



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

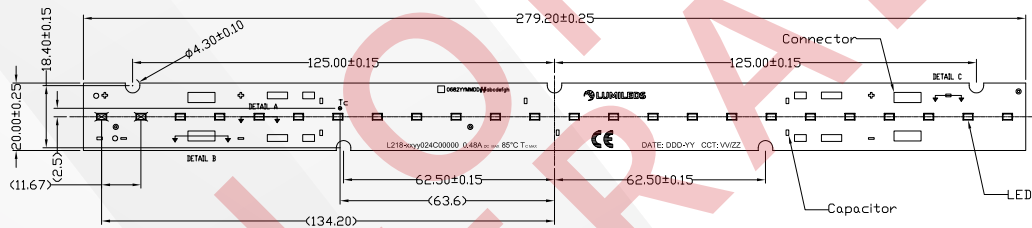
Specialty Lighting

LUXEON XR-3020 product performance at 100mA/LED, $T_c=45^\circ\text{C}$.

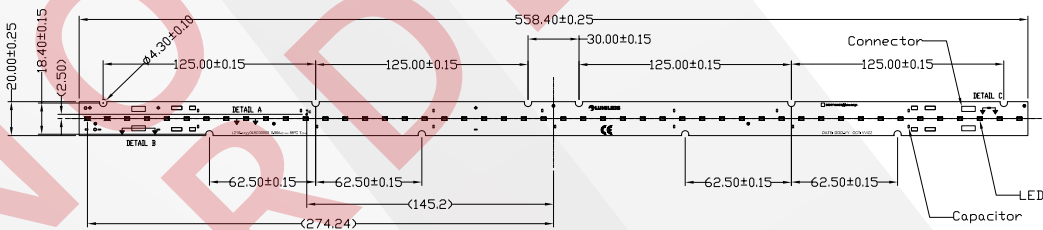
CONFIGURATION	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[2] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL DRIVE CURRENT (mA)	PART NUMBER
			MINIMUM	TYPICAL			
280mm, 24-up (2 parallel x 12 series)	3000K	80	1012	1050	151	200	L218-3080024C30000
	3500K	80	1029	1070	153	200	L218-3580024C30000
	4000K	80	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:

1. Lumileds maintains a tolerance of ± 2 on CRI measurements.
2. Lumileds maintains a tolerance of $\pm 6.5\%$ on luminous flux measurements.



Mechanical dimensions for L218-xxxx024C30000.



Mechanical dimensions for L218-xxxx048C00000.

Notes:

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

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