

Product Brief

LUXEON Rebel ES

Maximum lumens or maximize energy savings.
LUXEON Rebel ES gives you the flexibility to do either.



LUXEON® Rebel ES gives you the design flexibility you need for your luminaires and lamps. Tested at 700 mA, you can confidently design LUXEON Rebel ES into high lumen applications or create more energy efficient devices using the same emitter. You can count on LUXEON Rebel ES for quality, reliability and in-device performance.

What's New:

- Minimum luminous flux specified at 200 lm @ 700 mA forward current
- Supports consistent high lumen performance at high drive currents
- Breakthrough lumens per dollar
- Lower system energy consumption and better lighting efficiency
- Faster payback periods and lower total ownership costs
- Exceeds ENERGY STAR® lumen maintenance requirements
- Industry leading thermal characteristics
- Very small optical source size
- Supports sustainable lighting solutions.

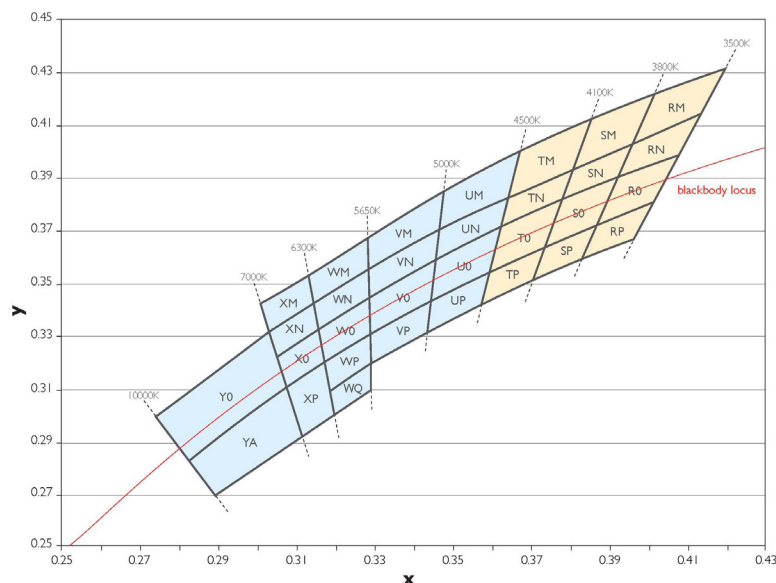


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LUXEON Rebel ES Characteristics

Color & CCT Range	Part Number	Performance At Test Current		Typical Performance								
		Minimum Luminous Flux (lm)	Test Current (mA)	Luminous Flux (lm)			Forward Voltage (Vf)			Efficacy (lm/W)		
				350 mA	700 mA	1000 mA	350 mA	700 mA	1000 mA	350 mA	700 mA	1000 mA
Cool-White 4500K - 10000K	LXML-PWC2	200	700	130	225	310	2.85	3.00	3.10	130	107	100
Neutral-White 3500K - 4500K	LXML-PWN2	200	700	125	220	300	2.85	3.00	3.10	125	105	97

LUXEON Rebel ES Binning



Absolute Maximum Ratings

Parameter	Cool-White/Neutral-White	Value
DC Forward Current (mA)		1500
Peak Pulsed Forward Current (mA)		1500
Average Forward Current (mA)		1500
ESD Sensitivity		< 8000V Human Body Model (HBM) Class 3A JESD22-A114-E < 400V Machine Model (MM) Class B JESD22-A115-B
LED Junction Temperature		150°C
Operating Case Temperature at 350 mA		-40°C - 135°C
Storage Temperature		-40°C - 135°C
Soldering Temperature		JEDEC 020c 260°C
Allowable Reflow Cycles		3
Autoclave Conditions		121°C at 2 ATM 100% Relative Humidity for 96 Hours Maximum
Reverse Voltage (Vr)		LUXEON Rebel LEDs are not designed to be driven in reverse bias

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