

XLamp® LED Product Change Notification

Customer Name:	XP-C, XP-E, XR-E, XP-G Customers	PCN Reference Number:	CreeLED-PCN-5162
		Date Issued:	May 19, 2021

Please be advised that as a part of our ongoing process improvement Cree LED will be improving the performance of several XLamp® LED product families. These improvements are scheduled to be cut into production in the first half of 2022. Updated information will be provided in subsequent product specific PCNs, targeted for later in 2021.

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 XLamp Family	Cree LED XLamp Product	Cree LED Order Code
XP-C	White	XPCWHT-xx-xxxx-xxxxx
	Blue	XPCBLU-xx-xxxx-xxxxx
	Green	XPCGRN-xx-xxxx-xxxxx
XP-E	White	XPEWHT-xx-xxxx-xxxxx
	Blue	XPEBLU-xx-xxxx-xxxxx
	Green	XPEGRN-xx-xxxx-xxxxx
XR-E	White	XREWHT-xx-xxxx-xxxxx
XP-G	White	XPGWHT-xx-xxxx-xxxxx

Description of the Change

For the LEDs listed in Table 1, Cree LED will begin shipping the improvements resulting in higher luminous flux output and improved voltage characteristics. As a result of these improvements, Cree LED will ship brighter luminous flux bins against existing order codes relative to what customers are currently receiving. Table 2 lists the estimated increase in shipped luminous flux bins and the estimated change to typical forward voltage.

Table 2 LED Product Characteristics; Current Values & Estimated New Values

LED	Binning Condition	Estimated Increase in Shipped Flux Bins	Estimated Typical Forward Voltage (Vf) Decrease
XP-C White	350 mA @ T _j =25 °C	2 – 4	1.5% - 2.5%
XP-C Blue	350 mA @ T _j =25 °C	1 – 2	1.5% - 2.5%
XP-C Green	350 mA @ T _j =25 °C	4 – 8	6.0% - 8.0%
XP-E White	350 mA @ T _j =25 °C	2 – 4	1.5% - 2.5%
XP-E Blue	350 mA @ T _j =25 °C	1 – 2	1.5% - 2.5%
XP-E Green	350 mA @ T _j =25 °C	4 – 8	6.0% - 8.0%
XR-E White	350 mA @ T _j =25 °C	2 – 4	1.5% - 2.5%
XP-G White	350 mA @ T _j =25 °C	2 – 4	1.5% - 2.5%

Final datasheet characteristics and improved Forward Voltage vs. Current curves will be provided in subsequent product-specific PCNs. The estimated improvements listed in Table 2 should be used for reference only and not as a specification for performance.

Customers do not need to change order codes to take advantage of these improvements.

Reason for the Change

This change is being made as part of our ongoing process of performance improvement and to increase the longevity of these product families.

Change Impact on Form, Fit, Function, or Reliability

Subsequent product-specific PCNs will be issued for each product in Table 1 to clarify final changes and may include additional changes beyond those listed above.

Key Dates

Table 3 provides an estimated date for subsequent PCNs for the LED products affected by this change. Subsequent PCNs will include additional Key Dates.

Table 3 Estimated Subsequent PCN Dates

Cree LED XLamp Product	Estimated Subsequent PCN Date
XP-C White	December 31, 2021
XP-C Blue	November 31, 2021
XP-C Green	November 31, 2021
XP-E White	October 31, 2021
XP-E Blue	October 31, 2021
XP-E Green	October 31, 2021
XR-E White	November 31, 2021
XP-G White	December 31, 2021

Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 4 PCN Contact at Cree LED

Cree LED Contact:	Cree LED Customer Service
Cree LED Contact E-Mail:	xlampsales@cree-led.com
Cree LED 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 USA