# Product Change Notification

## PCN26-10-Rev A_ELUM series – Blue LED change

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Document subject to change without prior notice

# Document revision

| Revision | Date | Description | Author |
|---|---|---|---|
| A | March 23rd, 2026 | Creation | Lina Guan |

# Summary

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## 1. Purpose

C&K has been notified by its supplier, the end of production of several LEDs.
This discontinuation from KINGBRIGHT (supplier A), without direct replacement proposal, is leading C&K to modify its ELUM lighted series by using the closest replacement from the market.
C&K switches selected ORMSEN (supplier B) to replace the Blue LED in its products.
The impact for our customers will be some differences in the lighting characteristics.

## 2. Overview

### 2.1 Change definition

**Supplier A: KINGBRIGHT** manufacturer of the Blue LED, reference **WP964-CKC32.**

**Selection Guide**

| Part No. | Dice | Lens Type | Iv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|---|---|---|---|---|---|
| | | | Min. | Typ. | 2θ1/2 |
| WP964-CKC32 | Blue (InGaN) | Water Clear | 700 | 1500 | 30° |

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

**Electrical / Optical Characteristics at TA=25°C**

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|---|---|---|---|---|---|---|
| λpeak | Peak Wavelength | Blue | 460 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Blue | 465 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Blue | 25 | | nm | IF=20mA |
| C | Capacitance | Blue | 100 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Blue | 3.3 | 4 | V | IF=20mA |
| IR | Reverse Current | Blue | | 50 | uA | VR = 5V |

**Absolute Maximum Ratings at TA=25°C**

| Parameter | Blue | Units |
|---|---|---|
| Power dissipation | 120 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 150 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

**Supplier B: ORMSEN** manufacturer of the Blue LED, reference **OS-RSUB234C-TR1(CK)**.
The color, luminous intensity, the viewing angle and ratings of new Blue LED are very close to the existing one.

## Device Selection Guide

| Chip Materials | Emitted Color | Resin Color |
|---|---|---|
| InGaN | Blue | Water Clear |

## Absolute Maximum Ratings (Ta=25℃)

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Continuous Forward Current | IF | 30 | mA |
| Peak Forward Current (Duty 1/10 @ 1KHZ) | IFP | 100 | mA |
| Reverse Voltage | VR | 5 | V |
| Power Dissipation | Pd | 100 | mW |
| Operating Temperature | Topr | -40 ~ +85 | ℃ |
| Storage Temperature | Tstg | -40 ~ +85 | ℃ |
| Soldering Temperature | Tsol | 260 ℃ for 5 sec. | |

## Electro-Optical Characteristics (Ta=25℃)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---|---|---|---|---|---|---|
| Luminous Intensity | Iv | 700 | 1500 | ----- | mcd | IF=20mA |
| Viewing Angle | 2θ1/2 | ----- | 30 | ----- | deg | IF=20mA |
| Peak Wavelength | λp | ----- | 465 | ----- | nm | IF=20mA |
| Dominant Wavelength | λd | ----- | 470 | ----- | nm | IF=20mA |
| Spectrum Radiation Bandwidth | Δλ | ----- | 28 | ----- | nm | IF=20mA |
| Forward Voltage | VF | 2.6 | 3.0 | 3.6 | V | IF=20mA |
| Reverse Current | IR | ----- | ----- | 10 | μA | VR=5V |

## 3. Impact of Change and Qualification

3.1 Impact of Change:

There is no change to the form, fit and function of the switch.

3.2 Qualification method:

As the modification only affects the LED and its integration in the switch, the qualification focuses solely on the LED performance:

- Luminosity, Chromaticity Coordinates
- Endurance test
- Climatic tests
- Salt spray test
- Soldering test

The qualification has been completed in C&K, test report is available upon request.

Samples for qualification are already available upon request.

## 4. Part numbers affected

All item featuring **Blue LED** are affected by this notification.

| Material N° | Material Description |
|---|---|
| ELUMEESAQ7C12 | SWITCH ELUMEESAQ7C12 |
| ELUMEESAQ7C22 | SWITCH ELUMEESAQ7C22 |
| ELUMEETHQ7C12 | SWITCH ELUMEETHQ7C12 |
| ELUMEETHQ7C22 | SWITCH ELUMEETHQ7C22 |
| ELUMOASAQ7C12 | SWITCH ELUMOASAQ7C12 |
| ELUMOASAQ7C22 | SWITCH ELUMOASAQ7C22 |
| ELUMOASAQ7C22ST | SWITCH ELUMOASAQ7C22ST |
| ELUMOATHQ7C12 | SWITCH ELUMOATHQ7C12 |
| ELUMOATHQ7C22 | SWITCH ELUMOATHQ7C22 |

## 5. Date of application

Effective immediately. There is no remaining stock of LEDs WP964-CKC32 from Supplier A).
All finished products are now manufactured using LEDs OS-RSUB234C-TR1(CK) from Supplier B.

## 6. Conditions of application

Pricing and stock handling policy:

- Pricing: Any pricing and other sales conditions remain valid.
- Stock handling: no obsolescence and no specification modification are applied on any P/N. No return or scrap for obsolescence will be accepted

## 7. Customer qualification

C&K recommends its customers to carry on the lighting compatibility check and qualifications they feel necessary to make sure that they will be ready at the date of application. Switching characteristics are not modified in order to minimize the customer impact and make easier the modification acceptation.

## 8. Acknowledgement

We kindly ask you to acknowledge receipt of this information to your sales representative so C&K can start planning the phase in – out process accordingly.

Please forward your requirements in terms of samples & qualification files at the following email address: lguan@Littelfuse.com

## 9. Support

For any question, please contact your sales representative