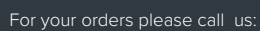


The top view of the PCB assembly shows the LED array, connectors, and various markings. The LED array is composed of 30 LEDs arranged in three rows of 10. The top row of LEDs is labeled L1 through L30. The middle row of LEDs is labeled L31 through L60. The bottom row of LEDs is labeled L61 through L90. The PCB features two connectors, one on the left and one on the right, both labeled with a plus and minus sign. The PCB also includes a QR code labeled 'QR BRD' and various safety and handling markings, including 'LEAD FREE', 'ESD', and 'NO SOLDERING'.

- Default driving method is constant current input
- CCT Range from 2000°K up to 6500° K
- Luminous flux range from 1312 lm to 2523 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



+90 444 27 33

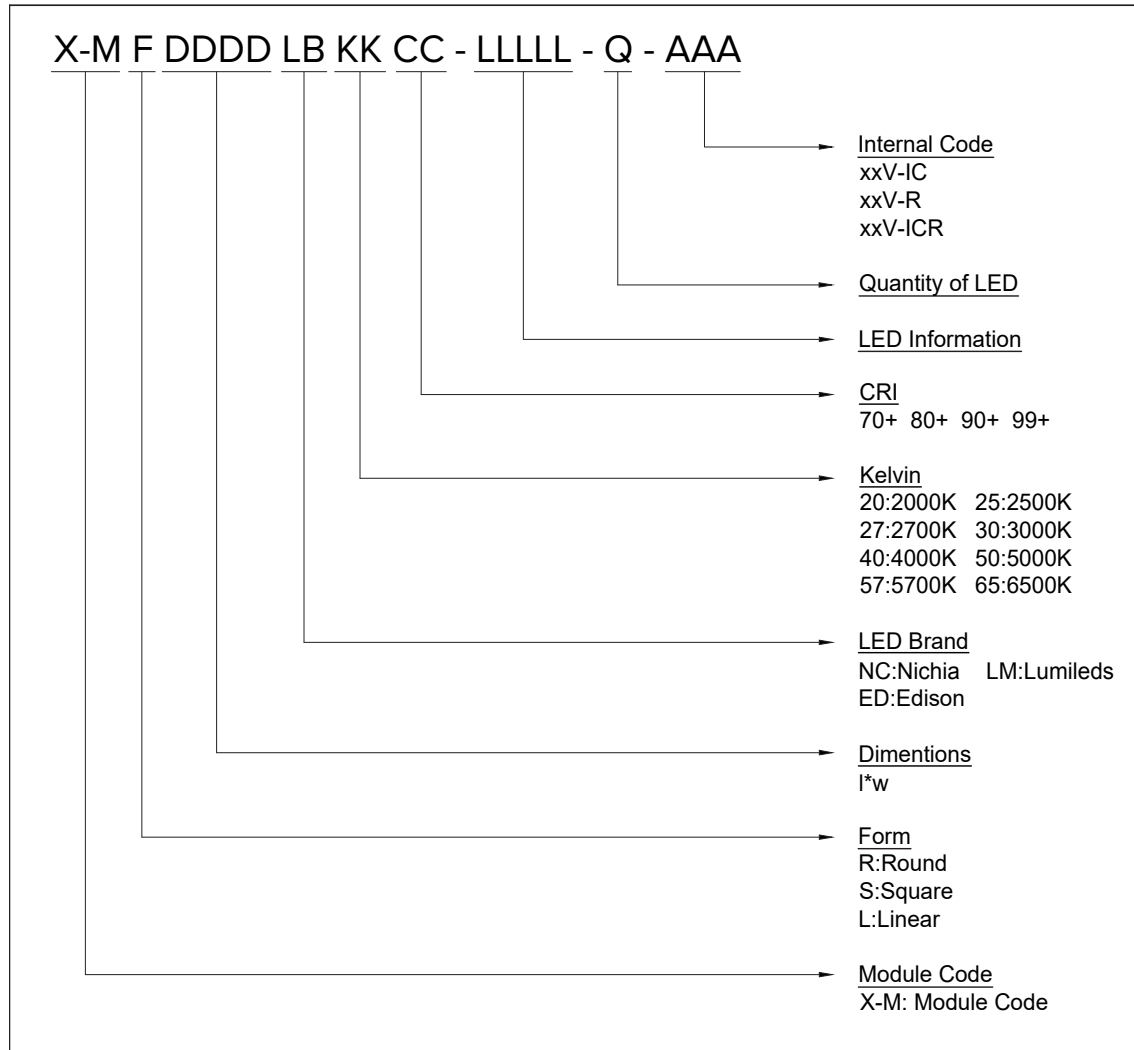
Very High Bay Lighting

Shop Lighting

TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	500mA
Typical voltage of LED Module at max current	33 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

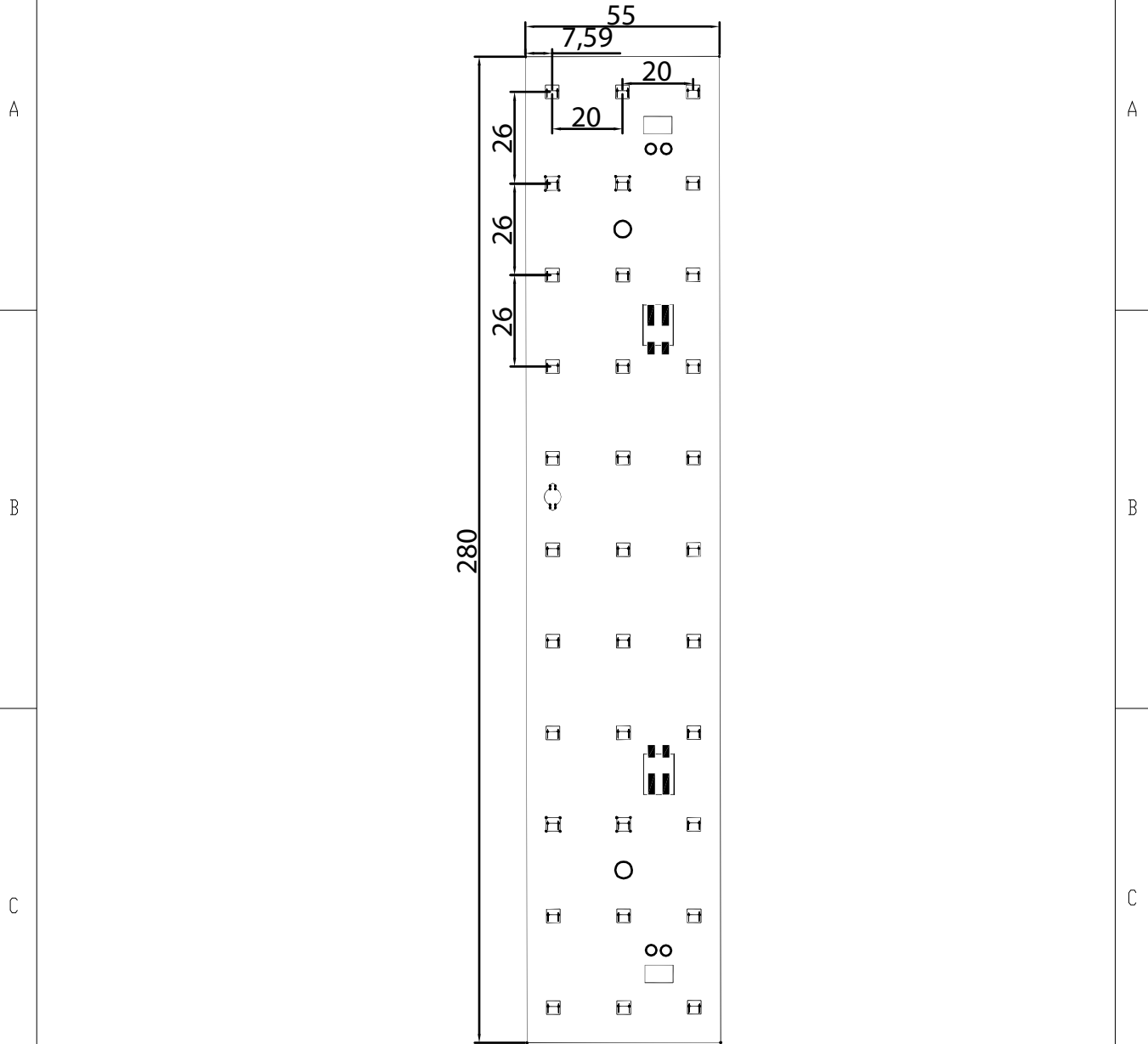
Common Characteristic [@Tj] : 85°C] ;			
Module Code	X-ML55280LMxx-2835xx-33		
PCB Material	FR4	Electrical Connection	
Operating Temperature (°C)	-40 ~ +85	Parallel	3
Storage Temperature (°C)	-40 ~ +55	Series	11
Thermal Conductivity (W/m-K)	1>	LED Quantity	33
LED	2835HE		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	29,26	29,70	30,25
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83	117	167
Module Power (W)	7,32	10,40	15,13
Module Light Output (lm)	1.463	2.027	2.874
Module Efficiency (lm/W)	200	195	190
LED	2835RA-2F1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	29,48	29,92	30,58
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83	117	167
Module Power (W)	7,37	10,47	15,29
Module Light Output (lm)	1.312	1.801	2.523
Module Efficiency (lm/W)	178	172	165
LED	2835RA-2Q1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	30,80	31,35	32,23
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83	117	167
Module Power (W)	7,70	10,97	16,12
Module Light Output (lm)	1.286	1.723	2.369
Module Efficiency (lm/W)	167	157	147

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

Lumen Output Multiplier					
LED	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

Relative luminous intensity versus CCT (°K)

X-ML55280LMxx-2835xx-33 MECHANICAL DRAWINGS



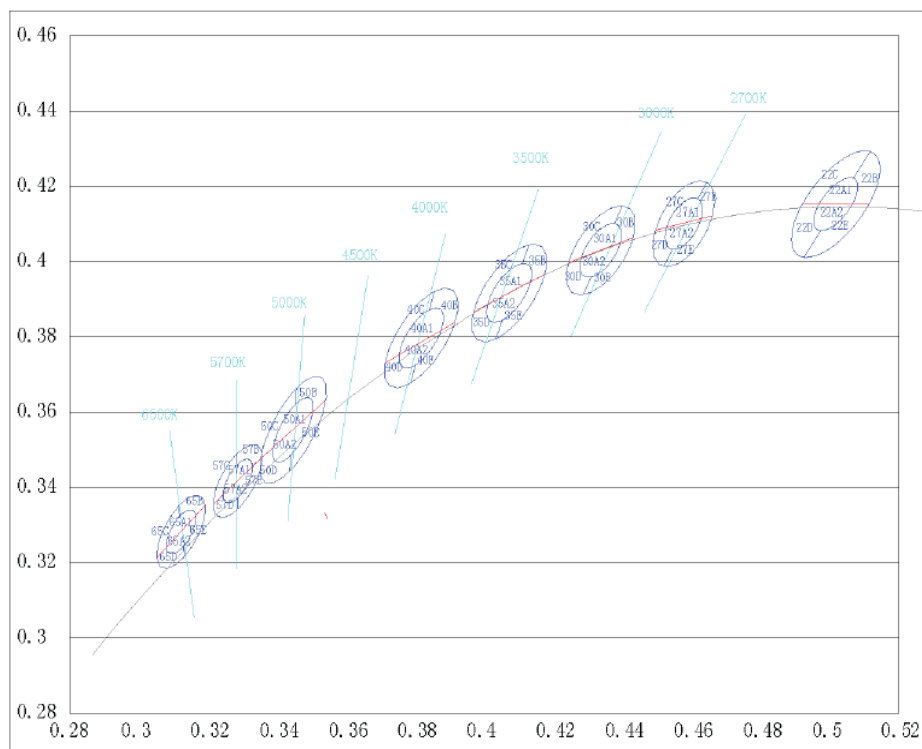
SERBEST ÖLÇÜ TOLERANSLARI -DIN 2768-1 / General Tolerances for linear and angular dimensions (DIN ISO 2768-1)

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) XXX		AGIRLIK (WEIGHT) XXX					
Revision	00										
Date	10.12.2019			TLS-001-10L55280NC-33					OLÇEK / SCALE		A4
Sheet											
Drawn By	Kaan ALTINTEN										
Checked By	Ibrahim OKMEN										
Approved By	Mesut CINAR										

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CCT AND BINNING INFORMATION

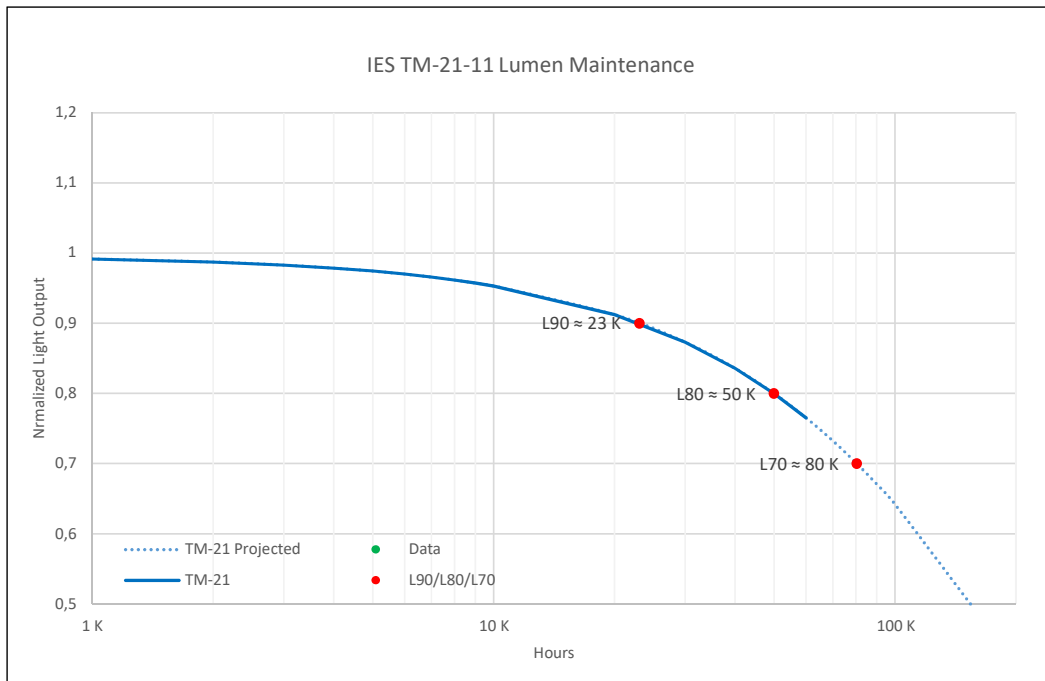


LIFE TIME

MODEL NUMBER: 2835RA

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
α	4,3890E-06
B	9,9600E-01
Calculated L70(10k) (hours)	80352
Reported L70(10k) (hours)	> 54000



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