

LIGHT ENGINE 10IN 132 LEDS ROUND

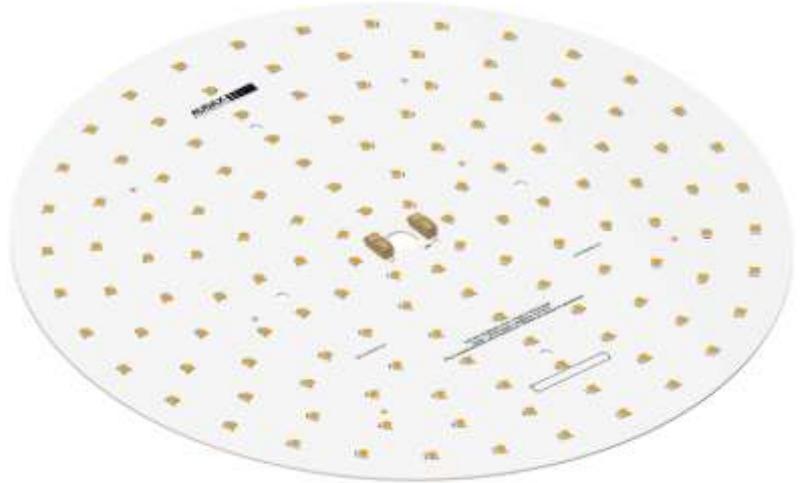
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Issued by	Paiva, I.

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)	605mA	1,850mA
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				
80569300100	80569400100	80569500100	80569600100	80569700100
2,700K	3,000K	3,500K	4,000K	5,000K

LED TYPE

Manufacturer: Cree

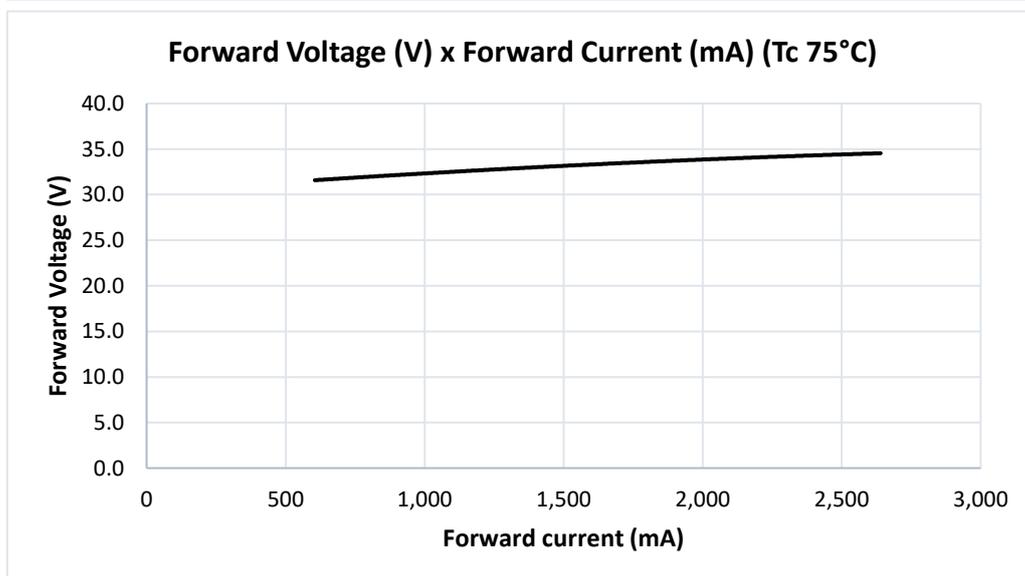
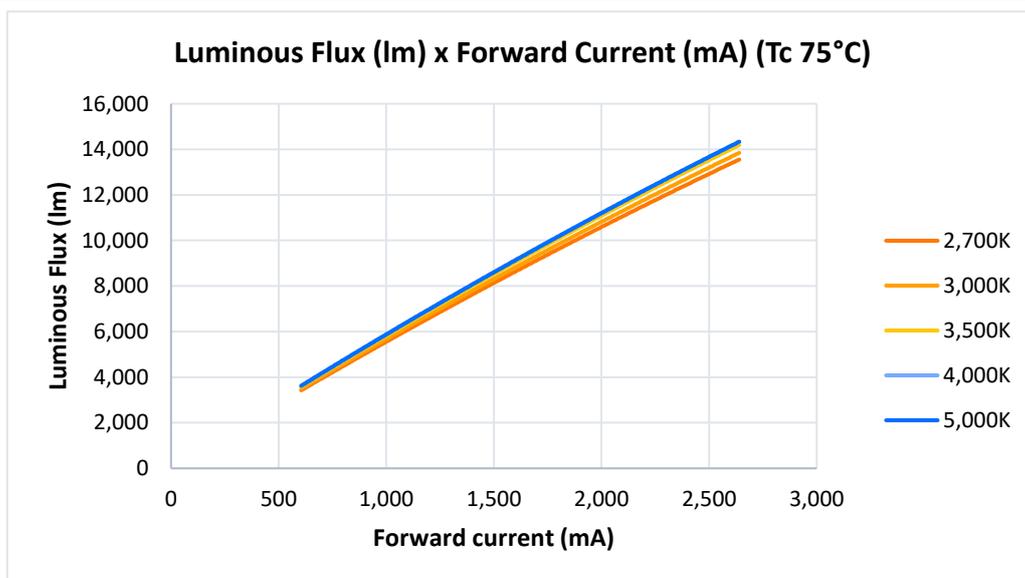
LED Series: J Series® 2835 Pro9™ LEDs

TECHNICAL INFORMATION | 90 CRI

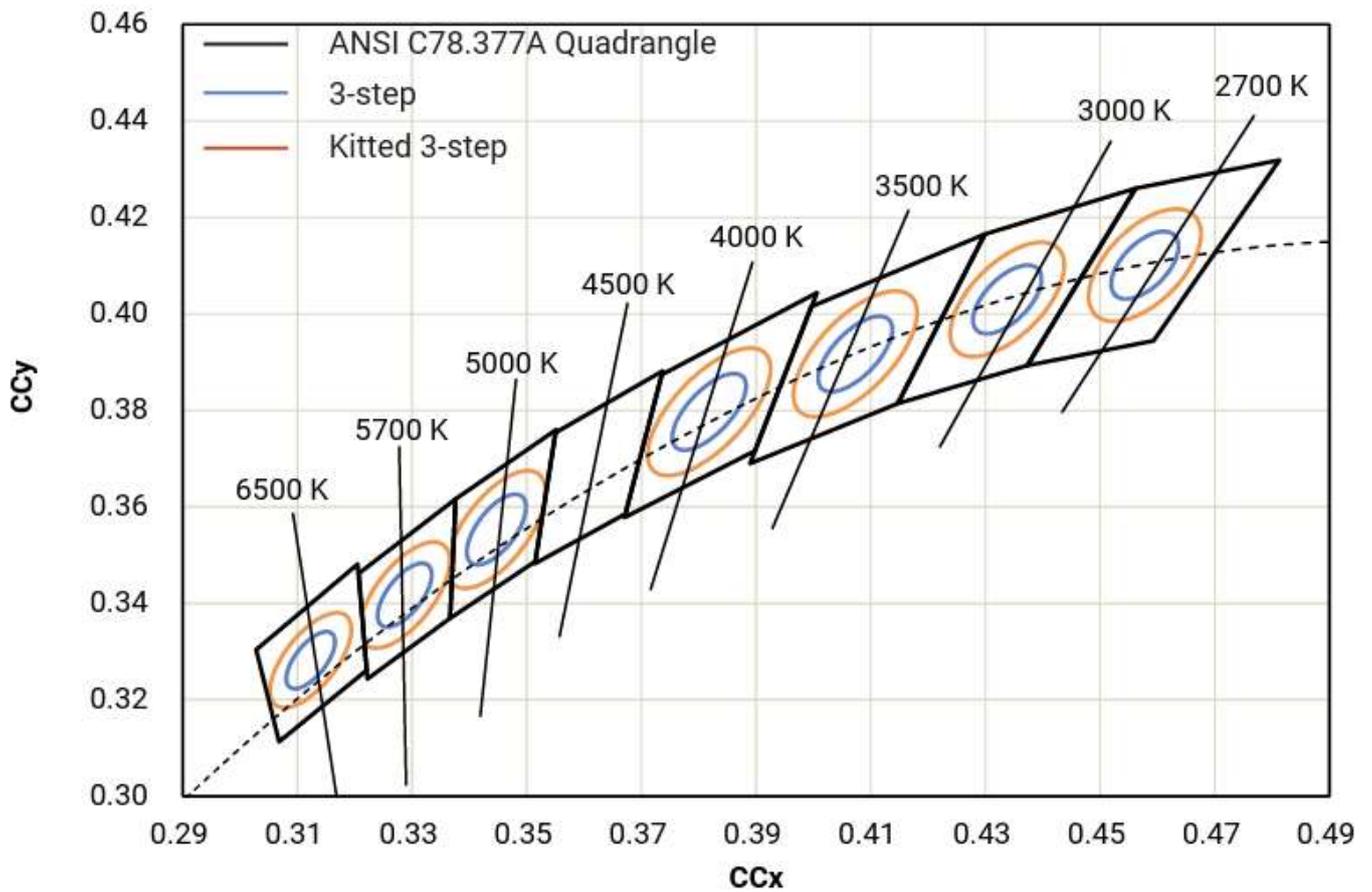
CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	Tc (°C)	Power (W)	Efficacy (lm/W)
2,700K	605	132	3,425	31.6	55	75	19.1	179
2,700K	1,210	132	6,658	32.8	110	75	39.6	168
2,700K	1,850	132	9,866	33.6	168.2	75	62.2	159
3,000K	605	132	3,499	31.6	55	75	19.1	183
3,000K	1,210	132	6,802	32.8	110	75	39.6	172
3,000K	1,850	132	10,078	33.6	168.2	75	62.2	162
3,500K	605	132	3,586	31.6	55	75	19.1	188
3,500K	1,210	132	6,970	32.8	110	75	39.6	176
3,500K	1,850	132	10,326	33.6	168.2	75	62.2	166
4,000K	605	132	3,623	31.6	55	75	19.1	190
4,000K	1,210	132	7,041	32.8	110	75	39.6	178
4,000K	1,850	132	10,445	33.6	168.2	75	62.2	168
5,000K	605	132	3,623	31.6	55	75	19.1	190
5,000K	1,210	132	7,041	32.8	110	75	39.6	178
5,000K	1,850	132	10,433	33.6	168.2	75	62.2	168

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

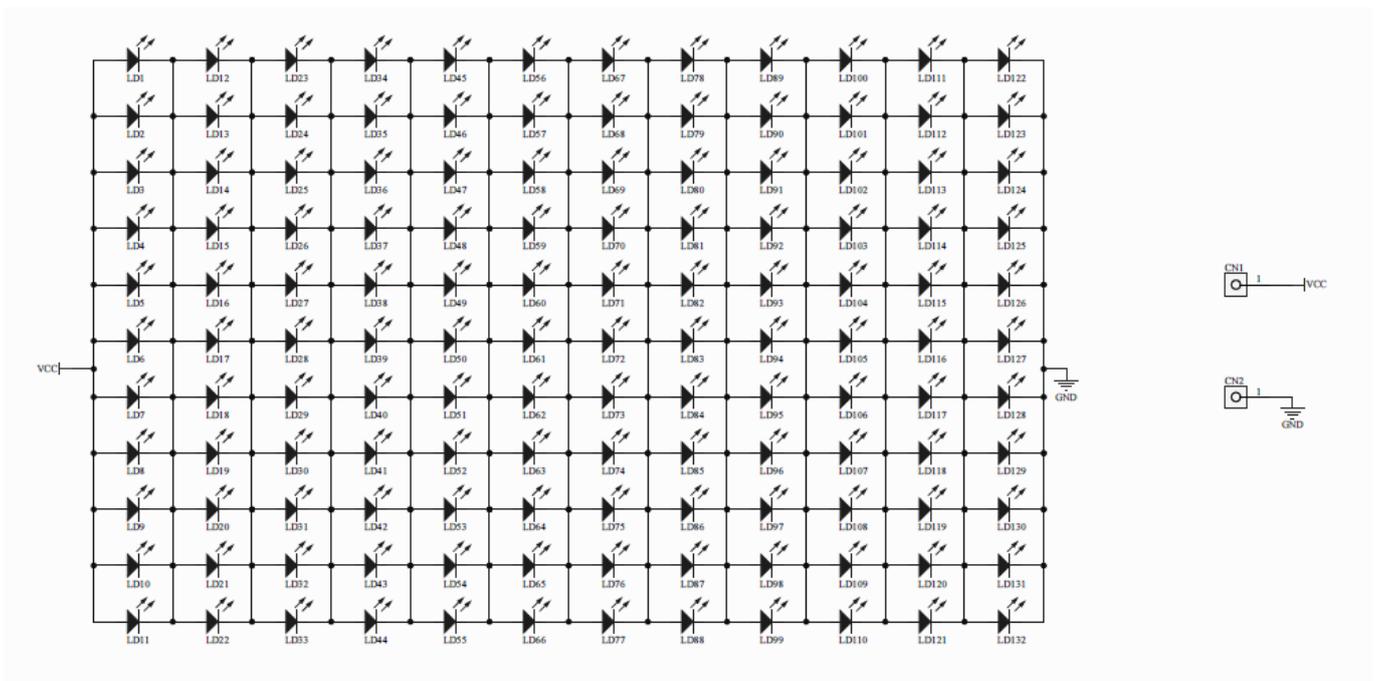
TECHNICAL GRAPHS | 90 CRI



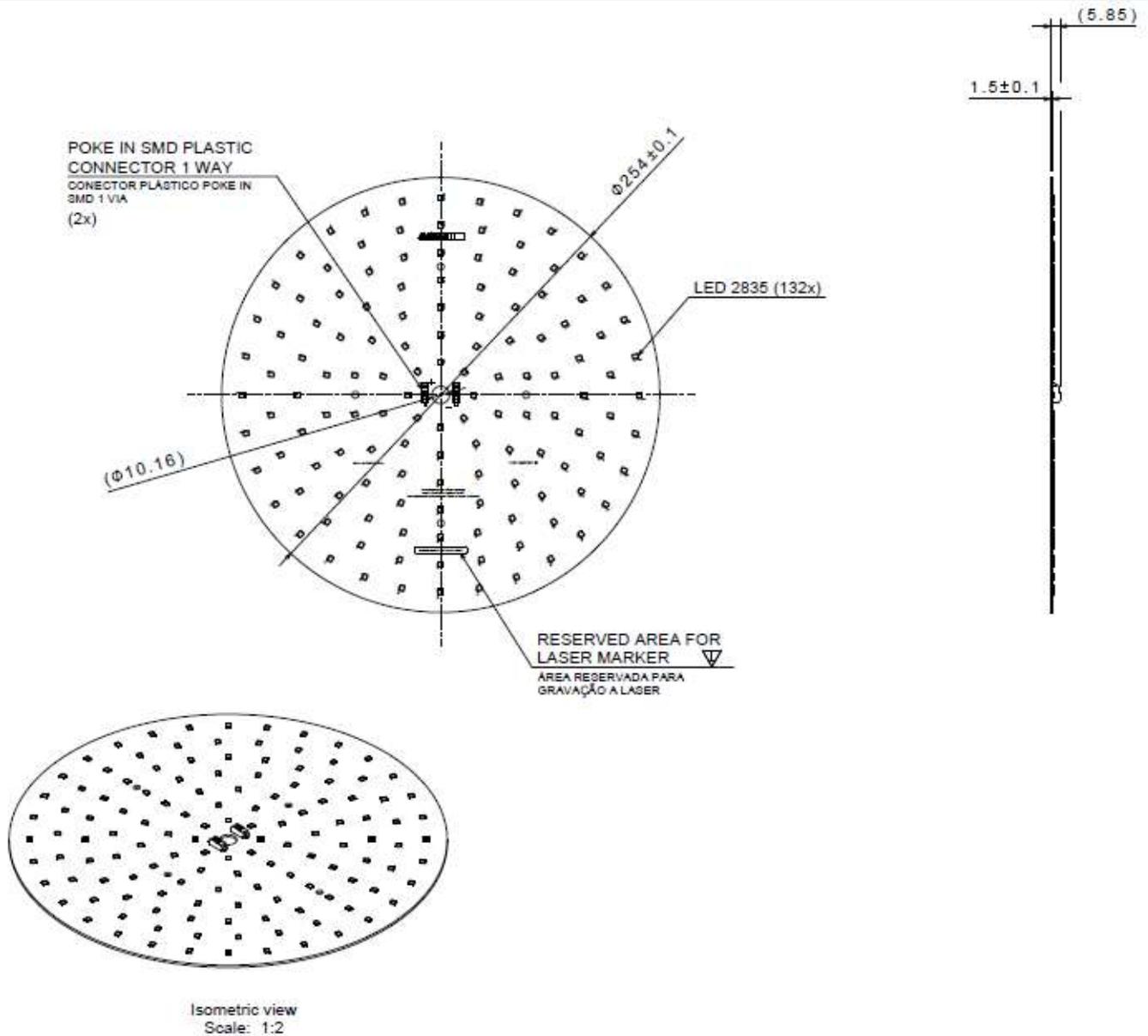
LED BINNING STRUCTURE



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 4 boards
44 boards / Cardboard box

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	IP	November 07 th , 2025	Release
01	IP	March 04 th , 2026	Updated schematic and parameters