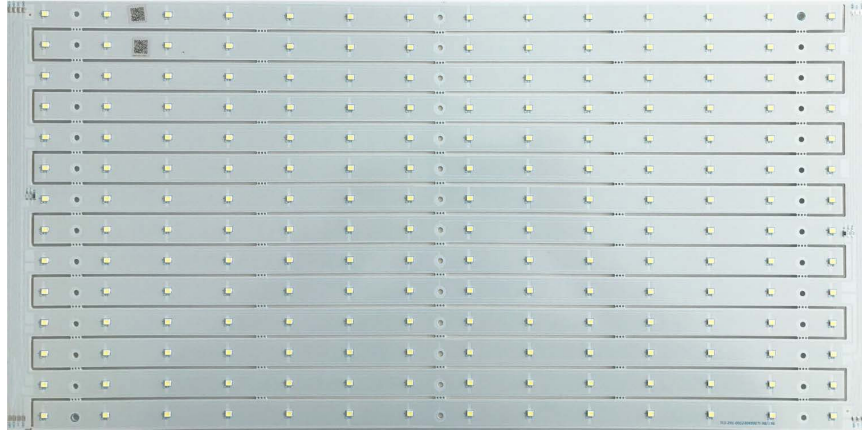




## PRODUCT PHOTO



## SPECIFICATIONS

- Default driving method is constant current input
- CCT Range from 2000°K up to 6500°K
- Luminous flux range from 2523 lm to 4763 lm
- Efficacy of the module up to 200 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



For your orders please call us:

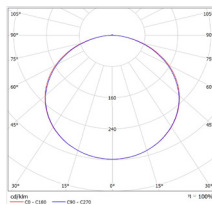
**+90 444 27 33**

## APPLICATIONS



Office Lighting

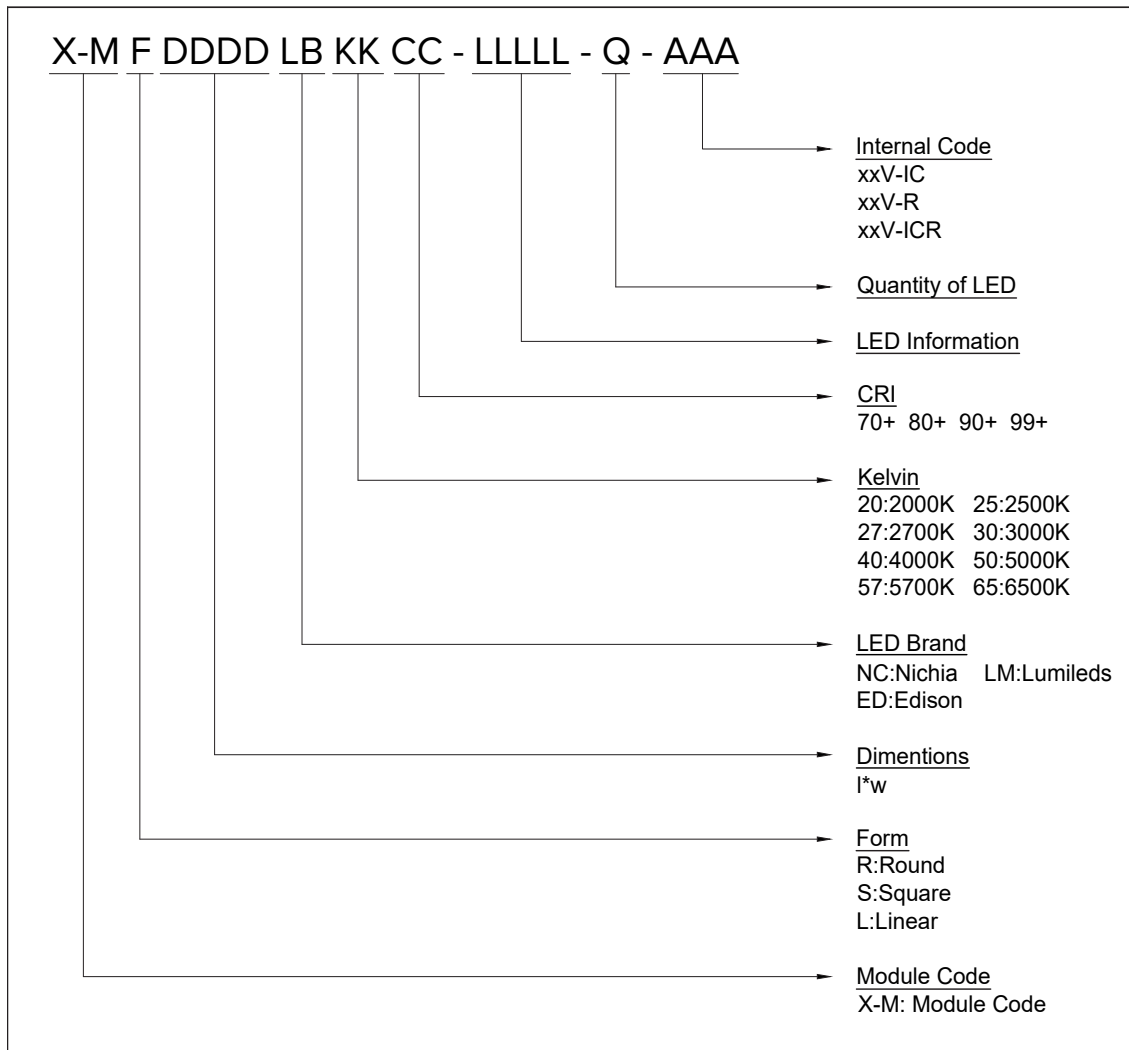
## PHOTOMETRY



## TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	700 mA
Typical voltage of LED Module at max current	42 V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	1
Type of protection	IP00

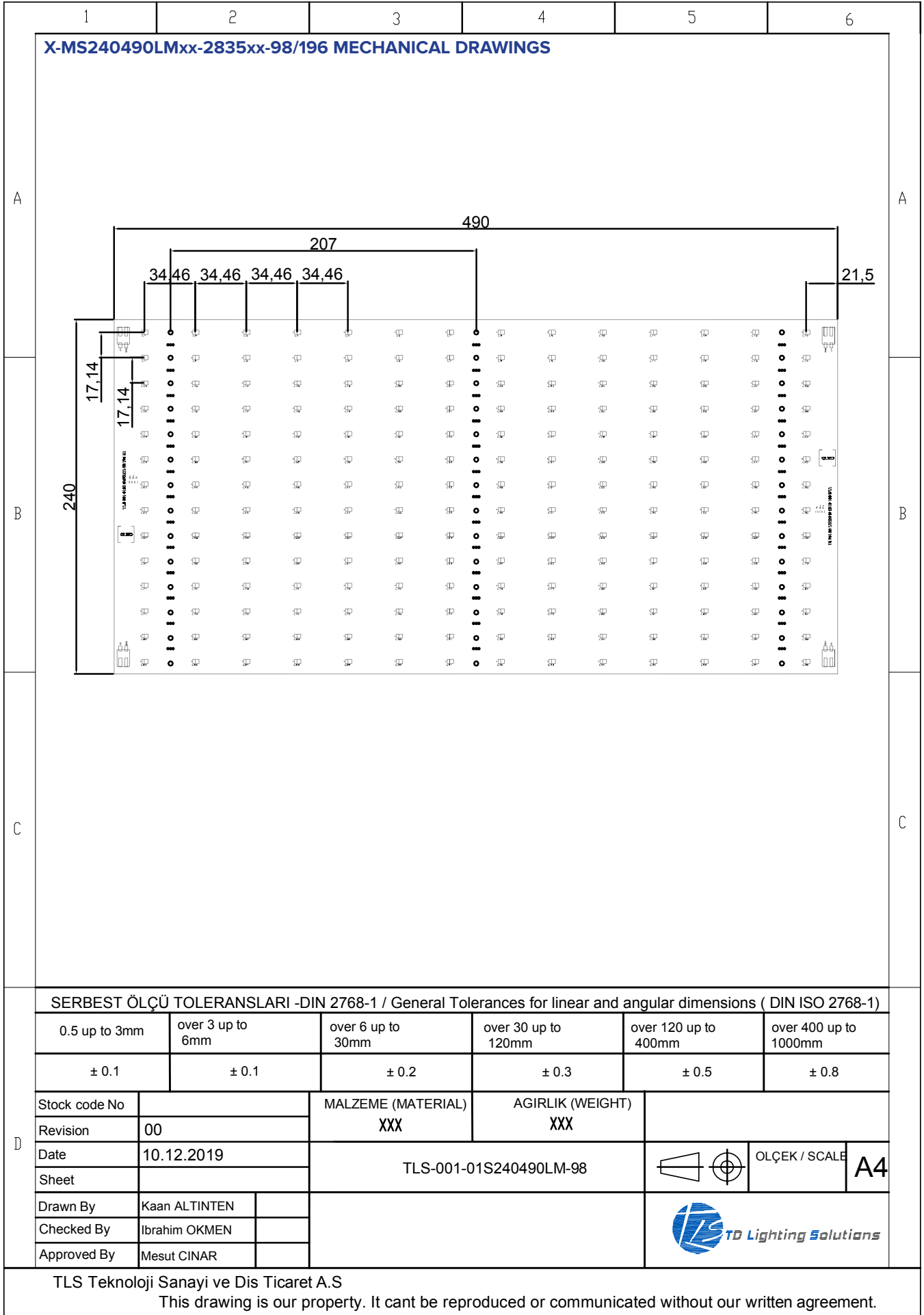
## ORDERING INFORMATION



## DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [ @Tj : 85°C ] ;			
Module Code	X-MS240490LMxx-2835xx-98/196		
PCB Material	CEM1	Electrical Connection	
Operating Temperature (°C)	-40 ~ +85	Parallel	7
Storage Temperature (°C)	-40 ~ +55	Series	14
Thermal Conductivity (W/m-K)	1>	LED Quantity	98
<b>LED 2835HE</b>			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	36,40	37,10	37,80
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	50	71	100
Module Power (W)	12,74	18,55	26,46
Module Light Output (lm)	2.523	3.562	4.763
Module Efficiency (lm/W)	198	192	180
<b>LED 2835RA-2F1</b>			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	37,52	38,08	38,92
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	50	71	100
Module Power (W)	13,13	19,04	27,24
Module Light Output (lm)	2.259	3.199	4.196
Module Efficiency (lm/W)	172	168	154
<b>LED 2835RA-2Q1</b>			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	39,20	39,90	41,02
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	50	71	100
Module Power (W)	13,72	19,95	28,71
Module Light Output (lm)	2.195	2.993	4.020
Module Efficiency (lm/W)	160	150	140

LED	Lumen Output Multiplier				
	2700°K (CRI 80)	3000°K (CRI 80)	4000°K (CRI 80)	5000°K (CRI 80)	6500°K (CRI 80)
2835 HE	1	1,09	1,2	1,2	1,2
2835 RA-2F1	0,875	0,916	1	1	1
2835 RA-2Q1	0,74	0,78	0,86	0,86	0,86



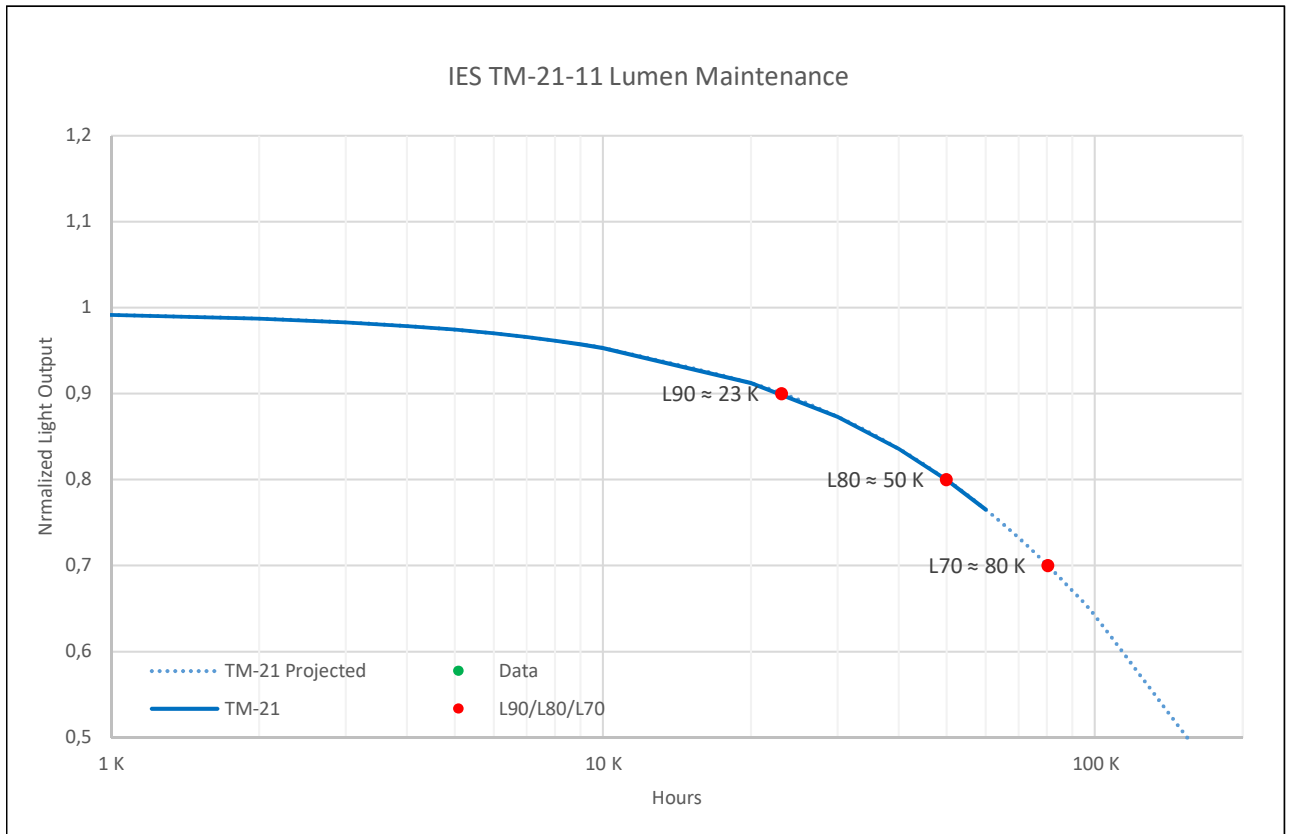


## LIFE TIME

MODEL NUMBER: 2835RA-xxx

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	L128-3080RA35000Q1
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
$\alpha$	4,3890E-06
B	9,9600E-01
Calculated L70(10k) (hours)	80352
Reported L70(10k) (hours)	> 54000



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