

LIGHT ENGINE 80 LEDS 24" X 0.5" X 1.6MM

Issue Date	December, 2023
Issued by	Nascimento, K.

Applications

- Indor Lighting

Characteristics

- Module Efficacy – up to 161 lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCTs 2,700K / 3,000K / 3,500K / 4,000K / 5,000K
- 05 years warranty



DRIVE PARAMETERS

Parameter	Nominal	Max
I _{board} (Current)	1,500 mA	2,400 mA
V _{board} (Voltage)	23.1 V	24.3 V
I _{segment} (Current)	1,500 mA	2,400 mA
V _{segment} (Voltage)	2.9 V	3.1 V

MODULE TEMPERATURES

Parameter	Nominal	Max
T _c (case temperature at T _c point)	60 °C	85 °C

PRODUCT PART NUMBER

90 CRI				
80598300100	80598400100	80586400100	80598500100	80598600100
2,700K	3,000K	3,500K	4,000K	5,000K

LED TYPE

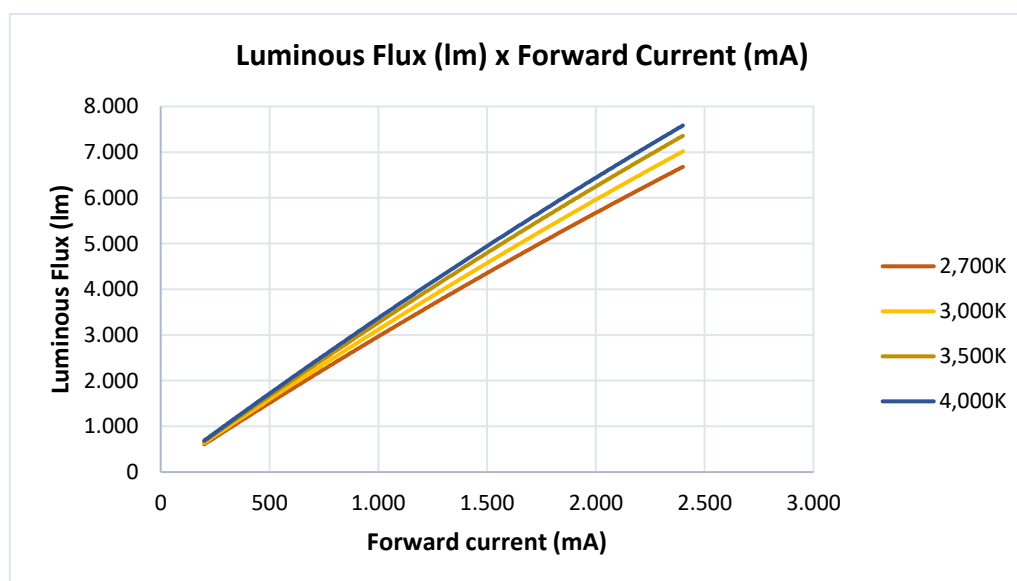
Manufacturer: Cree

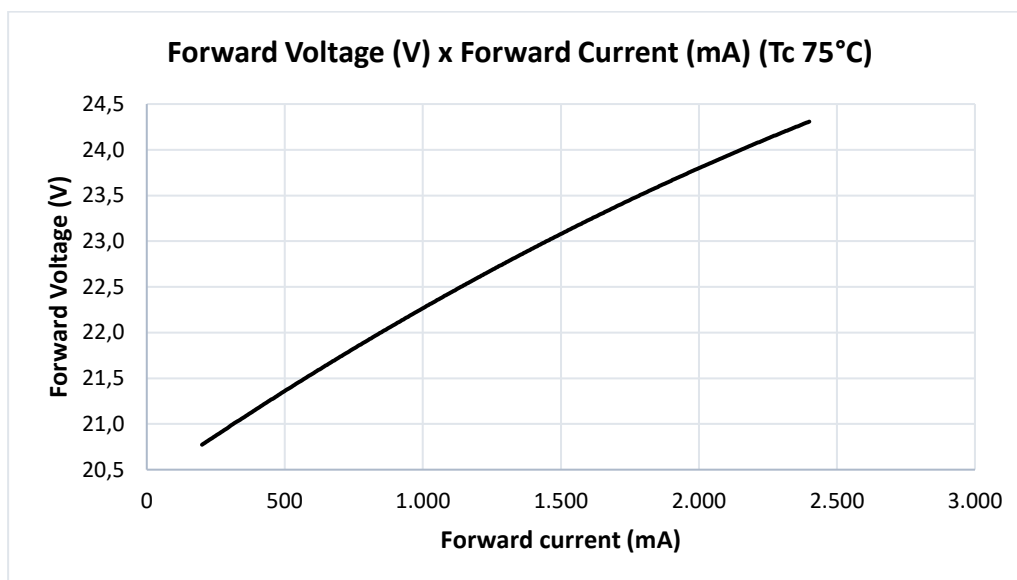
LED Series: J Series® 2835 JE2835B 3-V N Class

TECHNICAL INFORMATION

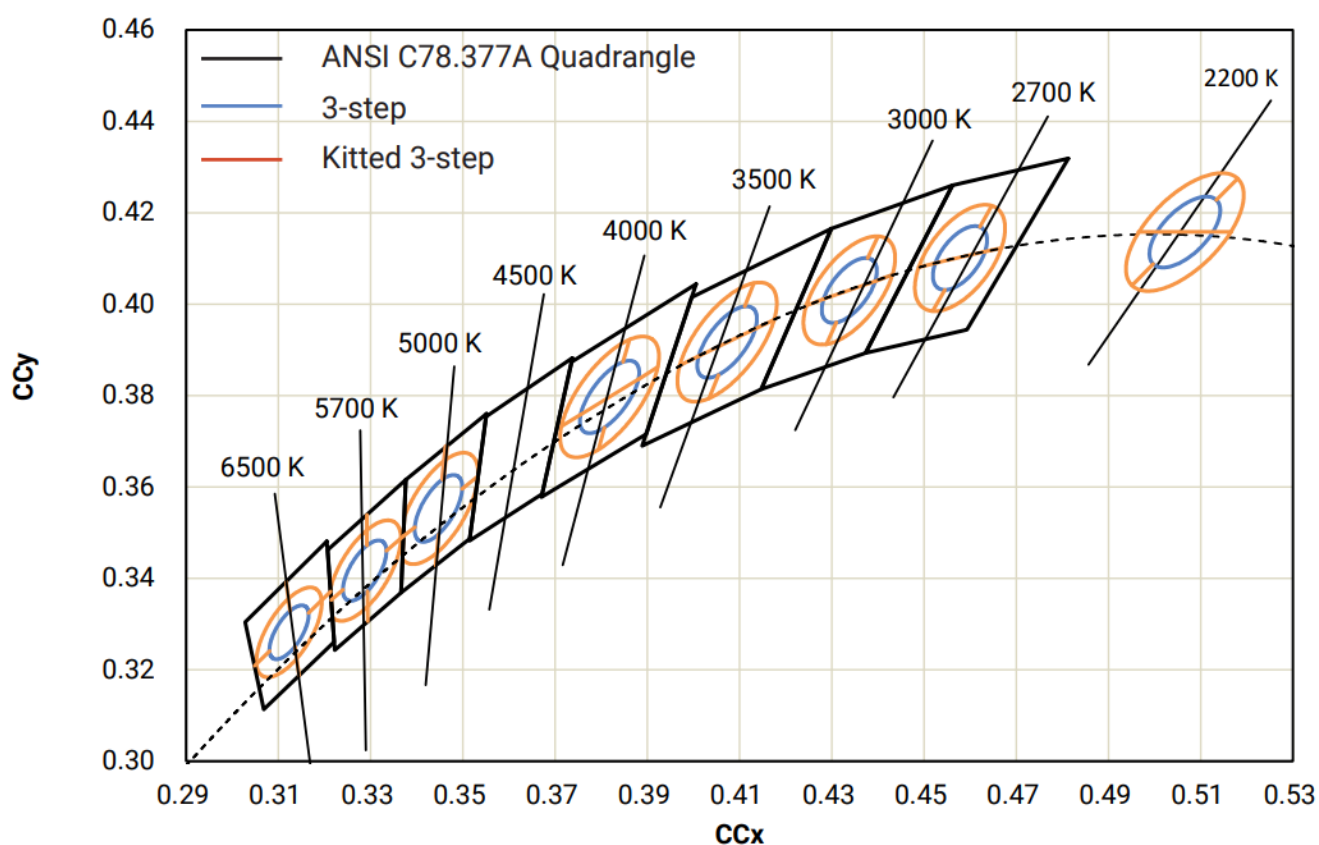
CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	T _c (°C)	Power (W)	Efficacy (lm/W)
2,700K	500	80	1,517	21.4	50	75	10.7	142
2,700K	1,500	80	4,352	23.0	150	75	34.6	126
2,700K	2,400	80	6,680	24.3	240	75	58.3	115
3,000K	500	80	1,594	21.4	50	75	10.7	149
3,000K	1,500	80	4,573	23.0	150	75	34.6	132
3,000K	2,400	80	7,019	24.3	240	75	58.3	120
3,500K	500	80	1,671	21.4	50	75	10.7	156
3,500K	1,500	80	4,795	23.0	150	75	34.6	139
3,500K	2,400	80	7,359	24.3	240	75	58.3	126
4,000K	500	80	1,722	21.4	50	75	10.7	161
4,000K	1,500	80	4,942	23.0	150	75	34.6	143
4,000K	2,400	80	7,586	24.3	240	75	58.3	130
5,000K	500	80	1,722	21.4	50	75	10.7	161
5,000K	1,500	80	4,942	23.0	150	75	34.6	143
5,000K	2,400	80	7,586	24.3	240	75	58.3	130

TECHNICAL GRAPHS

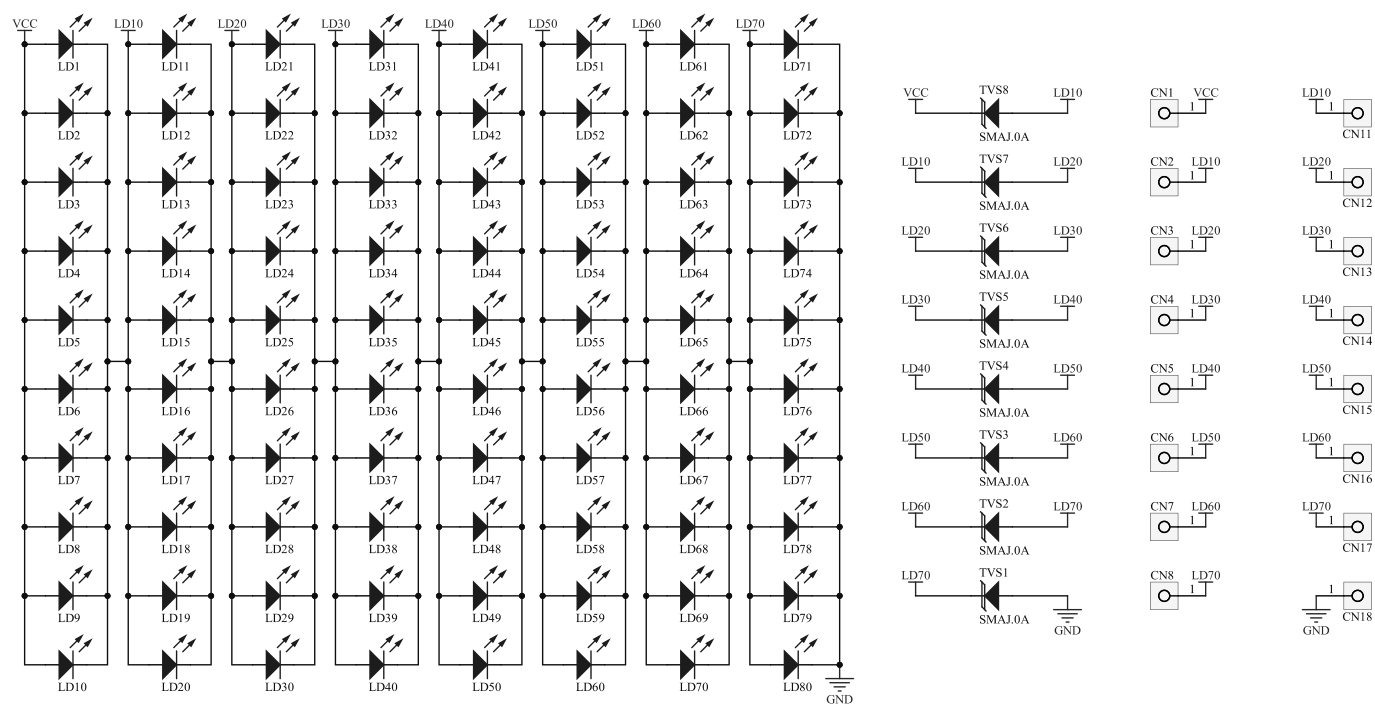


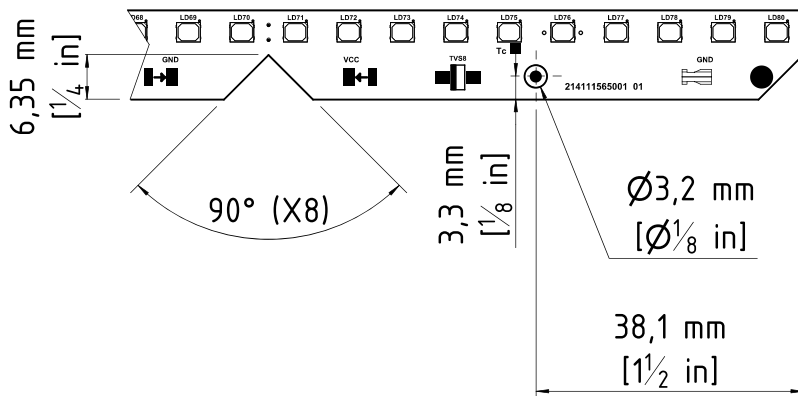
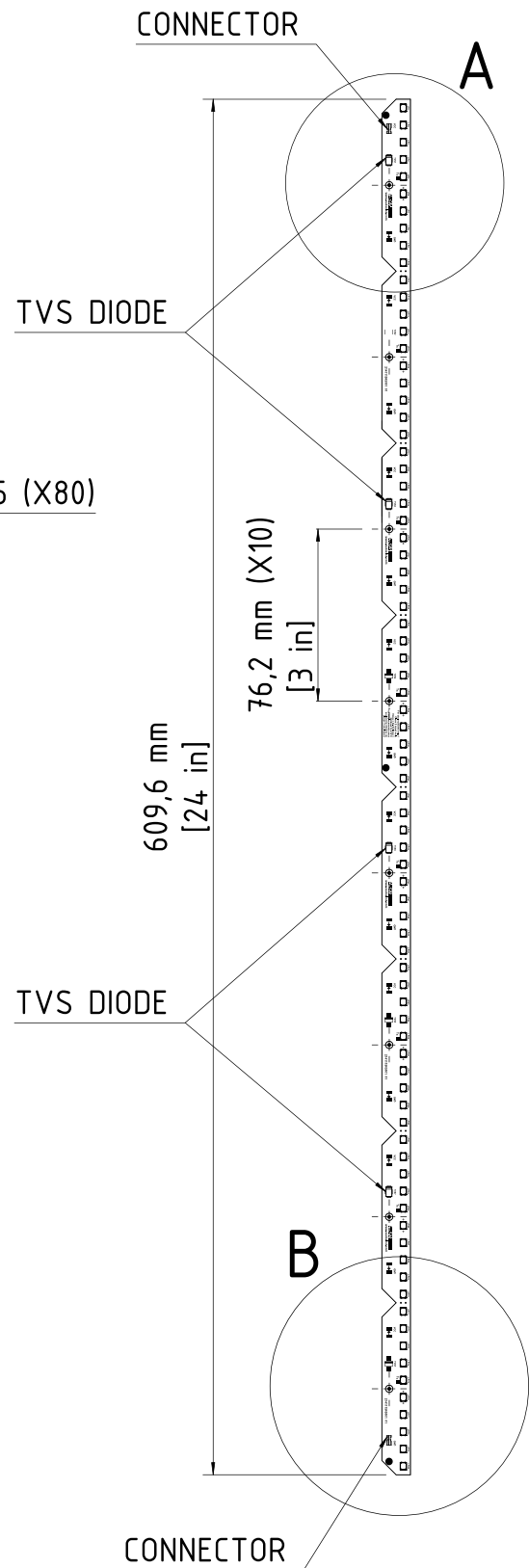
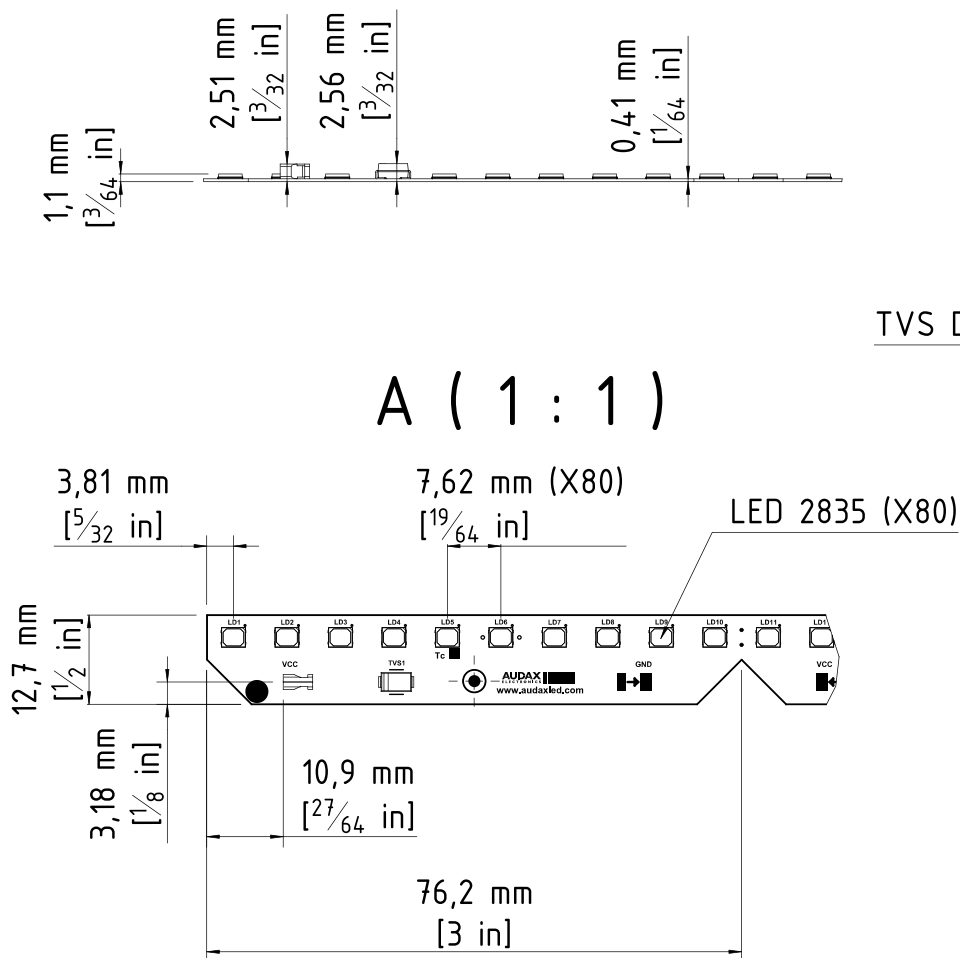


LED BINNING STRUCTURE



SCHEMATICS





WIRING

SPECIFICATION ITEM	VALUE			UNIT	CONDITION
Input wire cross-section	0.25	to	0.75	mm ²	Solid wire
	18	to	24	AWG	
Input wire strip length	7.5	to	8.5	Mm	Solid wire
Input wire cross-section	0.33	to	0.5	mm ²	Stranded wire
	20	to	22	AWG	
Input wire strip length	7.5	to	8.5	Mm	Stranded wire

PACKAGE

Cardboard 600x250x250

EPE Tray 600x250 with 10 boards

RASTREABILITY

80XXXXXXXXX CCC ZZZZZ-Z SSSS BBBB WW/YY

CODE	MEANING
80XXXXXXXXX	Audax PN
CCC	CRI/CCT
ZZZZZ-Z	Audax Order
SSSS	Sequential individual code
BBBB	Bin
MM	Week number
YY	Year

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	KN	December, 13, 2023	Release
01	CA	January 6, 2023	PN added to the table