

Cree® XLamp® XB-D Color LED Product Change Notification

Customer Name: Color XB-D customers

PCN Reference Number: CREE-PCN-1063

Date Issued: April 14, 2020

Please be advised that Cree is making improvements to the voltage characteristics of XLamp® XB-D color 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
XBDBLU-xx-xxxx-xxxxxxxxxx
XBDGRN-xx-xxxx-xxxxxxxxxx
XBDAMB-xx-xxxx-xxxxxxxxxx
XBDRDO-xx-xxxx-xxxxxxxxxx
XBDRED-xx-xxxx-xxxxxxxxxx

Description of the Change

Cree will be changing the typical forward voltage, temperature coefficient of voltage, and thermal resistance characteristics for XB-D color LEDs. Table 2 shows the current and new values.

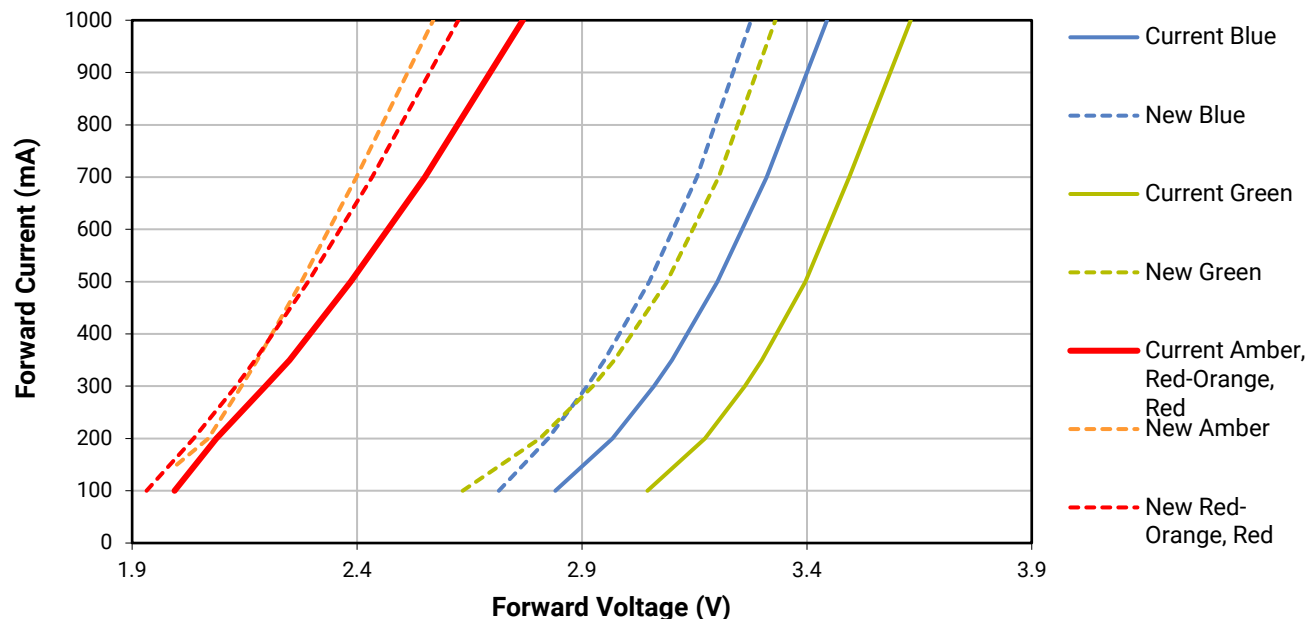
Table 2 XB-D Current and New Values

XB-D LED	Typical Forward Voltage (Vf @ 350 mA, 25 °C)		Temperature Coefficient of Voltage (mV/°C)		Thermal Resistance (°C/W)	
	Current	New	Current	New	Current	New
Blue	3.1	2.95	-3.3	-1.2	6.5	6.5
Green	3.3	2.97	-3.3	-1.2	11	11
Amber	2.25	2.17	-2	-1.8	7	7.8
Red-Orange	2.25	2.17	-2	-1.8	5	5
Red	2.25	2.17	-2	-1.8	5	5

New luminous flux bins will be available as a result of these improvements. The new bins will be reflected in the data sheet when these changes are implemented.

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

XB-D



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 an estimated date for initial shipments of the LED affected by this change.

Table 3 Estimated Initial Shipment Date

XB-D	June 20, 2020
------	---------------

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 “8” in the last 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