Cree LED XLamp® XM-L2 LED Product Change Notification

Customer Name:	XM-L2 customers	PCN Reference Number:	CreeLED-PCN-5154
		Date Issued:	May 7, 2021

Please be advised that Cree LED is updating the XLamp® XM-L2 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
XMLBWT-xx-xxxx-xxxxxxxxx

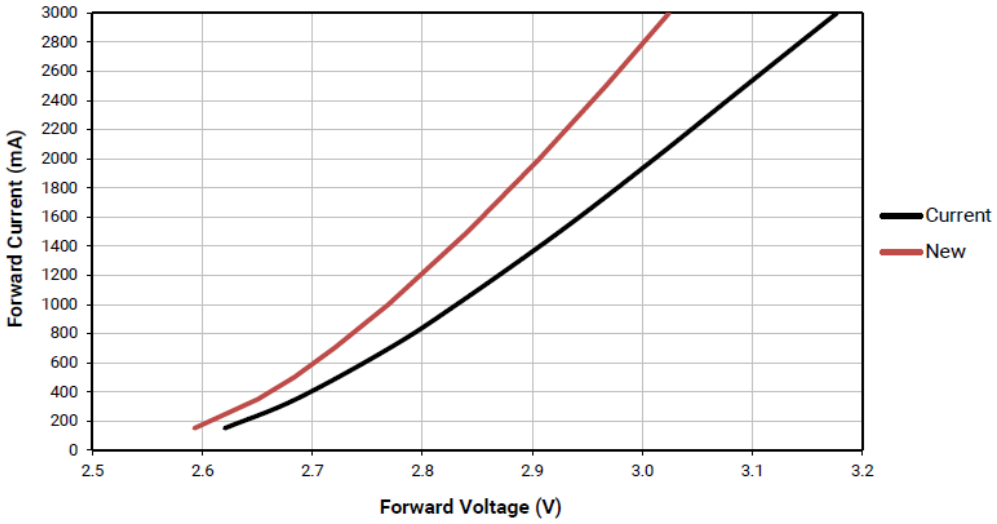
Description of the Change

Cree LED will be changing the typical forward voltage and temperature coefficient of voltage characteristics for XM-L2 LEDs. Table 2 shows the current and new values.

Table 2 Affected Products List

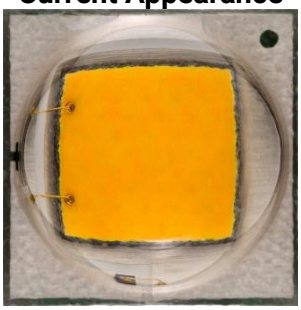
	Current Typical	New Typical
Forward voltage	2.77 V @700 mA, 85 °C	2.72 V @700 mA, 85 °C
Temperature coefficient of voltage	-1.4 mV/°C	-1.3 mV/°C

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

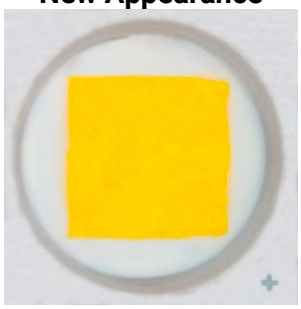


The visual appearance of the LED will change. Examples of the current and new visual appearances are shown below.

Current Appearance



New Appearance



Ray files for new LEDs will be available on cree-led.com on or before June 30, 2021, at the following address:

https://cree-led.com/products/xlamp-leds-discrete/xlamp-xm-l2

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

- XM-L2 Post PCN 5154 Cool White Optical Source Model - ProSource 8 (zip)
- XM-L2 Post PCN 5154 Warm White Optical Source Model - ProSource 8 (zip)

Reason for the Change

This change is being made to upgrade the performance of XLamp XM-L2 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 the estimated date for initial shipments of the LEDs affected by this change.

Table 3 Estimated Initial Shipment Date

Estimated Initial Ship Date:	**August 5, 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 a "3" in the twenty-fourth 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 XM-L2 LED datasheet available at https://cree-led.com/media/documents/XLampXML2.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