XLamp® XP-G3 S Line Photo Red LED Product Change Notification

Customer Name: XP-G3 S Line Photo Red Customers

PCN Reference Number: PCN-06045

Date Issued: December 4, 2023

Please be advised that Cree LED is updating the XLamp® XP-G3 S Line Photo Red LEDs with improved performance and efficacy, utilizing our latest technology platform.

Please review the additional PCN information below.

Affected Product

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

Table 1 Affected Products List

Cree LED XLamp Family	Cree LED XLamp Product	Cree LED Part Number
XP-G3	S Line Photo Red	XPGDPR-LS-XXXX-XXXXX

Description of the Change

Cree LED will be changing the typical thermal resistance, typical forward voltage, and typical temperature coefficient of voltage characteristics for the affected XP-G3 LEDs. Table 2 shows the current and new values.

Table 2 LED Product Characteristics; Current Values & Estimated New Values

LED	Thermal Resistance, Junction to Solder Point (mV/°C)		Forward Voltage (V) @350 mA, 25 °C		Temperature Coefficient of Voltage (°C/W)	
	Current Typical	New Typical	Current Typical	New Typical	Current Typical	New Typical
XP-G3 S-Line Photo Red	1.0	1.2	1.95	1.87	-1.6	-0.9

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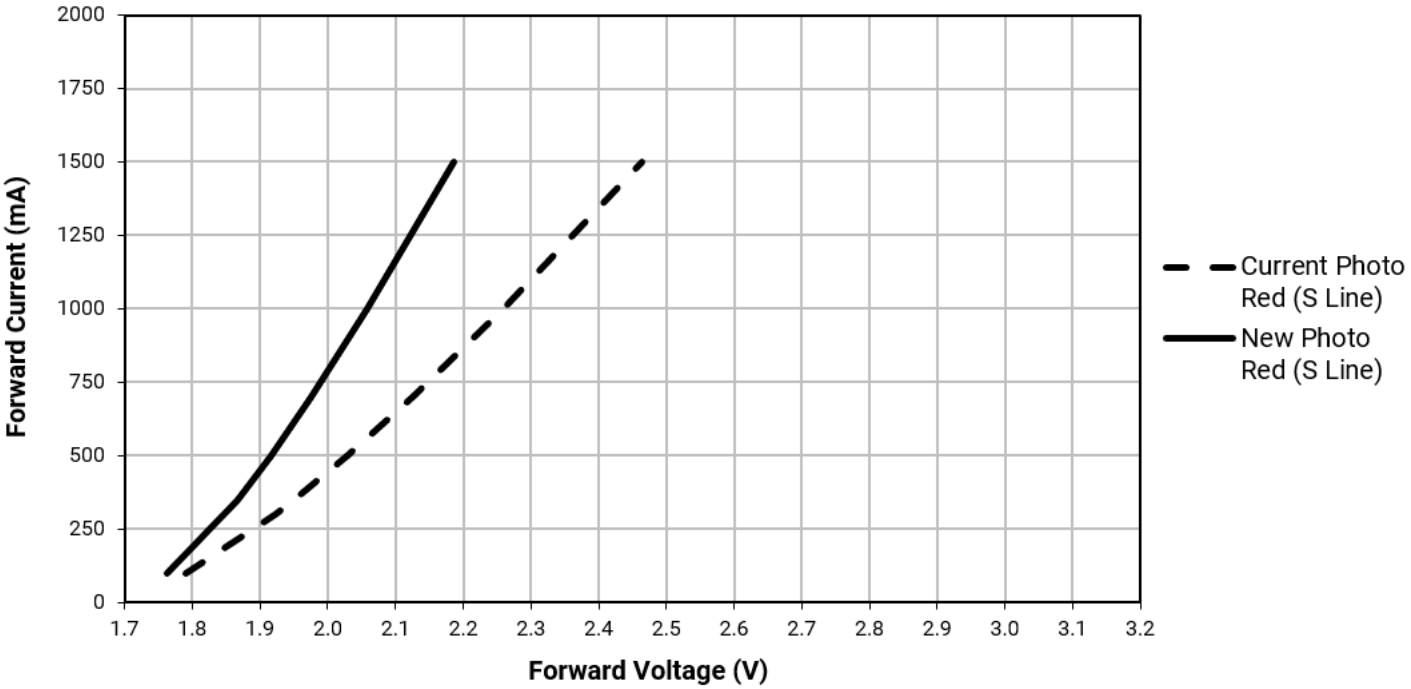
The following graph shows the improved Forward Voltage vs Current curve.



Ray files for the updated LED will be available on cree-led.com on or before January 10, 2024.

Reason for the Change

This change will upgrade the performance of XLamp® XP-G3 S Line Photo Red LEDs utilizing our latest technology platform.

Change Impact on Form, Fit, Function, or Reliability

This change has no impact on the form, fit, or reliability of these LEDs beyond the changes listed above.

Key Dates

Table 3 provides estimated date for sample and initial shipments of the LEDs affected by this change. Any updates to theses dates can be provided by the Cree LED contact listed in Table 3.

Table 3 Key PCN Estimated Dates

Samples Available:	Currently available upon request
Estimated Initial Ship Date:	January 10, 2024

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Starting on the estimated shipment date in Table 3, customers may receive LEDs with the updated performance characteristics. Each reel will contain only LEDs with the current performance or only LEDs with the new performance characteristics. Reels of the new performance LEDs can be identified by a '2' in the last character of the bin code. The bin code is clearly identified on each packaged reel.

The XP-G3 LED datasheet available on creeled.com will be updated with changes described in this PCN on or before the Estimated Initial Ship Date in Table 3.

Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 4 PCN Contact

Contact:	Cree LED Customer Service
Contact E-Mail:	CS@cree-led.com
Contact Phone:	US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301
Address:	Cree LED, Inc. 4001 E Hwy 54, Suite 2000 Durham, NC 27709 USA

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