XLamp® ML-E Blue & Green LED Product Change Notification

Customer Name:	ML-E Blue & Green LED Customers	PCN Reference Number:	CreeLED-PCN-5237
		Date Issued:	September 21, 2021

Please be advised that Cree LED is updating the XLamp® ML-E blue and green LED products 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
MLEBLU-A1-xxxx-xxxxxx
MLESBL-A1-xxxx-xxxxxx
MLEGRN-A1-xxxx-xxxxxx
MLESGN-A1-xxxx-xxxxxx

Description of the Change

Cree LED will be changing the typical forward voltage, thermal resistance, and temperature coefficient of voltage characteristics for ML-E blue and green LEDs. Table 2 shows the current and new values.

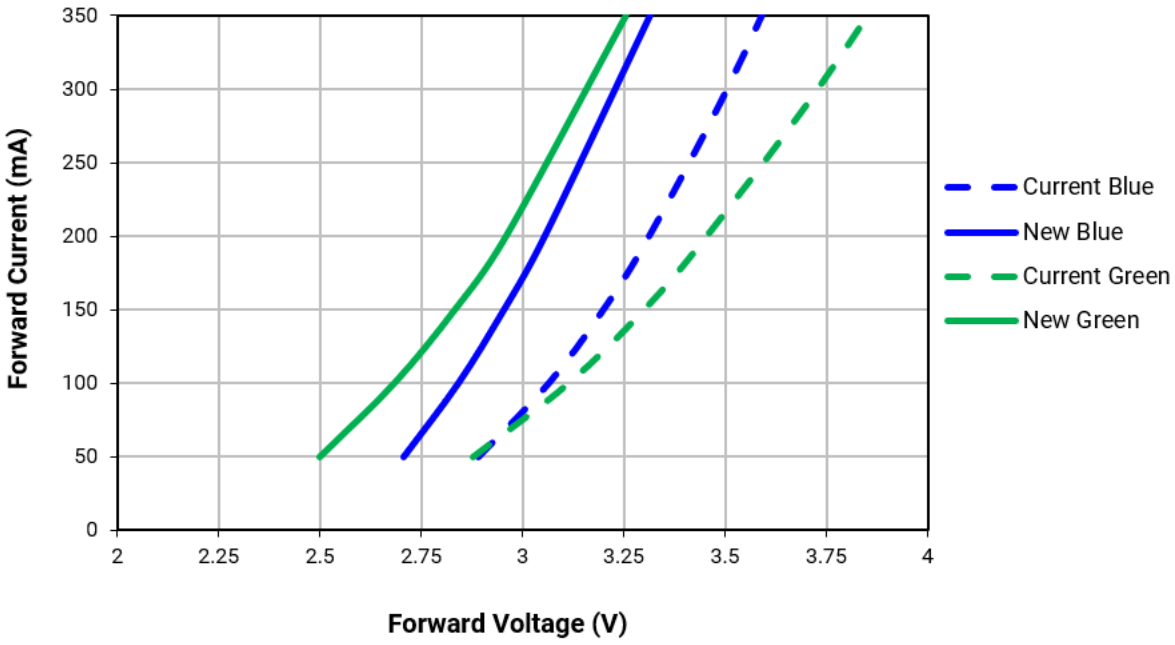
Table 2 Affected Products List

Characteristic	Forward Voltage (V)*		Thermal Resistance (°C/W)		Temperature Coefficient of Voltage (mV/°C)	
	Current Typical	New Typical	Current Typical	New Typical	Current Typical	New Typical
Parallel Blue	3.2	3.0	11	11	-3.3	-2
Series Blue	9.6	9.0	11	11	-10	-5
Parallel Green	3.3	3.0	15	22	-4	-3
Series Green	9.9	9.0	15	22	-11	-9

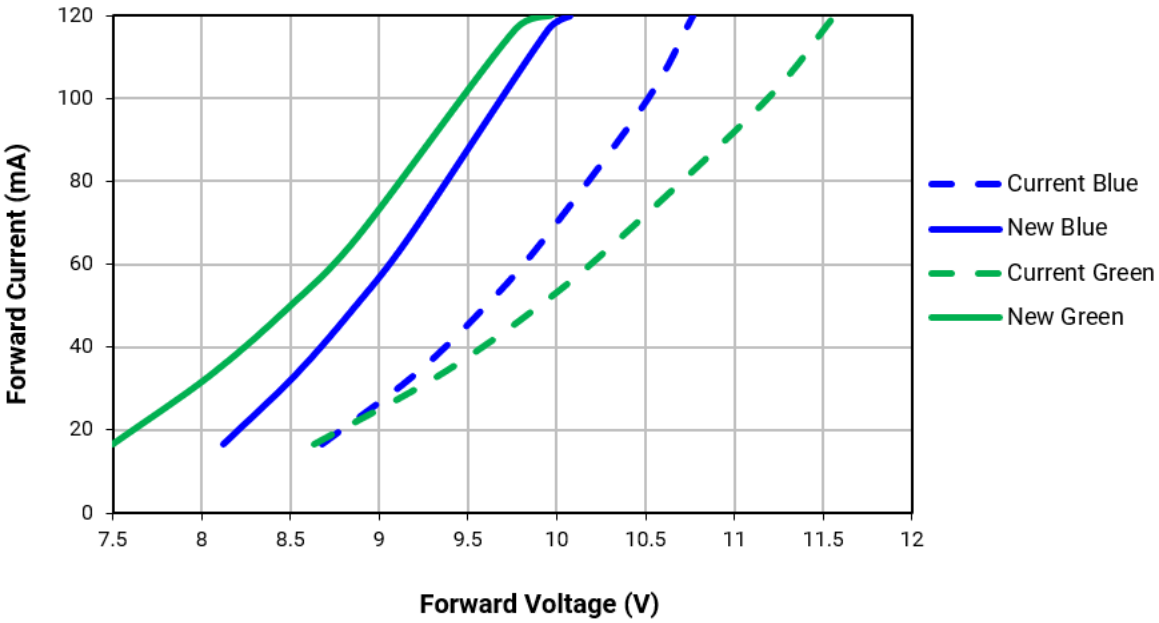
* The forward voltage for parallel LEDs is measured at 150 mA. The forward voltage for series LEDs is measured at 50 mA.

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

Parallel

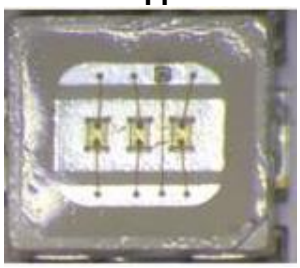


Series

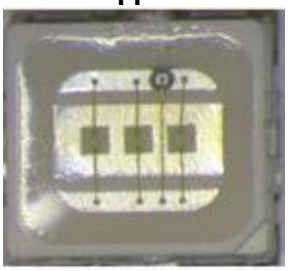


The visual appearance of the LEDs will change. Examples of the current and new visual appearances are shown below.

Current Appearance



New Appearance



Reason for the Change

This change is being made to upgrade the performance of XLamp ML-E blue and green LEDs 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:	**September 30, 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 “4” 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 ML-E LED datasheet available at https://cree-led.com/media/documents/XLampMLE.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
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