

## XLamp® LED Product Change Notification

Customer Name: XLamp LED Customers

PCN Reference Number: PCN-06003

Date Issued: December 8, 2022

Please be advised that Cree LED is updating the below stated XLamp® LED product family data sheets. There is no change to the performance of the LEDs stated below and the changes reflected in this PCN are for updating the data sheets with latest standards and images. These data sheet updates are estimated to be reflected on individual data sheets by the end of February, 2023. This is a courtesy PCN.

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 Part Number (x=wildcard character)	Cree LED Part Number (x=wildcard character)
XBHxxx-xx-xxxx-xxxxxxxxxx	XPGAxx-xx-xxxx-xxxxx
XD16xxx-xx-xxxx-xxxxxxxxxx	XPGBxx-xx-xxxx-xxxxx
XEGxxx-xx-xxxx-xxx-xxxxxxxxxx	XPGDxx-xx-xxxx-xxxxx
XHBxxx-xx-xxxx-xxxxxx	XPLAxx-xx-xxxx-xxxxxxxxxx
XHGxxx-xx-xxxx-xxxxxxxxxx	XPLBxx-xx-xxxx-xxxxxxxxxx
XHP35B-xx-xxxx-xxxxxxxxxx	XQAxxx-xxx-xxxx-xxxxxxxxxx
XHP50B-xx-xxxx-xxxxxxxxxx	XQExxx-xx-xxxx-xxxxxxxxxx
XHP50D-xx-xxxx-xxxxxxxxxx	XTExxx-xx-xxxx-xxxxxxxxxx
XHP70B-xx-xxxx-xxxxxxxxxx	MHBAxx-xxxx-xxxxxxxxxx
XHP70D-xx-xxxx-xxxxxxxxxx	MHBBxx-xxxx-xxxxxxxxxx
XMLBxx-xxxx-xxxxxxxxxx	MHDExx-xxxx-xxxxxxxxxx
XMLBEZ-xx-xxxx-xxxxxxxxxx	MHDGxx-xxxx-xxxxxxxxxx
XMLDxx-xx-xxxx-xxxxxxxxxx	MKRxxx-xx-xxxx-xxxxxxxxxx
XPCxxx-xx-xxxx-xxxxx	MLExxx-xx-xxxx-xxxxxx
XPExxx-xxxx-xxxxx	MTGBxx-xx-xxxx-xxxxxxxxxx
XPEBxx-xx-xxxx-xxxxx	

## Description of the Change

Cree LED is updating the stated thermal resistance value in the data sheet for the below products. These thermal resistance measurements were performed per the JEDEC JESD51-14 standard. For additional information please review the Thermal Resistance Method application note found at the [Cree LED website](#).

Table 2 Product Characteristic – Thermal Resistance

Cree LED Part Number (x=wildcard character)	Thermal Resistance (°C/W)	T	Cree LED Part Number (x=wildcard character)	Thermal Resistance (°C/W)
XBHAWT-xx-xxxx-xxxxxxxxxx	3.5		XPEAAM-xxxx-xxxxx	7.5
XD16AWT-Hx-xxxx- xxxxxxxxxx	1.8		XPERED-xxxx-xxxxx	6.5
XHBAWT-xx-xxxx-xxxxxx	32		XPERDO-xxxx-xxxxx	6.5
XHGAWT-xx-xxxx-xxxxxxxxxx	14		XPEPHR-xxxx-xxxxx	6.5
XHP35B-xx-xxxx-xxxxxxxxxx	0.7		XPEBWT-xx-xxxx-xxxxxx	5.8
XHP50B-xx-xxxx-xxxxxxxxxx	0.6		XPEBBL-xx-xxxx-xxxxxx	5.7
XHP70B-xx-xxxx-xxxxxxxxxx	0.3		XPEBRY-xx-xxxx-xxxxxx	5.7
XHP70D-xx-xxxx-xxxxxxxxxx	0.2		XPEBGR-xx-xxxx-xxxxxx	9
XMLBEZ-xx-xxxx-xxxxxxxxxx	1.0		XPEBAM-xx-xxxx-xxxxxx	7.5
XMLDWT-xx-xxxx-xxxxxxxxxx	0.8		XPEBRD-xx-xxxx-xxxxxx	6.5
XPCAWT-xx-xxxx-xxxxxx	12		XPEBRO-xx-xxxx-xxxxxx	6.5
XPCBLU-xx-xxxx-xxxxxx	11		XPEBPR-xx-xxxx-xxxxxx	6.5
XPCGRN-xx-xxxx-xxxxxx	13		XPEBPA-xx-xxxx-xxxxxx	5.5
XPCAAM-xx-xxxx-xxxxxx	12.5		XPEBTT-xx-xxxx-xxxxxx	5.8
XPCRED-xx-xxxx-xxxxxx	11.5		XPGAWT-xx-xxxx-xxxxxx	2.0
XPCRDO-xx-xxxx-xxxxxx	11.5		XPGBWT-xx-xxxx-xxxxxx	1.4
XPEAWT-xxxx-xxxxxx	5.8		XPGDWT-xx-xxxx-xxxxxx	1.1
XPEBLU-xxxx-xxxxxx	5.7		XPGDRY-xx-xxxx-xxxxxx	0.9
XPEROY-xxxx-xxxxxx	5.7		XPGDPR-xx-xxxx-xxxxxx	1.0
XPEGRN-xxxx-xxxxxx	9.0		XPLBWT-xx-xxxx- xxxxxxxxxx	0.6

Cree LED Part Number (x=wildcard character)	Thermal Resistance (°C/W)	Cree LED Part Number (x=wildcard character)	Thermal Resistance (°C/W)
XQAAWT-xxx-xxxx-xxxxxxxxxx	12	XTEAWT-xx-xxxx- xxxxxxxxxx	2.8
XQABLU-xxx-xxxx-xxxxxxxxxx	9.5	XTEROY-xx-xxxx- xxxxxxxxxx	2.0
XQAAPB-xxx-xxxx-xxxxxxxxxx	9.5	MHBAWT-xxxx- xxxxxxxxxx	2.9
XQAGRN-xxx-xxxx-xxxxxxxxxx	17	MHBBWT-xxxx- xxxxxxxxxx	1.6
XQAAPA-xxx-xxxx-xxxxxxxxxx	15	MHDEWT-xxxx- xxxxxxxxxx	2.6
XQARDO-xxx-xxxx-xxxxxxxxxx	13	MHDGWT-xxxx- xxxxxxxxxx	0.9
XQARED-xxx-xxxx-xxxxxxxxxx	13	MKRAWT-xx-xxxx- xxxxxxxxxx	0.6
XQEAWT-xx-xxxx-xxxxxxxxxx	3.5	MLEAWT-xx-xxxx-xxxxxx	9.0
XQEBLU-xx-xxxx-xxxxxxxxxx	4.6	MLEBLU-xx-xxxx-xxxxxx	8.0
XQEGRN-xx-xxxx-xxxxxxxxxx	6.5	MLEROY-xx-xxxx-xxxxxx	8.0
XQEAPA-xx-xxxx-xxxxxxxxxx	3.6	MLEGRN-xx-xxxx-xxxxxx	11
XQERED-xx-xxxx-xxxxxxxxxx	3.0	MLEAMB-xx-xxxx-xxxxxx	23
XQERDO-xx-xxxx-xxxxxxxxxx	3.0	MLERED-xx-xxxx-xxxxxx	19
XQEEPR-xx-xxxx-xxxxxxxxxx	1.9	MTGBEZ-xx-xxxx- xxxxxxxxxx	0.4
XQEAPB-Hx-xxxx-xxxxxxxxxx	4.6		

Cree LED is also updating images within the data sheets. These images include mechanical drawings, tape drawings, reel drawings, box drawings, and product images. Updates on images are visual only and do not reflect a change to the final product unless otherwise notified.

## Reason for the Change

These changes are to reflect the most up to date information for products. Thermal resistance values are to align all stated product values to the JEDEC JESD51-14 standard.

## Change Impact on Form, Fit, Function, or Reliability

The stated changes have no impact on the form, fit, function, or reliability of these LEDs beyond those listed above.

## Key Dates

Table 3 provides estimated dates for key PCN Milestones based on information available at the date the PCN was issued. Any updates to these dates can be provided by the Cree LED contact listed in Table 4.

Table 3 Key PCN Estimated Dates

<b>All Updated Data Sheets Published by:</b>	<b>February 28, 2023</b>
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## Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 4 PCN Contact

<b>Contact:</b>	Cree LED Customer Service
<b>Contact E-Mail:</b>	<a href="mailto:CS@cree-led.com">CS@cree-led.com</a>
<b>Contact Phone:</b>	US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301
<b>Address:</b>	CreeLED, Inc. 4400 Silicon Dr. Durham, NC 27703-8475 USA