

Cree® XLamp® Product Change Notification

Customer Name: XM-L2, XP-G2, XP-L customers

PCN Reference Number: CREE-PCN-0863

Date Issued: August 27, 2019

Please be advised that Cree is making improvements to the voltage characteristics of XLamp® XM-L2, XP-G2 and XP-L LEDs. 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 Part Number
XMLBWT-xx-xxxx-xxxxxxxxxx
XPGBWT-x1-xxxx-xxxxx
XPLAWT-xx-xxxx-xxxxxxxxxx

Description of the Change

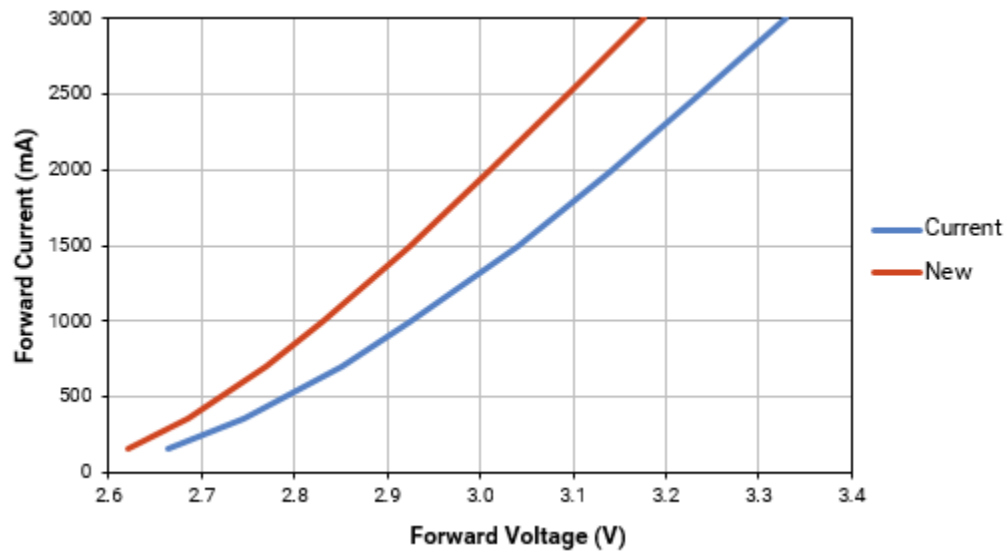
Cree will be changing the typical forward voltage and temperature coefficient of voltage characteristics for XM-L2, XP-G2 and XP-L LEDs. Table 2 shows the current and new values.

Table 2 Current and New Values

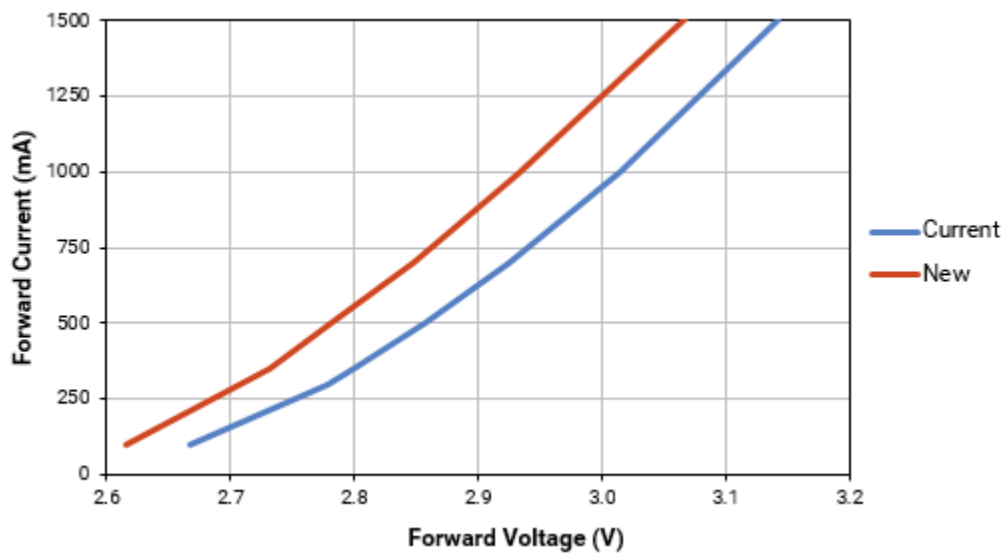
	XM-L2		XP-G2 Standard		XP-L	
	Current	New	Current	New	Current	New
Forward voltage	2.85 V @700 mA, 85 °C	2.77 V @700 mA, 85 °C	2.8 V @350 mA, 85 °C	2.74 V @350 mA, 85 °C	2.95 V @1050 mA, 85 °C	2.84 V @1050 mA, 85 °C
Temperature coefficient of voltage	-1.6 mV/°C	-1.4 mV/°C	-1.8 mV/°C	-1.4 mV/°C	-2 mV/°C	-1.4 mV/°C

The following graphs show the improved Forward Voltage vs. Current curves.

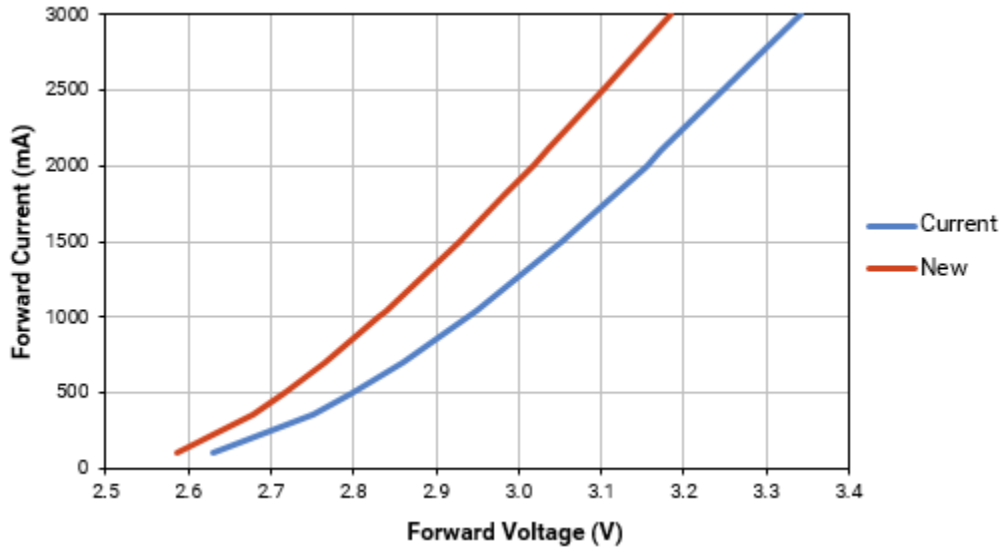
XM-L2



XP-G2



XP-L



Reason for the Change

This change is being made to improve performance for our customers.

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 Dates

XM-L2	October 4, 2019
XP-G2	November 22, 2019
XP-L	December 6, 2019

Starting on the estimated shipment dates 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 “1” in the fourteenth 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.

Cree Contact Information

If you have any questions regarding this PCN please contact:

Table 4 PCN Contact

Cree Contact:	LEDs Customer Service
Cree Contact E-Mail:	xlampsales@cree.com
Address:	4600 Silicon Dr. Durham, NC 27703