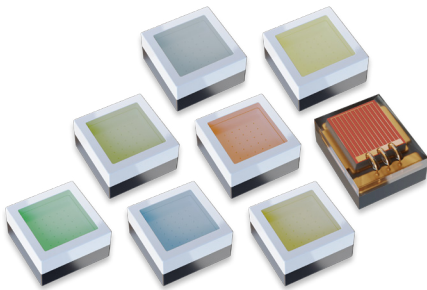




LUXEON Rubix

High drive, tiny LED, max performance



LUXEON Rubix is a breakthrough design for the LED industry. Designed with high driving current capability and small form factor, it provides maximum flux in a minimal amount of space making it ideal for entertainment, architecture and emergency vehicle lighting application. This LED provides double the flux at much higher driving current compared to previous generations. It is the smallest form factor in the Lumileds Colors portfolio enabling it to be packaged even closer to achieve higher lumen output at higher lumen densities. The individual emitters and color gamut allow customers to have much better flexibility in their product design.

FEATURES AND BENEFITS

Tiny footprint 1414 package

High Drive current up to 3 Amps DC

Maximized punch (cd/lm)

PRIMARY APPLICATIONS

Moving Head

Spotlights

Wall Wash

Floodlights

Landscape Lighting

LUXEON Rubix Colors product performance at 1500mA, T_j=85°C.

COLOR	DOMINANT OR PEAK WAVELENGTH ^[1] (nm)		LUMINOUS FLUX (lm) OR RADIOMETRIC POWER ^[2] (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Red	620	630	75	85	L1RX-RED1000000000
PC Amber	-	-	220	250	L1RX-PCA1000000000
Lime	-	-	420	510	L1RX-LME1000000000
Green	520	535	260	310	L1RX-GRN1000000000
Cyan	490	510	180	230	L1RX-CYN1000000000
Blue	465	485	70	112	L1RX-BLU1000000000
Royal Blue	440	455	1300	1635	L1RX-RYL1000000000

Notes:

1. Lumileds maintains a tolerance of ±6.5% on luminous flux measurements.
2. Royal Blue is binned by peak wavelength. All other colors are binned by dominant wavelength.
3. Royal Blue is binned by radiometric power. All other colors are binned by luminous flux.

LUXEON Rubix L1RX-RED2000000000 product performance at 1000mA, T_j=85°C.

COLOR	DOMINANT OR PEAK WAVELENGTH ^[1] (nm)		LUMINOUS FLUX ^[1] (lm) or RADIOMETRIC POWER ^[2] (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Red	620	630	52	71	L1RX-RED2000000000

Notes:

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

LUXEON Rubix White 60 CRI product performance at 1500mA, T_j=85°C.

COLOR	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
White 60CRI	5700K	60	360	440	93	L1RX-57600000000000

Notes:

1. Lumileds maintains a tolerance of ±6.5% on luminous flux and ±2 on CRI measurements for these products.

LUXEON Rubix White product performance at 1000mA, T_j=85°C.

COLOR	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
White 70CRI ^[2] , 80CRI and 90CRI	6500K ^[2]	70 ^[2]	220 ^[2]	315 ^[2]	106 ^[2]	L1RX-65700000000000 ^[2]
	2200K	80	140	208	70	L1RX-22800000000000
	2700K	80	180	239	81	L1RX-27800000000000
	3000K	80	200	263	89	L1RX-30800000000000
	3500K	80	200	270	91	L1RX-35800000000000
	4000K	80	200	274	93	L1RX-40800000000000
	4500K	80	200	278	94	L1RX-45800000000000
	6500K	80	220	280	95	L1RX-65800000000000
	2700K	90	140	205	69	L1RX-27900000000000

Notes:

1. Lumileds maintains a tolerance of ±6.5% on luminous flux and ±2 on CRI measurements for these products.
2. Not recommended for new designs.