

Cree LED™ XLamp® Product Change Notification

Customer Name: XP-G2 customers

PCN Reference Number: CreeLED-PCN-5146

Date Issued: April 13, 2021

Please be advised that Cree LED is updating the XLamp® XP-G2 LED product with improved performance, utilizing our latest technology platform which will result in better manufacturing flexibility and improved lead times.

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 Part Number |
|----------------------|
| XPGBWT-x1-xxxx-xxxxx |
| XPGBWT-x3-xxxx-xxxxx |

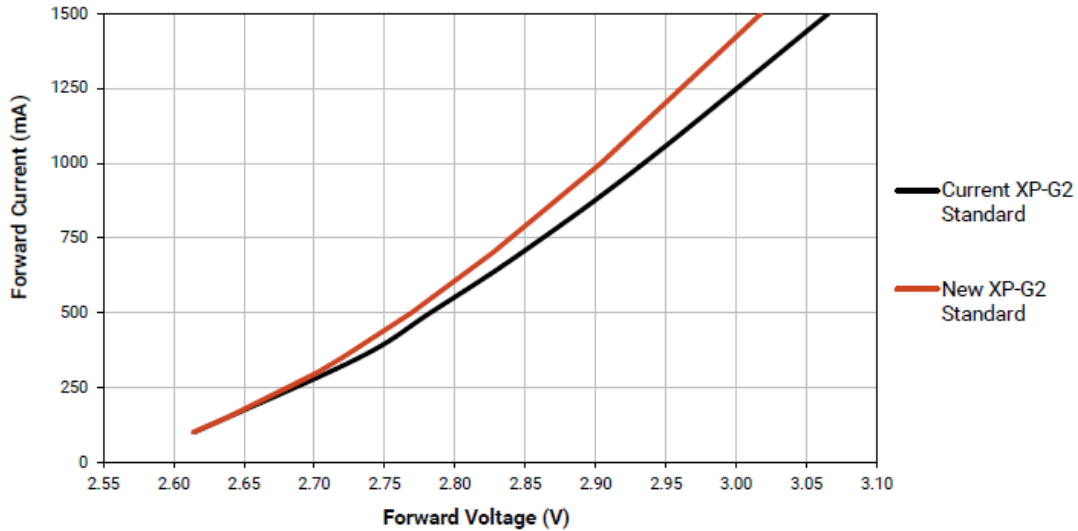
Description of the Change

Cree LED will be changing the typical forward voltage and temperature coefficient of voltage characteristics for XP-G2 LEDs. Table 2 shows the current and new values.

Table 2 Affected Products List

| | Current Typical | New Typical |
|------------------------------------|-----------------------------|-----------------------------|
| Forward voltage | 2.74 V @350 mA, 85 °C | 2.72 V @350 mA, 85 °C |
| Temperature coefficient of voltage | -1.4 mV/°C | -1.3 mV/°C |

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



The visual appearance of the LED will change. Examples of the current and new visual appearances are shown below.



Ray files for new LEDs will be available on cree-led.com on or before April 16, 2021, at the following address:

<https://cree-led.com/products/xlamp-leds-discrete/xlamp-xp-g2>

The ray files for new LEDs will be posted using the following link titles:

- XP-G2 Post PCN 5146 Cool-White Optical Source Model - ProSource 8 (zip)
- XP-G2 Post PCN 5146 Neutral-White Optical Source Model - ProSource 8 (zip)

Reason for the Change

This change is being made to upgrade the performance of XLamp XP-G2 LED product family utilizing our latest technology platform. Additionally, this change will result in better manufacturing flexibility and improved lead times.

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 dates for initial shipments of the LEDs affected by this change.

Table 3 Estimated Initial Shipment Date

| | |
|-------------------------------------|----------------------|
| Estimated Initial Ship Date: | July 15, 2021 |
|-------------------------------------|----------------------|

Starting on the estimated shipment date in Table 3, customers may receive LEDs with the improved characteristics. Each reel will contain only LEDs with the current performance or only LEDs with the new performance characteristics. Reels of new performance LEDs can be identified by an "A" in the twenty-first character of the bin code. The bin code is clearly identified on each packaged reel.

Customers may receive shipments containing both the current and new performance LEDs in the same shipment until Cree's inventory of the current performance LEDs is depleted. Customers purchasing through a distributor will be further delayed seeing this change until the inventory with the current performance is depleted from distributor stock.

The XP-G2 LED datasheet available at <https://cree-led.com/media/documents/XLampXPG2.pdf> 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: | xlampsales@cree-led.com |
| Contact Phone: | US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301 |
| Address: | CreeLED, Inc. 4400 Silicon Dr. Durham, NC 27703-8475 USA |