



LUXEON 2835 Line

Perfected performance, built on a proven legacy



LUXEON 2835 Line is a collection of compact devices which allows for design freedom and provides a superior overall system solution when a project requires high lumen output and good efficacy. With an industry standard footprint, the LUXEON 2835 Line is the perfect upgrade for other 2835 products and other common mid power offerings. The LUXEON 2835 Line is color targeted for application needs and delivers efficacy and reliability for a variety of applications. It is available in two product offerings, LUXEON 2835C for higher output and LUXEON 2835E for lower output ranges.

FEATURES AND BENEFITS

Various configurations of voltage and die count to meet a wide range of application requirements

Industry standard footprint for drop-in replacement designs

Maximum drive current of up to 240mA allows for reduction of LED count

6V and 9V hot-color targeting and 1/9th micro-color binning enable tight color control

3-, 4- and 5-step MacAdam ellipse color kits available

PRIMARY APPLICATIONS

Downlights

High Bay & Low Bay

Indoor Area Lighting

– TLEDs

– Troffers

Lamps

LUXEON 2835 Line product performance at specified test current and temperature.

PRODUCT	VOLTAGE	NOMINAL CCT ^[1]	MINIMUM CRI ^[2, 3]	LUMINOUS FLUX ^[2, 3] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER
				MINIMUM	TYPICAL			
LUXEON 2835E	9V	6500K	70	78	86	158	60	L128-6570EC3500001
		2200K	80	59	65	119	60	L128-2280EC3500001
		2700K	80	67	75	137	60	L128-2780EC3500001
		3000K	80	70	78	142	60	L128-3080EC3500001
		3500K	80	72	80	147	60	L128-3580EC3500001
		4000K	80	74	82	150	60	L128-4080EC3500001
		5000K	80	74	82	150	60	L128-5080EC3500001
		5700K	80	74	82	150	60	L128-5780EC3500001
		6500K	80	74	82	150	60	L128-6580EC3500001
		2200K	90	50	55	102	60	L128-2290EC3500001
		2700K	90	54	62	114	60	L128-2790EC3500001
		3000K	90	57	65	119	60	L128-3090EC3500001
		3500K	90	60	68	124	60	L128-3590EC3500001
		4000K	90	62	70	128	60	L128-4090EC3500001
		5000K	90	62	70	128	60	L128-5090EC3500001
	6V	2700K	80	45	50	139	60	L128-2780EB3500001
		3000K	80	46	51	142	60	L128-3080EB3500001
		3500K	80	47	52	144	60	L128-3580EB3500001
		4000K	80	49	54	150	60	L128-4080EB3500001
		5000K	80	49	54	150	60	L128-5080EB3500001
		5700K	80	49	54	150	60	L128-5780EB3500001
	3V	6500K	80	49	54	150	60	L128-6580EB3500001
		2700K	80	23	25	137	60	L128-2780EA3500001
		3000K	80	24	27	148	60	L128-3080EA3500001
		3500K	80	24	28	154	60	L128-3580EA3500001
		4000K	80	26	29	159	60	L128-4080EA3500001
		5000K	80	26	29	159	60	L128-5080EA3500001
		5700K	80	26	29	159	60	L128-5780EA3500001
		6500K	80	26	29	159	60	L128-6580EA3500001
		2700K	90	19	22	129	60	L128-2790EA3500001
		3000K	90	20	22	129	60	L128-3090EA3500001
		3500K	90	20	23	135	60	L128-3590EA3500001
		4000K	90	21	24	140	60	L128-4090EA3500001
		5000K	90	21	24	140	60	L128-5090EA3500001
		5700K	90	21	25	146	60	L128-5790EA3500001
		6500K	90	21	25	146	60	L128-6590EA3500001

Table continued on next page.

1. Correlated color temperature is cold-targeted at T_j=25°C for 3V products (LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T_j=85°C for 6V and 9V products (LUXEON 2835E 6V, LUXEON 2835E 9V, and LUXEON 2835C 6V).
2. Luminous flux and CRI specs are based upon mounted package on highly reflective surface at T_j=25°C. 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.

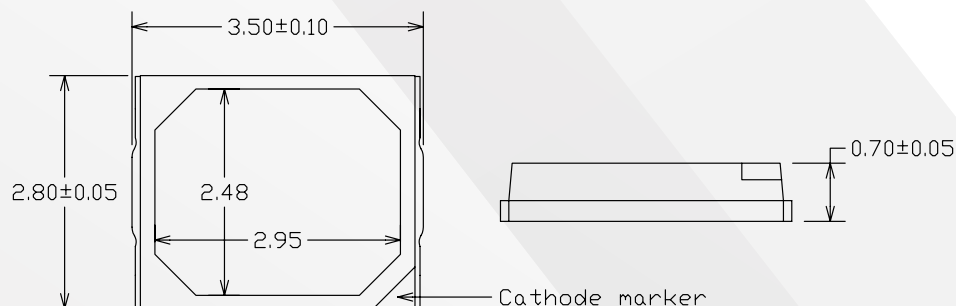
LUXEON 2835 Line product performance at specified test current and temperature (continued).

PRODUCT	VOLTAGE	NOMINAL CCT ^[1]	MINIMUM CRI ^[2, 3]	LUMINOUS FLUX ^[2, 3] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER
				MINIMUM	TYPICAL			
LUXEON 2835C	6V	2700K	80	93	105	141	120	L128-2780CB3500001
		3000K	80	96	108	145	120	L128-3080CB3500001
		3500K	80	99	111	149	120	L128-3580CB3500001
		4000K	80	103	115	155	120	L128-4080CB3500001
		5000K	80	103	115	155	120	L128-5080CB3500001
		5700K	80	103	115	155	120	L128-5780CB3500001
		6500K	80	103	115	155	120	L128-6580CB3500001
	3V	2700K	80	49	54	154	120	L128-2780CA3500001
		3000K	80	51	56	160	120	L128-3080CA3500001
		3500K	80	53	57	164	120	L128-3580CA3500001
		4000K	80	55	60	168	120	L128-4080CA3500001
		5000K	80	55	60	168	120	L128-5080CA3500001
		5700K	80	55	60	168	120	L128-5780CA3500001
		6500K	80	55	60	168	120	L128-6580CA3500001
		2700K	90	42	47	132	120	L128-2790CA3500001
		3000K	90	42	48	134	120	L128-3090CA3500001
		3500K	90	44	50	139	120	L128-3590CA3500001
		4000K	90	46	51	143	120	L128-4090CA3500001
		5000K	90	46	51	143	120	L128-5090CA3500001
		5700K	90	46	52	145	120	L128-5790CA3500001
		6500K	90	46	52	145	120	L128-6590CA3500001
	3V TVS	2700K	80	48	54	149	120	L128-2780CA35000T1
		3000K	80	50	56	154	120	L128-3080CA35000T1
		3500K	80	52	57	158	120	L128-3580CA35000T1
		4000K	80	54	58	163	120	L128-4080CA35000T1
		5000K	80	54	58	163	120	L128-5080CA35000T1
		5700K	80	54	58	163	120	L128-5780CA35000T1
		6500K	80	54	58	163	120	L128-6580CA35000T1

Notes:

1. Correlated color temperature is cold-targeted at T=25°C for 3V products (LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T_j=85°C for 6V and 9V products (LUXEON 2835E 6V, LUXEON 2835E 9V, and LUXEON 2835C 6V).
2. Luminous flux and CRI specs are based upon mounted package on highly reflective surface at T_j=25°C. 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.

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