

128 LEDS 596,9X13MM CC1.3N TW

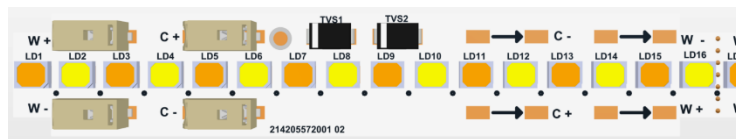
Issue Date	June, 2025
Issued by	Santana, B.

Applications

- Troffer
- Linear Fixtures
- Panels

Characteristics

- Module Efficacy – up to 204lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCTs 2,700K/ 6,500K & 1,800K/4,000K
- 05 years warranty



DRIVE PARAMETERS

Parameter	Nominal	Max
$I_{\text{board/channel}}$ (Current)	440 mA/channel	1,400 mA/channel
$V_{\text{board/channel}}$ (Voltage)	21.6 V/channel	24 V/channel

MODULE TEMPERATURES

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

PRODUCT PART NUMBER

	90 CRI		
Audax PN	80716900100	80536500100	80336600100
Inter-lux PN	610-20869-918-940-74.6MM	610-20870-927-965-74.6MM	610-20816-922-940-74.6MM
	2,700K – 6,500K	1,800K – 4,000K	2,200K – 4,000K

LED TYPE

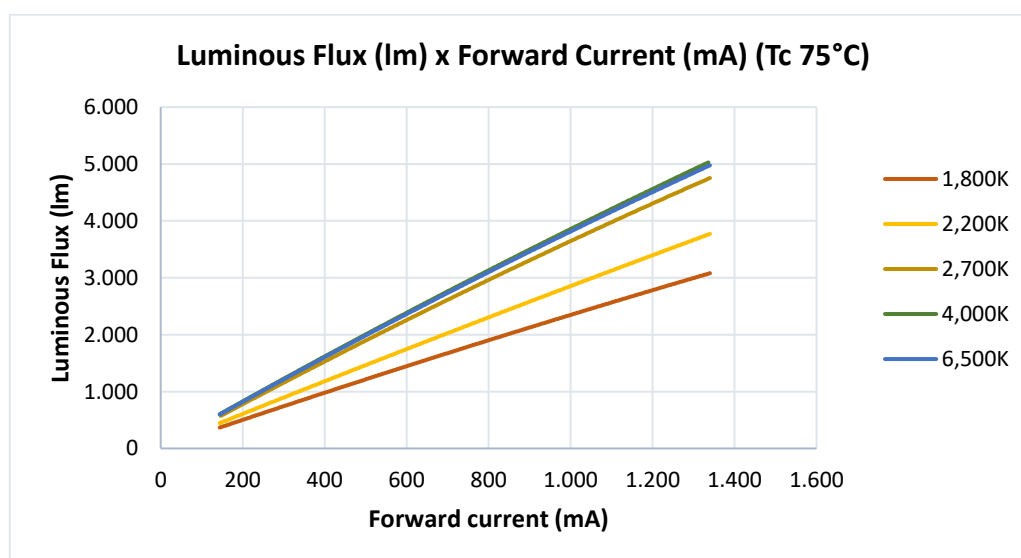
Manufacturer: Cree

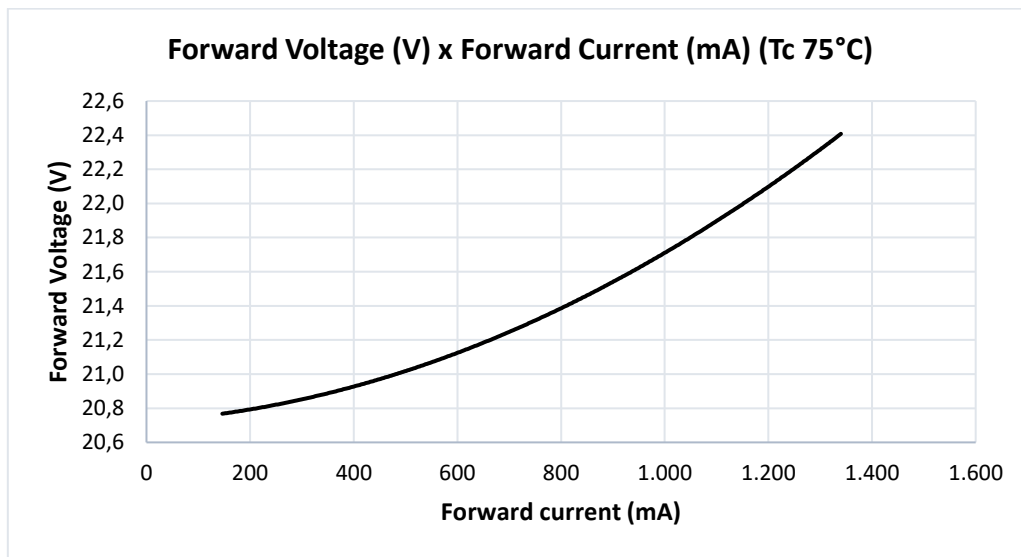
LED Series: J Series® 2835 PR9

TECHNICAL INFORMATION

CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	Tc (°C)	Power (W)	Power/ft (W/ft)	Efficacy (lm/W)
1,800K	144	64	371	20,7	18	75	3,0	1,5	124
1,800K	288	64	710	20,8	36	75	6,0	3,0	119
1,800K	564	64	1.357	21,3	70,5	75	12,0	6,0	113
1,800K	916	64	2.170	21,8	114,5	75	20,0	10,0	108
1,800K	1.340	64	3.078	22,4	167,5	75	30,0	15,0	103
2,200K	144	64	456	20,8	18	75	3,0	1,5	152
2,200K	288	64	836	20,8	36	75	6,0	3,0	140
2,200K	556	64	1.645	21,6	69,5	75	12,0	6,0	137
2,200K	924	64	2.636	21,6	115,5	75	20,0	10,0	132
2,200K	1.340	64	3.774	22,4	167,5	75	30,0	15,0	126
2,700K	146	64	577	20,8	18,3	75	3,0	1,5	189
2,700K	288	64	1.095	20,8	36	75	6,0	3,0	183
2,700K	556	64	2.123	21,6	69,5	75	12,0	6,0	177
2,700K	924	64	3.372	21,6	115,5	75	20,0	10,0	169
2,700K	1.340	64	4.759	22,4	167,5	75	30,0	15,0	159
4,000K	144	64	610	20,8	18	75	3,0	1,5	204
4,000K	288	64	1.158	20,8	36	75	6,0	3,0	193
4,000K	556	64	2.246	21,6	69,5	75	12,0	6,0	187
4,000K	924	64	3.566	21,6	115,5	75	20,0	10,0	179
4,000K	1.336	64	5.033	22,4	167	75	29,9	15,0	168
6,500K	144	64	604	20,8	18	75	3,0	1,5	202
6,500K	288	64	1.146	20,8	36	75	6,0	3,0	191
6,500K	556	64	2.223	21,6	69,5	75	12,0	6,0	185
6,500K	924	64	3.530	21,6	115,5	75	20,0	10,0	177
6,500K	1.340	64	4.981	22,4	167,5	75	30,0	15,0	166

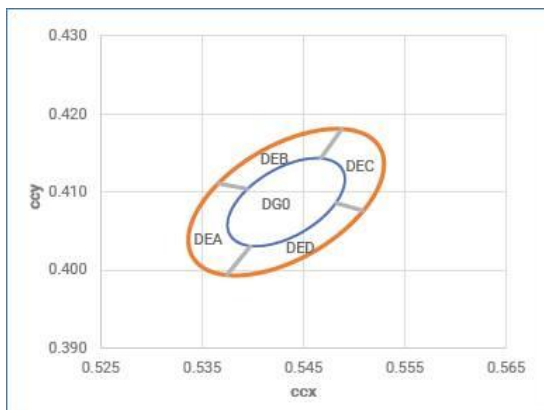
TECHNICAL GRAPHS



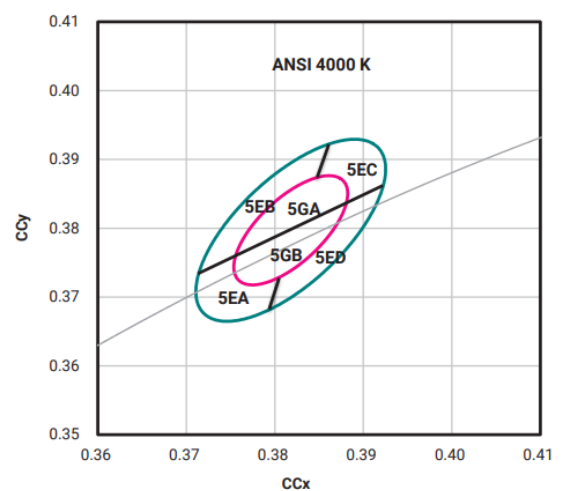


LED BINNING STRUCTURE

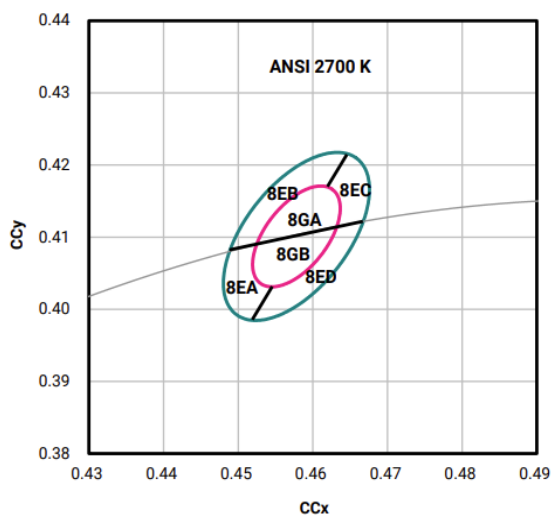
1,800K – 3 STEP BINS



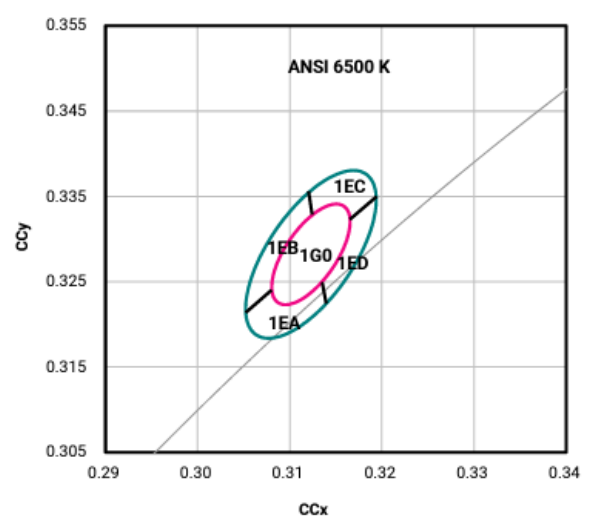
4,000K – 3 STEP BINS



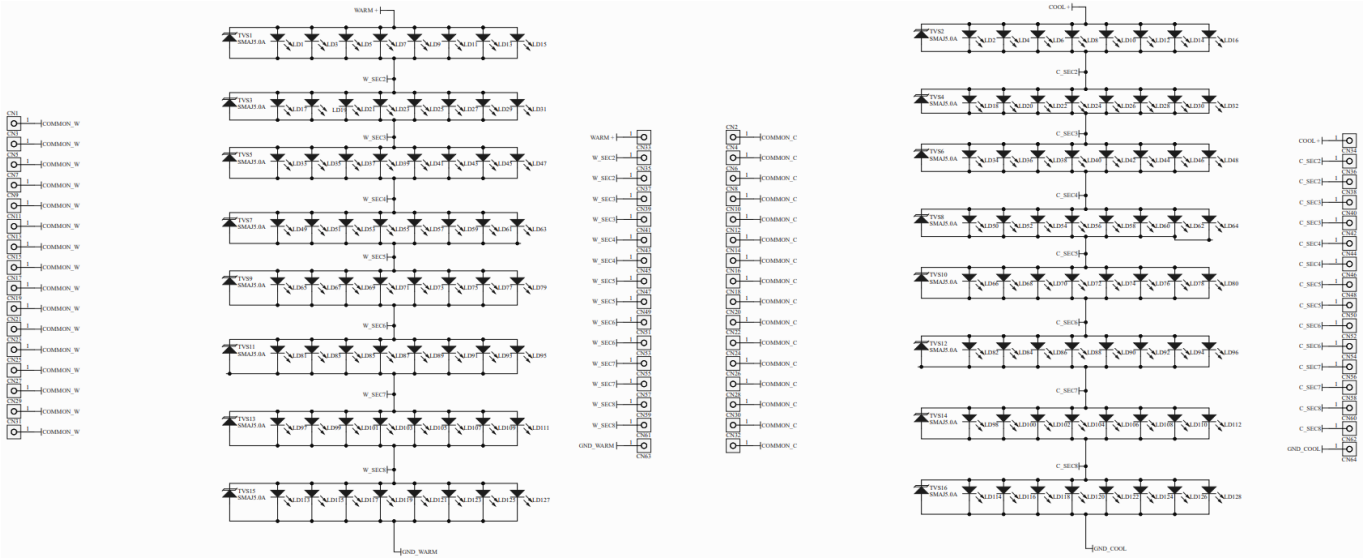
2,700K – 3 STEP BINS



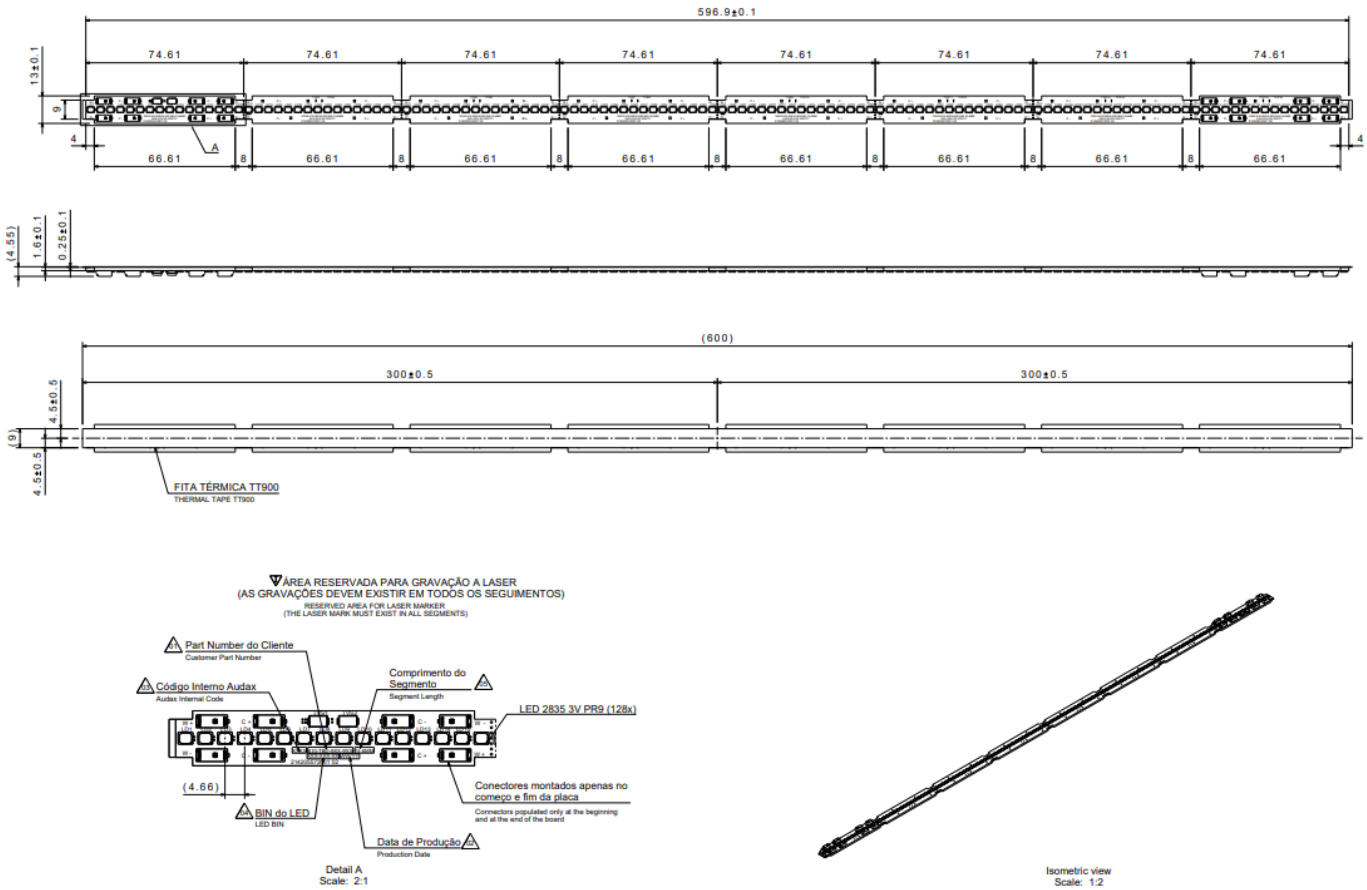
6,500K – 3 STEP BINS



SCHEMATICS



MECHANICAL DRAWING



WIRING

Specification item	Value	Unit	Condition
Input wire cross- section	0.25...0.75	mm ²	Solid wire
	18...24	AWG	
Input wire strip length	7.5...8.5	mm	Solid wire
Input wire cross-section	0.33...0.5	mm ²	Stranded wire
	20...22	AWG	
Input wire strip length	7.5...8.5	mm	Stranded wire

PACKAGE

Cardboard 700X250X250
EPE Tray 700X248 with 28 boards
Box with 308 Boards

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	IGV	September 8 th , 2023	Release
01	BS	June 16 th , 2025	CCT range updated