



## ILLUMINATION



# LUXEON 2835 Commercial

Superior lm/W/\$ choice in LUXEON 2835 portfolio



LUXEON 2835 Commercial mid-power LEDs are the price/performance leader for commercial indoor lighting solutions when lumens per Watt and lumens per dollar are the driving metrics for development. They are available in CCTs from 2700K to 6500K and CRIs of 80 and 90. LUXEON 2835 Commercial has a superior max current rating and features a 1/5<sup>th</sup> color bin structure making it a perfect choice for indoor applications where you want the quality and reliability of LUXEON in a commercial application. LUXEON 2835 Commercial leads its class in flux, color consistency, robustness, and reliability making it the right choice for commercial indoor luminaires.

### FEATURES AND BENEFITS

- Complete CCT/CRI offering for various application
- Industry standard footprint for drop-in replacement
- Reliable package design for commercial applications
- 5 SDCM MacAdam ellipse enable precise color control

### PRIMARY APPLICATIONS

- Panel / Soft Lights
- Linear
- Troffers

LUXEON 2835 Commercial product performance at specified test conditions.

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 S	2700K	80	30.0	32.5	181.0	65	L128-2780SA35A00A1
		3000K	80	32.0	33.5	186.5	65	L128-3080SA35A00A1
		3500K	80	32.5	34.0	189.0	65	L128-3580SA35A00A1
		4000K	80	33.0	35.0	195.0	65	L128-4080SA35A00A1
		5000K	80	33.0	35.0	195.0	65	L128-5080SA35A00A1
		5700K	80	33.0	35.0	195.0	65	L128-5780SA35A00A1
		6500K	80	32.5	34.5	192.0	65	L128-6580SA35A00A1
		2700K	90	25.5	27.5	153.3	65	L128-2790SA35A00A1
		3000K	90	26.8	28.8	160.5	65	L128-3090SA35A00A1
		3500K	90	28.1	30.2	168.3	65	L128-3590SA35A00A1
		4000K	90	28.6	30.8	171.7	65	L128-4090SA35A00A1
		5000K	90	28.6	30.8	171.7	65	L128-5090SA35A00A1
		5700K	90	28.6	30.8	171.7	65	L128-5790SA35A00A1
		6500K	90	28.3	30.4	169.5	65	L128-6590SA35A00A1
		2700K	80	31.3	34.3	194.7	65	L128-2780SA35A00B1
		3000K	80	32.2	35.4	201.0	65	L128-3080SA35A00B1
		3500K	80	33.2	36.3	206.1	65	L128-3580SA35A00B1
		4000K	80	33.8	36.9	209.5	65	L128-4080SA35A00B1
		5000K	80	33.8	37.1	210.6	65	L128-5080SA35A00B1
		5700K	80	33.8	37.1	210.6	65	L128-5780SA35A00B1
		6500K	80	33.3	36.6	207.8	65	L128-6580SA35A00B1
		2700K	90	26.8	28.8	163.5	65	L128-2790SA35A00B1
		3000K	90	27.4	29.9	169.7	65	L128-3090SA35A00B1
		3500K	90	28.3	30.8	174.9	65	L128-3590SA35A00B1
		4000K	90	29.4	31.8	180.5	65	L128-4090SA35A00B1
		5000K	90	29.4	31.8	180.5	65	L128-5090SA35A00B1
		5700K	90	29.4	31.8	180.5	65	L128-5790SA35A00B1
		6500K	90	29.4	31.8	180.5	65	L128-6590SA35A00B1
		2700K	80	29.2	31.4	173.8	65	L128-2780SA35A00C1
		3000K	80	30.2	32.5	179.9	65	L128-3080SA35A00C1
		3500K	80	31.1	33.5	185.4	65	L128-3580SA35A00C1
		4000K	80	31.6	33.9	187.6	65	L128-4080SA35A00C1
		5000K	80	31.6	34.0	188.2	65	L128-5080SA35A00C1
		5700K	80	31.6	34.0	188.2	65	L128-5780SA35A00C1
		6500K	80	31.4	33.7	186.5	65	L128-6580SA35A00C1
		2700K	90	24.9	26.8	148.3	65	L128-2790SA35A00C1
		3000K	90	25.8	27.8	153.8	65	L128-3090SA35A00C1
		3500K	90	26.7	28.8	159.4	65	L128-3590SA35A00C1
		4000K	90	28.2	30.3	167.7	65	L128-4090SA35A00C1
		5000K	90	28.2	30.4	168.2	65	L128-5090SA35A00C1
		5700K	90	28.2	30.4	168.2	65	L128-5790SA35A00C1
		6500K	90	27.9	30.0	166.0	65	L128-6590SA35A00C1

Table continued on next page:

- 1. Correlated color temperature is cold-targeted at T<sub>j</sub>=25°C.
- 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 Commercial product performance at specified test conditions, 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 S	2700K	80	31.6	34.0	190.7	65	L128-2780SA35A00D1
		3000K	80	32.4	34.8	195.1	65	L128-3080SA35A00D1
		3500K	80	33.1	35.5	199.6	65	L128-3580SA35A00D1
		4000K	80	33.8	36.3	204.1	65	L128-4080SA35A00D1
		5000K	80	34.2	36.7	206.3	65	L128-5080SA35A00D1
		5700K	80	34.2	36.7	206.3	65	L128-5780SA35A00D1
		6500K	80	33.8	36.3	204.1	65	L128-6580SA35A00D1
		2700K	90	27.2	29.3	164.5	65	L128-2790SA35A00D1
		3000K	90	28.4	30.6	171.7	65	L128-3090SA35A00D1
		3500K	90	29.4	31.6	177.3	65	L128-3590SA35A00D1
		4000K	90	29.7	32.0	179.5	65	L128-4090SA35A00D1
		5000K	90	29.7	32.0	179.5	65	L128-5090SA35A00D1
		5700K	90	29.6	31.8	178.4	65	L128-5790SA35A00D1
		6500K	90	29.4	31.6	177.3	65	L128-6590SA35A00D1
		2700K	80	33.8	34.2	195.0	65	L128-2780SA35A00E1
		3000K	80	34.3	35.2	200.6	65	L128-3080SA35A00E1
		3500K	80	35.3	35.9	204.6	65	L128-3580SA35A00E1
		4000K	80	37.2	38.2	218.0	65	L128-4080SA35A00E1
		5000K	80	37.2	38.2	218.0	65	L128-5080SA35A00E1
		5700K	80	36.7	38.2	218.0	65	L128-5780SA35A00E1
		6500K	80	35.7	37.5	214.0	65	L128-6580SA35A00E1
		2700K	90	29.8	31.0	176.6	65	L128-2790SA35A00E1
		3000K	90	30.6	32.2	183.5	65	L128-3090SA35A00E1
		3500K	90	30.8	32.4	184.6	65	L128-3590SA35A00E1
		4000K	90	31.3	32.7	186.3	65	L128-4090SA35A00E1
		5000K	90	31.3	32.7	186.3	65	L128-5090SA35A00E1
		5700K	90	31.3	32.7	186.3	65	L128-5790SA35A00E1
		6500K	90	31.8	32.7	186.3	65	L128-6590SA35A00E1
		2700K	80	34.8	35.2	200.6	65	L128-2780SA35A00F1
		3000K	80	35.7	36.1	205.7	65	L128-3080SA35A00F1
		3500K	80	36.7	37.3	212.5	65	L128-3580SA35A00F1
		4000K	80	37.5	38.6	220.0	65	L128-4080SA35A00F1
		5000K	80	37.7	38.6	220.0	65	L128-5080SA35A00F1
		5700K	80	37.7	38.6	220.0	65	L128-5780SA35A00F1
		6500K	80	37.7	39.5	225.1	65	L128-6580SA35A00F1
		2700K	90	29.8	31.2	177.7	65	L128-2790SA35A00F1
		3000K	90	30.8	32.4	184.5	65	L128-3090SA35A00F1
		3500K	90	31.8	32.6	185.6	65	L128-3590SA35A00F1
		4000K	90	32.3	33.0	187.8	65	L128-4090SA35A00F1
		5000K	90	32.3	33.0	187.8	65	L128-5090SA35A00F1
		5700K	90	32.3	33.0	187.8	65	L128-5790SA35A00F1
		6500K	90	32.3	33.0	187.8	65	L128-6590SA35A00F1
		2700K	80	30.2	31.7	175.4	65	L128-2780SA35A00G1
		3000K	80	30.7	32.3	178.7	65	L128-3080SA35A00G1
		3500K	80	30.9	32.5	179.9	65	L128-3580SA35A00G1
		4000K	80	32.5	34.2	189.3	65	L128-4080SA35A00G1
		5000K	80	32.5	34.2	189.3	65	L128-5080SA35A00G1
		5700K	80	32.5	34.2	189.3	65	L128-5780SA35A00G1
		6500K	80	31.8	33.5	185.4	65	L128-6580SA35A00G1

Table continued on next page:

- 1. Correlated color temperature is cold-targeted at T<sub>j</sub>=25°C.
- 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 Commercial product performance at specified test conditions. 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			
120V	MR16	2700K	80	101.4	109.0	150.1	120	L128-2780SB35B00A1
		3000K	80	104.1	112.0	154.3	120	L128-3080SB35B00A1
		3500K	80	106.9	115.0	158.4	120	L128-3580SB35B00A1
		4000K	80	110.0	118.3	162.9	120	L128-4080SB35B00A1
		5000K	80	110.0	118.3	162.9	120	L128-5080SB35B00A1
		5700K	80	110.0	118.3	162.9	120	L128-5780SB35B00A1
		6500K	80	108.6	116.8	160.9	120	L128-6580SB35B00A1
		9000K	90	84.8	91.2	125.6	120	L128-2790SB35B00A1
			90	88.5	95.2	131.1	120	L128-3090SB35B00A1
			90	93.1	100.2	138.0	120	L128-3590SB35B00A1
			90	95.9	103.2	142.1	120	L128-4090SB35B00A1
			90	95.9	103.2	142.1	120	L128-5090SB35B00A1
				95.9	103.2	142.1	120	L128-5790SB35B00A1
				95.9	103.2	142.1	120	L128-6590SB35B00A1

reflective surface at  $T_j=25^{\circ}\text{C}$ . Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not a requirement.