

XLamp® XP-G LED Product Change Notification

Customer Name: XP-G White LED Customers

PCN Reference Number: CreeLED-PCN-5308
Date Issued: April 13, 2022

Please be advised that Cree LED is updating the XLamp® XP-G White LED product with improved performance and efficacy, 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

XLamp LED Family	XLamp LED Product	Cree LED Part Number
XP-G	White	XPGWHT-X1-XXXX-XXXXX

Description of the Change

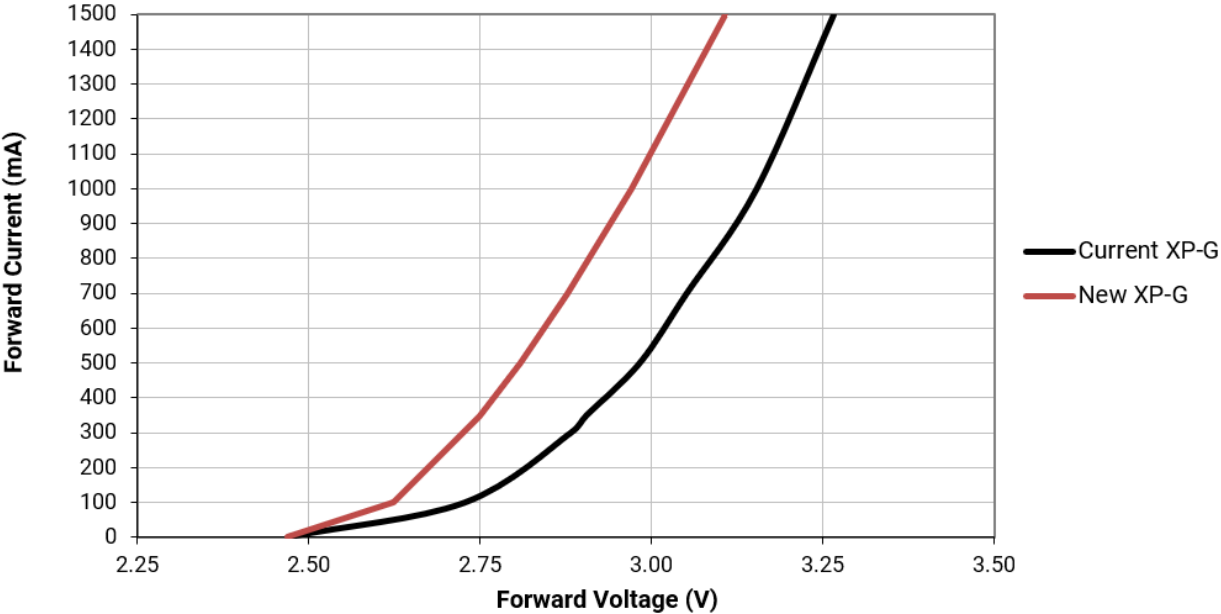
Cree LED will be changing the typical thermal resistance, typical and maximum forward voltage, and typical temperature coefficient of voltage characteristics for the affected XP-G LEDs. Table 2 shows the current and new values.

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

LED	Thermal Resistance, junction to solder point (°C/W)		Forward Voltage (V) @ 350 mA, 25 °C				Temperature Coefficient of Voltage (mV/°C)		Viewing Angle / FWHM (degrees)	
	Current Typical	New Typical	Current Typical	New Typical	Current Maximum	New Maximum	Current Typical	New Typical	Current Typical	New Typical
XPGWHT	4	1	2.9	2.75	3.25	3.1	-2.1	-1.3	127	130

The following graph shows the improved Forward Voltage vs Current Curves.

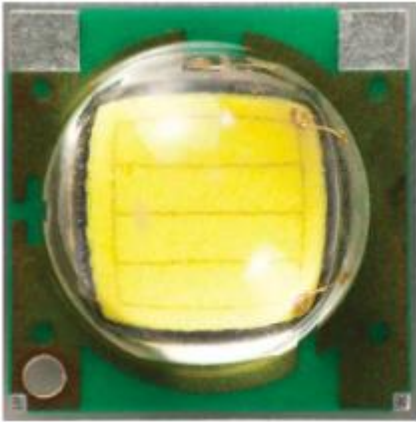
Figure 1 LED Forward Voltage vs Current Curves



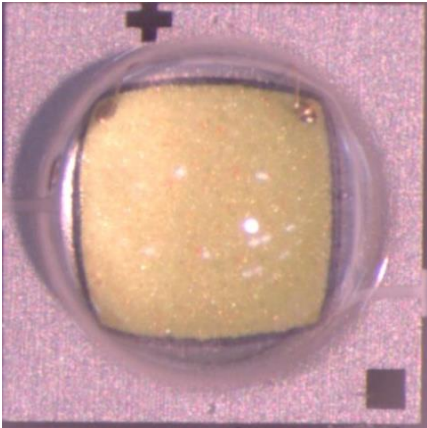
The visual appearance of the LED will change. Examples of the current and new visual appearances are shown below.

Figure 2 XP-G White appearance comparison

Current Appearance



New Appearance



Ray files for the new performance LEDs will be available on www.cree-led.com on or before July 11th, 2022.

Reason for the Change

This change is being made to upgrade the performance and efficacy of XLamp XP-G White 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 estimated date 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 3.

Table 3 Key PCN Estimated Dates

Estimated Initial Ship Date:	July 11, 2022
-------------------------------------	----------------------

Starting on the estimated shipment date in Table 3, customers may receive LEDs with the updated performance characteristics. Each reel will contain only LEDs with the current performance or only LEDs with the new performance characteristics. Reels of the new performance LEDs can be identified by a 'C' 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.

The XP-G LED data sheet available at the Cree LED web site 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
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

This is a Product Change Notification for XLamp XP-G White LEDs.
Affected part list:

ITEM_NUMBER
XPGWHT-01-0000-00DE6
XPGWHT-01-0000-00DF6
XPGWHT-01-0000-00EE3
XPGWHT-01-0000-00EE4
XPGWHT-01-0000-00EE5
XPGWHT-01-0000-00EE6
XPGWHT-01-0000-00EF4
XPGWHT-01-0000-00EF5
XPGWHT-01-0000-00EF6
XPGWHT-01-0000-00FE3
XPGWHT-01-0000-00FE4
XPGWHT-01-0000-00FE5
XPGWHT-01-0000-00FE6
XPGWHT-01-0000-00FF4
XPGWHT-01-0000-00FF5
XPGWHT-01-0000-00FF6
XPGWHT-01-0000-00GE3
XPGWHT-01-0000-00GE4
XPGWHT-01-0000-00GE5
XPGWHT-01-0000-00GE6
XPGWHT-01-0000-00GF4
XPGWHT-01-0000-00GF5
XPGWHT-01-0000-00HE3
XPGWHT-01-0000-00HE4
XPGWHT-01-0000-00HE5
XPGWHT-01-0000-00HF4
XPGWHT-01-R250-00DE6
XPGWHT-01-R250-00DF6
XPGWHT-01-R250-00EE3
XPGWHT-01-R250-00EE4
XPGWHT-01-R250-00EE5
XPGWHT-01-R250-00EE6
XPGWHT-01-R250-00EF4
XPGWHT-01-R250-00EF5
XPGWHT-01-R250-00EF6
XPGWHT-01-R250-00FE3
XPGWHT-01-R250-00FE4
XPGWHT-01-R250-00FE5
XPGWHT-01-R250-00FE6
XPGWHT-01-R250-00FF4
XPGWHT-01-R250-00FF5
XPGWHT-01-R250-00FF6
XPGWHT-01-R250-00GE3
XPGWHT-01-R250-00GE4

XPGWHT-01-R250-00GE5
XPGWHT-01-R250-00GF4
XPGWHT-01-R250-00GF5
XPGWHT-01-R250-00HE3
XPGWHT-01-R250-00HE4
XPGWHT-H1-0000-00AE8
XPGWHT-H1-0000-00AF8
XPGWHT-H1-0000-00AZ8
XPGWHT-H1-0000-00BE7
XPGWHT-H1-0000-00BE8
XPGWHT-H1-0000-00BF7
XPGWHT-H1-0000-00BF8
XPGWHT-H1-0000-00BZ7
XPGWHT-H1-0000-00BZ8
XPGWHT-H1-0000-00CE6
XPGWHT-H1-0000-00CE7
XPGWHT-H1-0000-00CE8
XPGWHT-H1-0000-00CF6
XPGWHT-H1-0000-00CF7
XPGWHT-H1-0000-00CF8
XPGWHT-H1-0000-00CZ6
XPGWHT-H1-0000-00CZ7
XPGWHT-H1-0000-00CZ8
XPGWHT-H1-0000-00DE5
XPGWHT-H1-0000-00DE6
XPGWHT-H1-0000-00DE7
XPGWHT-H1-0000-00DE8
XPGWHT-H1-0000-00DF6
XPGWHT-H1-0000-00DF7
XPGWHT-H1-0000-00DF8
XPGWHT-H1-0000-00DZ5
XPGWHT-H1-0000-00DZ6
XPGWHT-H1-0000-00DZ7
XPGWHT-H1-0000-00EE5
XPGWHT-H1-0000-00EE6
XPGWHT-H1-0000-00EE7
XPGWHT-H1-0000-00EF6
XPGWHT-H1-0000-00EZ5
XPGWHT-H1-R250-00AE8
XPGWHT-H1-R250-00AF8
XPGWHT-H1-R250-00AZ8
XPGWHT-H1-R250-00BE7
XPGWHT-H1-R250-00BE8
XPGWHT-H1-R250-00BF7
XPGWHT-H1-R250-00BF8
XPGWHT-H1-R250-00BZ7
XPGWHT-H1-R250-00BZ8
XPGWHT-H1-R250-00CE6
XPGWHT-H1-R250-00CE7

XPGWHT-H1-R250-00CE8
XPGWHT-H1-R250-00CF6
XPGWHT-H1-R250-00CF7
XPGWHT-H1-R250-00CF8
XPGWHT-H1-R250-00CZ6
XPGWHT-H1-R250-00CZ7
XPGWHT-H1-R250-00CZ8
XPGWHT-H1-R250-00DE5
XPGWHT-H1-R250-00DE6
XPGWHT-H1-R250-00DE7
XPGWHT-H1-R250-00DF6
XPGWHT-H1-R250-00DF7
XPGWHT-H1-R250-00DZ5
XPGWHT-H1-R250-00DZ6
XPGWHT-H1-R250-00DZ7
XPGWHT-H1-R250-00EE5
XPGWHT-H1-R250-00EF6
XPGWHT-H1-R250-00EZ5
XPGWHT-L1-0000-00AE7
XPGWHT-L1-0000-00AE8
XPGWHT-L1-0000-00AF8
XPGWHT-L1-0000-00AZ8
XPGWHT-L1-0000-00BE7
XPGWHT-L1-0000-00BE8
XPGWHT-L1-0000-00BF7
XPGWHT-L1-0000-00BF8
XPGWHT-L1-0000-00BZ7
XPGWHT-L1-0000-00BZ8
XPGWHT-L1-0000-00CE4
XPGWHT-L1-0000-00CE5
XPGWHT-L1-0000-00CE6
XPGWHT-L1-0000-00CE7
XPGWHT-L1-0000-00CE8
XPGWHT-L1-0000-00CF6
XPGWHT-L1-0000-00CF7
XPGWHT-L1-0000-00CF8
XPGWHT-L1-0000-00CZ6
XPGWHT-L1-0000-00CZ7
XPGWHT-L1-0000-00CZ8
XPGWHT-L1-0000-00DE3
XPGWHT-L1-0000-00DE4
XPGWHT-L1-0000-00DE5
XPGWHT-L1-0000-00DE6
XPGWHT-L1-0000-00DE7
XPGWHT-L1-0000-00DE8
XPGWHT-L1-0000-00DF4
XPGWHT-L1-0000-00DF5
XPGWHT-L1-0000-00DF6
XPGWHT-L1-0000-00DF7

XPGWHT-L1-0000-00DF8
XPGWHT-L1-0000-00DZ5
XPGWHT-L1-0000-00DZ6
XPGWHT-L1-0000-00DZ7
XPGWHT-L1-0000-00EE3
XPGWHT-L1-0000-00EE4
XPGWHT-L1-0000-00EE5
XPGWHT-L1-0000-00EE6
XPGWHT-L1-0000-00EE7
XPGWHT-L1-0000-00EF4
XPGWHT-L1-0000-00EF5
XPGWHT-L1-0000-00EF6
XPGWHT-L1-0000-00EF7
XPGWHT-L1-0000-00EZ5
XPGWHT-L1-0000-00F50
XPGWHT-L1-0000-00F51
XPGWHT-L1-0000-00F53
XPGWHT-L1-0000-00FE1
XPGWHT-L1-0000-00FE2
XPGWHT-L1-0000-00FE3
XPGWHT-L1-0000-00FE4
XPGWHT-L1-0000-00FE5
XPGWHT-L1-0000-00FE6
XPGWHT-L1-0000-00FE7
XPGWHT-L1-0000-00FF4
XPGWHT-L1-0000-00FF5
XPGWHT-L1-0000-00FF6
XPGWHT-L1-0000-00G50
XPGWHT-L1-0000-00G51
XPGWHT-L1-0000-00G53
XPGWHT-L1-0000-00GE1
XPGWHT-L1-0000-00GE2
XPGWHT-L1-0000-00H50
XPGWHT-L1-0000-00H51
XPGWHT-L1-0000-00H53
XPGWHT-L1-0000-00HE1
XPGWHT-L1-0000-00HE2
XPGWHT-L1-R250-00AE8
XPGWHT-L1-R250-00AF8
XPGWHT-L1-R250-00AZ8
XPGWHT-L1-R250-00BE7
XPGWHT-L1-R250-00BE8
XPGWHT-L1-R250-00BF7
XPGWHT-L1-R250-00BF8
XPGWHT-L1-R250-00BZ7
XPGWHT-L1-R250-00BZ8
XPGWHT-L1-R250-00CE6
XPGWHT-L1-R250-00CE7
XPGWHT-L1-R250-00CE8

XPGWHT-L1-R250-00CF6
XPGWHT-L1-R250-00CF7
XPGWHT-L1-R250-00CF8
XPGWHT-L1-R250-00CZ6
XPGWHT-L1-R250-00CZ7
XPGWHT-L1-R250-00CZ8
XPGWHT-L1-R250-00DE3
XPGWHT-L1-R250-00DE4
XPGWHT-L1-R250-00DE5
XPGWHT-L1-R250-00DE6
XPGWHT-L1-R250-00DE7
XPGWHT-L1-R250-00DE8
XPGWHT-L1-R250-00DF4
XPGWHT-L1-R250-00DF5
XPGWHT-L1-R250-00DF6
XPGWHT-L1-R250-00DF7
XPGWHT-L1-R250-00DF8
XPGWHT-L1-R250-00DZ5
XPGWHT-L1-R250-00DZ6
XPGWHT-L1-R250-00DZ7
XPGWHT-L1-R250-00EE3
XPGWHT-L1-R250-00EE4
XPGWHT-L1-R250-00EE5
XPGWHT-L1-R250-00EE6
XPGWHT-L1-R250-00EE7
XPGWHT-L1-R250-00EF4
XPGWHT-L1-R250-00EF5
XPGWHT-L1-R250-00EF6
XPGWHT-L1-R250-00EF7
XPGWHT-L1-R250-00EZ5
XPGWHT-L1-R250-00F50
XPGWHT-L1-R250-00F51
XPGWHT-L1-R250-00F53
XPGWHT-L1-R250-00FE1
XPGWHT-L1-R250-00FE2
XPGWHT-L1-R250-00FE3
XPGWHT-L1-R250-00FE4
XPGWHT-L1-R250-00FE5
XPGWHT-L1-R250-00FF4
XPGWHT-L1-R250-00FF5
XPGWHT-L1-R250-00G50
XPGWHT-L1-R250-00G51
XPGWHT-L1-R250-00G53
XPGWHT-L1-R250-00GE1
XPGWHT-L1-R250-00H50
XPGWHT-L1-R250-00H51
XPGWHT-L1-R250-00H53
XPGWHT-L1-R250-00HE2
XPGWHT-P1-0000-007E8

XPGWHT-P1-0000-007F8
XPGWHT-P1-0000-007Z8
XPGWHT-P1-0000-008E7
XPGWHT-P1-0000-008E8
XPGWHT-P1-0000-008F8
XPGWHT-P1-0000-008Z7
XPGWHT-P1-0000-008Z8
XPGWHT-P1-0000-009E7
XPGWHT-P1-0000-009E8
XPGWHT-P1-0000-009F8
XPGWHT-P1-0000-009Z7
XPGWHT-P1-0000-009Z8
XPGWHT-P1-0000-00AE7
XPGWHT-P1-0000-00AE8
XPGWHT-P1-0000-00AF8
XPGWHT-P1-0000-00AZ7
XPGWHT-P1-0000-00BE7
XPGWHT-P1-R250-007E8
XPGWHT-P1-R250-007F8
XPGWHT-P1-R250-007Z8
XPGWHT-P1-R250-008E7
XPGWHT-P1-R250-008E8
XPGWHT-P1-R250-008F8
XPGWHT-P1-R250-008Z7
XPGWHT-P1-R250-008Z8
XPGWHT-P1-R250-009E7
XPGWHT-P1-R250-009E8
XPGWHT-P1-R250-009F8
XPGWHT-P1-R250-009Z7
XPGWHT-P1-R250-009Z8
XPGWHT-P1-R250-00AE7
XPGWHT-P1-R250-00AE8
XPGWHT-P1-R250-00AF8
XPGWHT-P1-R250-00AZ7
XPGWHT-P1-R250-00BE7
XPGWHT-U1-0000-007E8
XPGWHT-U1-0000-007F8
XPGWHT-U1-0000-007Z8
XPGWHT-U1-0000-008E7
XPGWHT-U1-0000-008E8
XPGWHT-U1-0000-008F8
XPGWHT-U1-0000-008Z7
XPGWHT-U1-0000-008Z8
XPGWHT-U1-0000-009E7
XPGWHT-U1-0000-009E8
XPGWHT-U1-0000-009F8
XPGWHT-U1-0000-009Z7
XPGWHT-U1-0000-00AE7
XPGWHT-U1-0000-00AE8

XPGWHT-U1-0000-00AF8
XPGWHT-U1-R250-007E8
XPGWHT-U1-R250-007F8
XPGWHT-U1-R250-007Z8
XPGWHT-U1-R250-008E7
XPGWHT-U1-R250-008E8
XPGWHT-U1-R250-008F8
XPGWHT-U1-R250-008Z7
XPGWHT-U1-R250-008Z8
XPGWHT-U1-R250-009E7
XPGWHT-U1-R250-009E8
XPGWHT-U1-R250-009F8
XPGWHT-U1-R250-009Z7
XPGWHT-U1-R250-00AE7