

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

Revision: 23 (September 30, 2021)

TABLE OF CONTENTS

J Series® 2016 White LEDs (Rev 1).....	2
J Series® 2835 White LEDs (Rev 8).....	3
J Series® 3030 White LEDs (Rev 3).....	9
J Series® 3030 High Efficacy White LEDs (Rev 5).....	11
J Series® 5050 White LEDs (Rev 10).....	13
J Series® 5630 White LEDs (Rev 2).....	17
J Series® Horticulture LEDs (Rev 3).....	19

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.

Cree Venture customers who wish to share LM-80 results with their customers have permission to link to this document from their website. This document is subject to change without notice, so please do not link to a local copy.

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

Cree LED / 4400 Silicon Drive / Durham, NC 27703 USA / +1.919.313.5330 / www.cree-led.com

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 8)

Revision: 8 (February 10, 2020)

Description Of LED Light Sources

J Series 2835 White LEDs (Series: Jx2835xWT)

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

2835 0.5-W 3-V Value	JE2835AWT-xx-xxxx-xBxAxxxxxxx
2835 0.2 3-V Value W Class	JB2835AWT-W-xxxxAxxxx-xxxxxxx
2835 0.5-W 3-V Standard R Class	JE2835AWT-R-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.5-W 3-V Standard P Class	JE2835BWT-P-xxxxAxxxx-xxxxxxx
2835 0.5-W 3-V Standard	JE2835AWT-xx-xxxx-x0xAxxxxxxx
2835 Gen 2 0.5-W 3-V Standard N Class	JE2835BWT-N-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.2-W 3-V Standard J Class	JB2835BWT-J-xxxxAxxxx-xxxxxxx
2835 Gen 2 0.2-W 3-V Standard G Class	JB2835BWT-G-xxxxAxxxx-xxxxxxx
2835 Gen 2 1-W 6-V Value W Class	JK2835BWT-W-xxxxBxxxx-xxxxxxx
2835 1-W 6-V Standard	JK2835AWT-xx-xxxx-x0xBxxxxxxx
	JK2835AWT-P-xxxxBxxxx-xxxxxxx
2835 1-W 9-V Value	JK2835AWT-xx-xxxx-x0xCxxxxxxx
2835 Gen 2 1-W 9-V Value	JK2835BWT-W-xxxxCxxxx-xxxxxxx
2835 1-W 18-V Value	JK2835AWT-xx-xxxx-x0xFxxxxxxx
2835 1 1-W 8-V Value X Class	JK2835AWT-X-xxxxFxxxx-xxxxxxx

No failures occurred during testing.

Summary: JE2835 0.5-W 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	Reported TM-21 Lifetimes
55 °C	224 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	224 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	224 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

J SERIES® 2835 WHITE LEDS (REV 8) - CONTINUED

Summary: JB2835 0.2-W 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	Reported TM-21 Lifetimes
55 °C	150 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	150 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	150 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

Summary: JE2835 0.5-W 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	Reported TM-21 Lifetimes
55 °C	240 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	240 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	240 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

Summary: JE2835 Gen 2 0.5-W 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	Reported TM-21 Lifetimes
55 °C	240 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	240 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	240 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

J SERIES® 2835 WHITE LEDS (REV 8) - CONTINUED

Summary: JE2835 0.5-W 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	Reported TM-21 Lifetimes
55 °C	100 mA	JK2835 6-V Standard @ 55 °C, 100 mA	2700 K	83	25	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
105 °C	100 mA	JK2835 6-V Standard @ 105 °C, 100 mA	2700 K	83	25	6,000 hrs	L90(6k) = 28,200 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
55 °C	150 mA	JK2835 6-V Standard @ 55 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 45,200 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	150 mA	JK2835 6-V Standard @ 85 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 33,700 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	150 mA	JK2835 6-V Standard @ 105 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 25,200 hrs L80(12k) = 55,000 hrs L70(12k) > 72,000 hrs
55 °C	200 mA	JK2835 6-V Standard @ 55 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 44,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	200 mA	JK2835 6-V Standard @ 85 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 32,100 hrs L80(12k) = 69,300 hrs L70(12k) > 72,000 hrs
105 °C	200 mA	JK2835 6-V Standard @ 105 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 24,900 hrs L80(12k) = 54,900 hrs L70(12k) > 72,000 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
55 °C	240 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	240 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	240 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

J SERIES® 2835 WHITE LEDS (REV 8) - 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
55 °C	380 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	380 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	380 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 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
55 °C	381 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	381 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	381 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

Summary: JK2835 Gen 2 1.0-W 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	Reported TM-21 Lifetimes
55 °C	170 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	170 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	170 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

J SERIES® 2835 WHITE LEDS (REV 8) - CONTINUED

Summary: JK2835 1-W 6-V Standard

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
55 °C	100 mA	JK2835 6-V Standard @ 55 °C, 100 mA	2700 K	83	25	6,000 hrs	L90(6k) > 36,000 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
105 °C	100 mA	JK2835 6-V Standard @ 105 °C, 100 mA	2700 K	83	25	6,000 hrs	L90(6k) = 28,200 hrs L80(6k) > 36,000 hrs L70(6k) > 36,000 hrs
55 °C	150 mA	JK2835 6-V Standard @ 55 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 45,200 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	150 mA	JK2835 6-V Standard @ 85 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 33,700 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	150 mA	JK2835 6-V Standard @ 105 °C, 150 mA	2700 K	81	25	12,000 hrs	L90(12k) = 25,200 hrs L80(12k) = 55,000 hrs L70(12k) > 72,000 hrs
55 °C	200 mA	JK2835 6-V Standard @ 55 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 44,400 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
85 °C	200 mA	JK2835 6-V Standard @ 85 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 32,100 hrs L80(12k) = 69,300 hrs L70(12k) > 72,000 hrs
105 °C	200 mA	JK2835 6-V Standard @ 105 °C, 200 mA	2700 K	81	25	12,000 hrs	L90(12k) = 24,900 hrs L80(12k) = 54,900 hrs L70(12k) > 72,000 hrs

Summary: JK2835 1-W 9-V Value

Applicable order codes: JK2835AWT-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
55 °C	120 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	120 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	120 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

J SERIES® 2835 WHITE LEDS (REV 8) - CONTINUED

Summary: JK2835 Gen 2 1.0-W 9-V Value

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
55 °C	120 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	120 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	120 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

Summary: JK2835 1-W 18-V Value

Applicable order codes: JK2835AWT-xx-xxxx-x0xFxxxxxx

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	59 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	59 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	59 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs

Summary: JK2835 1-W 18-V Value 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
55 °C	42 mA	JK2835 9-V Value @ 55 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 45,800 hrs L80(12k) > 72,000 hrs L70(12k) > 72,000 hrs
105 °C	42 mA	JK2835 9-V Value @ 105 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 33,600 hrs L80(12k) = 69,500 hrs L70(12k) > 72,000 hrs
115 °C	42 mA	JK2835 9-V Value @ 115 °C, 120 mA	2700 K	82	25	12,000 hrs	L90(12k) = 29,000 hrs L80(12k) = 60,500 hrs L70(12k) > 72,000 hrs
115 °C	60 mA	JK2835 18-V Value 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-xxxAXXXXXXXXXX
JB3030AWT-P-xxxxAXxxx-xxxxxxxxxx
- 3030 1-W 3-V P Class JK3030AWT-xx-xxxx-xxxAXXXXXXXXXX
JK3030AWT-P-xxxxAXxxx-xxxxxxxxxx
- 3030 1-W 6-V P Class JK3030AWT-xx-xxxx-xxxBXXXXXXXXX
JK3030AWT-P-xxxxBxxxx-xxxxxxxxxx

No failures occurred during testing.

Summary: JB3030 0.2-W 3-V P Class

Applicable order codes: JB3030AWT-xx-xxxx-xxxAXXXXXXXXXX, JB3030AWT-P-xxxxAXxxx-xxxxxxxxxx

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-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-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 10)

Revision: 10 (June 1, 2021)

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

No failures occurred during testing.

Summary: JR5050 5-W 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	Reported TM-21 Lifetimes
85 °C	479 mA	JR5050 9-V Q Class @ 85 °C, 320 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	758 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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 10) - 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	760 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	750 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	518 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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 10) - 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	500 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	190 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	168 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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 10) - 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	151 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 hrs
85 °C	125 mA	JR5050 9-V Q Class @ 85 °C, 500 mA	2700 K	82	20	12,096 hrs	L90(12k) > 72,600 hrs L80(12k) > 72,600 hrs L70(12k) > 72,600 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 3)

Revision: 3 (July 22, 2021)

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 3) - 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 3) - 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M _P Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _P Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _P Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} 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 _M Lifetimes	PF _{FR} Lifetimes
85 °C	138 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 _{FR} range
85 °C	216 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	180 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 _{FR} range
85 °C	281 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	138 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 _{FR} range
85 °C	216 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	133 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 _{FR} range
85 °C	209 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	267 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 _{FR} range
85 °C	417 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _{M_p} Lifetimes	PF _{FR} Lifetimes
85 °C	133 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 _{FR} range
85 °C	209 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 _{FR} 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 _{M_p} Lifetimes	PF _{FR} Lifetimes
85 °C	479 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 _{FR} range
85 °C	758 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 _{FR} 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 _{M_p} Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{M_p} Lifetimes	PF _{FR} Lifetimes
85 °C	480 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 _{FR} range
85 °C	750 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	329 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 _{FR} range
85 °C	518 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	320 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 _{FR} range
85 °C	500 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	121 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 _{FR} range
85 °C	190 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 _{FR} 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 _M _p Lifetimes	PF _{FR} Lifetimes
85 °C	107 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 _{FR} range
85 °C	168 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M Lifetimes	PF _{FR} Lifetimes
85 °C	96 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 _{FR} range
85 °C	151 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 _{FR} 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 _M Lifetimes	PF _{FR} Lifetimes
85 °C	80 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 _{FR} range
85 °C	125 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 _{FR} 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 _M Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} range

J SERIES® HORTICULTURE LEDS (REV 3) - 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 _M _p Lifetimes	PF _{FR} 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 _{FR} 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 _{FR} 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 _{FR} range