

LIGHT ENGINE SPARKLINE 22" 42 LEDs (Eco & Flagship)

Issue Date August – 2024

Issued by Malassise, V.

Application

- Troffers
- Pendants
- Linear Light

Characteristics

- Module Efficacy – up to 214lm/W
- L70 > 60.000 hours
- CRI – 80 & 90
- 03 SDCM
- CCTs 2,700K/3,000K/3,500K/4,000K/5,000K
- 05 years warranty

**DRIVER PARAMETERS**

Parameter	Nominal	Max
I _{board} (Current)	225mA	600mA
V _{board} (Voltage)	38.1 V	41.0V

MODULE TEMPERATURES

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

PRODUCT PART NUMBERFlagship 

Part #	2700K	3000K	3500K	4000K	5000K
80 CRI	80632100100	80632200100	80632300100	80632400100	80632500100
90 CRI	80632600100	80632700100	80632800100	80632900100	80633000100

Eco 

Part #	2700K	3000K	3500K	4000K	5000K
80 CRI	80648400100	80648500100	80648600100	80648700100	80648800100
90 CRI	80648900100	80649000100	80649100100	80649200100	80649300100

LED TYPE

Manufacturer: Cree

LED Series: J Series® 2835

Flagship

CCT	Driver Input (mA)	LED Current (mA)	Flux (lm)	Vf (V)	Power (W)	Efficacy (lm/W)
4000K	90	30	697	36.1	3.3	214
4000K	150	50	1,158	36.7	5.5	210
4000K	225	75	1,722	37.2	84	206
4000K	300	100	2,275	37.7	11.3	201
4000K	450	150	3,348	38.6	17.4	193
4000K	600	200	4,380	39.5	23.7	185

Flux Correlations	2700K	3000K	3500K	4000K	5000K
Versus 4000K 80 CRI	90.7%	94.1%	97.2%		
90 CRI*	85%	85.4%	85.6%	86%	86%

*Versus 80 CRI on correlated CCT

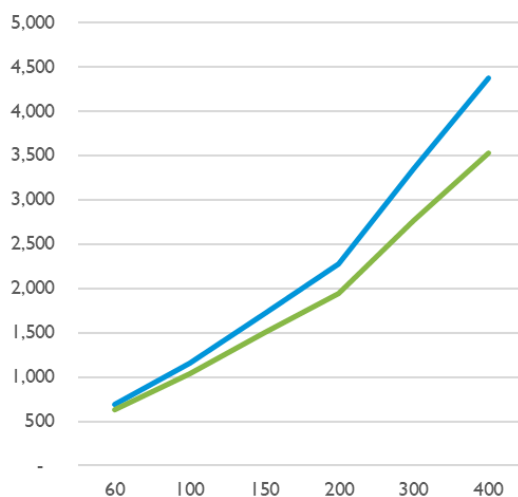
Eco

CCT	Driver Input (mA)	LED Current (mA)	Flux (lm)	Vf (V)	Power (W)	Efficacy (lm/W)
4000K	90	30	637	36.8	3.3	192
4000K	150	50	1,040	37.4	5.6	185
4000K	225	75	1,508	38.1	8.6	176
4000K	300	100	1,948	38.8	11.6	167
4000K	450	150	2,769	39.9	18.0	154
4000K	600	200	3,531	41.0	24.6	143

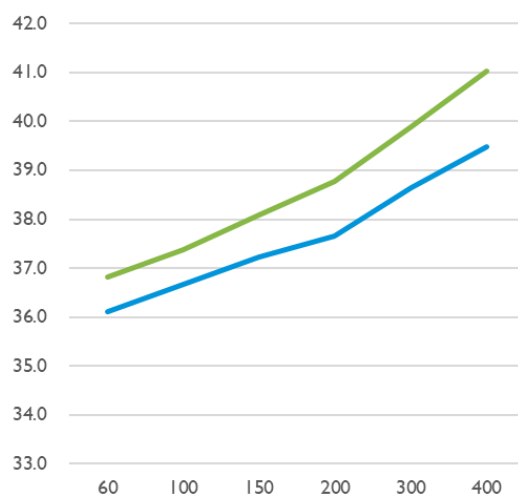
Flux Correlations	2700K	3000K	3500K	4000K	5000K
Versus 4000K 80 CRI	92.7%	94.5%	95.1%		
90 CRI*	82.3%	83.9%	86.5%	86.3%	85.40%

*Versus 80 CRI on correlated CCT

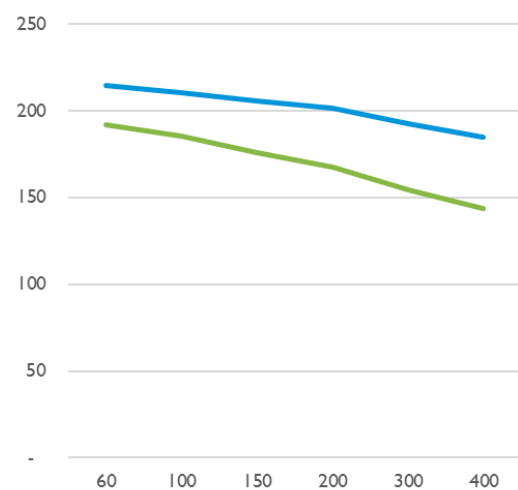
Luminous Flux (lm) x Forward Current (mA)



Forward Voltage (V) x Forward Current (mA)

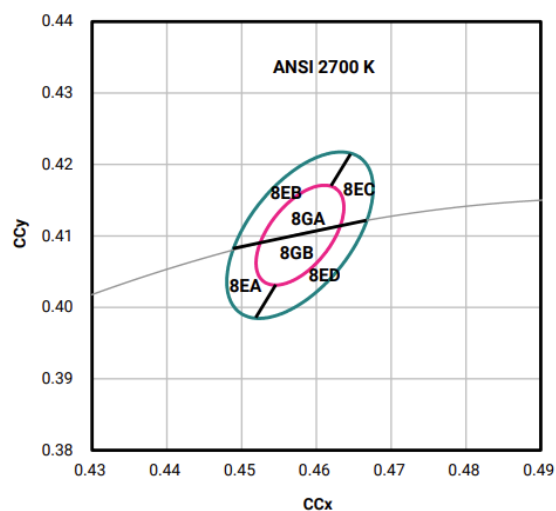


Efficacy (lm/W) x Forward Current (mA)

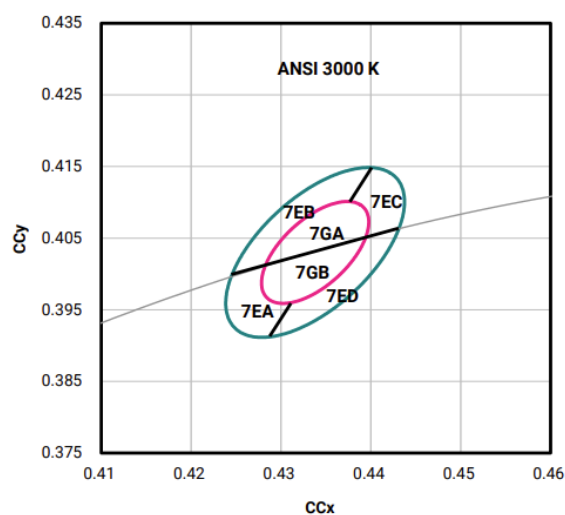


LED BINNING STRUCTURE

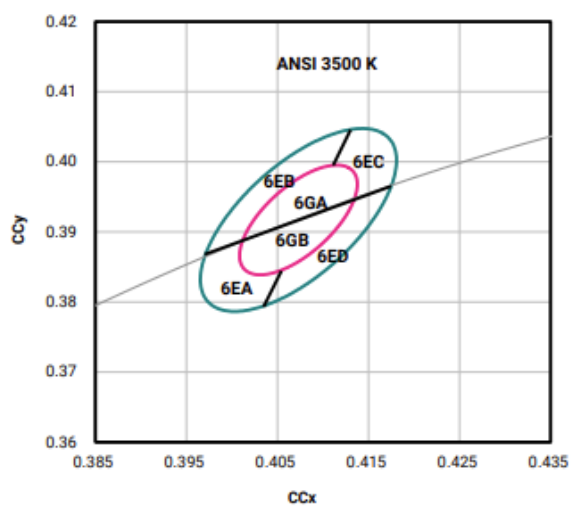
2,700K – 3 STEP BINS



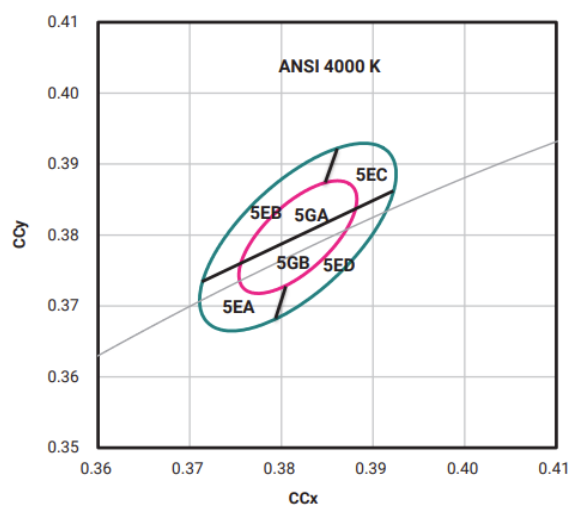
3,000K – 3 STEP BINS



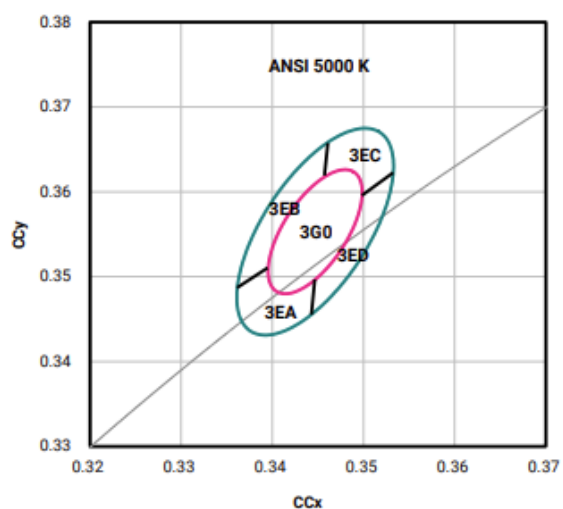
3,500K – 3 STEP BINS



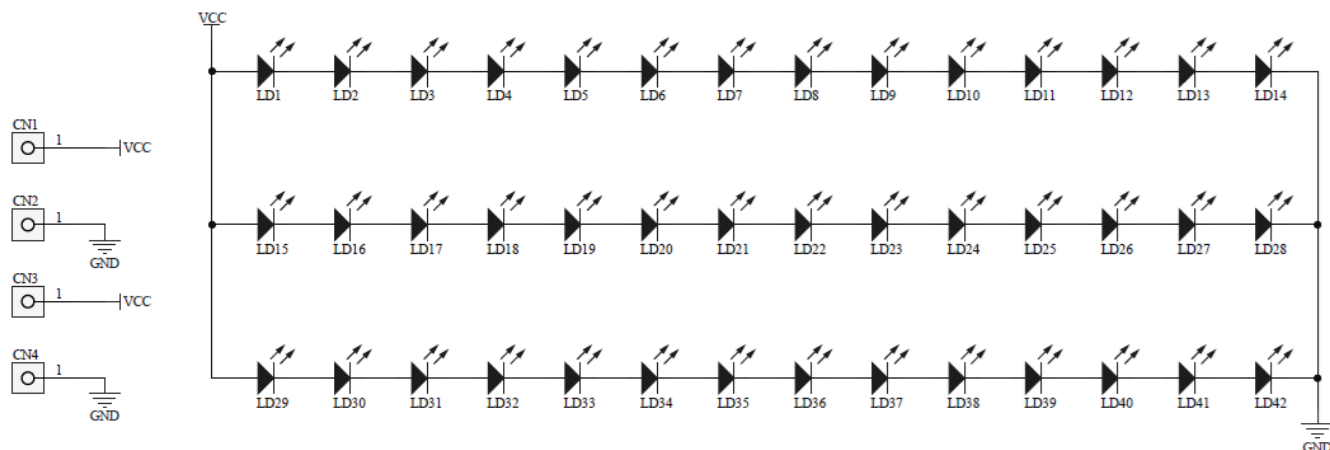
4,000K – 3 STEP BINS



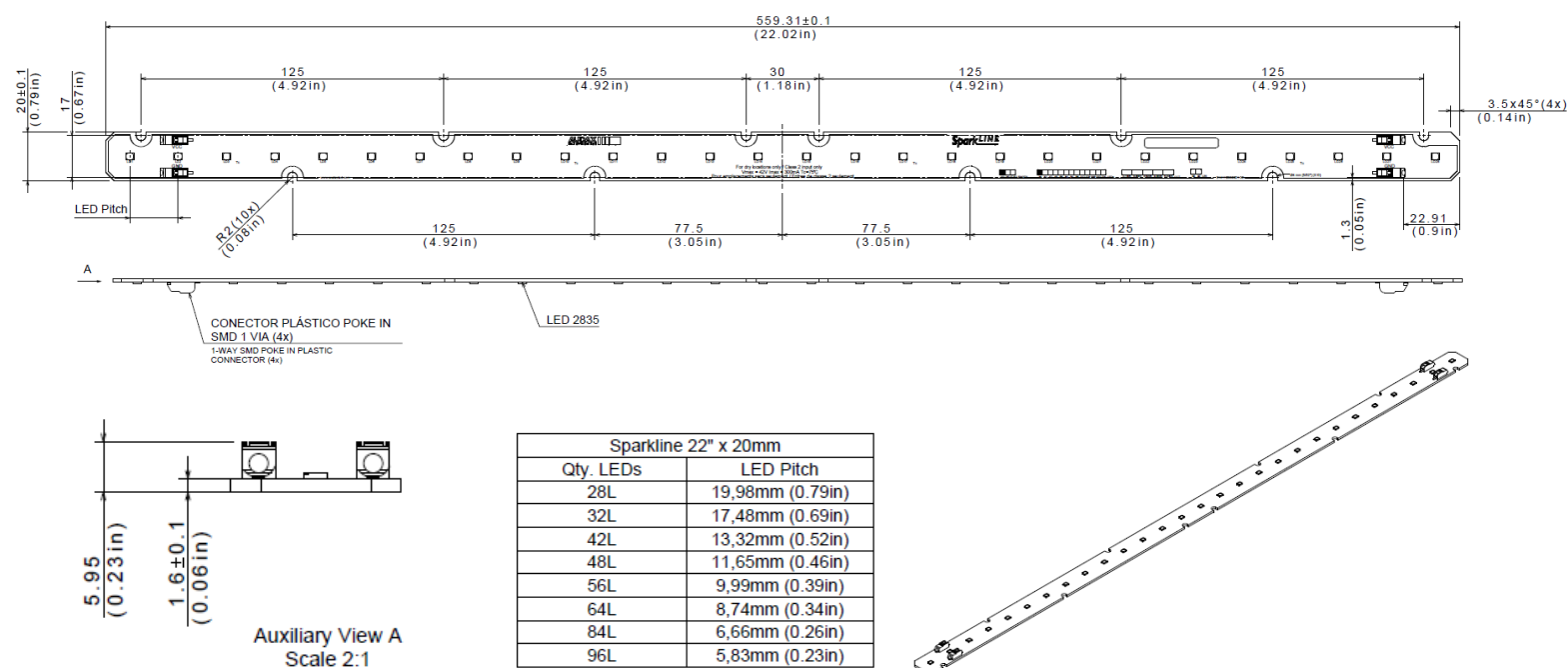
5,000K – 3 STEP BINS



SCHEMATICS



MECHANICAL DRAWING



PACKAGING & MOQs

Box Size: 600mm x 250mm x 250mm

Box Weight: 10kg

Trays: 20pcs

Boards per Tray: 8

Boads per Box: 160

MPQ: 160pcs

MOQ: 160pcs

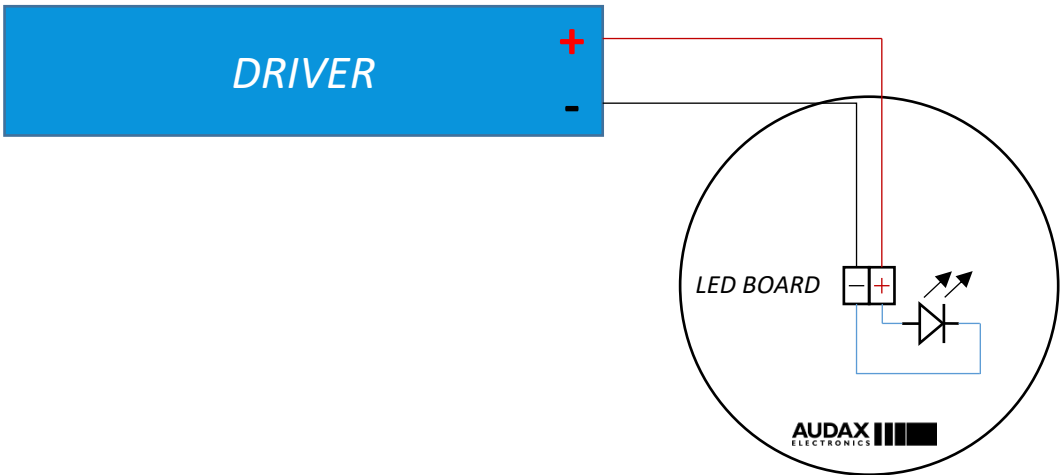


WIRING

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

Unit: mm

DRIVER FOR I LIGHT ENGINES:



TRACEABILITY

80XXXXXXXXX CCC ZZZZ-Z SSSS BBBB WW/YY

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

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	VM	August, 28 th 2024	Release