

ILLUMINATION



LUXEON XR-3020

Linear LED module on an ultra-slim and rigid substrate enabling high efficacy designs



LUXEON XR-3020 products are ultra-slim linear LED modules optimized for narrow (20mm wide) lighting applications such as fluorescent replacements. The integrated solution comes in 1 or 2 foot versions with 24 or 48 LEDs mounted on a CEM3 thermally conductive substrate. LUXEON XR-3020 is designed for ease of system integration, simplified supply chain and faster time to market.

FEATURES AND BENEFITS

- 1100 or 2200 lumen packages at 100mA/LED and 45°C board temperature
- 160lm/W for maximum light output and low power consumption
- 1ft (24-up) or 2ft (48-up) length and Zhaga defined screw hole locations

A range of CCT options available in 80 or 90CRI (3000-5000K)

Uses the industry's most compact, highest drive current 3V mid power LEDs—LUXEON 3020 $\,$

>50k hours LED lifetime (L70)

LED performance matching to support the best light output uniformity, forward voltage, and color control

5 year limited warranty

PRIMARY APPLICATIONS

- Architectural
- Indoor Area Lighting
- T-LEDs
- Troffers
- Specialty Lighting



LUXEON XR-3020 product performance at 100mA/LED, T_=45°C.

| CONFIGURATION | NOMINAL CCT | MINIMUM CRI ^[1] | LUMINOUS FLUX ^[2] (lm) | | TYPICAL LUMINOUS | TYPICAL DRIVE | |
|--|----------------|-------------------------------|-----------------------------------|---------|---------------------|------------------|--------------------|
| | | | MINIMUM | TYPICAL | EFFICACY (lm/W) | CURRENT (mA) | PART NUMBER |
| 280mm, 24-up (2 parallel x 12 series) | 3000K | 80 | 1012 | 1050 | 151 | 200 | L218-3080024C30000 |
| | 3500K | 80 | 1029 | 1070 | 153 | 200 | L218-3580024C30000 |
| | 4000K | 80 | 1049 | 1088 | 156 | 200 | L218-4080024C30000 |
| | 5000K | 80 | 1049 | 1088 | 156 | 200 | L218-5080024C30000 |
| | 4000K | 90 | 850 | 890 | 127 | 200 | L218-4090024C30000 |
| 560mm, 48-up (4 parallel x 12 series) | 3000K | 80 | 2024 | 2100 | 151 | 400 | L218-3080048C00000 |
| | 3500K | 80 | 2058 | 2140 | 153 | 400 | L218-3580048C00000 |
| | 4000K | 80 | 2098 | 2176 | 156 | 400 | L218-4080048C00000 |
| | 5000K | 80 | 2098 | 2176 | 156 | 400 | L218-5080048C00000 |
| | 4000K | 90 | 1700 | 1780 | 127 | 400 | L218-4090048C00000 |

Notes:

Lumileds maintains a tolerance of ±2 on CRI measurements.
Lumileds maintains a tolerance of ±6.5% on luminous flux measurements.



Mechanical dimensions for L218-xxxx024C30000.



Mechanical dimensions for L218-xxxx048C00000.

Notes: Drawings are not to scale.
All dimensions are in millimeters.

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