



# LUXEON 4014

A compact footprint delivering high efficacy and just the right amount of light



LUXEON 4014 is a 2.9V low-power product, the first of its kind from Lumileds. It is a compact QFN 4.0mm x 1.4mm x 0.7mm package that delivers the Quality of Light needed for indoor lighting applications. LUXEON 4014 offers an ideal solution when uniformity and a smooth lighting appearance are critical in luminaire designs.

## FEATURES AND BENEFITS

- Rectangular QFN package design increases uniformity
- Superior heat dissipation enables cost effective design
- Unique phosphor technology enables high efficacy
- 1/6<sup>th</sup> ANSI color binning for tight color control
- Superior heat dissipation enables cost effective thermal design

## PRIMARY APPLICATIONS

- Indoor Area Lighting

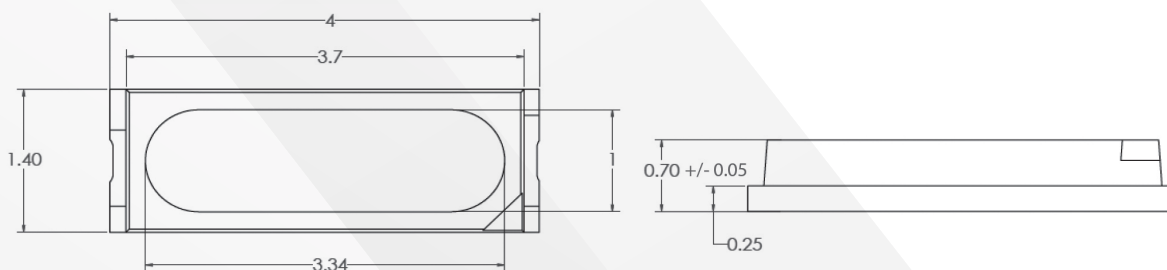
LUXEON 4014 product performance at 30mA and 60mA,  $T_j = 25^\circ\text{C}$ .

| NOMINAL CCT <sup>[1]</sup> | MINIMUM CRI <sup>[2]</sup> | LUMINOUS FLUX <sup>[3]</sup> (lm) |         | TYPICAL LUMINOUS EFFICACY (lm/W) | TYPICAL LUMINOUS FLUX (lm) | TYPICAL LUMINOUS EFFICACY (lm/W) | PART NUMBER |
|----------------------------|----------------------------|-----------------------------------|---------|----------------------------------|----------------------------|----------------------------------|-------------|
|                            |                            | MINIMUM                           | TYPICAL |                                  |                            |                                  |             |
|                            |                            | 30mA                              |         |                                  |                            | 60mA                             |             |
| 5000K                      | 70                         | 10                                | 13      | 7                                | 23                         | 13                               | MXZ7-PW50   |
| 5700K                      | 70                         | 10                                | 13      | 7                                | 23                         | 13                               | MXZ7-PW57   |
| 6500K                      | 70                         | 10                                | 13      | 7                                | 23                         | 13                               | MXZ7-PW65   |
| 2200K                      | 80                         | 8.5                               | 9.7     | 6                                | 17                         | 9                                | MXZ8-PW22   |
| 2500K                      | 80                         | 8.5                               | 10.2    | 6                                | 17                         | 9                                | MXZ8-PW25   |
| 2700K                      | 80                         | 8.5                               | 10.5    | 6                                | 18                         | 10                               | MXZ8-PW27   |
| 3000K                      | 80                         | 8.5                               | 11      | 6                                | 20                         | 11                               | MXZ8-PW30   |
| 3500K                      | 80                         | 9                                 | 11      | 6                                | 20                         | 11                               | MXZ8-PW35   |
| 4000K                      | 80                         | 10                                | 12      | 7                                | 22                         | 12                               | MXZ8-PW40   |
| 5000K                      | 80                         | 10                                | 12      | 7                                | 22                         | 12                               | MXZ8-PW50   |
| 5700K                      | 80                         | 9.5                               | 11.5    | 7                                | 20                         | 11                               | MXZ8-PW57   |
| 6500K                      | 80                         | 9.5                               | 11.5    | 7                                | 20                         | 11                               | MXZ8-PW65   |
| 3000K                      | 90                         | 8.5                               | 9.3     | 5                                | 17                         | 9                                | MXZ9-PW30   |
| 4000K                      | 90 typ.                    | 10                                | 11.1    | 6                                | 20                         | 11                               | MXZ9-PW40   |
| 5000K                      | 90 typ.                    | 10                                | 11.1    | 6                                | 20                         | 11                               | MXZ9-PW50   |
| 2700K                      | 90                         | 8.5                               | 9       | 5                                | 17                         | 9                                | MXZ9-PW27   |

Notes:

1. Lumileds maintains a tolerance of  $\pm 7.5\%$  on flux measurements.
2. Correlated color temperature is based upon mounted die on highly reflective surface at  $T_j = 25^\circ\text{C}$ .

Mechanical Dimensions.



Notes:

1. Drawings are not scale.
2. All dimensions are in millimeters.