

PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant voltage input(24 V)
- CCT Range from 2000°K up to 6500°K
- This module is standard and can be connected as 7 Series 8 Parallel.
- Luminous flux range from 2000 lm to 3715 lm
- Efficacy of the module up to 185 lm/W
- CRI 80 is standart, CRI 70 and CRI 90 are available
- Outstanding system color tolerance MacAdam 3 over the full operating area
- Simple installation (e.g. screw)
- Long life-time > 60,000 hours
- 5 years guarantee at specified conditions



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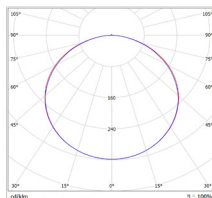
APPLICATIONS



Cove Light

Office Lighting

PHOTOMETRY

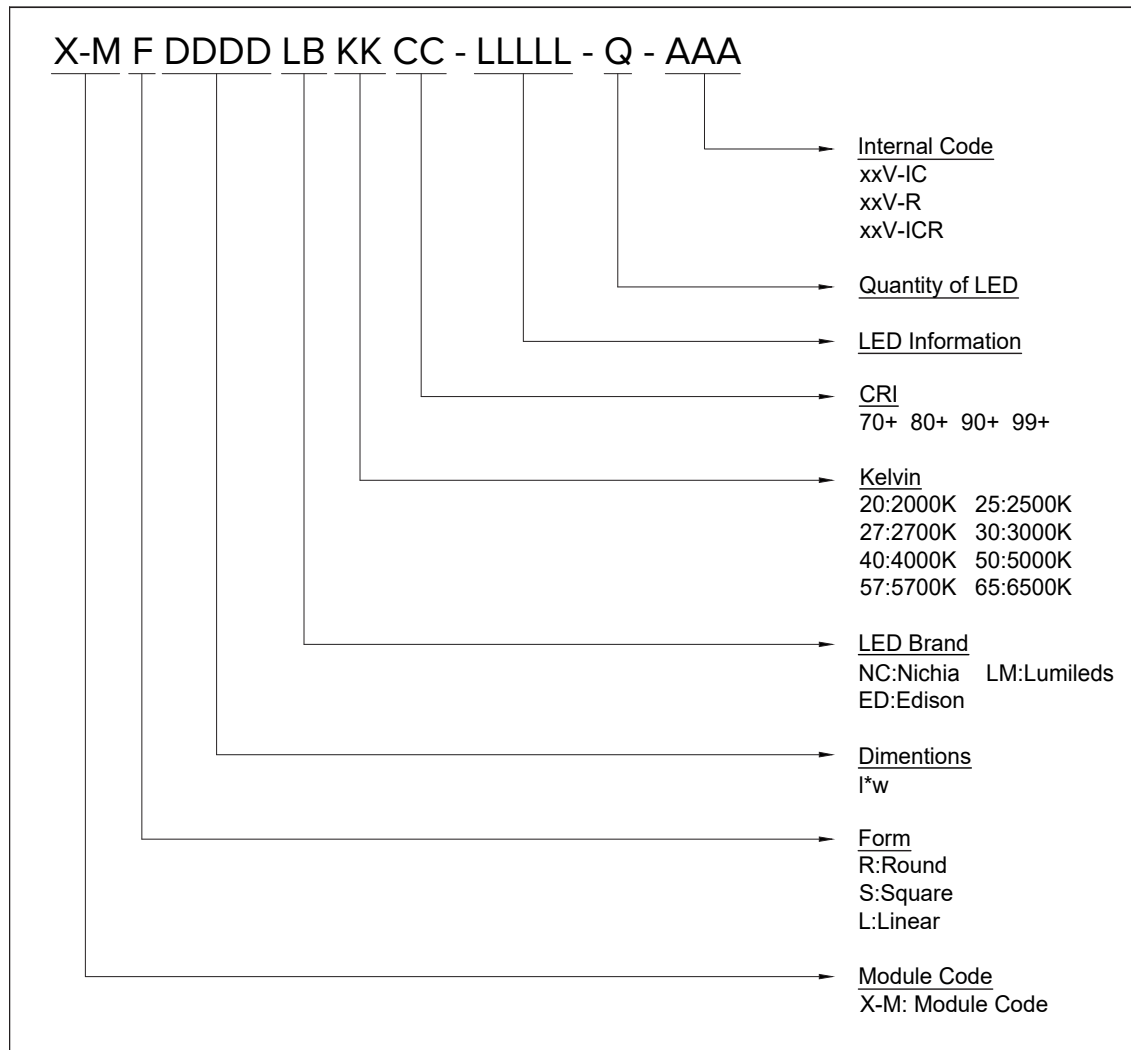


W/O LENS

TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	900mA
Typical voltage of LED Module at max current	24 V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	1
Type of protection	IP00

ORDERING INFORMATION



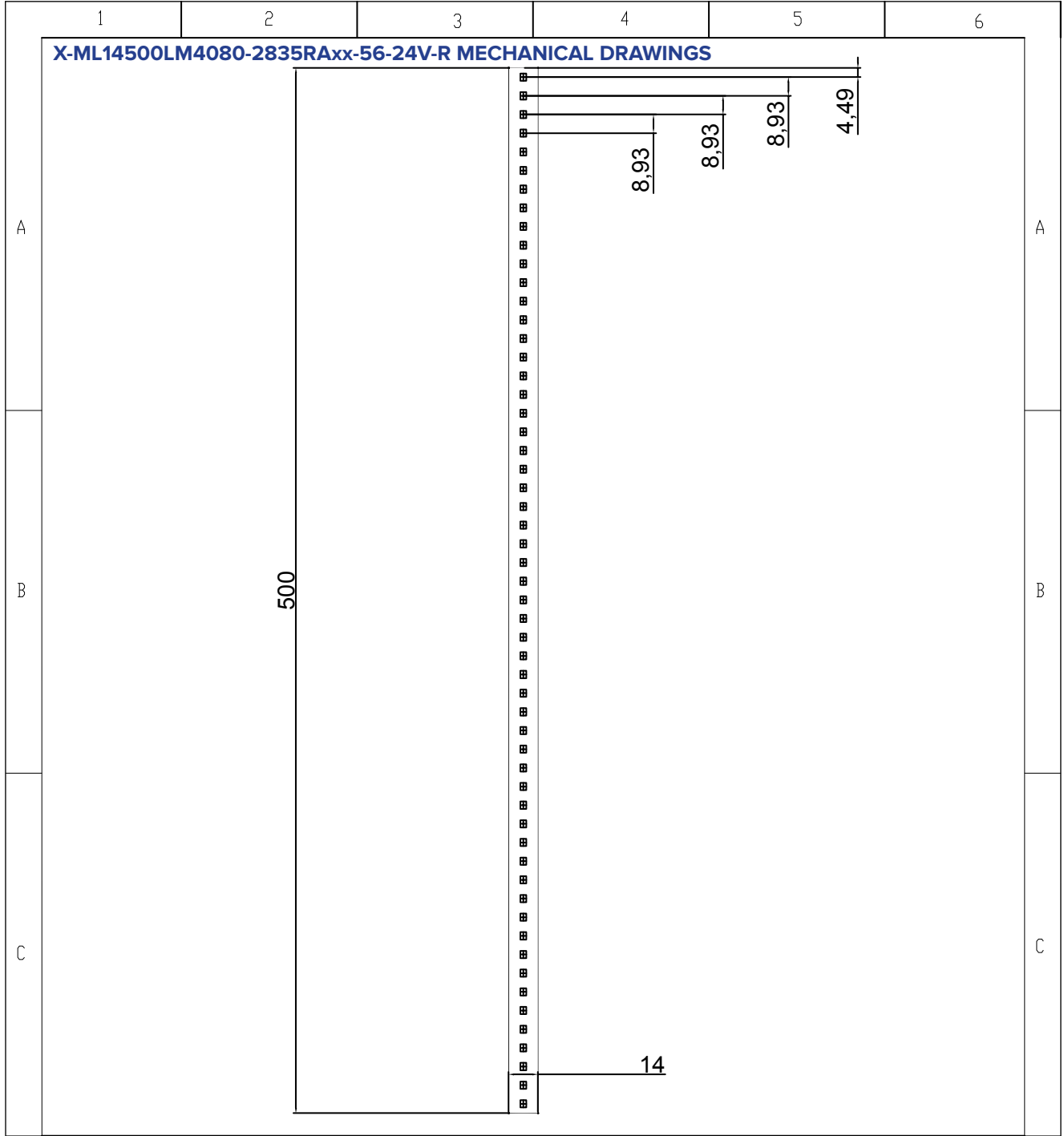
DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [@Tj : 85°C] ;			
Module Code	X-ML14500LM4080-2835RAxx-56-24V-R		
PCB Material	ALU	Electrical Connection	
Operating Temperature (°C)	-25 ~ +100°C	Parallel	8
Storage Temperature (°C)	-25 ~ +100°C	Series	7
Thermal Conductivity (W/m-K)	1,5	LED Quantity	56
LED	L128-xx80RA3500C1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	24	24	24
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	63	88	113
Module Power (W)	12,00	16,80	21,60
Module Light Output (lm)	2.220	3.024	3.715
Module Efficiency (lm/W)	185	180	172
LED	L128-xx80RA35002F1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	24	24	24
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	63	88	113
Module Power (W)	12,00	16,80	21,60
Module Light Output (lm)	2.136	2.890	3.564
Module Efficiency (lm/W)	178	172	165
LED	L128-XX80RA35002Q1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	24	24	24
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	63	88	113
Module Power (W)	12,00	16,80	21,60
Module Light Output (lm)	2.004	2.638	3.175
Module Efficiency (lm/W)	167	157	147

The table below shows how to Module Light Output changes depending on CCT (°K)

LED	Lumen Output Multiplier				
	2700°K (CRI 80)	3000°K (CRI 80)	4000°K (CRI 80)	5000°K (CRI 80)	6500°K (CRI 80)
L128-xx80RA3500C1	1,00	1,02	1,10	1,15	1,10
L128-xx80RA35002F1	0,88	0,91	1,00	1,00	1,00
L128-XX80RA35002Q1	0,74	0,78	0,86	0,86	0,86

Relative luminous intensity versus CCT (°K)



SERBEST ÖLÇÜ TOLERANSLARI -DIN 2768-1 / General Tolerances for linear and angular dimensions (DIN ISO 2768-1)

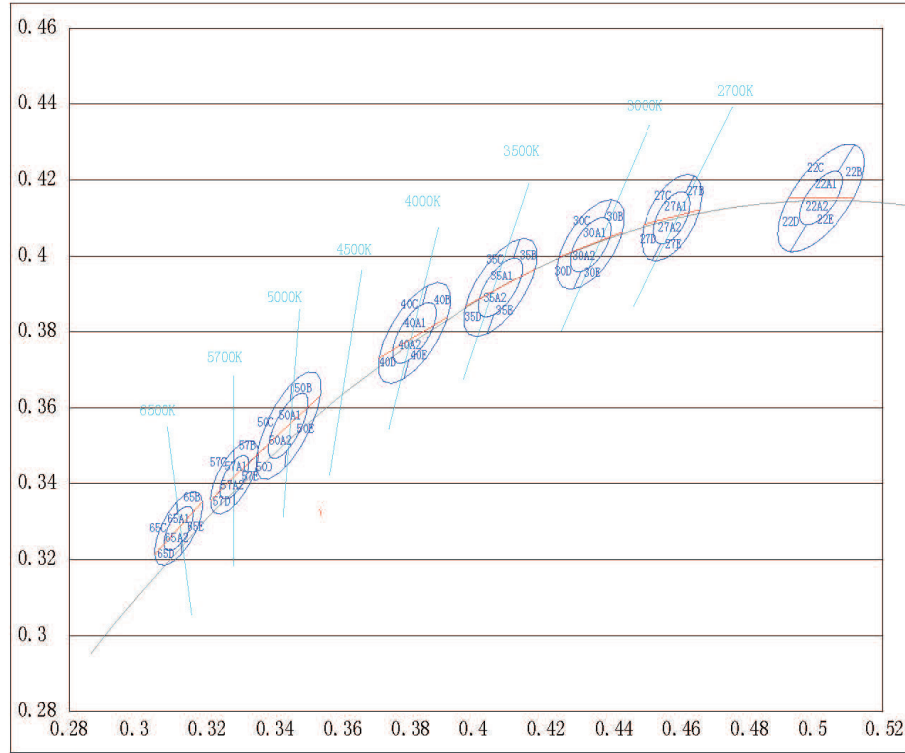
0.5 up to 3mm	over 3 up to 6mm	over 6 up to 30mm	over 30 up to 120mm	over 120 up to 400mm	over 400 up to 1000mm
± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8

Stock code No		MALZEME (MATERIAL)	AGIRLIK (WEIGHT)		
Revision	00	XXX	XXX		
Date	20.01.2021	X-ML14500LM-4080-2835x-56-24V-R			OLÇEK / SCALE
Sheet					A4
Drawn By	Kaan ALTINTEN				
Checked By	Ibrahim OKMEN				
Approved By	Utku OZTURK				

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CCT AND BINNING INFORMATION



LIFE TIME

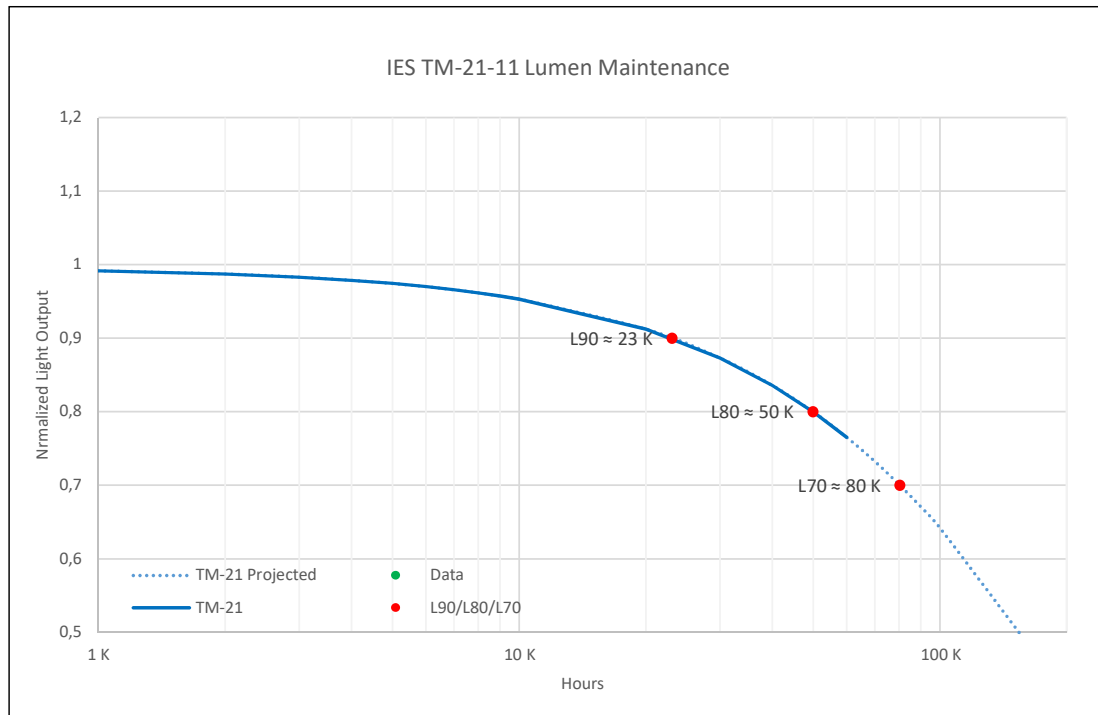
MODEL NUMBER: 2835RA



TM-21-11 Report

Manufacturer	Lumileds
Model	2835RA
Test Report applies to the following part number	L128-4080RA3500xxx
Drive current for each LED package/array/module (mA)	150
In-situ case teperature (Tc, °C)	85

Part Number Tested	L128-3080RA3500Q1
Sample size	25
Number of failures	0
DUT drive current used in the test (mA)	150
Test duration (hours)	9000
Test duration used for projection (hour to hour)	4000-9000
Tested case temperature (°C)	85
α	4,3890E-06
B	9,9600E-01
Calculated L70(10k) (hours)	80352
Reported L70(10k) (hours)	> 54000



Lumileds 2835RA TM-21-11 Report generated on 28 gen 2019 by andrea.banfi@lumileds.com

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