class:	JR5050BWT-K-xxxxBxxxx-xxxxxxx
JR5050 6-V P Class:	JR5050AWT-P-xxxxBxxxx-xxxxxxx

JR5050 6-V Q Class:	JR5050AWT-xx-xxxx-x0xBxxxxxx
	JR5050AWT-Q-xxxxBxxxx-xxxxxxx

### J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

JR5050 9-V P Class:	JR5050AWT-P-xxxxCxxxx-xxxxxxx
JR5050 9-V Q Class:	JR5050AWT-xx-xxxx-x0xCxxxxxx
	JR5050AWT-Q-xxxxCxxxx-xxxxxxx
JR5050 24-V P Class:	JR5050AWT-P-xxxxHxxxx-xxxxxxx
JR5050 24-V Q Class:	JR5050AWT-xx-xxxx-x0xHxxxxxx
	JR5050AWT-Q-xxxxHxxxx-xxxxxxx
JR5050 30-V K Class:	JR5050BWT-K-xxxxKxxxx-xxxxxxx
JR5050 36-V Q Class:	JR5050AWT-xx-xxxx-x0xNxxxxxx
	JR5050AWT-Q-xxxxNxxxx-xxxxxxx
JB5630 3-V Standard:	JB5630AWT-Cx-xxxx-x0xAxxxxxx
	JB5630AWT-0x-xxxx-xPxAxxxxxx
	JB5630AWT-P-xxxxAxxxx-NZ000001
JB5630 3-V High Efficacy:	JB5630AWT-H-xxxxAxxxx-NZ000001

No failures occurred during testing.

#### Summary: JE2835 3-V Value

Applicable order codes: JE2835AWT-xx-xxxx-xBxAxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	38 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	38 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	38 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JB2835 3-V Value W Class

Applicable order codes: JB2835AWT-W-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	30 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	30 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	30 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JE2835 3-V Standard R Class

Applicable order codes: JE2835AWT-R-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	61 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	61 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	61 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JE2835B 3-V Standard P Class

Applicable order codes: JE2835BWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	63 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	63 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	63 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JE2835 3-V Standard

Applicable order codes: JE2835AWT-xx-xxxx-x0xAxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	75 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	75 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	75 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JE2835B 3-V N Class

Applicable order codes: JE2835BWT-N-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	86 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	86 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	86 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JB2835B 3-V J Class

Applicable order codes: JB2835BWT-J-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	125 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	125 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	125 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JE2835 3-V H Class

Applicable order codes: JE2835AWT-xx-xxxx-xCxAxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	150 mA	JE2835 3-V Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	150 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	150 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JB2835B 3-V G Class

Applicable order codes: JB2835BWT-G-xxxxAxxxx-xxxxxxx, JB2835BWT-G-HxxxAxxxx-xxxxxxx, JB2835BWT-G-UxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	143 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	143 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	143 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JB2835B 3-V G Class Photophyll™ Select

Applicable order codes: JB2835BWT-G-NxxxAxxxx-xxxxxxx, JB2835BWT-G-QxxxAxxxx-xxxxxxx, JB2835BWT-G-XxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	90 mA	JB2835B 3-V G Class Photophyll Select @ 55 °C, 90 mA	N/A	N/A	25	10,000 hrs	Q90(10k) > 60,000 hrs Q80(10k) > 60,000 hrs Q70(10k) > 60,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	90 mA	JB2835B 3-V G Class Photophyll Select @ 85 °C, 90 mA	N/A	N/A	25	10,000 hrs	Q90(10k) > 60,000 hrs Q80(10k) > 60,000 hrs Q70(10k) > 60,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	90 mA	JB2835B 3-V G Class Photophyll Select @ 105 °C, 90 mA	N/A	N/A	25	10,000 hrs	Q90(10k) = 49,900 hrs Q80(10k) > 60,000 hrs Q70(10k) > 60,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	400 mA	JB2835B 3-V G Class Photophyll Select @ 85 °C, 400 mA	N/A	N/A	25	10,000 hrs	Q90(10k) = 48,300 hrs Q80(10k) > 60,000 hrs Q70(10k) > 60,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JK2835B 6-V Value W Class

Applicable order codes: JK2835BWT-W-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	33 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	33 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	33 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JK2835 6-V Standard

Applicable order codes: JK2835AWT-xx-xxxx-x0xBxxxxxx, JK2835AWT-P-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	75 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	75 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	75 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JB3030 3-V P Class

Applicable order codes: JB3030AWT-xx-xxxx-xxxAxxxxxx, JB3030AWT-P-xxxxAxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	138 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	216 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED****Summary: JK3030 3-V P Class**

Applicable order codes: JK3030AWT-xx-xxxx-xxxAxxxxxx, JK3030AWT-P-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	180 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	281 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JK3030 6-V P Class**

Applicable order codes: JK3030AWT-xx-xxxx-xxxBxxxxxx, JK3030AWT-P-xxxxBxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	138 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	216 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JB3030 3-V High Efficacy D Class**

Applicable order codes: JB3030UWT-D-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	133 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	209 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JB3030 3-V High Efficacy B Class**

Applicable order codes: JB3030UWT-B-xxxxAxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	267 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	417 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED****Summary: JK3030 6-V High Efficacy B Class**

Applicable order codes: JK3030UWT-B-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	133 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	209 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JR5050 6-V K Class**

Applicable order codes: JR5050BWT-K-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	479 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	758 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JR5050 6-V P Class**

Applicable order codes: JR5050AWT-P-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	485 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	12,096 hrs	Q90(12k) > 72,600 hrs Q80(12k) > 72,600 hrs Q70(12k) > 72,600 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	760 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	Q90(12k) > 72,600 hrs Q80(12k) > 72,600 hrs Q70(12k) > 72,600 hrs	<25% flux in PF <sub>FR</sub> range

**Summary: JR5050 6-V Q Class**

Applicable order codes: JR5050AWT-xx-xxxx-x0xBxxxxxx, JR5050AWT-Q-xxxxBxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>p</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	480 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	750 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JR5050 9-V P Class

Applicable order codes: JR5050AWT-P-xxxxCxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	329 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	518 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JR5050 9-V Q Class

Applicable order codes: JR5050AWT-xx-xxxx-x0xCxxxxxx, JR5050AWT-Q-xxxxCxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	320 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	500 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JR5050 24-V P Class

Applicable order codes: JR5050AWT-P-xxxxHxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	121 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	190 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JR5050 24-V Q Class

Applicable order codes: JR5050AWT-xx-xxxx-x0xHxxxxxx, JR5050AWT-Q-xxxxHxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	107 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	168 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JR5050 30-V K Class

Applicable order codes: JR5050BWT-K-xxxxKxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	96 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	151 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JR5050 36-V Q Class

Applicable order codes: JR5050AWT-xx-xxxx-x0xNxxxxxx, JR5050AWT-Q-xxxxNxxxx-xxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
85 °C	80 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	125 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	18,144 hrs	Q90(18k) > 109,000 hrs Q80(18k) > 109,000 hrs Q70(18k) > 109,000 hrs	<25% flux in PF <sub>FR</sub> range

## Summary: JB5630 3-V Standard

Applicable order codes: JB5630AWT-Cx-xxxx-x0xAxxxxxx, JB5630AWT-0x-xxxx-xPxAxxxxxx, JB5630AWT-P-xxxxAxxxx-NZ000001

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PFM <sub>P</sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	75 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	75 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	75 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range

## J SERIES® HORTICULTURE LEDs (REV 6) - CONTINUED

## Summary: JB5630 3-V High Efficacy

Applicable order codes: JB5630AWT-H-xxxxAxxxx-NZ000001

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M<sub>p</sub></sub> Lifetimes	PF <sub>FR</sub> Lifetimes
55 °C	150 mA	JE2835 3-V H Class @ 55 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) > 72,000 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
85 °C	150 mA	JE2835 3-V H Class @ 85 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 57,300 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range
105 °C	150 mA	JE2835 3-V H Class @ 105 °C, 150 mA	2700 K	82	20	12,000 hrs	Q90(12k) = 38,200 hrs Q80(12k) > 72,000 hrs Q70(12k) > 72,000 hrs	<25% flux in PF <sub>FR</sub> range