

LIGHT ENGINE DARCY 4 LEDs 92mm X 24mm

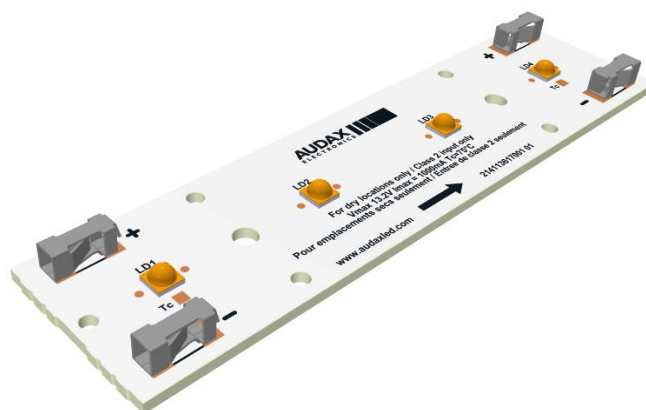
Issue Date	January, 2025
Issued by	Nascimento, K.

Applications

- Indoor Lighting

Characteristics

- Module Efficacy – up to 152 lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCTs 3,000K/3,500K/4,000K
- 05 years warranty



DRIVE PARAMETERS

Parameter	Nominal	Max
I _{board} (Current)	700 mA	1,500 mA
V _{board} (Voltage)	10.9 V	14 V

MODULE TEMPERATURES

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

PRODUCT PART NUMBER

90 CRI		
80708700100	80708800100	80708900100
3,000K	3,500K	4,000K

LED TYPE

Manufacturer: Cree

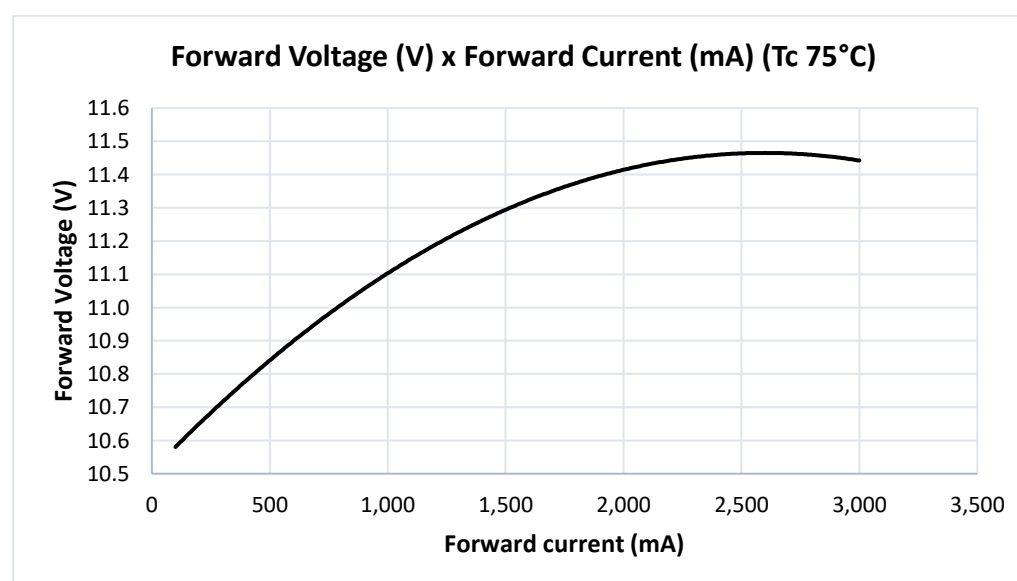
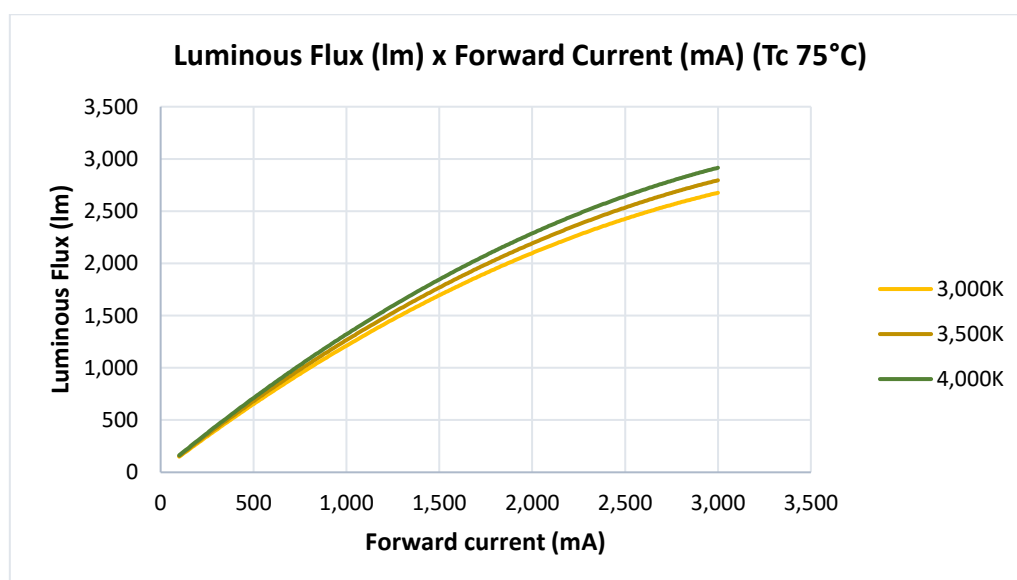
LED Series: X Lamp

TECHNICAL INFORMATION

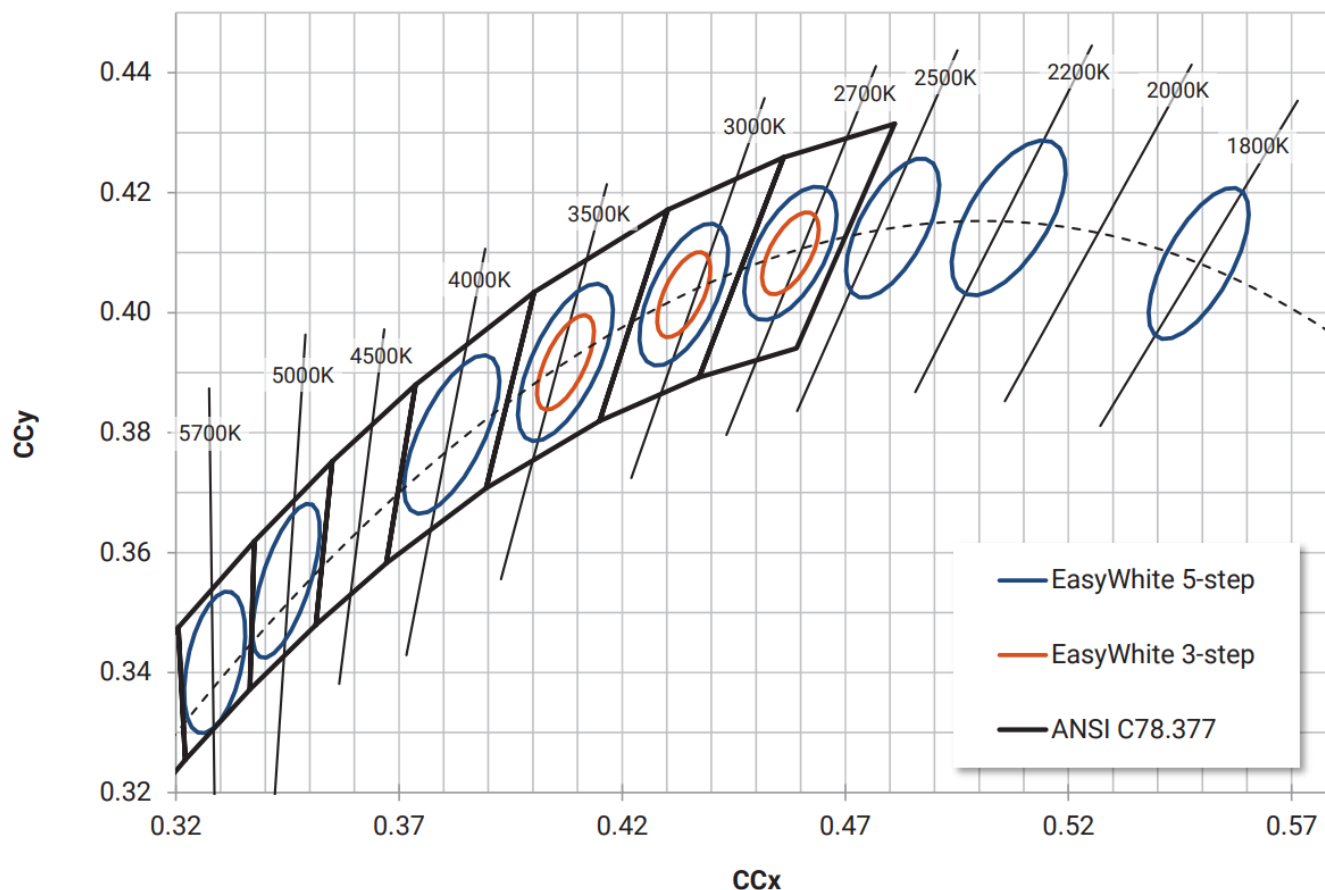
CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Forward Current (mA)	T _c (°C)	Power (W)	Efficacy (lm/W)
3,000K	100	4	148	10.6	100	75	1.1	140
3,000K	700	4	892	10.9	700	75	7.6	117
3,000K	1,000	4	1,208	11.2	1000	75	11.2	108
3,500K	100	4	155	10.6	100	75	1.1	146
3,500K	700	4	932	10.9	700	75	7.6	122
3,500K	1,000	4	1,260	11.2	1000	75	11.2	113
4,000K	100	4	161	10.6	100	75	1.1	152
4,000K	700	4	972	10.9	700	75	7.6	128
4,000K	1,000	4	1,316	11.2	1000	75	11.2	118

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

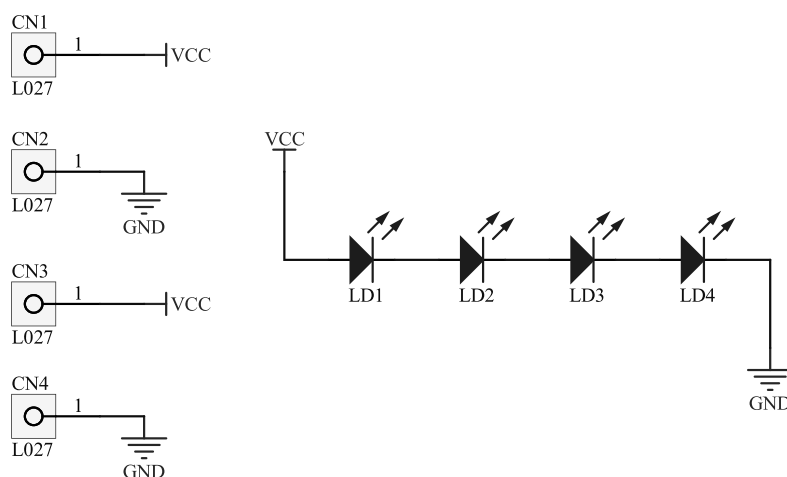
TECHNICAL GRAPHS

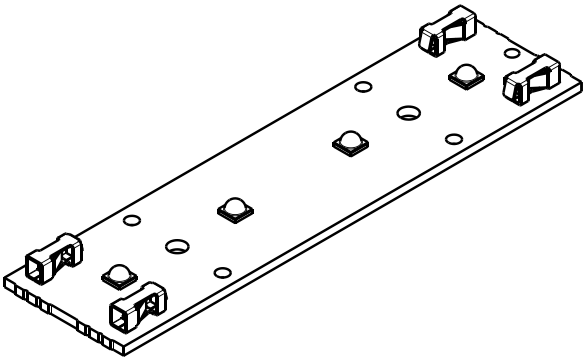
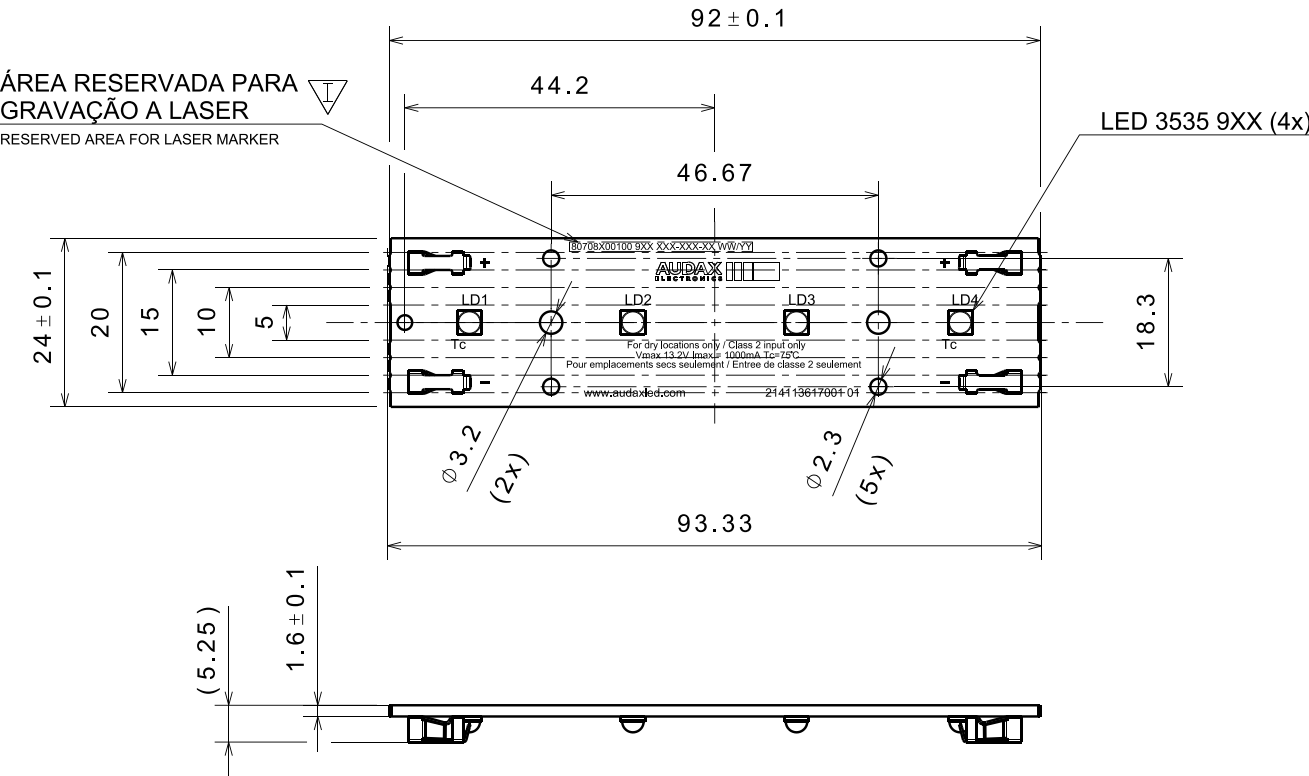


LED BINNING STRUCTURE



SCHEMATICS





Isometric view
Scale: 1:1

- Notas:
- Textos e logomarcas aplicados na placa são em serigrafia na cor preta;
 - Tolerâncias não indicadas ver tolerâncias gerais;
 - Dimensões não especificadas seguir conforme modelo matemático;

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

AUDAX PART NUMBER	DESCRIÇÃO (DESCRIPTION)	CRI	CCT	TENSÃO (VOLTAGE)	POTÊNCIA (POWER)	LEDs (Qty LEDs)
80708700100	LIGHT ENGINE DARCY 4 LEDS 92X24X1,6MM XPG4 930	90	3.000K	11,2V	7,8W	4 L
80708800100	LIGHT ENGINE DARCY 4 LEDS 92X24X1,6MM XPG4 935	90	3.500K	11,2V	7,8W	4 L
80708900100	LIGHT ENGINE DARCY 4 LEDS 96X24X1,6MM XPG4 940	90	4.000K	11,2V	7,8W	4 L

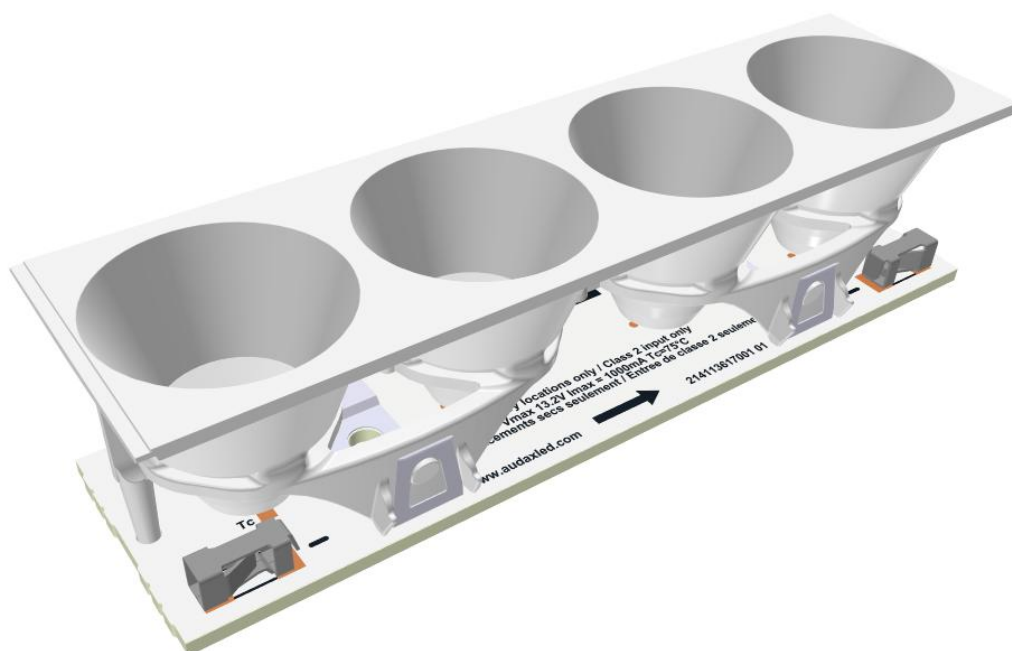
WIRING

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

COMPATIBLE OPTICS

MANUFACTURER	PART NUMBER	BEAM
LEDiL	CP19684_DARCY-4X1-RS	14°
LEDiL	CP19687_DARCY-4X1-W	36°
LEDiL	CP19688_DARCY-4X1-WW	55°
LEDiL	CP19890_DARCY-4X1-WWW	75°
LEDiL	CP19686_DARCY-4X1-M	25°
LEDiL	CP19689_DARCY-4X1-O	45+15°
LEDiL	CP19685_DARCY-4X1-SS	16°

ASSEMBLY SUGESTION



REVISION HISTORY

VERSION	ENGINEER IN CHARGE	DATE	CHANGE
00	KN	January 9 th , 2025	Release