



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

- High efficacy delivers superior lumen maintenance
- Reliable QFN EMC package delivers superior thermal properties and reliability
- 1/9th ANSI micro-color binning enables tight color control
- Hot-color targeted at 85°C which leads to better color accuracy
- Drive at max current for superior value

PRIMARY APPLICATIONS

- Architectural
- Downlights
- Indoor Area Lighting
 - Troffer
 - TLED
- Lamps
- Specialty Lighting

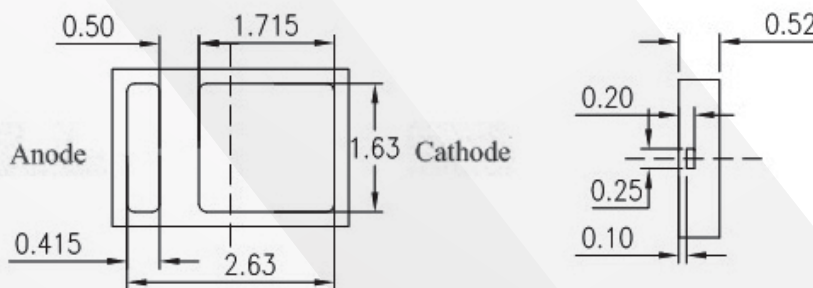
LUXEON 3020 product performance at 120mA and 100mA at specified temperature.

NOMINAL CCT ^[1]	MINIMUM CRI ^[2, 3]	LUMINOUS FLUX ^[2, 3] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
		MINIMUM	TYPICAL				
		120mA					
4000K	70	51	56	153	48	160	L130-4070002011001
5000K	70	51	56	153	48	160	L130-5070002011001
5700K	70	51	56	153	48	160	L130-5770002011001
6500K	70	51	56	153	48	160	L130-6570002011001
2200K	80	40	46	125	40	133	L130-2280002011001
2500K	80	44	50	135	43	143	L130-2580002011001
2700K	80	42	52	134	42	140	L130-2780002011001
3000K	80	44	53	134	43	143	L130-3080002011001
3500K	80	45	55	139	44	147	L130-3580002011001
4000K	80	46	57	145	46	153	L130-4080002011001
5000K	80	46	58	145	46	153	L130-5080002011001
5700K	80	46	57	145	46	153	L130-5780002011001
6500K	80	46	57	145	46	153	L130-6580002011001
2700K	90	36	41	112	35	117	L130-2790002011001
3000K	90	37	42	115	36	120	L130-3090002011001
3500K	90	38	43	117	37	123	L130-3590002011001
4000K	90	40	45	123	38	127	L130-4090002011001

Notes:

1. Correlated color temperature is not targeted at T_j=85°C.
2. Luminous flux and CRI are based upon mounted package on highly reflective surface at T_j=25°. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. Lumileds maintains a tolerance of ±2 on CRI and ±7.5% on luminous flux measurements.

Mechanical Dimensions



Notes:

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

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