



# LUXEON 2835 Architectural

Perfected performance, built on a proven legacy



LUXEON 2835 Architectural is a collection of compact devices that 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 Architectural is the perfect upgrade for other 2835 products and other common mid power offerings. LUXEON 2835 Architectural is color targeted for application needs and delivers efficacy and reliability for a variety of applications.

## 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 480mA allows for reduction of LED count

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

2-, 3-, 4- and 5-step MacAdam ellipse color kits available

## PRIMARY APPLICATIONS

Panel / Soft Lights

Linear

Troffers

Downlights

Retrofit Lamps

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

VOLTAGE	PRODUCT	NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER
				MINIMUM	TYPICAL			
3V	LUXEON 2835E	2700K	80	23.0	27.6	158.6	60	L128-2780EA3500001
		3000K	80	24.0	28.6	164.4	60	L128-3080EA3500001
		3500K	80	24.0	29.6	170.1	60	L128-3580EA3500001
		4000K	80	26.0	30.1	173.0	60	L128-4080EA3500001
		5000K	80	26.0	30.1	173.0	60	L128-5080EA3500001
		5700K	80	26.0	30.1	173.0	60	L128-5780EA3500001
		6500K	80	26.0	29.9	171.8	60	L128-6580EA3500001
		2700K	90	19.0	23.5	135.1	60	L128-2790EA3500001
		3000K	90	20.0	24.8	142.5	60	L128-3090EA3500001
		3500K	90	20.0	25.7	147.7	60	L128-3590EA3500001
		4000K	90	21.0	26.3	151.1	60	L128-4090EA3500001
		5000K	90	21.0	26.3	151.1	60	L128-5090EA3500001
		5700K	90	21.0	26.3	151.1	60	L128-5790EA3500001
		6500K	90	21.0	26.0	149.4	60	L128-6590EA3500001
		LUXEON 2835C	2700K	80	49.0	58.2	161.7	120
	3000K		80	51.0	60.2	167.2	120	L128-3080CA3500001
	3500K		80	53.0	61.2	170.0	120	L128-3580CA3500001
	4000K		80	55.0	63.8	177.2	120	L128-4080CA3500001
	5000K		80	55.0	63.8	177.2	120	L128-5080CA3500001
	5700K		80	55.0	63.8	177.2	120	L128-5780CA3500001
	6500K		80	55.0	63.8	177.2	120	L128-6580CA3500001
	2700K		90	42.0	49.8	138.3	120	L128-2790CA3500001
	3000K		90	42.0	51.9	144.2	120	L128-3090CA3500001
	3500K		90	44.0	53.5	148.6	120	L128-3590CA3500001
	4000K		90	46.0	54.6	151.7	120	L128-4090CA3500001
	5000K		90	46.0	54.6	151.7	120	L128-5090CA3500001
	5700K		90	46.0	54.6	151.7	120	L128-5790CA3500001
	6500K		90	46.0	54.6	151.7	120	L128-6590CA3500001
	LUXEON 2835N		1800K	80	21.9	23.3	130.3	65
		2200K	80	26.6	28.3	158.3	65	L128-2280NA3500001
2700K		80	30.3	32.5	181.8	65	L128-2780NA3500001	
3000K		80	32.3	34.4	192.4	65	L128-3080NA3500001	
3500K		80	33.7	35.9	200.8	65	L128-3580NA3500001	
4000K		80	34.3	36.5	204.2	65	L128-4080NA3500001	
5000K		80	34.3	36.5	204.2	65	L128-5080NA3500001	
5700K		80	34.3	36.5	204.2	65	L128-5780NA3500001	
6500K		80	33.7	35.9	200.8	65	L128-6580NA3500001	
1800K		90	18.0	19.1	106.9	65	L128-1890NA3500001	
2200K		90	23.1	24.6	137.6	65	L128-2290NA3500001	
2700K		90	26.2	27.9	156.1	65	L128-2790NA3500001	
3000K		90	27.3	29.0	162.2	65	L128-3090NA3500001	
3500K		90	28.4	30.2	169.0	65	L128-3590NA3500001	
4000K		90	29.3	31.2	174.5	65	L128-4090NA3500001	
5000K	90	29.3	31.2	174.5	65	L128-5090NA3500001		
5700K	90	29.3	31.2	174.5	65	L128-5790NA3500001		
6500K	90	29.1	31.0	173.4	65	L128-6590NA3500001		

Table continued on next page.

1. Correlated color temperature is cold-targeted at T=25°C for 3V products (LUXEON 2835 HE, LUXEON 2835N 3V, LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T=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<sub>j</sub>=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 Architectural product performance at specified test current and temperature (continued).

VOLTAGE	PRODUCT	NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER		
				MINIMUM	TYPICAL					
3V	LUXEON 2835 HE	3000K	70	32.4	37.1	210.6	65	L128-3070HA35000B1		
		3500K	70	32.8	37.7	214.0	65	L128-3570HA35000B1		
		4000K	70	34.0	38.6	219.1	65	L128-4070HA35000B1		
		5000K	70	34.0	38.6	219.1	65	L128-5070HA35000B1		
		5700K	70	33.7	38.1	216.3	65	L128-5770HA35000B1		
		6500K	70	33.6	38.1	216.3	65	L128-6570HA35000B1		
		1800K	80	22.1	23.5	133.4	65	L128-1880HA35000B1		
		2200K	80	26.0	29.1	165.2	65	L128-2280HA35000B1		
		2700K	80	30.5	34.0	193.0	65	L128-2780HA35000B1		
		3000K	80	31.5	34.9	198.1	65	L128-3080HA35000B1		
		3500K	80	32.7	36.4	206.6	65	L128-3580HA35000B1		
		4000K	80	33.5	36.8	208.9	65	L128-4080HA35000B1		
		5000K	80	33.5	36.8	208.9	65	L128-5080HA35000B1		
		5700K	80	33.5	36.8	208.9	65	L128-5780HA35000B1		
		6500K	80	33.0	36.5	207.2	65	L128-6580HA35000B1		
		1800K	90	17.9	19.0	107.9	65	L128-1890HA35000B1		
		2200K	90	22.9	24.4	138.5	65	L128-2290HA35000B1		
		2700K	90	24.3	27.9	158.4	65	L128-2790HA35000B1		
		3000K	90	25.4	29.5	167.5	65	L128-3090HA35000B1		
		3500K	90	26.7	30.4	172.6	65	L128-3590HA35000B1		
		4000K	90	27.4	31.0	176.0	65	L128-4090HA35000B1		
		5000K	90	27.4	31.0	176.0	65	L128-5090HA35000B1		
		5700K	90	27.4	31.0	176.0	65	L128-5790HA35000B1		
		6500K	90	27.0	30.9	175.4	65	L128-6590HA35000B1		
		2700K	95	23.4	27.2	154.4	65	L128-2795HA35000B1		
		3000K	95	24.3	28.2	160.1	65	L128-3095HA35000B1		
		3500K	95	24.7	28.5	161.5	65	L128-3595HA35000B1		
		4000K	95	25.4	29.0	164.5	65	L128-4095HA35000B1		
		5000K	95	25.9	29.6	168.0	65	L128-5095HA35000B1		
		5700K	95	26.3	30.0	170.0	65	L128-5795HA35000B1		
		1800K	80	23.3	24.8	140.8	65	L128-1880HA35000H1		
		2200K	80	28.7	30.5	173.1	65	L128-2280HA35000H1		
		2700K	80	32.4	34.5	195.9	65	L128-2780HA35000H1		
		3000K	80	33.4	35.5	201.5	65	L128-3080HA35000H1		
		3500K	80	34.8	37.0	210.0	65	L128-3580HA35000H1		
		4000K	80	35.8	38.1	216.3	65	L128-4080HA35000H1		
		5000K	80	35.8	38.1	216.3	65	L128-5080HA35000H1		
		5700K	80	35.3	37.5	212.9	65	L128-5780HA35000H1		
		6500K	80	34.8	37.0	210.0	65	L128-6580HA35000H1		
		3V	LUXEON 2835C TVS	2700K	80	48.0	57.8	160.6	120	L128-2780CA35000T1
				3000K	80	50.0	60.5	168.1	120	L128-3080CA35000T1
				3500K	80	52.0	62.0	172.2	120	L128-3580CA35000T1
4000K	80			54.0	63.0	175.0	120	L128-4080CA35000T1		
5000K	80			54.0	63.0	175.0	120	L128-5080CA35000T1		
5700K	80			54.0	63.0	175.0	120	L128-5780CA35000T1		
6500K	80			54.0	62.5	173.6	120	L128-6580CA35000T1		

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- Correlated color temperature is cold-targeted at T<sub>j</sub>=25°C for 3V products (LUXEON 2835 HE, LUXEON 2835N 3V, LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T<sub>j</sub>=85°C for 6V and 9V products (LUXEON 2835E 6V, LUXEON 2835E 9V, and LUXEON 2835C 6V).
- Luminous flux and CRI specs are based upon mounted package on highly reflective surface at T<sub>j</sub>=25°C. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
- Lumileds maintains a tolerance of ±2 on CRI and ±7.5% on luminous flux measurements.

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

VOLTAGE	PRODUCT	NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER	
				MINIMUM	TYPICAL				
6V	LUXEON 2835E	2700K	80	45.0	54.0	145.2	60	L128-2780EB3500001	
		3000K	80	46.0	55.0	147.8	60	L128-3080EB3500001	
		3500K	80	47.0	56.0	150.5	60	L128-3580EB3500001	
		4000K	80	49.0	59.0	158.6	60	L128-4080EB3500001	
		5000K	80	49.0	59.0	158.6	60	L128-5080EB3500001	
		5700K	80	49.0	59.0	158.6	60	L128-5780EB3500001	
		6500K	80	49.0	59.0	158.6	60	L128-6580EB3500001	
		2700K	80	93.0	115.0	159.7	120	L128-2780CB3500001	
		3000K	80	96.0	118.0	163.9	120	L128-3080CB3500001	
		3500K	80	99.0	122.0	169.4	120	L128-3580CB3500001	
		4000K	80	103.0	125.0	173.6	120	L128-4080CB3500001	
		5000K	80	103.0	125.0	173.6	120	L128-5080CB3500001	
		5700K	80	103.0	125.0	173.6	120	L128-5780CB3500001	
		6500K	80	103.0	124.0	172.2	120	L128-6580CB3500001	
	2700K	90	78.0	96.0	133.3	120	L128-2790CB3500001		
	3000K	90	81.0	99.0	137.5	120	L128-3090CB3500001		
	3500K	90	83.0	102.0	141.7	120	L128-3590CB3500001		
	4000K	90	87.0	106.0	147.2	120	L128-4090CB3500001		
	5000K	90	87.0	106.0	147.2	120	L128-5090CB3500001		
	5700K	90	87.0	106.0	147.2	120	L128-5790CB3500001		
	6500K	90	87.0	106.0	147.2	120	L128-6590CB3500001		
	9V	LUXEON 2835E	6500K	70	78.0	93.0	174.2	60	L128-6570EC3500001
			2200K	80	59.0	70.0	131.1	60	L128-2280EC3500001
			2700K	80	67.0	81.0	151.7	60	L128-2780EC3500001
			3000K	80	70.0	85.0	159.2	60	L128-3080EC3500001
			3500K	80	72.0	88.0	164.8	60	L128-3580EC3500001
			4000K	80	74.0	90.0	168.5	60	L128-4080EC3500001
			5000K	80	74.0	90.0	168.5	60	L128-5080EC3500001
5700K			80	74.0	90.0	168.5	60	L128-5780EC3500001	
6500K			80	74.0	89.0	166.7	60	L128-6580EC3500001	

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1. Correlated color temperature is cold-targeted at T<sub>j</sub>=25°C for 3V products (LUXEON 2835 HE, LUXEON 2835N 3V, LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T<sub>j</sub>=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<sub>j</sub>=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 Architectural product performance at specified test current and temperature (continued).

VOLTAGE	PRODUCT	NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER
				MINIMUM	TYPICAL			
9V	LUXEON 2835E	2200K	90	50.0	60.0	112.4	60	L128-2290EC3500001
		2700K	90	54.0	68.0	127.3	60	L128-2790EC3500001
		3000K	90	57.0	71.0	133.0	60	L128-3090EC3500001
		3500K	90	60.0	74.0	138.6	60	L128-3590EC3500001
		4000K	90	62.0	76.0	142.3	60	L128-4090EC3500001
		5000K	90	62.0	76.0	142.3	60	L128-5090EC3500001
		6500K	70	120.0	142.0	152.7	100	L128-6570EC35000B1
		2200K	80	92.0	108.0	116.1	100	L128-2280EC35000B1
		2700K	80	106.0	125.0	134.4	100	L128-2780EC35000B1
		3000K	80	110.0	129.0	138.7	100	L128-3080EC35000B1
		3500K	80	113.0	133.5	143.5	100	L128-3580EC35000B1
		4000K	80	116.0	137.0	147.3	100	L128-4080EC35000B1
		5000K	80	116.0	137.0	147.3	100	L128-5080EC35000B1
		5700K	80	116.0	137.0	147.3	100	L128-5780EC35000B1
		6500K	80	116.0	137.0	147.3	100	L128-6580EC35000B1
		2200K	90	77.0	92.0	98.9	100	L128-2290EC35000B1
		2700K	90	87.0	104.0	111.8	100	L128-2790EC35000B1
		3000K	90	91.0	108.0	116.1	100	L128-3090EC35000B1
		3500K	90	95.0	113.0	121.5	100	L128-3590EC35000B1
		4000K	90	98.0	116.0	124.7	100	L128-4090EC35000B1
5000K	90	98.0	116.0	124.7	100	L128-5090EC35000B1		

Notes:

1. Correlated color temperature is cold-targeted at T<sub>j</sub>=25°C for 3V products (LUXEON 2835 HE, LUXEON 2835N 3V, LUXEON 2835E 3V, LUXEON 2835C 3V, and LUXEON 2835C 3V TVS). Correlated color temperature is hot-targeted at T<sub>j</sub>=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<sub>j</sub>=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.