

Light Engine

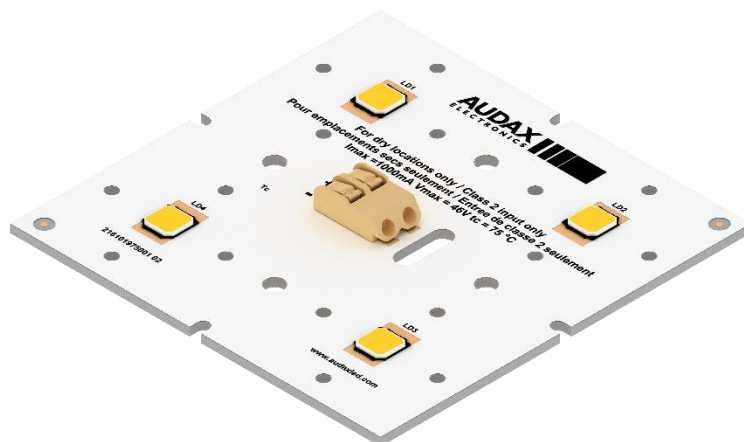
Issue Date	November/2021
Issued by	Carmo, K.

Applications

- Highbay
- Street Light
- Gas station
- Projectors
- Decorative Poles

Characteristics

- Module Efficacy – up to 145 lm/W
- L80 > 50,000 hours
- CRI > 80 (Typ.85)
- 03 SDCM
- CCTs: 2700K; 3000K; 3500K; 4000K
- 05 years warranty.



DRIVE CURRENTS

Parameter	Nominal	Max
Light Engine 2x2 4 LEDs 488	700mA	1000mA

MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (temperature at Tc point)	75 °C	85 °C

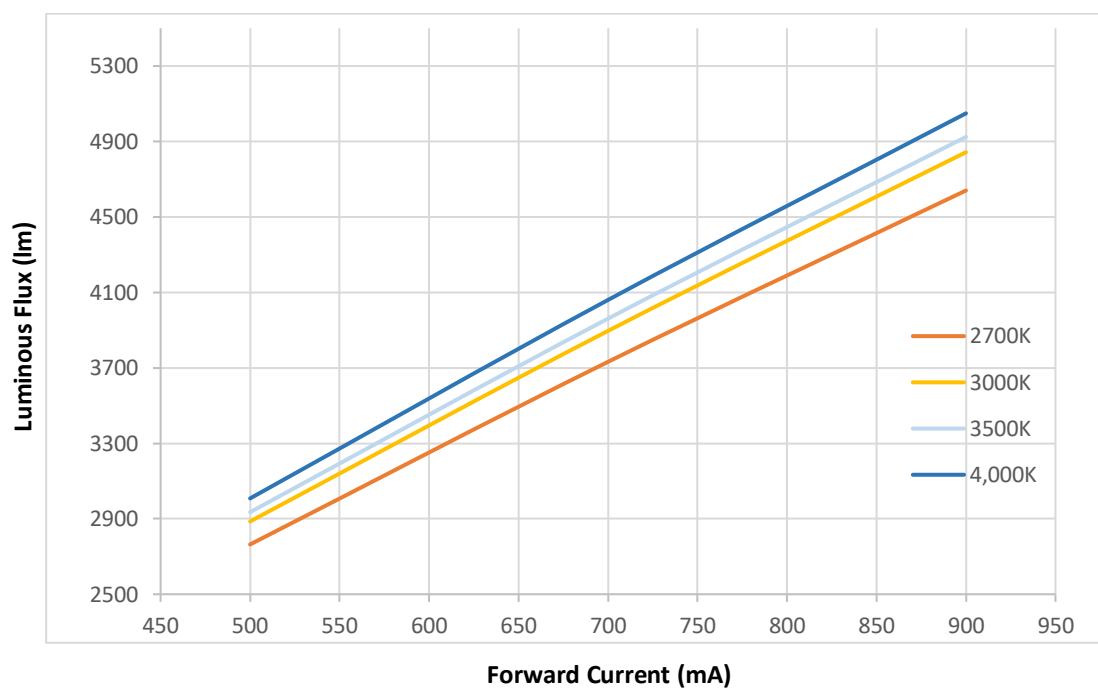
PRODUCT PART NUMBER

80298800100	80298900100	80299000100	80299100100
2700K	3000K	3500K	4000K

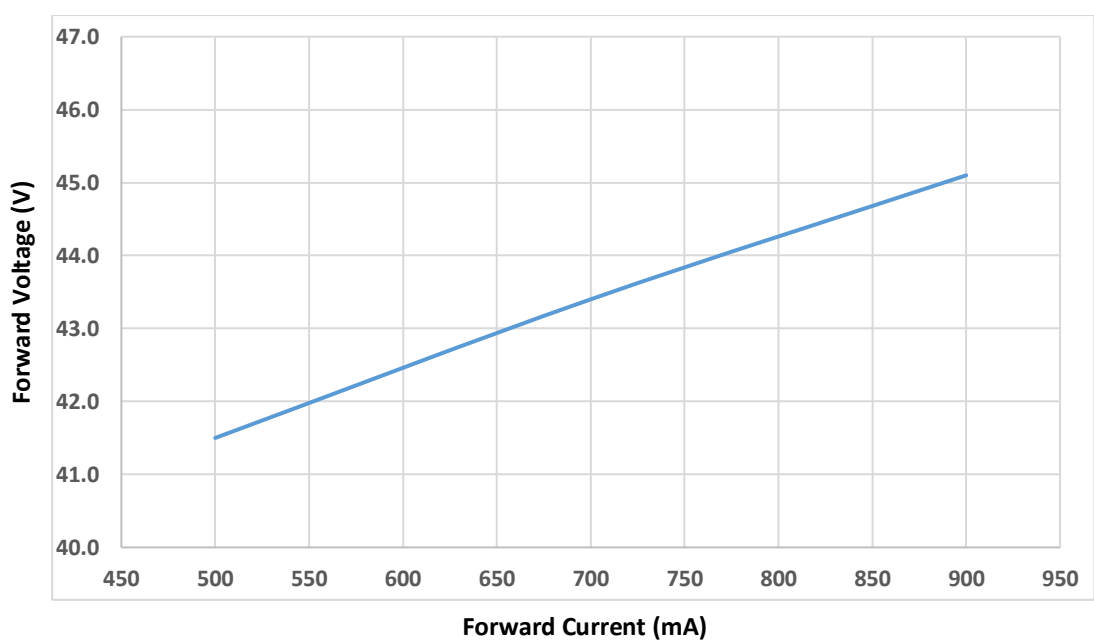
TECHNICAL INFORMATION

CCT	LED Driver Current (mA)	# LEDs	Luminous Flux (lm)	Forward Voltage (V)	LED Current (mA)	TC (°C)	Power (W)	Efficacy (lm/W)
2700K	500	4	2,764	41.5	125	75	20.7	133
2700K	700	4	3,732	43.4	175	75	30.4	122
2700K	900	4	4,640	45.1	240	75	40.6	114
3000K	500	4	2,886	41.5	116	75	20.7	139
3000K	700	4	3,896	43.4	175	75	30.4	128
3000K	900	4	4,843	45.1	240	75	40.6	119
3500K	500	4	2,935	41.5	116	75	20.7	141
3500K	700	4	3,961	43.4	175	75	30.4	130
3500K	900	4	4,924	45.1	240	75	40.6	121
4,000K	500	4	3,008	41.5	116	75	20.7	145
4,000K	700	4	4,060	43.4	175	75	30.4	133
4,000K	900	4	5,049	45.1	240	75	40.6	124

Luminous Flux (lm) x Forward Current (mA) (Tc 75°C)



Forward Voltage (V) x Forward Current (mA) (Tc 75°C)

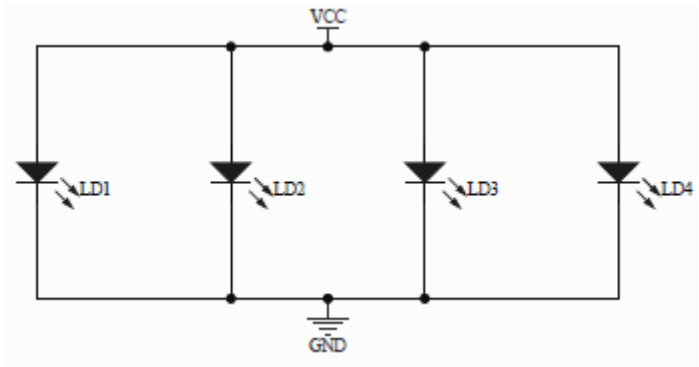


LED TYPE

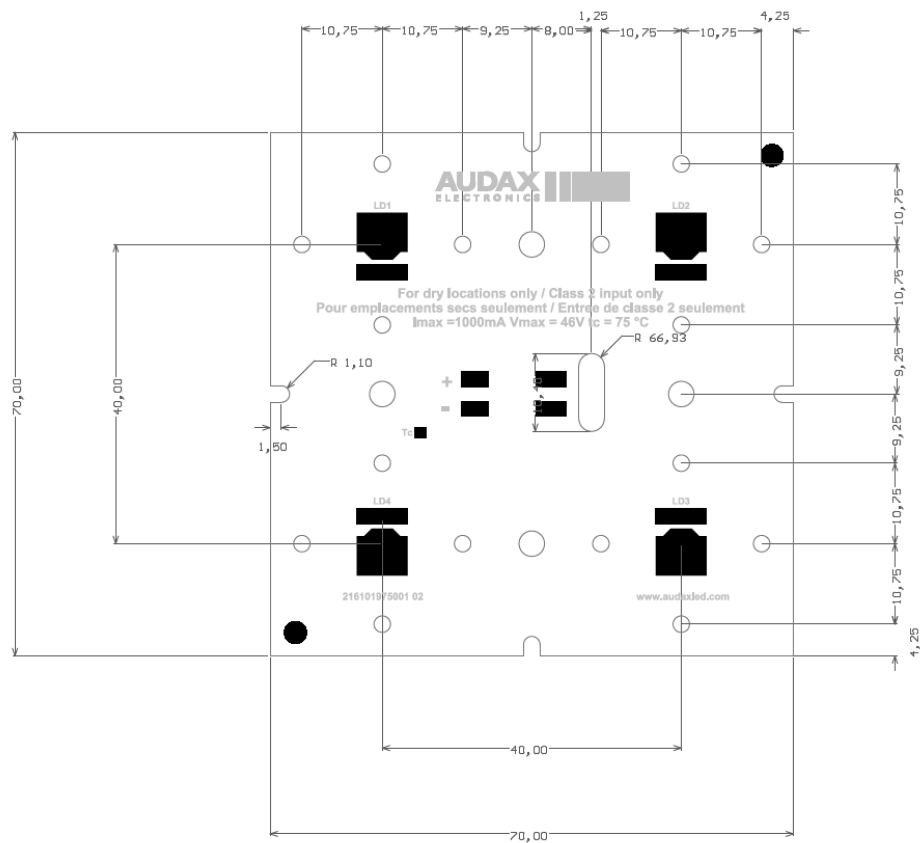
Manufacturer: Nichia

LED Series: NFMW488ART R9050 42V

SCHEMATICS



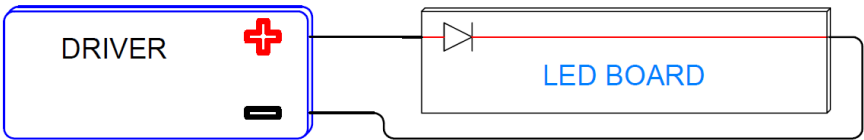
MECHANICAL DRAWINGS



Unit: mm

WIRING

Specification item	Value	Unit	Condition
Input wire cross- section	0.13...0.50 26...20	mm ² AWG	Solid wire
Input wire strip length	5...7	mm	Solid wire
Input wire cross-section	0.13...0.50 26...20	mm ² AWG	Stranded wire
Input wire strip length	5...7	mm	Stranded wire



COMPATIBLE OPTICS

Manufacturer	Part Number	Color	Material	Beam
LEDiL	CS15759_HB-2X2MX-8-W	Clear	PMMA	~50°
LEDiL	CS15765_HB-2X2MX-8-WWW	Clear	PMMA	~65°
LEDiL	CS15767_HB-2X2MX-8-M	Clear	PMMA	~30°
LEDiL	FP15897_HB-2X2MXS-WWW	Black	Silicone	~85°
LEDiL	FP15898_HB-2X2MXS-WW	Black	Silicone	~55°
LEDiL	FP16310_HB-2X2MXS-M	Black	Silicone	~30°
LEDiL	CS15750_STRADA-2X2MX-8-T4-B	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	CS15751_STRADA-2X2MX-8-DWC	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	CS15761_STRADA-2X2MX-8-SCL	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	CS15763_STRADA-2X2MX-8-VSM	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	CS15769_STRADA-2X2MX-8-T2-S	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	CS15771_STRADA-2X2MX-8-T2	Clear	PMMA	Asy-Angle ⁽¹⁾
LEDiL	FP14825_STRADA-2X2MXS-DWC2	Black	Silicone	Asy-Angle ⁽¹⁾
LEDiL	FP15589_STRADA-2X2MXS-T2	Black	Silicone	Asy-Angle ⁽¹⁾
LEDiL	FP15672_STRADA-2X2MXS-T4-B	Black	Silicone	Asy-Angle ⁽¹⁾
LEDiL	FP15752_STRADA-2X2MXS-T3	Black	Silicone	Asy-Angle ⁽¹⁾
LEDiL	FP15812_STRADA-2X2MXS-VSM	Black	Silicone	Asy-Angle ⁽¹⁾

(1) Photometric data for asymmetrical angles can be evaluated on www.ledil.com