

Cree LED HB SMD LED Product Change Notification

Customer Name: HB SMD Customers

PCN Reference Number:

PCN-06076

Date Issued:

July 31, 2024

Please be advised that Cree LED qualified a change to HB SMD LEDs and that we will begin shipping the affected product with the change 90 days after the PCN Issue Date.

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 Order Code |
|---------------------|
| CLMUD-FKA-***** |

Description of the Change

Cree LED has qualified alternative material (chips, lead frame, gold wire, DA) for the above products. Intensity bins and color bins are added. Order codes have been changed. Below shows the details.

Current intensity bin and color bin:

INTENSITY BIN LIMIT

| Red (5 mA) | | | Green (5 mA) | | | Blue (5 mA) | | |
|------------|-----------|-----------|--------------|-----------|-----------|-------------|-----------|-----------|
| Bin Code | Min.(mcd) | Max.(mcd) | Bin Code | Min.(mcd) | Max.(mcd) | Bin Code | Min.(mcd) | Max.(mcd) |
| L8 | 36 | 45 | 78 | 126 | 160 | L6 | 22 | 28 |
| 3g3f | 41 | 51 | D | 140 | 180 | 3m3k | 25 | 32 |
| L9 | 45 | 56 | 9a | 160 | 202 | L7 | 28 | 36 |
| 3e3d | 51 | 64 | E | 180 | 224 | 3j3h | 32 | 41 |
| L | 56 | 71 | bc | 202 | 252 | L8 | 36 | 45 |
| 3c3b | 64 | 81 | | | | | | |

COLOR BIN LIMIT

| Red (5 mA) | | | Green (5 mA) | | | Blue (5 mA) | | |
|------------|----------|----------|--------------|----------|----------|-------------|----------|----------|
| Bin Code | Min.(nm) | Max.(nm) | Bin Code | Min.(nm) | Max.(nm) | Bin Code | Min.(nm) | Max.(nm) |
| RB | 619 | 624 | G7 | 520 | 525 | B4 | 465 | 470 |
| | | | G23 | 522.5 | 527.5 | B45 | 467.5 | 472.5 |
| | | | G8 | 525 | 530 | B5 | 470 | 475 |
| | | | G45 | 527.5 | 532.5 | | | |
| | | | G9 | 530 | 535 | | | |

New intensity bin and color bin:

INTENSITY BIN LIMIT

| Red (5 mA) | | | Green (5 mA) | | | Blue (5 mA) | | |
|------------|-----------|-----------|--------------|-----------|-----------|-------------|-----------|-----------|
| Bin Code | Min.(mcd) | Max.(mcd) | Bin Code | Min.(mcd) | Max.(mcd) | Bin Code | Min.(mcd) | Max.(mcd) |
| L8 | 36 | 45 | 78 | 126 | 160 | L6 | 22 | 28 |
| 3g3f | 41 | 51 | D | 140 | 180 | 3m3k | 25 | 32 |
| L9 | 45 | 56 | 9a | 160 | 202 | L7 | 28 | 36 |
| 3e3d | 51 | 64 | E | 180 | 224 | 3j3h | 32 | 41 |
| L | 56 | 71 | bc | 202 | 252 | L8 | 36 | 45 |
| 3c3b | 64 | 81 | | | | | | |
| A | 71 | 90 | | | | | | |
| 3a4 | 81 | 101 | | | | | | |

COLOR BIN LIMIT

| Red (5 mA) | | | Green (5 mA) | | | Blue (5 mA) | | |
|------------|----------|----------|--------------|----------|----------|-------------|----------|----------|
| Bin Code | Min.(nm) | Max.(nm) | Bin Code | Min.(nm) | Max.(nm) | Bin Code | Min.(nm) | Max.(nm) |
| RB | 619 | 624 | G7 | 520 | 525 | B3 | 460 | 465 |
| | | | G23 | 522.5 | 527.5 | B23 | 462.5 | 467.5 |
| | | | G8 | 525 | 530 | B4 | 465 | 470 |
| | | | G45 | 527.5 | 532.5 | B45 | 467.5 | 472.5 |
| | | | G9 | 530 | 535 | B5 | 470 | 475 |
| | | | G67 | 532.5 | 537.5 | | | |
| | | | Ga | 535 | 540 | | | |

Current order code:

ORDER CODE TABLE

| Kit Number | Color | Luminous Intensity (mcd) | | Dominant Wavelength (nm) | | | | Package |
|----------------------------------|-------|--|------|------------------------------------|----------|-----------|-----------|---------|
| | | Min. | Max. | Color Bin | Min.(nm) | Color Bin | Max. (nm) | |
| CLMUD-FKA-CL83c3b78bcL6L8BB79453 | Red | 36 | 81 | RB | 619 | RB | 624 | Reel |
| | Green | 126 | 252 | G7 | 520 | G9 | 535 | Reel |
| | Blue | 22 | 45 | B4 | 465 | B5 | 475 | Reel |
| CLMUD-FKA-CL81781L61BB7C4S3 | Red | Any 1 Intensity bin from L8(36) - 3c3b(81) | | RB | 619 | RB | 624 | Reel |
| | Green | Any 1 Intensity bin from 7B(126) - bc(252) | | Any 1 hue bin from G7(520)-G9(535) | | | | Reel |
| | Blue | Any 1 Intensity bin from L6(22) - L8(45) | | Any 1 hue bin from B4(465)-B5(475) | | | | Reel |

New order code:

ORDER CODE TABLE

| Kit Number | Color | Luminous Intensity (mcd) | | Dominant Wavelength (nm) | | | | Package |
|---------------------------------|-------|--|------|------------------------------------|----------|-----------|-----------|---------|
| | | Min. | Max. | Color Bin | Min.(nm) | Color Bin | Max. (nm) | |
| CLMUD-FKA-CL83a478bcL6L8BB7a353 | Red | 36 | 101 | RB | 619 | RB | 624 | Reel |
| | Green | 126 | 252 | G7 | 520 | Ga | 540 | Reel |
| | Blue | 22 | 45 | B3 | 460 | B5 | 475 | Reel |
| CLMUD-FKA-CL81781L61BB7D4C3 | Red | Any 1 Intensity bin from L8(36) - 3a4(101) | | RB | 619 | RB | 624 | Reel |
| | Green | Any 1 Intensity bin from 7B(126) - bc(252) | | Any 1 hue bin from G7(520)-Ga(540) | | | | Reel |
| | Blue | Any 1 Intensity bin from L6(22) - L8(45) | | Any 1 hue bin from B3(460)-B5(475) | | | | Reel |

Reason for the Change

This change ensures security of supplies.

Change Impact on Form, Fit, Function, or Reliability

This has no impact on the form, fit, function or reliability of the above series LEDs. We will begin shipping the affected product with the change 90 days after the PCN issue date.

Key Dates

Table 2 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 3.

Table 2 Key PCN Estimated Dates

| | |
|----------------------------------|------------------|
| Proposed First Ship Date: | 1 November, 2024 |
|----------------------------------|------------------|

Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 2 PCN Contact

| | |
|------------------------|--|
| Contact: | Sam Lai |
| Contact E-Mail: | Sam.Lai@cree-led.com |
| Contact Phone: | +852 2424-8228 |
| Address: | Unit 525 – 530, 5/F, Building 1W, Phase One, 1 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong |