

XLamp® LED Product Change Notification

Customer Name: XLamp LED Customers

PCN Reference Number: P-06001

Date Issued: November 22, 2022

Please be advised that Cree LED is updating below stated XLamp® LED product families with higher performance as part of our continuous product improvements. These improvements are estimated to be reflected on the individual product data sheets before the end of 2022.

Affected Product

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

Table 1 Affected Products List

Cree LED Part Number (x=wildcard character)
XHP35B-0x-xxxx-xxxxxxxxxx
XHP35B-Hx-xxxx-xxxxxxxxxx
XPEAMB-xx-xxxx-xxxxx
XPERDO-xx-xxxx-xxxxx
XPERED-xx-xxxx-xxxxx
XPEBRY-xx-xxxx-xxxxx
XPEBBL-xx-xxxx-xxxxx
XPEBWT-xx-xxxx-xxxxx
XPEBGR-xx-xxxx-xxxxx
XPEBPA-xx-xxxx-xxxxx
XPEBAM-xx-xxxx-xxxxx
XPEBRO-xx-xxxx-xxxxx
XPEBRD-xx-xxxx-xxxxx
XPEBPR-xx-xxxx-xxxxx
XPEBFR-xx-xxxx-xxxxx
XQExxx-0x-xxxx-xxxxxxxxxx
XQExxx-Hx-xxxx-xxxxxxxxxx

Description of the Change

Cree LED is upgrading the stated performance of the above listed products for maximum current and/or thermal coefficient of voltage. See Table 2 for specific updates.

Table 2 Product Characteristic – Maximum Current

Cree LED Part Number	Max Current [A]	
	Current	New
XHP35B-0x-xxxx-xxxxxxxxx XHP35B-Hx-xxxx-xxxxxxxxx	1.05	1.5
XPEAMB-xx-xxxx-xxxxx	0.5	1
XPERDO-xx-xxxx-xxxxx XPERED-xx-xxxx-xxxxx	0.7	1
XPEBRY-xx-xxxx-xxxxx XPEBBL-xx-xxxx-xxxxx	1	1.2
XPEBWT-xx-xxxx-xxxxx XPEBGR-xx-xxxx-xxxxx XPEBPA-xx-xxxx-xxxxx XPEBAM-xx-xxxx-xxxxx XPEBRO-xx-xxxx-xxxxx XPEBRD-xx-xxxx-xxxxx XPEBPR-xx-xxxx-xxxxx XPEBFR-xx-xxxx-xxxxx	1	1.5
XQExxx-0x-xxxx-xxxxxxxxx XQExxx-Hx-xxxx-xxxxxxxxx	1	1.5

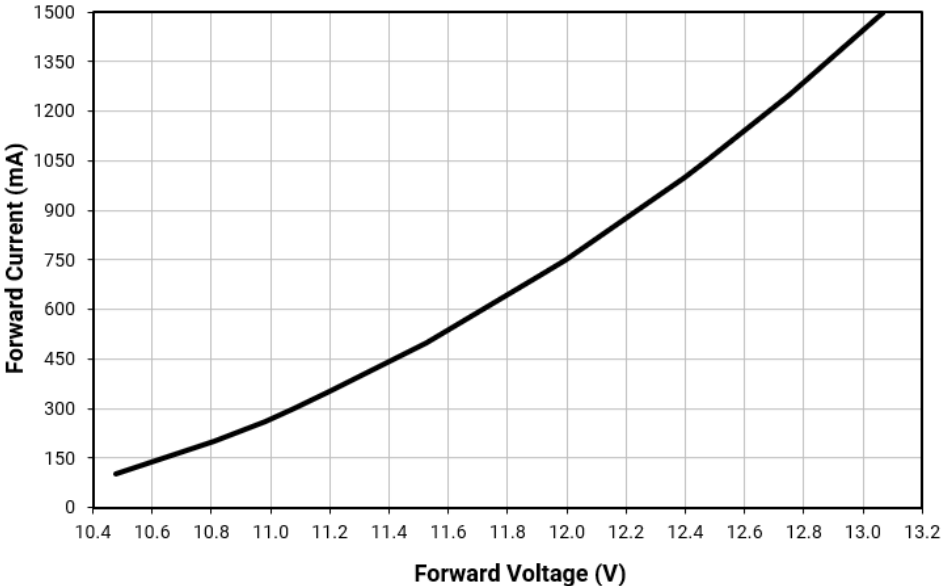
Table 3 Product Characteristic – TCoV

Cree LED Part Number	Thermal Coefficient of Voltage [mV/°C]	
	Current	New
XPEAMB-xx-xxxx-xxxxx	-1.2	-2.1

The following graphs show the updated Forward Voltage vs Current Curves.

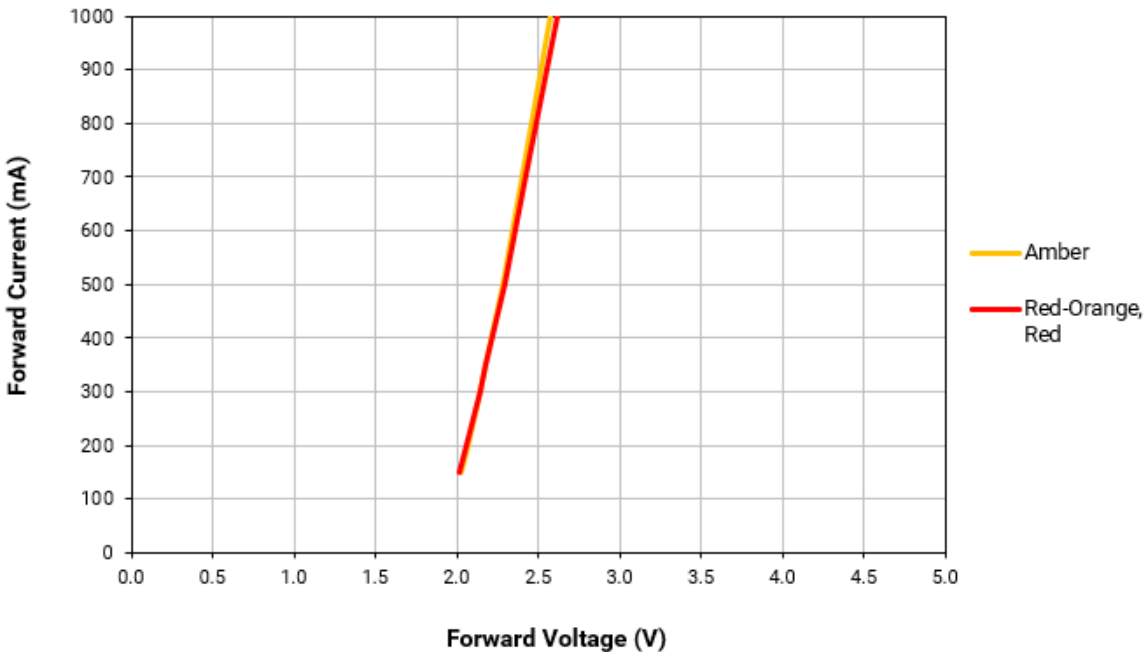
XHP35.2

For XHP35.2, the current maximum current is 1050 mA. The new maximum current is 1500 mA.



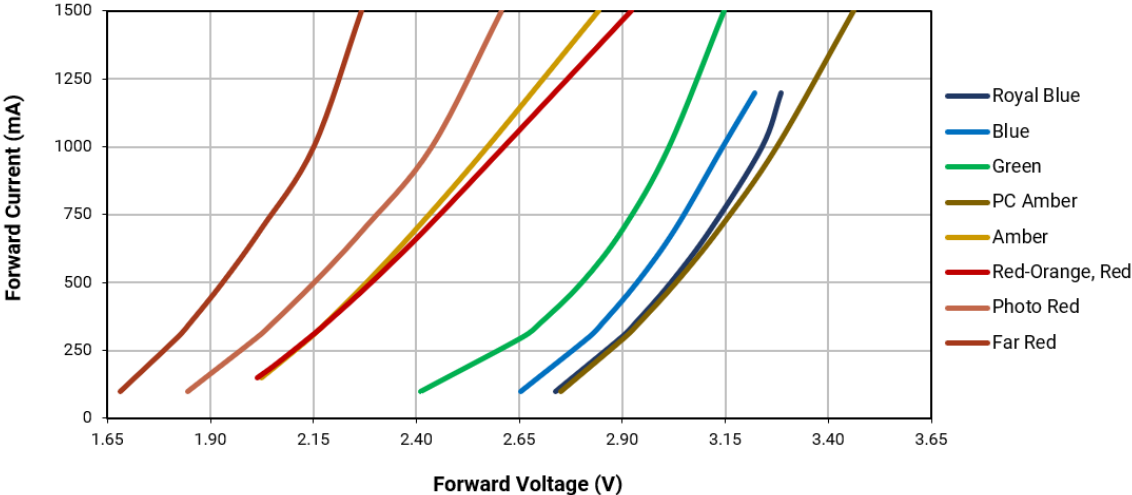
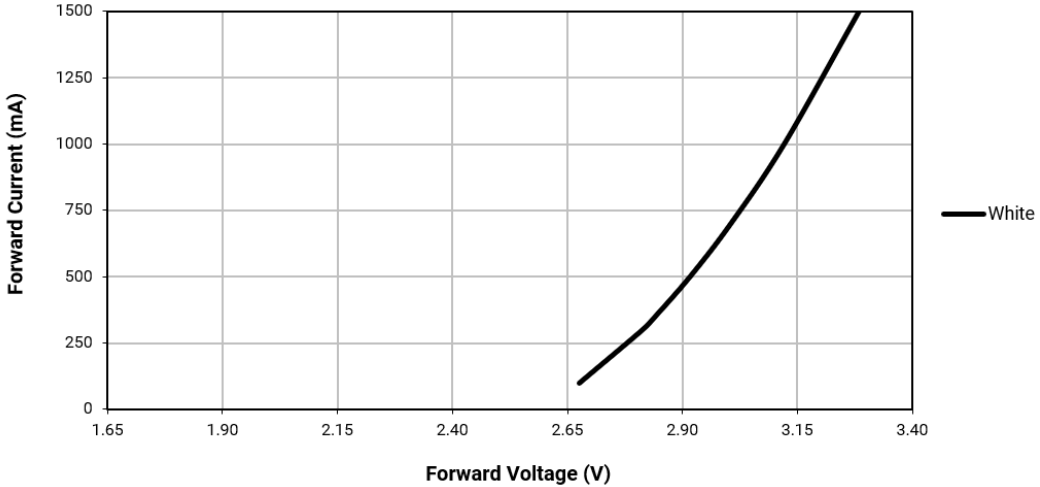
XP-E

For XP-E Amber, the current maximum current is 500 mA. For XP-E Red-Orange and Red, the current maximum current is 700 mA. The new maximum current for each is 1000 mA.



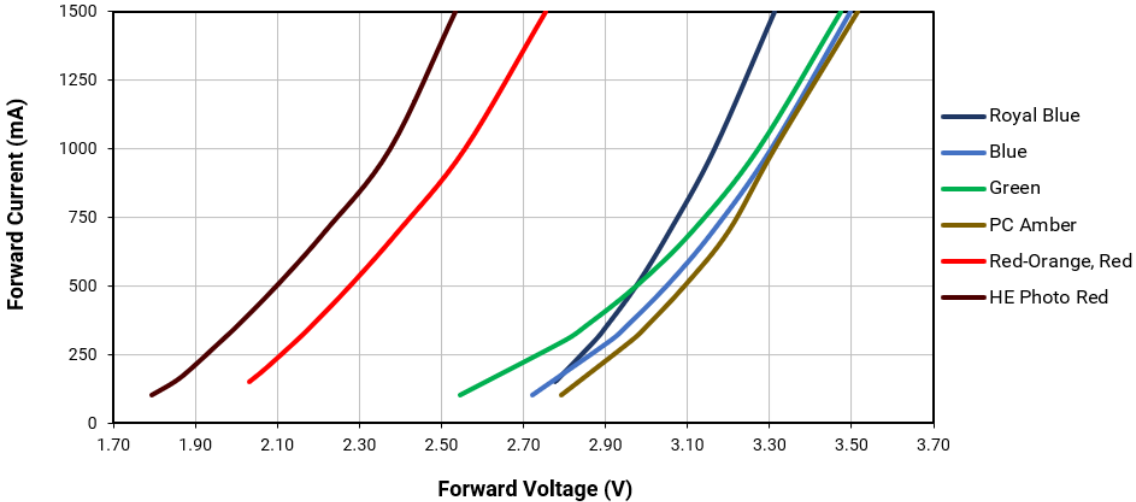
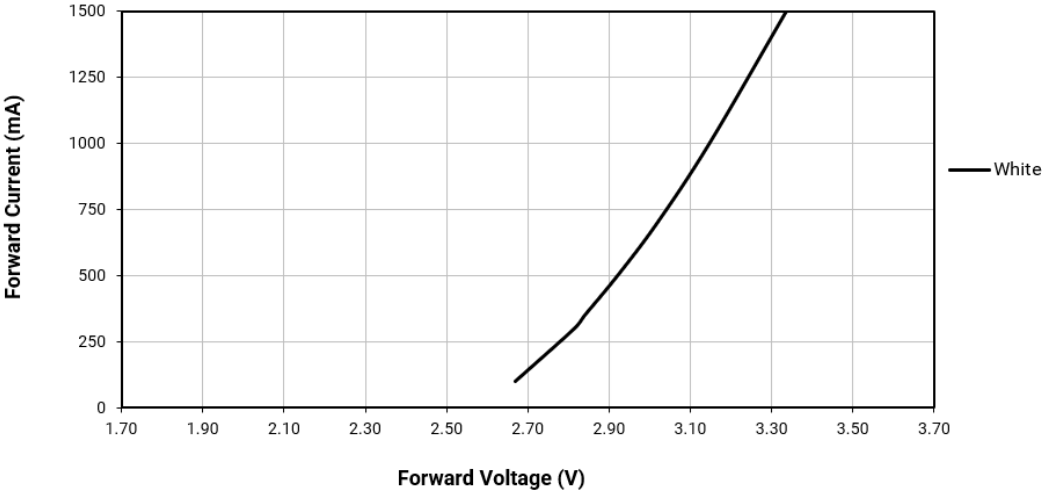
XP-E2

For XP-E2, the current maximum current is 1000 mA. The new maximum current is 1200 mA for royal blue and blue, and 1500 mA for others.

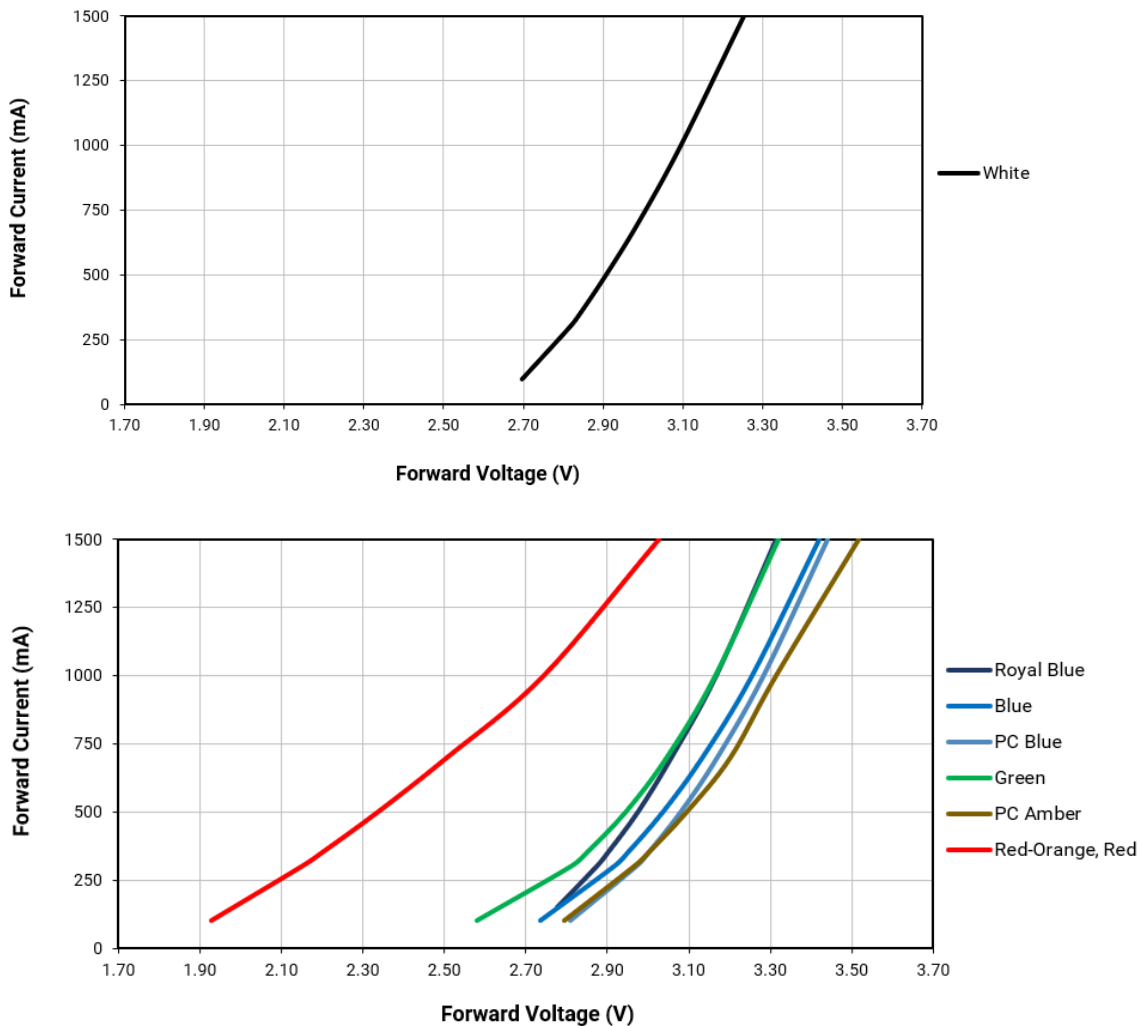


XQ-E HD

For XQ-E, the current maximum current is 1000 mA. The new maximum current is 1500 mA.



XQ-E HI



Reason for the Change

This change upgrades the documented characteristics of the listed XLamp LEDs as part of the continuous product improvements. These changes are enabled by additional qualification testing that was completed after the initial availability of these LEDs and applies to all existing versions of these LEDs.

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 4 provides an estimated date for a key PCN Milestone based on information available at the date the PCN was issued. Any updates to this date can be provided by the Cree LED contact listed in Table 5.

Table 4 Key PCN Estimated Date

All Updated Datasheets Published by:	December 31, 2022
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Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 5 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