

LIGHT ENGINE 16.4IN 192 LEDS ROUND

Issue Date	March, 2026
Issued by	Paiva, I.

Applications

- General Lighting
- Decorative Lighting
- Indoor Lighting
- Outdoor Lighting

Characteristics

- Module Efficacy – up to 190lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCT 2,700K / 3,000K / 3,500K / 4,000K / 5,000K
- 05 years warranty



DRIVE PARAMETERS

Parameter	Nominal	Max
I_{board} (Current)	880mA	2,700mA
V_{board} (Voltage)	31.6V	33.6V

MODULE TEMPERATURES

Parameter	Nominal	Max
T_c (case temperature at T_c point)	25°C	75°C

PRODUCT PART NUMBER

90 CRI				
80893000100	80893100100	80893200100	80891200100	80893300100
2,700K	3,000K	3,500K	4,000K	5,000K

LED TYPE

Manufacturer: Cree

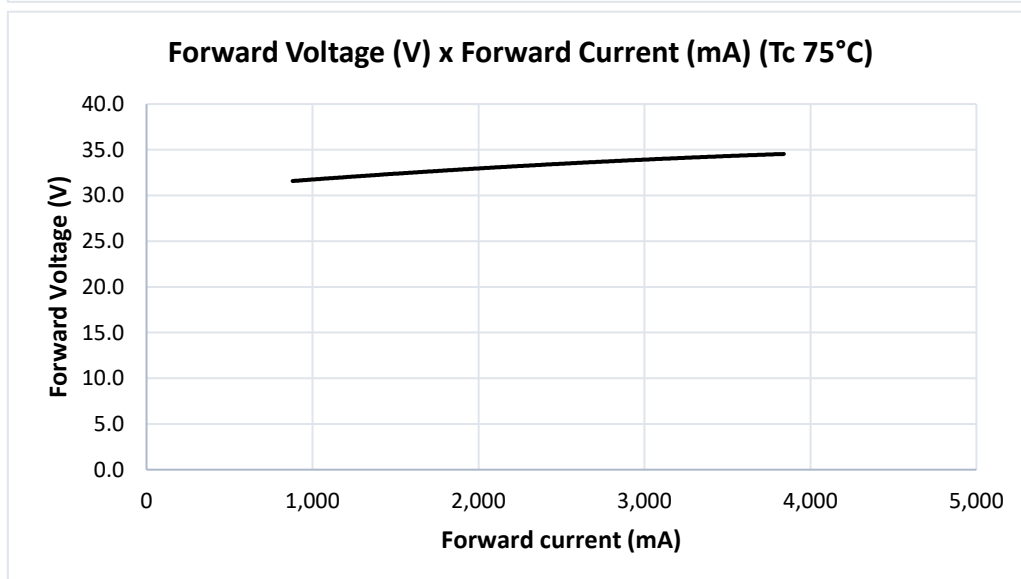
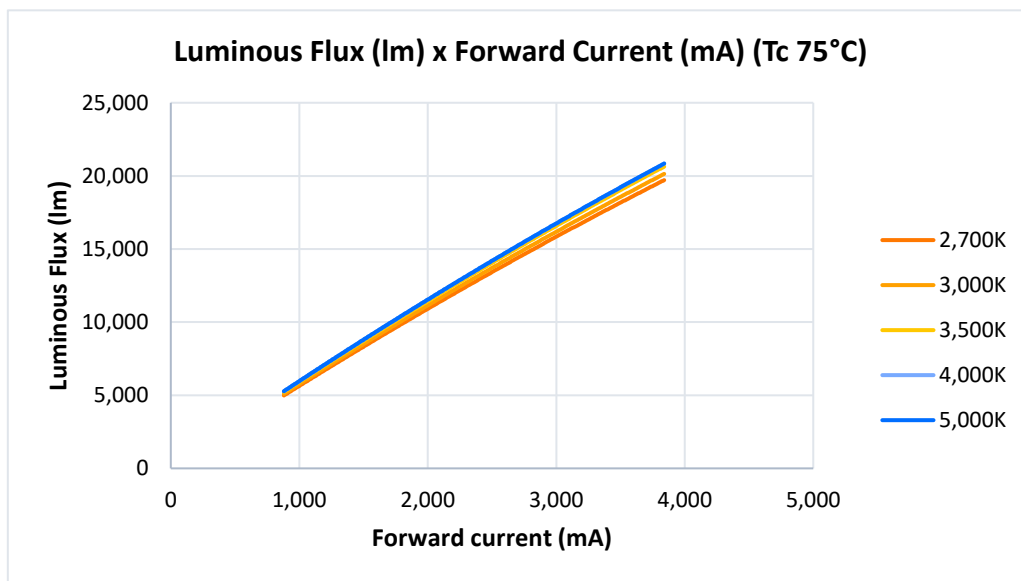
LED Series: J Series® 2835 Pro9™ LEDs

TECHNICAL INFORMATION | 90 CRI

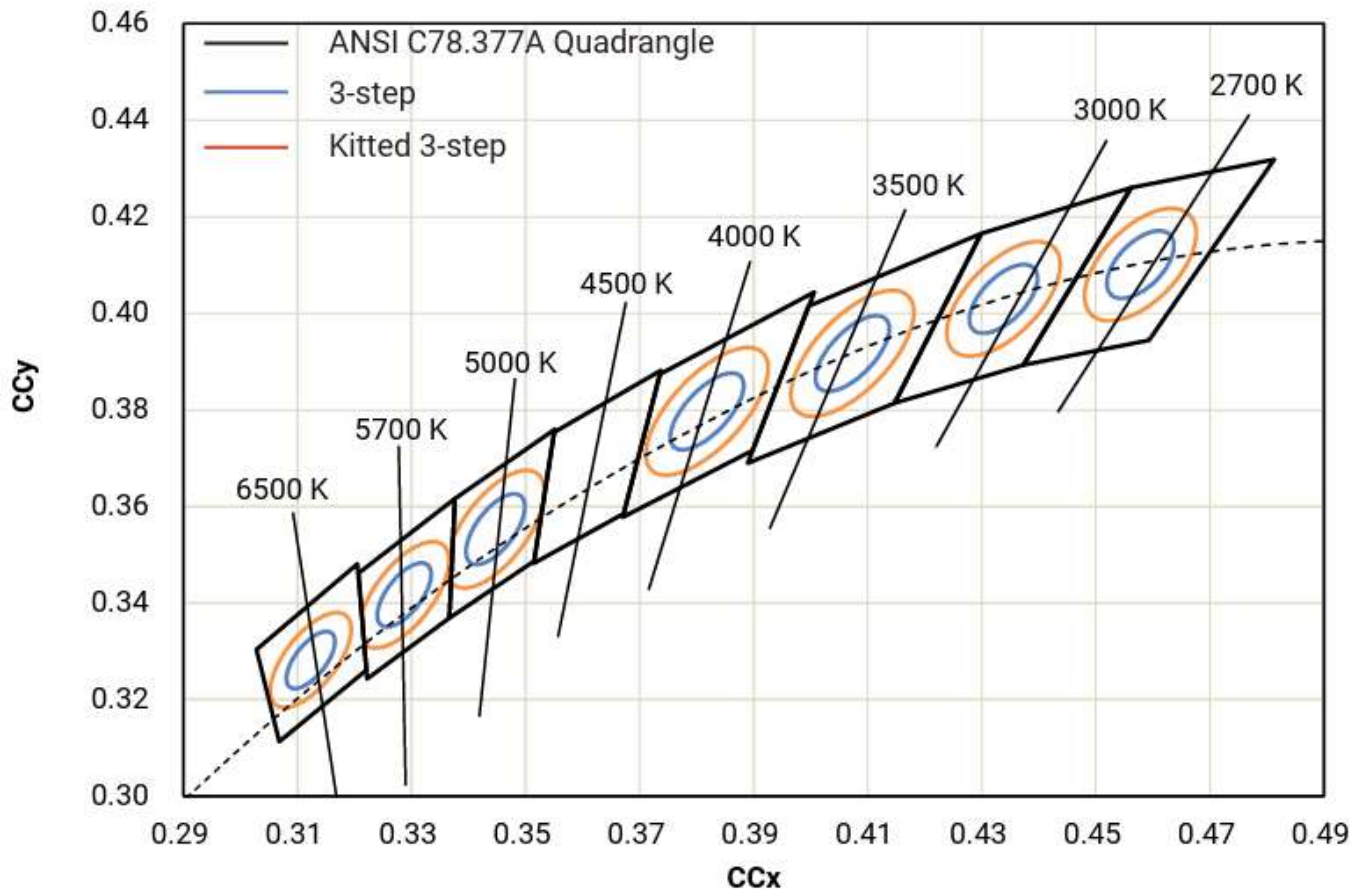
CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	Tc (°C)	Power (W)	Efficacy (lm/W)
2,700K	880	192	4,982	31.6	55	75	27.8	179
2,700K	1,760	192	9,684	32.8	110	75	57.7	168
2,700K	2,700	192	14,392	33.6	168.75	75	90.7	159
3,000K	880	192	5,090	31.6	55	75	27.8	183
3,000K	1,760	192	9,894	32.8	110	75	57.7	172
3,000K	2,700	192	14,703	33.6	168.75	75	90.7	162
3,500K	880	192	5,217	31.6	55	75	27.8	188
3,500K	1,760	192	10,138	32.8	110	75	57.7	176
3,500K	2,700	192	15,066	33.6	168.75	75	90.7	166
4,000K	880	192	5,270	31.6	55	75	27.8	190
4,000K	1,760	192	10,241	32.8	110	75	57.7	178
4,000K	2,700	192	15,220	33.6	168.75	75	90.7	168
5,000K	880	192	5,270	31.6	55	75	27.8	190
5,000K	1,760	192	10,241	32.8	110	75	57.7	178
5,000K	2,700	192	15,220	33.6	168.75	75	90.7	168

*The specific luminous flux and voltage of the LEDs may vary $\pm 8\%$. Test Conditions: Case Temperature (T_c) = 75 °C.

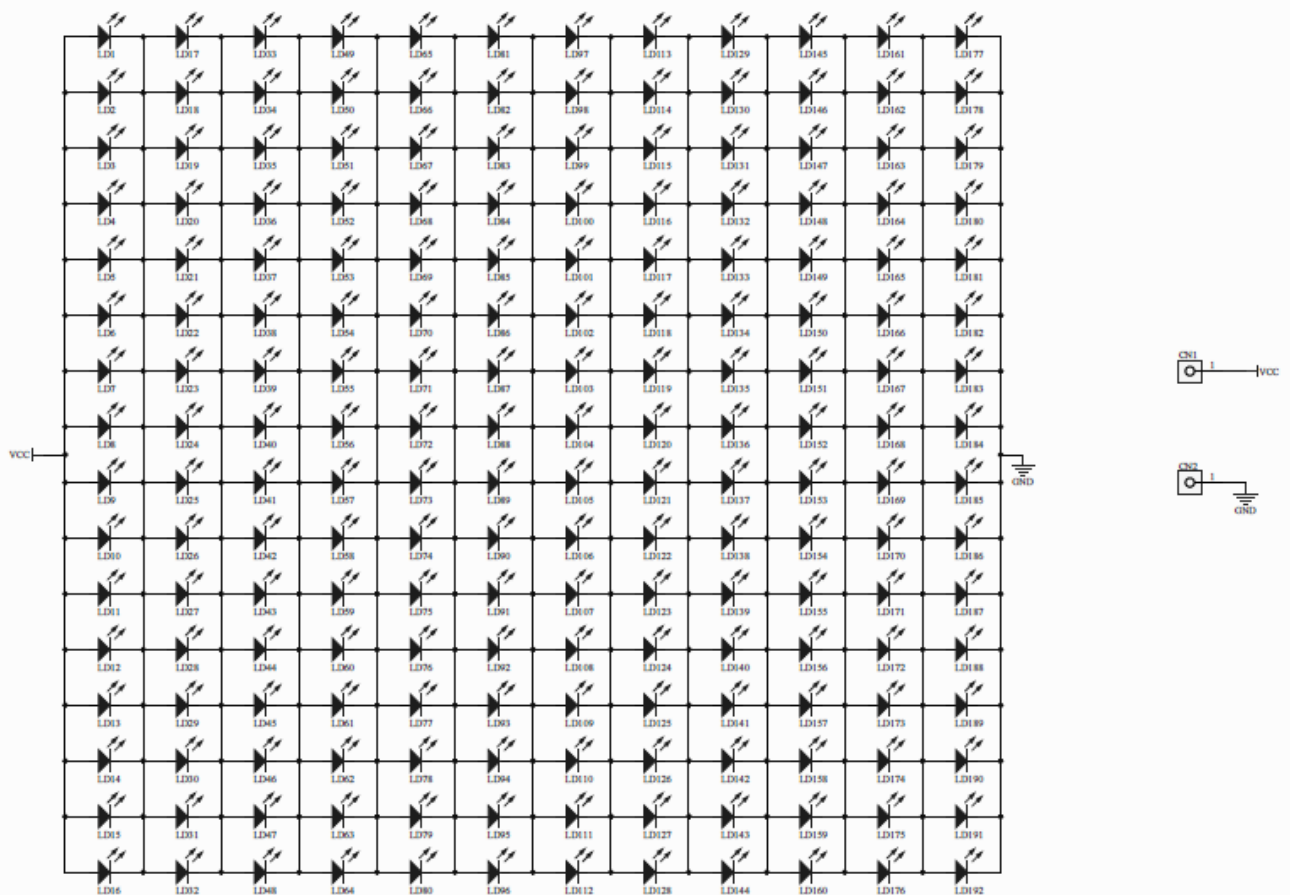
TECHNICAL GRAPHS | 90 CRI



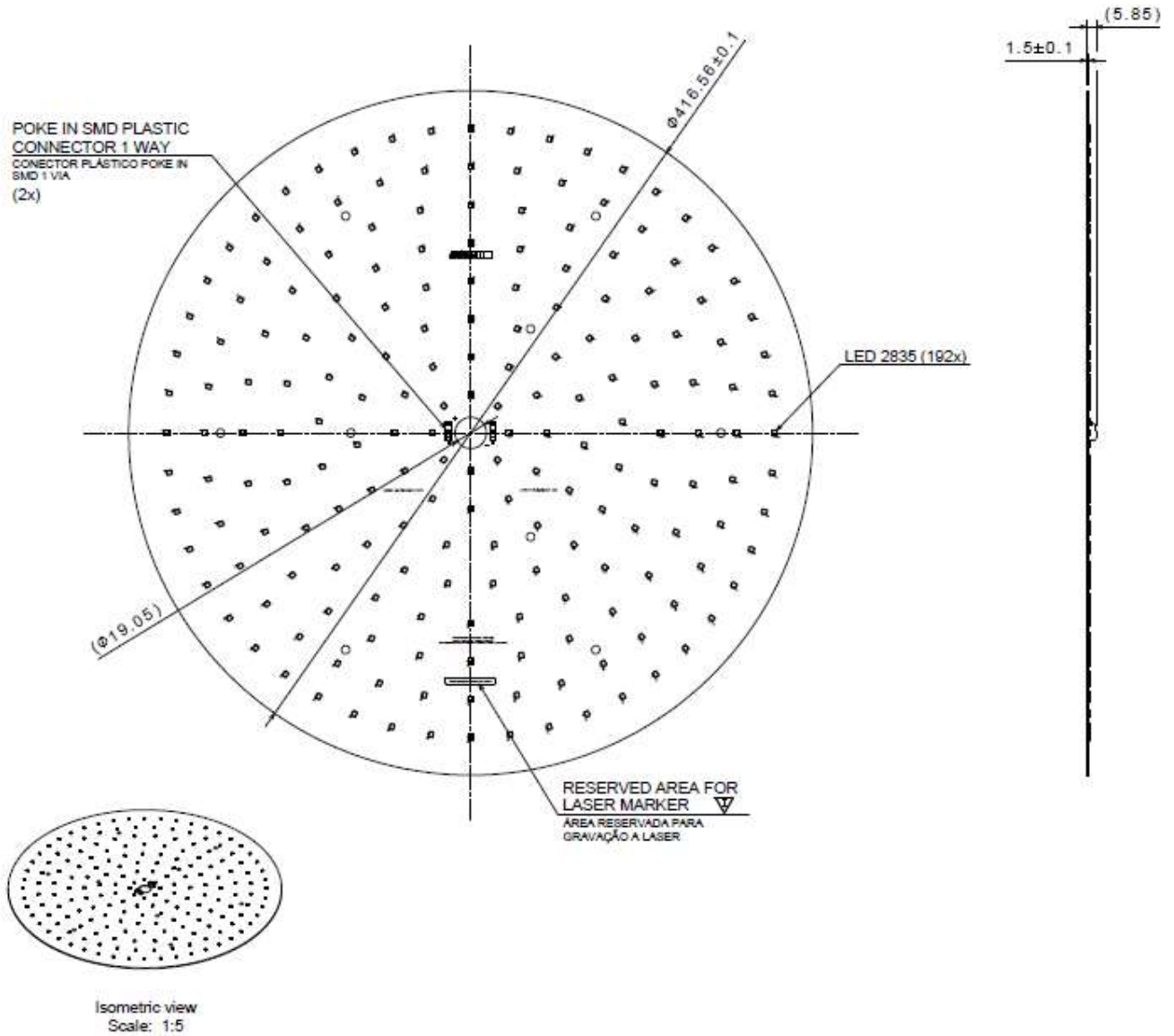
LED BINNING STRUCTURE



SCHEMATICS



MECHANICAL DRAWING



WIRING

Specification item	Value	Unit	Condition
Input wire cross- section	0.13 ... 0.52 26...20	mm ² AWG	Solid wire
Input wire strip length	4.5...5.5	mm	Solid wire
Input wire cross-section	0.13 ... 0.52 26...20	mm ² AWG	Stranded wire
Input wire strip length	4.5...5.5	mm	Stranded wire

PACKAGING

Cardboard box 600x600x250mm
EPE Tray 600x600x20mm with 1 board
11 boards / Cardboard box

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	IP	March 04 th , 2026	Release