

XLamp® XQ-A LED Product Change Notification

Customer Name: XQ-A LED Customers

PCN Reference Number: CreeLED-PCN-5336

Date Issued: October 17, 2022

Please be advised that Cree LED is changing the voltage characteristics of XLamp® XQ-A LEDs. We will begin shipping the affected product with the change after the PCN Issue Date. The changes in this PCN supersede all previously published changes listed in CreeLED PCN-5263.

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 LED Product Family	Cree LED Part Number
XQ-A White	XQAAWT-xx-xxxx-xxxxxxxxxx
XQ-A Blue	XQABLU-xx-xxxx-xxxxxxxxxx
XQ-A PC Blue	XQAAPB-xx-xxxx-xxxxxxxxxx
XQ-A PC Amber	XQAAPA-xx-xxxx-xxxxxxxxxx

Description of the Change

Cree LED will be changing the maximum voltage for XQ-A White, Blue, PC Blue, and PC Amber LEDs. Table 2 shows the current and new values.

Table 2 XQ-A Color Current and New Values

XQ-A LED	Maximum Voltage (V)	
	Current	New
White	3.3	3.1
Blue	3.6	3.1
PB Blue	3.6	3.1
PC Amber	3.7	3.4

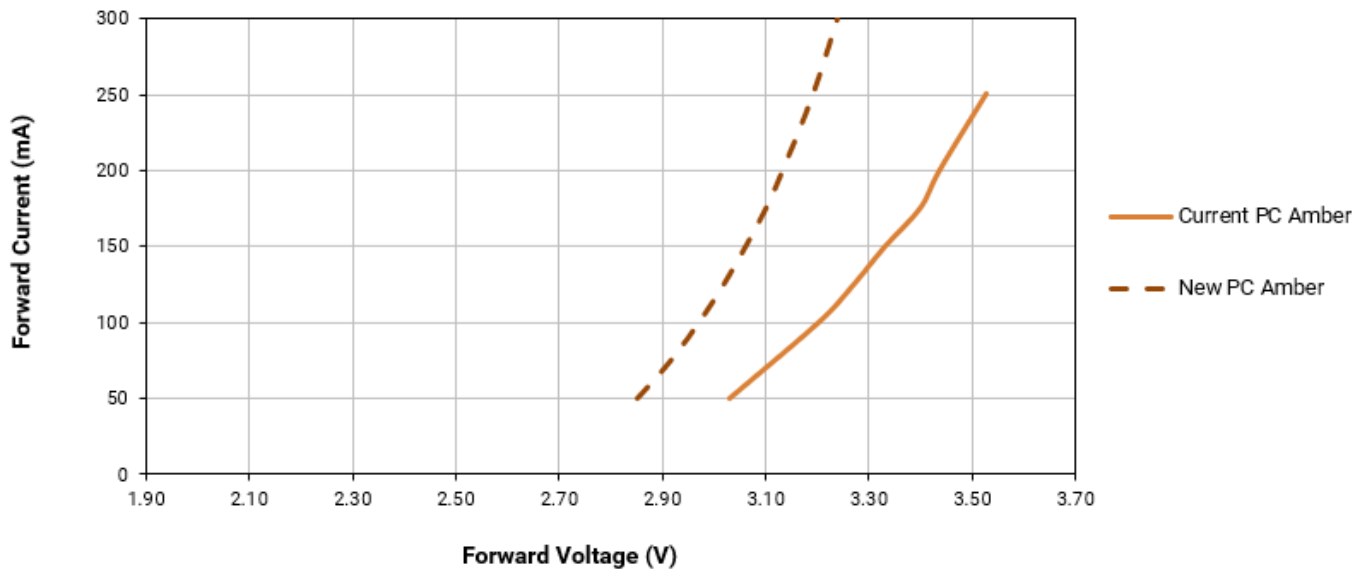
Cree LED will be changing the typical forward characteristics for XQ-A PC Amber LEDs. Table 3 shows the current and new values.

Table 3 XQ-A White Current and New Values

XQ-A LED	Typical Forward Voltage (V @ 175 mA, 25°C)	
	Current	New
PC Amber	3.4	3.1

The following graph shows the improved Forward Voltage vs. Current curve ($T_j = 85^\circ\text{C}$).

XQ-A PC Amber



Reason for the Change

This change is being made to utilize our latest technology platform and increase efficiency on XLamp XQ-A LEDs. 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. and supersedes all previously published changes listed in CreeLED-PCN-5263.

Key Dates

Table 4 provides estimated dates for initial shipments of the LEDs affected by this change. Any updates to these dates can be provided by the Cree LED contact listed in Table 5.

Table 4 Estimated Initial Shipment Dates

Estimated Initial Ship Date:	October, 2022
-------------------------------------	----------------------

Starting on the estimated shipment dates in Table 4, 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 “A” in the last character of the bin code. The bin code is clearly identified on each packaged reel.

Current and new performance LEDs will not be contained in the same shipment. Current performance LEDs will be shipped until Cree LED’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.

XLamp XQ-A LED data sheet is available at the Cree LED website and will be updated with changes described in this PCN on or before the Estimated Initial Ship Date in Table 4.

Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 5 Cree LED’s PCN Contact

Contact:	Cree LED Customer Service
Contact E-Mail:	CS@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