LUMILEDS

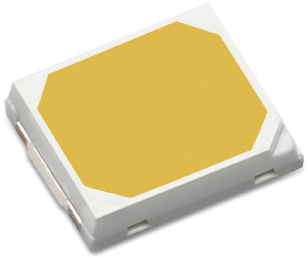
ILLUMINATION





LUXEON 2835 Commercial Visual Consistency

Build for Uniformity. Engineered for Confidence.



LUXEON 2835 Commercial Visual Consistency LEDs deliver premium, uniform lighting performance specifically engineered for high-end architectural lighting. Built on a standard 2835 package, they enable easy integration, consistent design iteration and fast product upgrades, greatly simplifying R&D processes and shortening time-to-market. Adopting a single color bin design with optional single VF bin at specified current, these LEDs ensure excellent color consistency and precise electrical matching, delivering flawless uniform illumination across entire projects. The advanced secondary sorting technology supports smooth deep dimming while maintaining stable color accuracy. With reliable performance, superior light uniformity and refined visual aesthetics, they serve as an optimal choice for high-grade commercial and architectural lighting applications.

FEATURES AND BENEFITS

- Broad CCT & high CRI options offering for various application
- KSF and non-KSF choices available
- Options of single VF bin & deep dimming for string to string uniformity
- Industry standard footprint for drop-in replacement designs.
- Reliable package design for high-end architectural lighting
- Single 3-step MacAdam ellipse enable precise color control

PRIMARY APPLICATIONS

- Panel / Soft Lights
- Linear
- Troffers
- Downlights

c UL us No. E507562 RoHS COMPLIANT

PB612 LUXEON 2835 Commercial Visual Consistency Product Brief ©2026 Lumileds Holding B.V. All rights reserved.

Product performance of LUXEON 2835 Commercial Visual Consistency LEDs at specified test conditions

VOLTAGE	CCT [1]	MIN. CRI [2, 3]	MIN. FLUX [2, 3]	TYPICAL FLUX [2, 3] (lm)	TYPICAL EFFICACY (lm/W)	TEST CURRENT (mA)	COLOR	VF WIDTH PER BIN	PART NUMBER[4]
3V	2700K	80	31.6	34.0	190.9	65	3 SDCM	0.1V	L128-2780SA35AV0D5
						0.65		0.025V	L128-2780SA35AVDD5
	3000K	80	32.4	34.8	195.4	65	3 SDCM	0.1V	L128-3080SA35AV0D5
						0.65		0.025V	L128-3080SA35AVDD5
	3500K	80	33.1	35.5	199.3	65	3 SDCM	0.1V	L128-3580SA35AV0D5
						0.65		0.025V	L128-3580SA35AVDD5
	4000K	80	33.8	36.3	203.8	65	3 SDCM	0.1V	L128-4080SA35AV0D5
						0.65		0.025V	L128-4080SA35AVDD5
	5000K	80	34.2	36.7	206.1	65	3 SDCM	0.1V	L128-5080SA35AV0D5
						0.65		0.025V	L128-5080SA35AVDD5
	5700K	80	34.2	36.7	206.1	65	3 SDCM	0.1V	L128-5780SA35AV0D5
						0.65		0.025V	L128-5780SA35AVDD5
	6500K	80	33.8	36.3	203.8	65	3 SDCM	0.1V	L128-6580SA35AV0D5
						0.65		0.025V	L128-6580SA35AVDD5
	2700K	90	27.2	29.3	164.5	65	3 SDCM	0.1V	L128-2790SA35AV0D5
						0.65		0.025V	L128-2790SA35AVDD5
	3000K	90	28.4	30.6	171.8	65	3 SDCM	0.1V	L128-3090SA35AV0D5
						0.65		0.025V	L128-3090SA35AVDD5
	3500K	90	29.4	31.6	177.4	65	3 SDCM	0.1V	L128-3590SA35AV0D5
						0.65		0.025V	L128-3590SA35AVDD5
	4000K	90	29.7	32.0	179.7	65	3 SDCM	0.1V	L128-4090SA35AV0D5
						0.65		0.025V	L128-4090SA35AVDD5
	5000K	90	29.7	32.0	179.7	65	3 SDCM	0.1V	L128-5090SA35AV0D5
						0.65		0.025V	L128-5090SA35AVDD5
	5700K	90	29.6	31.8	178.6	65	3 SDCM	0.1V	L128-5790SA35AV0D5
						0.65		0.025V	L128-5790SA35AVDD5
	6500K	90	29.4	31.6	177.4	65	3 SDCM	0.1V	L128-6590SA35AV0D5
						0.65		0.025V	L128-6590SA35AVDD5
	2700K	90	30.7	31.7	178.2	65	3 SDCM	0.1V	L128-2790SA35V1KD5
						0.65		0.025V	L128-2790SA35VDKD5
	3000K	90	31.8	32.9	184.9	65	3 SDCM	0.1V	L128-3090SA35V1KD5
						0.65		0.025V	L128-3090SA35VDKD5
	3500K	90	32.2	33.3	187.1	65	3 SDCM	0.1V	L128-3590SA35V1KD5
						0.65		0.025V	L128-3590SA35VDKD5
	4000K	90	32.9	34.1	191.6	65	3 SDCM	0.1V	L128-4090SA35V1KD5
						0.65		0.025V	L128-4090SA35VDKD5
	5000K	90	32.9	34.1	191.6	65	3 SDCM	0.1V	L128-5090SA35V1KD5
						0.65		0.025V	L128-5090SA35VDKD5
	5700K	90	32.9	34.1	191.6	65	3 SDCM	0.1V	L128-5790SA35V1KD5
						0.65		0.025V	L128-5790SA35VDKD5
	6000K	90	32.9	34.1	191.6	65	3 SDCM	0.1V	L128-6590SA35V1KD5
						0.65		0.025V	L128-6590SA35VDKD5

Product performance of LUXEON 2835 Commercial Visual Consistency LEDs at specified test conditions, Continued

VOLTAGE	CCT [1]	MIN. CRI [2, 3]	MIN. FLUX [2, 3]	TYPICAL FLUX [2, 3] (lm)	TYPICAL EFFICACY (lm/W)	TEST CURRENT (mA)	COLOR	VF WIDTH PER BIN	PART NUMBER[4]
9V	2700K	80	120.4	125.3	139.2	100	3 SDCM	0.4V	L128-2780SC35DV0B5
						1		0.2V	L128-2780SC35DVDB5
	3000K	80	121.8	127.6	141.8	100	3 SDCM	0.4V	L128-3080SC35DV0B5
						1		0.2V	L128-3080SC35DVDB5
	3500K	80	123.3	129.2	143.6	100	3 SDCM	0.4V	L128-3580SC35DV0B5
						1		0.2V	L128-3580SC35DVDB5
	4000K	80	131.0	138.2	153.5	100	3 SDCM	0.4V	L128-4080SC35DV0B5
						1		0.2V	L128-4080SC35DVDB5
	5000K	80	131.0	138.2	153.5	100	3 SDCM	0.4V	L128-5080SC35DV0B5
						1		0.2V	L128-5080SC35DVDB5
	5700K	80	131.0	138.2	153.5	100	3 SDCM	0.4V	L128-5780SC35DV0B5
						1		0.2V	L128-5780SC35DVDB5
	6500K	80	130.0	138.0	153.3	100	3 SDCM	0.4V	L128-6580SC35DV0B5
						1		0.2V	L128-6580SC35DVDB5
	2700K	90	101.8	105.0	116.6	100	3 SDCM	0.4V	L128-2790SC35DV0B5
						1		0.2V	L128-2790SC35DVDB5
	3000K	90	107.4	111.0	123.2	100	3 SDCM	0.4V	L128-3090SC35DV0B5
						1		0.2V	L128-3090SC35DVDB5
	3500K	90	112.1	115.6	128.5	100	3 SDCM	0.4V	L128-3590SC35DV0B5
						1		0.2V	L128-3590SC35DVDB5
	4000K	90	114.4	118.1	131.3	100	3 SDCM	0.4V	L128-4090SC35DV0B5
						1		0.2V	L128-4090SC35DVDB5
	5000K	90	114.4	118.1	131.3	100	3 SDCM	0.4V	L128-5090SC35DV0B5
						1		0.2V	L128-5090SC35DVDB5
	5700K	90	114.4	118.1	131.3	100	3 SDCM	0.4V	L128-5790SC35DV0B5
						1		0.2V	L128-5790SC35DVDB5
	6500K	90	114.4	118.1	131.3	100	3 SDCM	0.4V	L128-6590SC35DV0B5
						1		0.2V	L128-6590SC35DVDB5
	2700K	90	118.3	122.2	135.8	100	3 SDCM	0.4V	L128-2790SC35DVKB5
						1		0.2V	L128-2790SC35VDKB5
	3000K	90	123.2	127.1	141.2	100	3 SDCM	0.4V	L128-3090SC35DVKB5
						1		0.2V	L128-3090SC35VDKB5
	3500K	90	125.1	129.0	143.3	100	3 SDCM	0.4V	L128-3590SC35DVKB5
						1		0.2V	L128-3590SC35VDKB5
	4000K	90	129.5	135.0	150.0	100	3 SDCM	0.4V	L128-4090SC35DVKB5
						1		0.2V	L128-4090SC35VDKB5
	5000K	90	131.4	136.8	152.1	100	3 SDCM	0.4V	L128-5090SC35DVKB5
						1		0.2V	L128-5090SC35VDKB5
	5700K	90	131.4	136.8	152.1	100	3 SDCM	0.4V	L128-5790SC35DVKB5
						1		0.2V	L128-5790SC35VDKB5
	6000K	90	129.5	135.0	150.0	100	3 SDCM	0.4V	L128-6590SC35DVKB5
						1		0.2V	L128-6590SC35VDKB5

LUXEON 2835 Commercial Visual Consistency LEDs product performance at specified test conditionsContinued.

VOLTAGE	CCT [1]	MIN. CRI [2, 3]	MIN. FLUX [2, 3]	TYPICAL FLUX [2, 3] (lm)	TYPICAL EFFICACY (lm/W)	TEST CURRENT (mA)	COLOR	VF WIDTH PER BIN	PART NUMBER[4]
18V	2700K	80	131.6	136.0	153.7	50	3 SDCM	0.5V	L128-2780SE35BV0A5
						0.5		0.2V	L128-2780SE35BVDA5
	3000K	80	139.2	143.6	162.2	50	3 SDCM	0.5V	L128-3080SE35BV0A5
						0.5		0.2V	L128-3080SE35BVDA5
	3500K	80	144.8	149.3	168.7	50	3 SDCM	0.5V	L128-3580SE35BV0A5
						0.5		0.2V	L128-3580SE35BVDA5
	4000K	80	147.6	152.2	172.0	50	3 SDCM	0.5V	L128-4080SE35BV0A5
						0.5		0.2V	L128-4080SE35BVDA5
	5000K	80	147.6	152.2	172.0	50	3 SDCM	0.5V	L128-5080SE35BV0A5
						0.5		0.2V	L128-5080SE35BVDA5
	5700K	80	147.6	152.2	172.0	50	3 SDCM	0.5V	L128-5780SE35BV0A5
						0.5		0.2V	L128-5780SE35BVDA5
	6500K	80	147.6	152.2	172.0	50	3 SDCM	0.5V	L128-6580SE35BV0A5
						0.5		0.2V	L128-6580SE35BVDA5
	2700K	90	114.4	118.1	133.4	50	3 SDCM	0.5V	L128-2790SE35BV0A5
						0.5		0.2V	L128-2790SE35BVDA5
	3000K	90	119.8	123.5	139.6	50	3 SDCM	0.5V	L128-3090SE35BV0A5
						0.5		0.2V	L128-3090SE35BVDA5
	3500K	90	123.3	127.2	143.8	50	3 SDCM	0.5V	L128-3590SE35BV0A5
						0.5		0.2V	L128-3590SE35BVDA5
	4000K	90	125.6	129.5	146.4	50	3 SDCM	0.5V	L128-4090SE35BV0A5
						0.5		0.2V	L128-4090SE35BVDA5
	5000K	90	125.6	129.5	146.4	50	3 SDCM	0.5V	L128-5090SE35BV0A5
						0.5		0.2V	L128-5090SE35BVDA5
	5700K	90	125.6	129.5	146.4	50	3 SDCM	0.5V	L128-5790SE35BV0A5
						0.5		0.2V	L128-5790SE35BVDA5
	6500K	90	125.6	129.5	146.4	50	3 SDCM	0.5V	L128-6590SE35BV0A5
						0.5		0.2V	L128-6590SE35BVDA5
	2700K	90	133.4	137.7	155.6	50	3 SDCM	0.5V	L128-2790SE35BVKA5
						0.5		0.2V	L128-2790SE35VDKA5
	3000K	90	137.7	142.0	160.4	50	3 SDCM	0.5V	L128-3090SE35BVKA5
						0.5		0.2V	L128-3090SE35VDKA5
	3500K	90	140.5	145.0	163.8	50	3 SDCM	0.5V	L128-3590SE35BVKA5
						0.5		0.2V	L128-3590SE35VDKA5
	4000K	90	143.9	148.4	167.7	50	3 SDCM	0.5V	L128-4090SE35BVKA5
						0.5		0.2V	L128-4090SE35VDKA5
	5000K	90	145.3	150.1	169.6	50	3 SDCM	0.5V	L128-5090SE35BVKA5
						0.5		0.2V	L128-5090SE35VDKA5
	5700K	90	143.7	148.2	167.4	50	3 SDCM	0.5V	L128-5790SE35BVKA5
						0.5		0.2V	L128-5790SE35VDKA5
	6000K	90	140.1	144.4	163.1	50	3 SDCM	0.5V	L128-6590SE35BVKA5
						0.5		0.2V	L128-6590SE35VDKA5

Notes:
1. Correlated color temperature is cold-targeted at T_j=25°C.
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, ±7 % on luminous flux measurements and ±0.005 on x and y color coordinates in the CIE 1931 color space for these Part Numbers.
4. For 3V parts, please refer to the corresponding number for any technical report reference purposes, such as UL, RoHS, ecodesign, etc.

PART NUMBER	CORRESPONDING NUMBER
L128-XXYYSA35AV0D5	L128-XXYYSA35A00D1
L128-XXYYSA35AVDD5	L128-XXYYSA35A0DD1
L128-XXYYSA35V1KD5	L128-XXYYSA35A1KD1
L128-XXYYSA35VDKD5	L128-XXYYSA35ADKD1

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