

# J Series® LED Components IES LM-80-2015 Testing Results

Revision: 25 (July 12, 2022)

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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-x0xAxxxxxxx

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-x0xAxxxxxxx

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 9)**

Revision: 9 (June 23, 2022)

**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-xxxxxxxxx
2835 0.5-W 3-V R-Class	JE2835AWT-R-xxxxAxxxx-xxxxxxxxx
2835 Gen 2 0.5-W 3-V P Class	JE2835BWT-P-xxxxAxxxx-xxxxxxxxx
2835 Gen 2 0.5-W 3-V N Class	JE2835BWT-N-xxxxAxxxx-xxxxxxxxx
2835 Gen 2 0.2-W 3-V J Class	JB2835BWT-J-xxxxAxxxx-xxxxxxxxx
2835 Gen 2 0.2-W 3-V G Class	JB2835BWT-G-xxxxAxxxx-xxxxxxxxx
2835 Gen 2 1-W 6-V W Class	JK2835BWT-W-xxxxBxxxx-xxxxxxxxx
2835 1-W 6-V P Class	JK2835AWT-xx-xxxx-x0xBxxxxxx JK2835AWT-P-xxxxBxxxx-xxxxxxxxx
2835 Gen 2 1-W 9-V W Class	JK2835BWT-W-xxxxCxxxx-xxxxxxxxx
2835 1-W 8-V Value X Class	JK2835AWT-X-xxxxFxxxx-xxxxxxxxx

No failures occurred during testing.

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

Applicable order codes: JB2835AWT-W-xxxxAxxxx-xxxxxxxxx

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 9) - CONTINUED**

**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

**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

**J SERIES® 2835 WHITE LEDS (REV 9) - CONTINUED**

**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

**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

**J SERIES® 2835 WHITE LEDS (REV 9) - CONTINUED**

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

Applicable order codes: JK2835AWT-xx-xxxx-x0xBxxxxxxx, 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	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: 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: 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	6,000 hrs	L90(6k) = 22,700 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 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-xxxAXxxxxxx  
JB3030AWT-P-xxxxAXxxx-xxxxxxx
- 3030 1-W 3-V P Class JK3030AWT-xx-xxxx-xxxAXxxxxxx  
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-xxxAXxxxxxx, 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-xxxAXxxxxxx, JK3030AWT-P-xxxxAxxxx-xxxxxx

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-xxxxxx

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

No failures occurred during testing.

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

Applicable order codes: JK3030UWT-B-xxxxBxxxx-xxxxxxxxx

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

No failures occurred during testing.

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

Applicable order codes: JR5050BWT-K-xxxxBxxxx-xxxxxxxxx

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® 5050 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-x0xBxxxxxxx

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® 5050 WHITE LEDS (REV 11) - CONTINUED**

**Summary: JR5050 5-W 9-V Q Class**

Applicable order codes: JR5050AWT-Q-xxxxCxxxx-xxxxxxx, JR5050AWT-xx-xxxx-x0xCxxxxxxx

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-x0xHxxxxxxx

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® 5050 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-x0xNxxxxxxx

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® 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-x0xAxxxxxxx
- JB5630AWT-0x-xxxx-xPxAxxxxxxx
- 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-x0xAxxxxxxx, JB5630AWT-0x-xxxx-xPxAxxxxxxx

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® HORTICULTURE LEDS (REV 4)**

Revision: 4 (June 22, 2022)

**Description Of LED Light Sources**

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

JE2835 3-V Value:	JE2835AWT-xx-xxxx-xBxAxxxxxxx
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-x0xAxxxxxxx
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-xCxAxxxxxxx
JB2835B 3-V G Class:	JB2835BWT-G-xxxxAxxxx-xxxxxxx
JK2835B 6-V Value W Class:	JK2835BWT-W-xxxxBxxxx-xxxxxxx
JK2835 6-V Standard:	JK2835AWT-xx-xxxx-x0xBxxxxxxx
	JK2835AWT-P-xxxxBxxxx-xxxxxxx
JB3030 3-V P Class:	JB3030AWT-xx-xxxx-xxxAxxxxxxx
	JB3030AWT-P-xxxxAxxxx-xxxxxxx
JK3030 3-V P Class:	JK3030AWT-xx-xxxx-xxxAxxxxxxx
	JK3030AWT-P-xxxxAxxxx-xxxxxxx
JK3030 6-V P Class:	JK3030AWT-xx-xxxx-xxxBxxxxxxx
	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-x0xBxxxxxxx
	JR5050AWT-Q-xxxxBxxxx-xxxxxxx
JR5050 9-V P Class:	JR5050AWT-P-xxxxCxxxx-xxxxxxx
JR5050 9-V Q Class:	JR5050AWT-xx-xxxx-x0xCxxxxxxx
	JR5050AWT-Q-xxxxCxxxx-xxxxxxx
JR5050 24-V P Class:	JR5050AWT-P-xxxxHxxxx-xxxxxxx
JR5050 24-V Q Class:	JR5050AWT-xx-xxxx-x0xHxxxxxxx
	JR5050AWT-Q-xxxxHxxxx-xxxxxxx

**J SERIES® HORTICULTURE LEDS (REV 4) - CONTINUED**

JR5050 30-V K Class:	JR5050BWT-K-xxxxKxxxx-xxxxxxx
JR5050 36-V Q Class:	JR5050AWT-xx-xxxx-x0xNxxxxxxx
	JR5050AWT-Q-xxxxNxxxx-xxxxxxx
JB5630 3-V Standard:	JB5630AWT-Cx-xxxx-x0xAxxxxxxx
	JB5630AWT-0x-xxxx-xPxAXxxxxxxx
	JB5630AWT-P-xxxxAxxxx-NZ000001
JB5630 3-V High Efficacy:	JB5630AWT-H-xxxxAxxxx-NZ000001

No failures occurred during testing.

**J SERIES® HORTICULTURE LEDS (REV 4) - CONTINUED**

**Summary: JE2835 3-V Value**

Applicable order codes: JE2835AWT-xx-xxxx-xBxAxxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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

**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	PF <sub>M</sub> <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	PF <sub>M</sub> <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

**J SERIES® HORTICULTURE LEDS (REV 4) - CONTINUED**

**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	PF <sub>M</sub> <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

**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	PF <sub>M</sub> <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	PF <sub>M</sub> <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

**J SERIES® HORTICULTURE LEDS (REV 4) - CONTINUED**

**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	PF <sub>M</sub> <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

**Summary: JE2835 3-V H Class**

Applicable order codes: JE2835AWT-xx-xxxx-xCxAXxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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

**J SERIES® HORTICULTURE LEDS (REV 4) - CONTINUED**

**Summary: JK2835B 6-V Value 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	PF <sub>M</sub> <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-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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 4) - CONTINUED**

**Summary: JK3030 3-V P Class**

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

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
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	PF <sub>M<sub>p</sub></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	PF <sub>M<sub>p</sub></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	PF <sub>M<sub>p</sub></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 4) - 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	PF <sub>M<sub>p</sub></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	PF <sub>M<sub>p</sub></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	PF <sub>M<sub>p</sub></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	PF <sub>M<sub>p</sub></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 4) - 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	PF <sub>M</sub> <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-x0xCxxxxxxx, JR5050AWT-Q-xxxxCxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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	PF <sub>M</sub> <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-x0xHxxxxxxx, JR5050AWT-Q-xxxxHxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</sub> <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 4) - CONTINUED**

**Summary: JR5050 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	PF <sub>M</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-x0xNxxxxxxx, JR5050AWT-Q-xxxxNxxxx-xxxxxxx

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</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-x0xAxxxxxxx, JB5630AWT-0x-xxxx-xPxAXxxxxxxx, JB5630AWT-P-xxxxAxxxx-NZ00001

Nominal Case & Ambient Temp.	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	PF <sub>M</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 4) - 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> <sub>p</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