

# XLamp<sup>®</sup> 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<sup>®</sup> 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:

Cree LED Part Number (x=wildcard character)
XHP35B-0x-xxxx-xxxxxxxxx
XHP35B-Hx-xxxx-xxxxxxxxx
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-xxxxxxxx
XQExxx-Hx-xxxx-xxxxxxxx

Table 1 Affected Products List



# **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.

Orea LED Dort Number	Max Current [A]	
Cree LED Part Number	Current	New
XHP35B-0x-xxxx-xxxxxxxxx XHP35B-Hx-xxxx-xxxxxxxxx	105 15	
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	
XPEBWT-xx-xxxx-xxxx XPEBGR-xx-xxxx-xxxx XPEBPA-xx-xxxx-xxxx XPEBAM-xx-xxxx-xxxx XPEBRO-xx-xxxx-xxxx XPEBRD-xx-xxxx-xxxx XPEBPR-xx-xxxx-xxxx XPEBFR-xx-xxxx-xxxx	1	1.5
XQExxx-0x-xxxx-xxxxxxxx XQExxx-Hx-xxxx-xxxxxxxx	1	1.5

Table 2 Product Characteristic – Maximum Current

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.



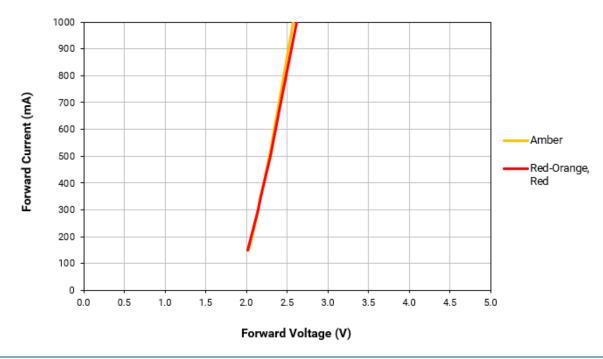
#### XHP35.2

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.

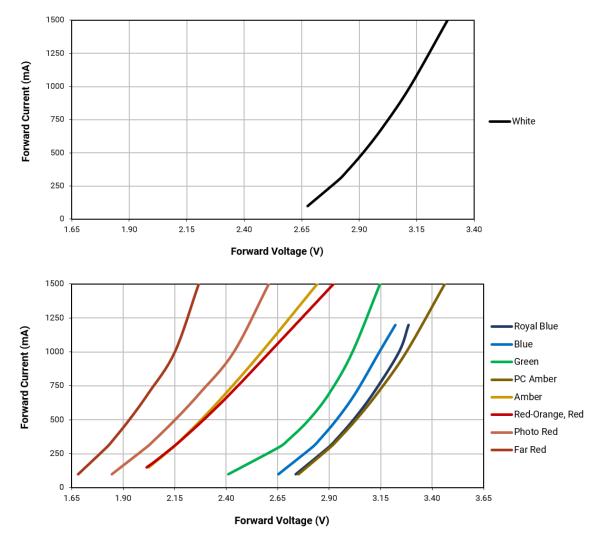


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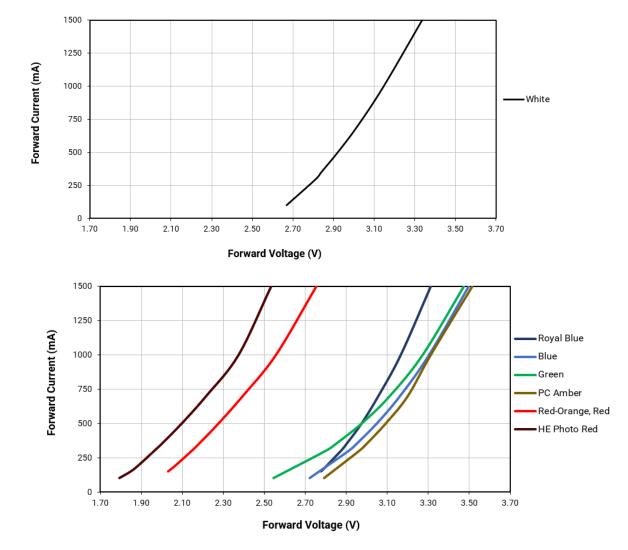
#### XP-E2

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

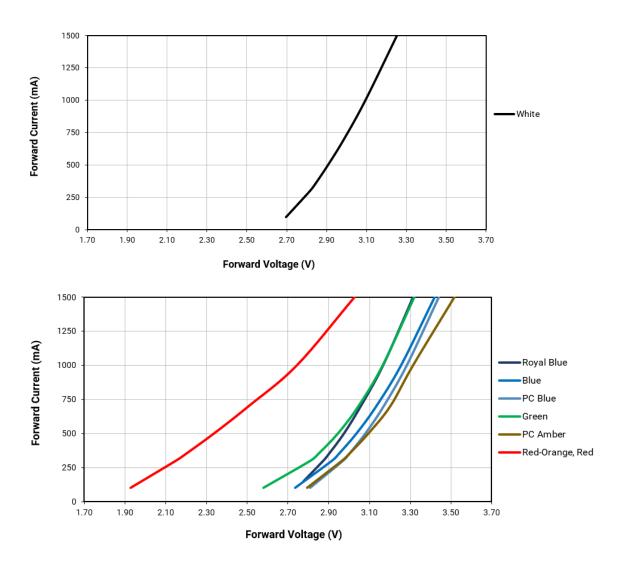


For XQ-E, the current maximum current is 1000 mA. The new maximum current is 1500 mA.

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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.

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# **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:

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

Table 5 PCN Contact