

LIGHT ENGINE 18 LEDS OSLOM SQ 24X0.75"

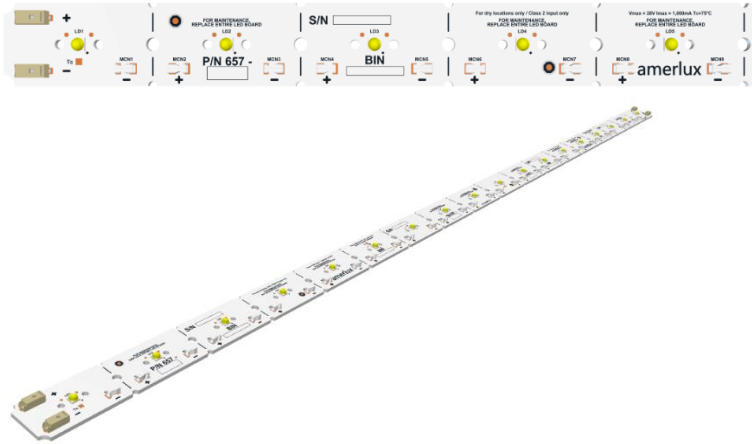
Issue Date	April, 2025
Issued by	Nascimento, K.

Applications

- Indor Lighting

Characteristics

- Module Efficacy – up to 133 lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCTs 2,700K/3,000K/3,500K/4,000K
- 05 years warranty



DRIVE PARAMETERS

Parameter	Nominal	Max
I _{board} (Current)	700 mA	1,800 mA
V _{board} (Voltage)	50.4 V	55.8 V

MODULE TEMPERATURES

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

PRODUCT PART NUMBER

90 CRI			
80715100100	80702900100	80715200100	80715300100
657-20156	657-20157	657-20158	657-20159
2,700K	3,000K	3,500K	4,000K

LED TYPE

Manufacturer: Osram

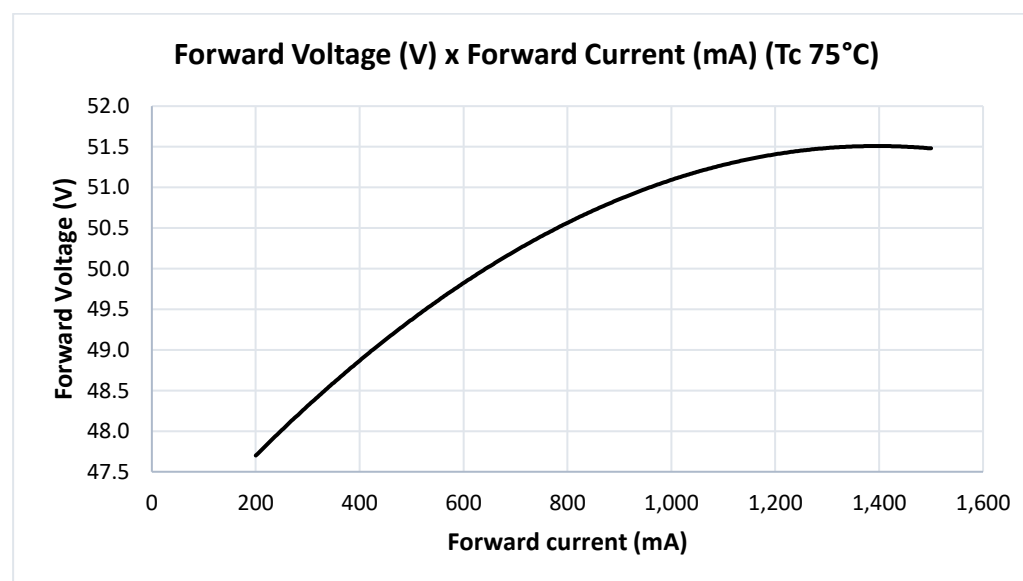
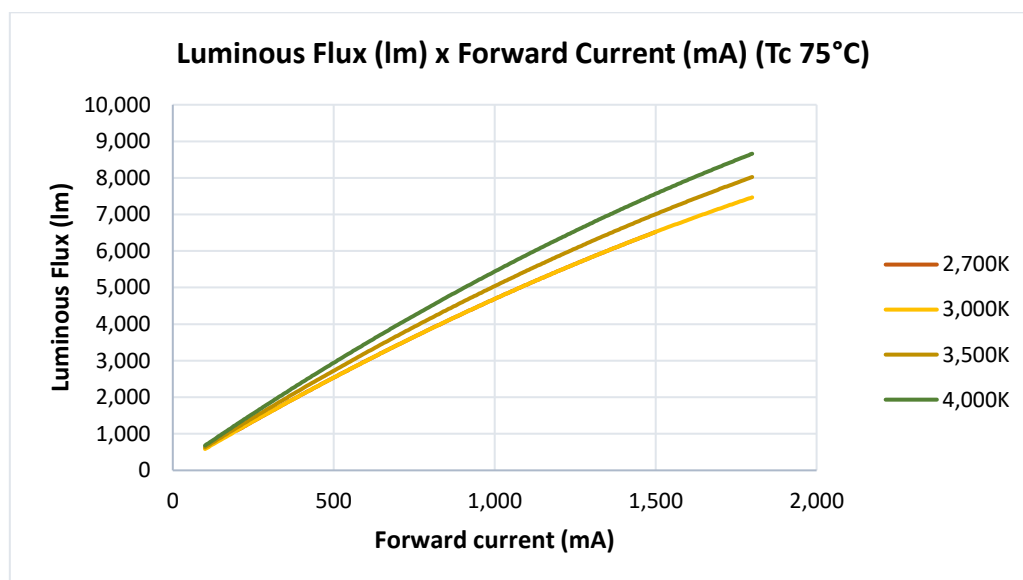
LED Series: Oslon Square GW CSSRMU.CM

TECHNICAL INFORMATION

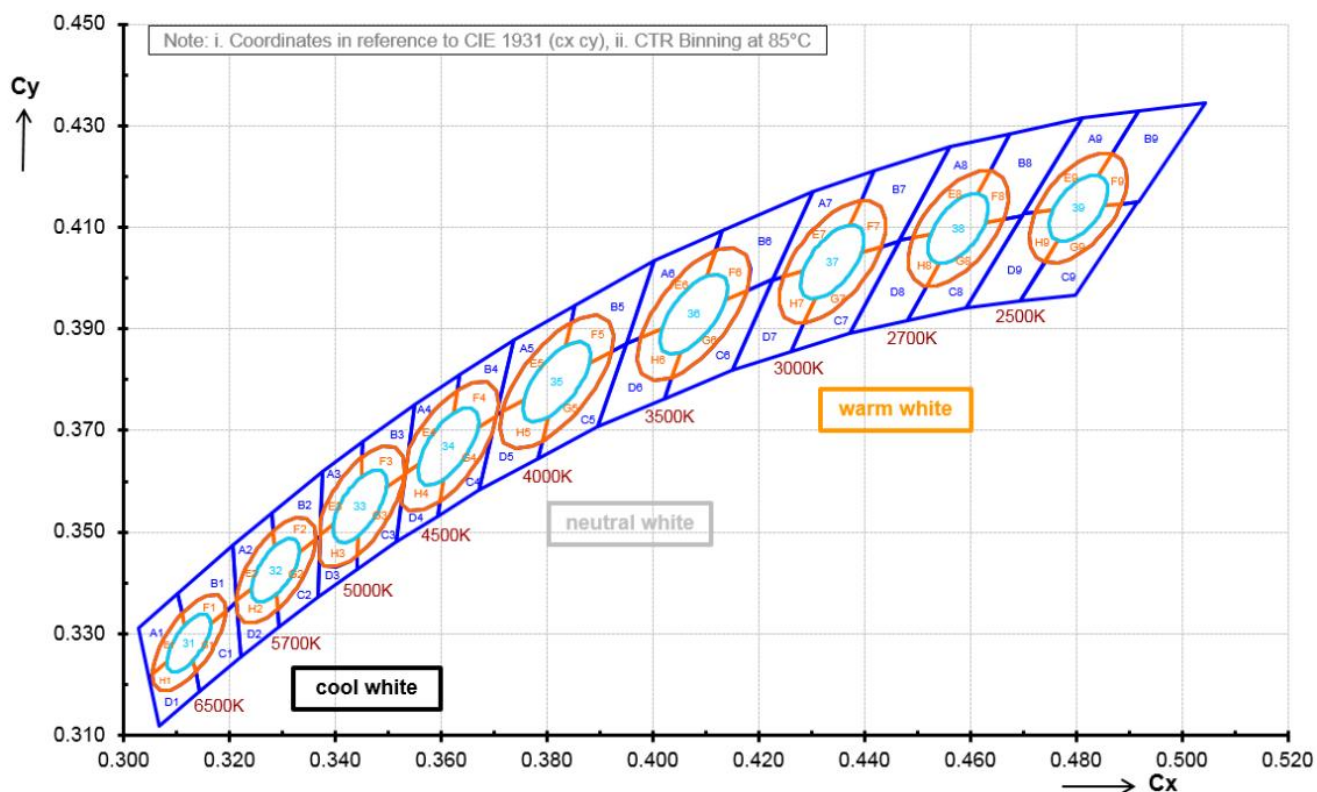
CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	T _c (°C)	Power (W)	Efficacy (lm/W)
2,700K	200	18	1,092	47.7	200	75	9.5	114
2,700K	700	18	3,436	50.2	700	75	35.2	98
2,700K	1,500	18	6,521	51.5	1500	75	77.2	84
3,000K	200	18	1,092	47.7	200	75	9.5	114
3,000K	700	18	3,436	50.2	700	75	35.2	98
3,000K	1,500	18	6,521	51.5	1500	75	77.2	84
3,500K	200	18	1,173	47.7	200	75	9.5	123
3,500K	700	18	3,693	50.2	700	75	35.2	105
3,500K	1,500	18	7,008	51.5	1500	75	77.2	91
4,000K	200	18	1,266	47.7	200	75	9.5	133
4,000K	700	18	3,986	50.2	700	75	35.2	113
4,000K	1,500	18	7,564	51.5	1500	75	77.2	98

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

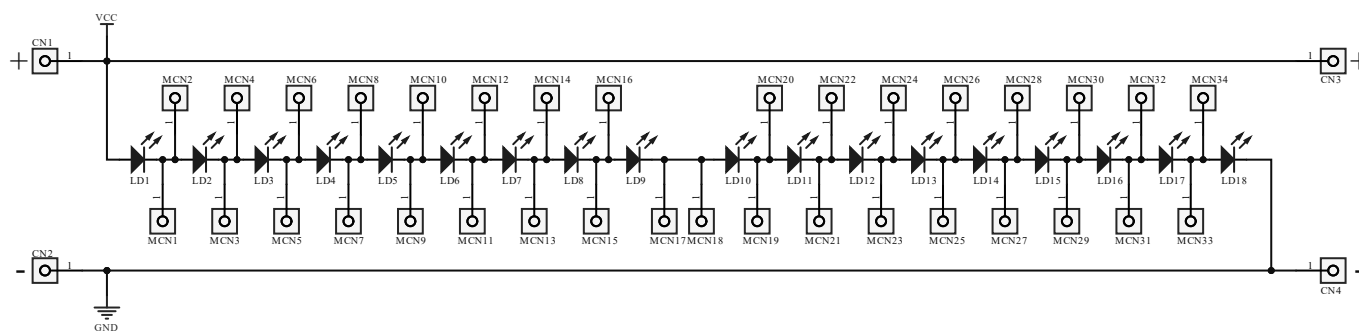
TECHNICAL GRAPHS



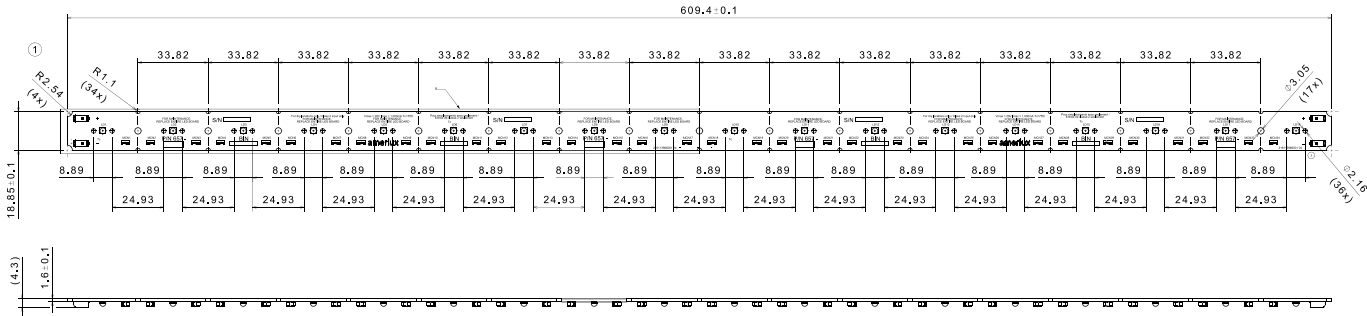
LED BINNING STRUCTURE



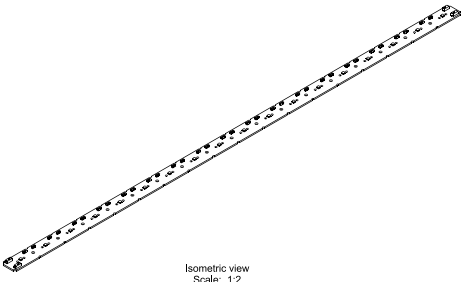
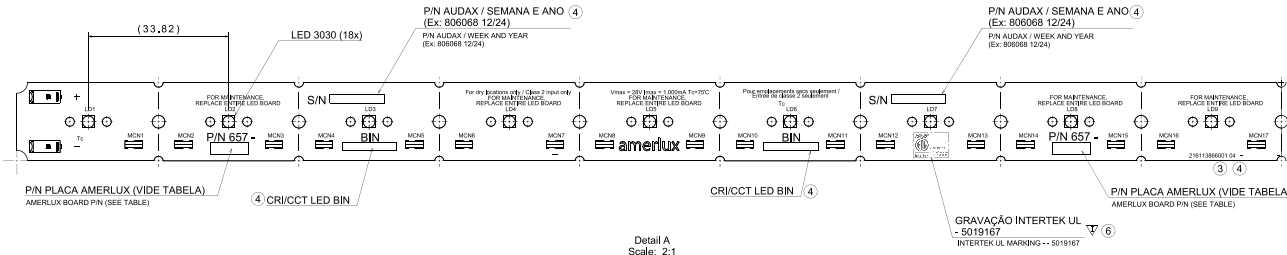
SCHEMATICS



MECHANICAL DRAWING



INFORMAÇÕES DE GRAVAÇÃO A LASER
LASER MARKING INFORMATION



AUDAX P/N	BOARD P/N	COLOR TEMP (K)	CRI	LED P/N	LED MANUFACTURER	LED MANUFACTURER'S P/N
80715100100	657-20156	2700	90	656-0840	OSRAM	Q65113A6810
80702900100	657-20157	3000	90	656-0841	OSRAM	Q65113A6807
80715200100	657-20158	3500	90	656-0849	OSRAM	Q65113A6808
80715300100	657-20159	4000	90	656-0842	OSRAM	Q65113A6809

Notes:

- Texts and logos applied on the plate are in serigraphy in the color pret
- Tolerances not indicated see tolerances general;
- Dimensions not specified follow according to mathematical model;

Notes:

- Description and logo applied with black silkscreen;
- General tolerance according to description on technical drawing head
- Other dimensions see on 3D model

WIRING

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

REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	KN	November 14 th , 2024	Release
01	KN	January 6 th , 2025	- Length updated - LED quantity updated - Connectors updated - Photometric and electric estimated updated - Audax PN created for 2,700K/ 3,000K and 4,000K
02	KN	January 8 th , 2025	Image updated
03	KN	January 29 th , 2025	- Max. voltage updated - Silkscreen updated
04	KN	April 16 th , 2025	Added connectors for all segments