

# **ILLUMINATION**



# **LUXEON 3020**

# Industry's most compact, highest drive current 3V mid power LED



LUXEON 3020 is the first and only hot-color targeted EMC-based 3.0mm x 2.0mm QFN, delivering superior efficacy with superior lumen maintenance and assurance of ANSI color compliance at operating conditions—85°C. Lumileds enables mass production of affordable and reliable bulbs and lamps by simplifying system designs and integration with leading lm/\$ and hot-color targeting.

FEATURES AND BENEFITS	PRIMARY APPLICATIONS
High efficacy delivers superior lumen maintenance	Architectural
Reliable QFN EMC package delivers superior thermal properties and reliability	Downlights
1/9 <sup>th</sup> ANSI micro-color binning enables tight color control	Indoor Area Lighting
lot-color targeted at 85°C which leads to better color accuracy	– Troffer
Drive at max current for superior value	- TLED
	Lamps
	Specialty Lighting

## LUXEON 3020 product performance at 120mA and 100mA at specified temperature.

NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (Im)		TYPICAL LUMINOUS	TYPICAL LUMINOUS	TYPICAL LUMINOUS	
		MINIMUM	TYPICAL	EFFICACY (Im/W)		EFFICACY (Im/W)	PART NUMBER
	120mA				100mA		]
4000K	70	51	56	153	48	160	L130-407000201100
5000K	70	51	56	153	48	160	L130-507000201100
5700K	70	51	56	153	48	160	L130-577000201100
6500K	70	51	56	153	48	160	L130-657000201100
2200K	80	40	46	125	40	133	L130-228000201100
2500K	80	44	50	135	43	143	L130-258000201100
2700K	80	42	52	134	42	140	L130-278000201100
3000K	80	44	53	134	43	143	L130-308000201100
3500K	80	45	55	139	44	147	L130-358000201100
4000K	80	46	57	145	46	153	L130-408000201100
5000K	80	46	58	145	46	153	L130-508000201100
5700K	80	46	57	145	46	153	L130-578000201100
6500K	80	46	57	145	46	153	L130-658000201100
2700K	90	36	41	112	35	117	L130-279000201100
3000K	90	37	42	115	36	120	L130-309000201100
3500K	90	38	43	117	37	123	L130-359000201100
4000K	90	40	45	123	38	127	L130-409000201100

Notes:

1. Correlated color temperature is hot targeted at  $T_{=}85^{\circ}$ C. 2. Luminous flux and CRI are based upon mounted package on highly reflective surface at  $T_{=}25^{\circ}$ . Typical CRI is approximately 2 points higher than the minimum CRI specified, but this

is not guaranteed. 3. Lumileds maintains a tolerance of  $\pm 2$  on CRI and  $\pm 7.5\%$  on luminous flux measurements.

### **Mechanical Dimensions**





#### Notes:

Drawings are not to scale.
All dimensions are in millimeters.
Tolerance: ±0.10mm.

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