

Cree® XLamp® XT-E Royal Blue LED Product Change Notification

Customer Name: XT-E Royal Blue customers

PCN Reference Number: CREE-PCN-1048

Date Issued: April 3, 2020

Please be advised that Cree is making improvements to the voltage characteristics of XLamp® XT-E Royal Blue LEDs and that we will begin shipping the affected product with the change after July 1, 2020.

Please review the additional PCN information below.

Affected Product

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

Table 1 Affected Products List

Cree Part Number
XTEARY-xx-xxxx-xxxxxxxxxx

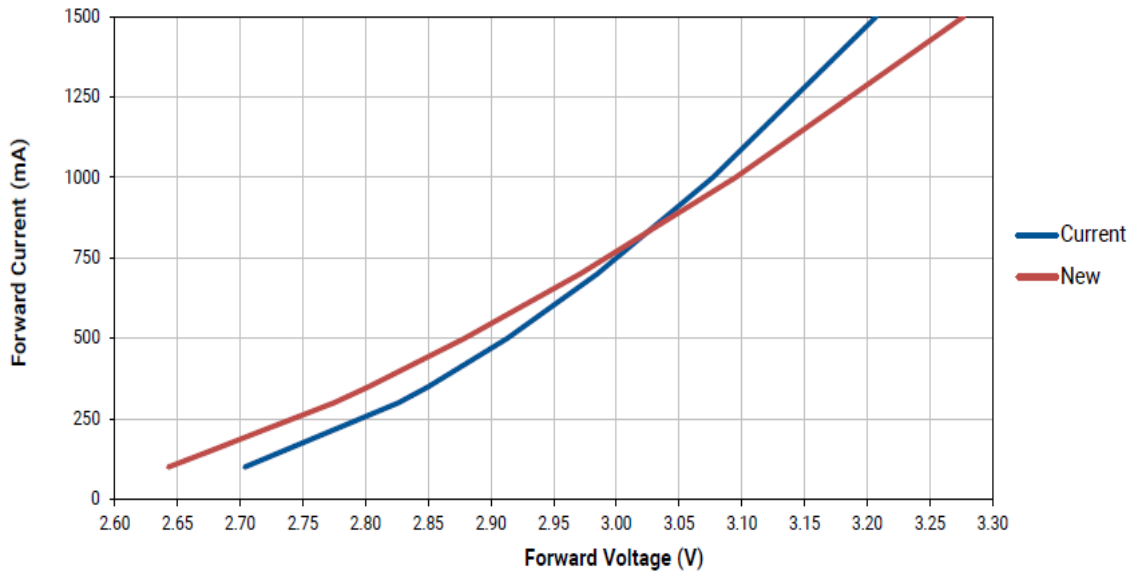
Description of the Change

Cree will be changing the typical forward voltage, temperature coefficient of voltage and thermal resistance characteristics of XT-E Royal Blue LEDs. Table 2 shows the current and new values.

Table 2 Current and New Values

	XT-E Royal Blue	
	Current	New
Forward voltage	2.85 V @ 350 mA, 85 °C	2.8 V @ 350 mA, 85 °C
Temperature coefficient of voltage	-2.5 mV/°C	-1.3 mV/°C
Thermal resistance	5 °C/W	3.5 °C/W

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



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.

After July 1, 2020, 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.

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 3 PCN Contact

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