

GENERAL ILLUMINATION



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

1/6th 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_i= 25°C.

| NOMINAL CCT ^[1] | MINIMUM CRI ^[2] | LUMINOUS FLUX [3] (Im) | | TYPICAL LUMINOUS | TYPICAL LUMINOUS | TYPICAL LUMINOUS | |
|-------------------------------|-------------------------------|------------------------|---------|---------------------|---------------------|---------------------|-------------|
| | | MINIMUM | TYPICAL | EFFICACY (Im/W) | | EFFICACY (Im/W) | PART NUMBER |
| | | | | 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:

Lumileds maintains a tolerance of ±7.5% on flux measurements.

2. Correlated color temperature is based upon mounted die on highly reflective surface at T=25°C.

Mechanical Dimensions.



Notes:

Drawings are not scale.
All dimensions are in millimeters.

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