

PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant voltage input (24V DC)
- This module can be broken 7 parts equally.
- CCT Range from 2700°K up to 6500°K
- Luminous flux range from 1602 lm to 2822 lm
- Efficacy of the module up to 159 lm/W
- CRI 80 is standart
- 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:

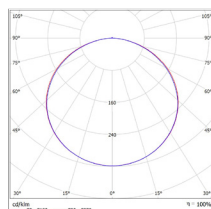
+90 444 27 33

APPLICATIONS

Interior
Architectural
Lighting

Cove Light

PHOTOMETRY

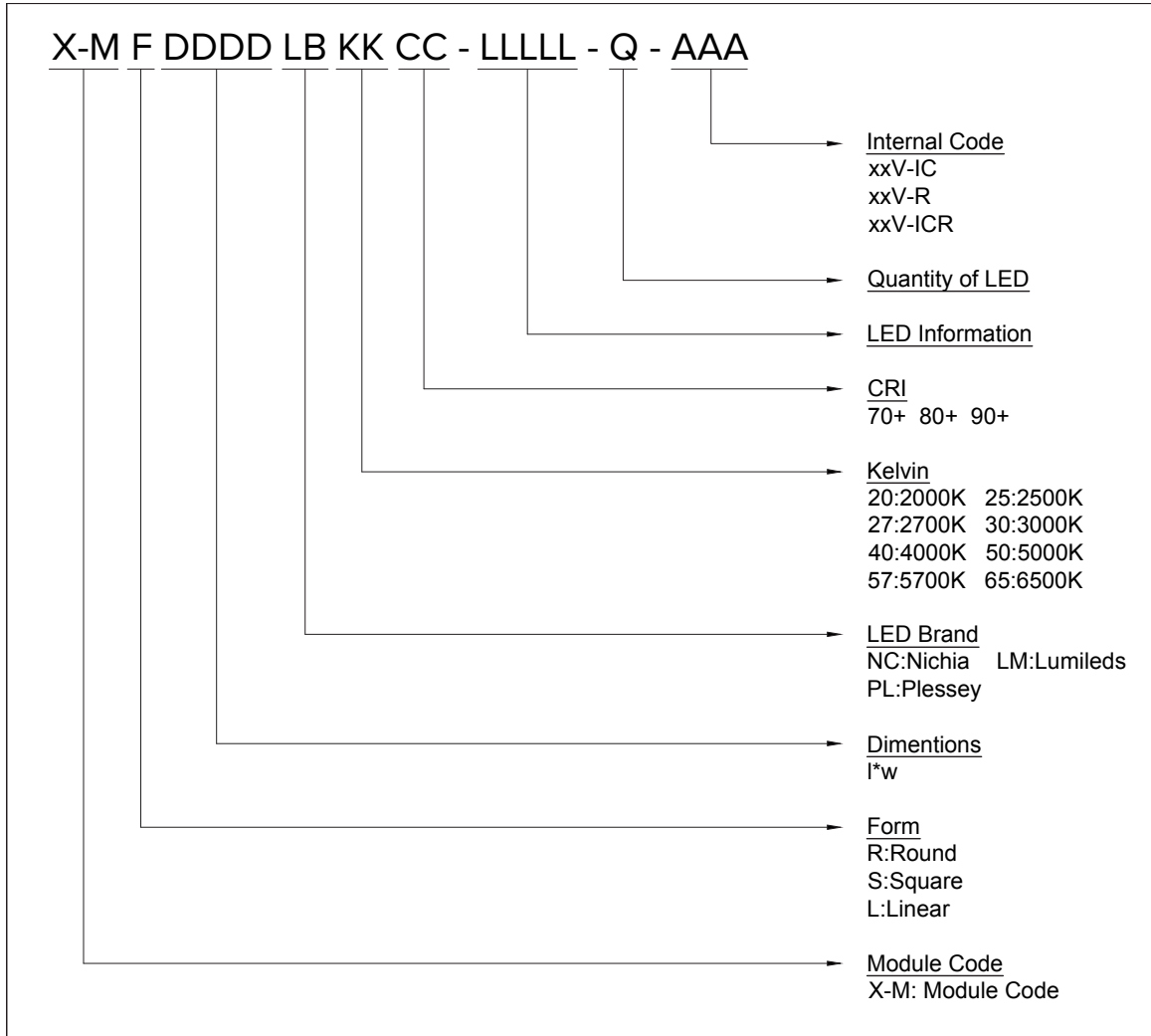


W/O LENS

TECHNICAL DATA

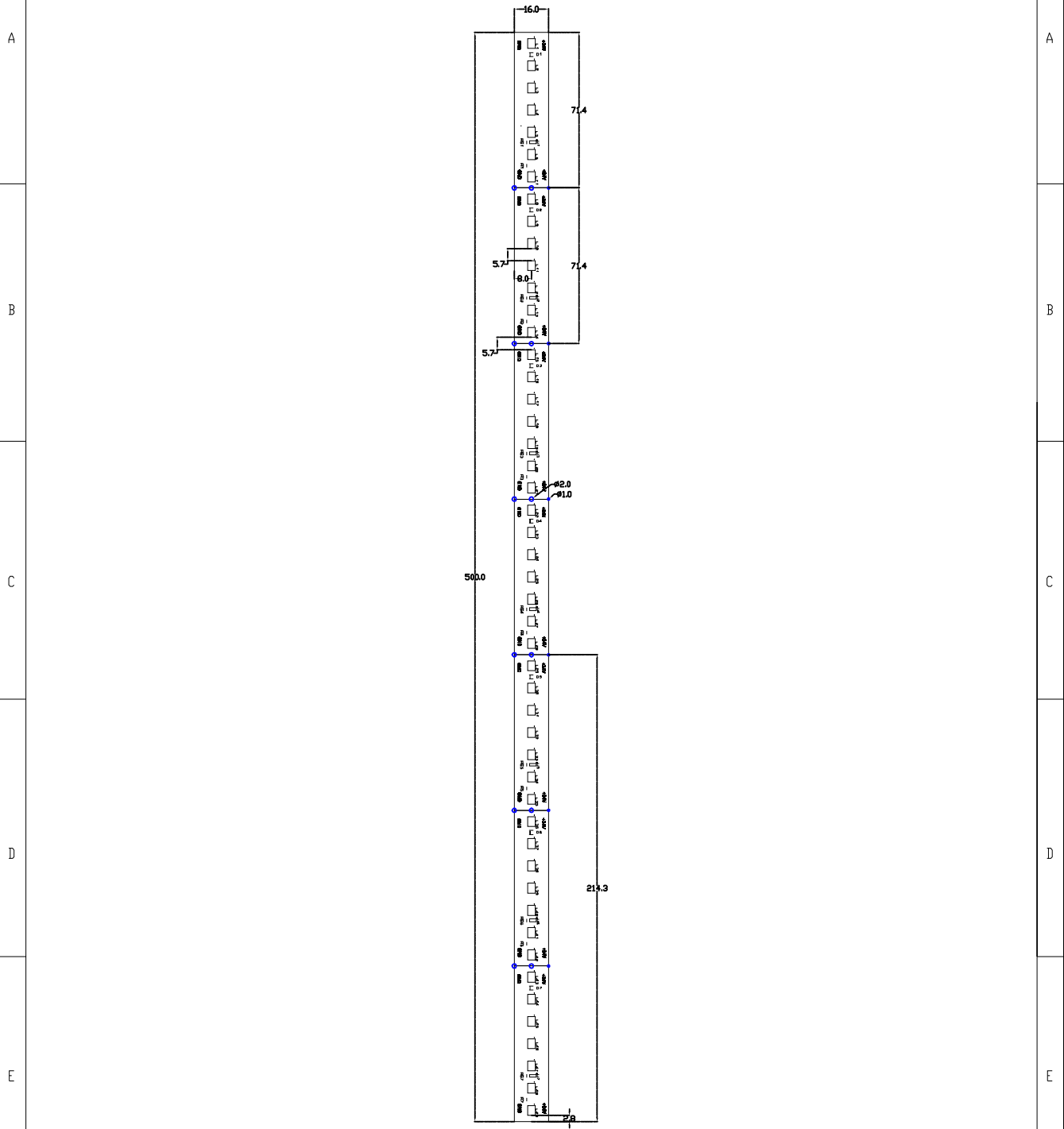
Beam Angle	120°
Ambient temperature range	-40° ~ +85°C
Tc max	85°C
Max. DC forward current	840mA
Typical voltage of LED Module at max current	24
Max. Permissible current ripple of LED Driver	5%
Insulation test voltage	2kV
ESD classification	Class 1C
Risk group (EN 62471:2008)	RG1 : ILED < 100mA, RG2: ILED > 100mA
Type of protection	IP00

ORDERING INFORMATION



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

X-ML16500LM-4080-2835EA-49-24V-ICR MECHANICAL DRAWINGS



SERBEST ÖLÇÜ TOLERANSLARI -DIN 2768-1 / General Tolerances for linear and angular dimensions (DIN ISO 2768-1)									
0.5 up to 3mm	± 0.1	over 3 up to 6mm	± 0.1	over 6 up to 30mm	± 0.2	over 30 up to 120mm	± 0.3	over 120 up to 400mm	± 0.5
								over 400 up to 1000mm	± 0.8

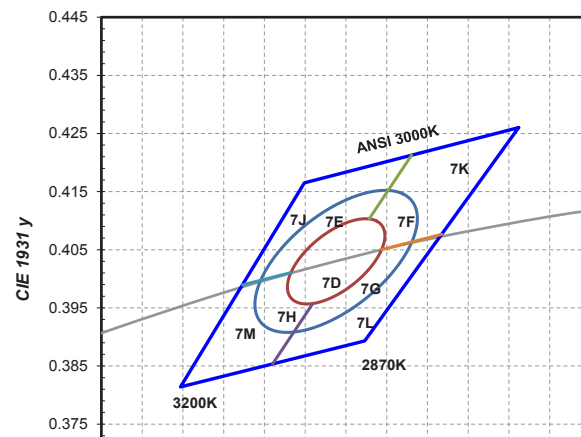
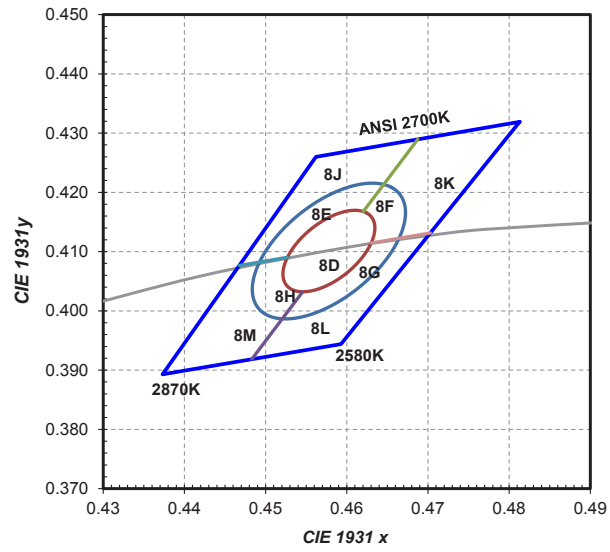
Stock code No : XXXX	MALZEME (MATERIAL)	AGIRLIK (WEIGHT)		
Revision : 00	PC			
Date : 12.7.2017	PARÇA NO (PART NO)	TLS-001-10L16500LM-49-24V-ICR	ÖLÇEK / SCALE	A4
Sheet : 1				
Drawn By : M. KAZAKLI				
Checked By : O. SANATSEVER				
Approved By : M. CINAR				



TD Lighting Solutions

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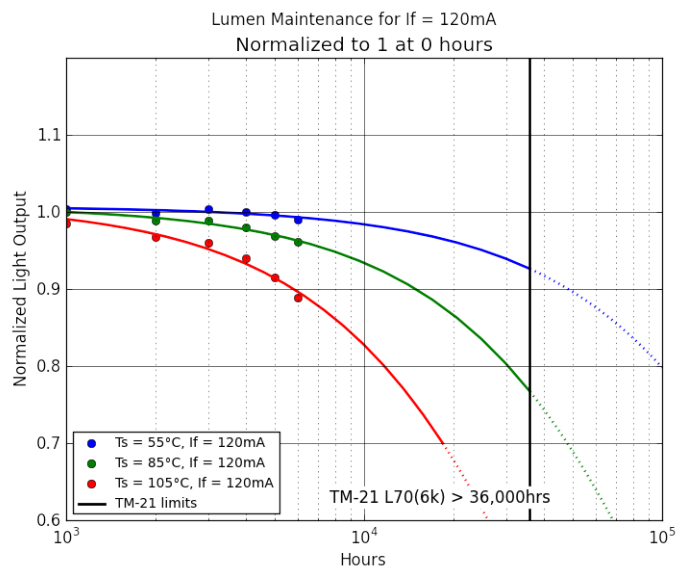
CCT AND BINNING INFORMATION



LIFETIME PROJECTION & WORST CONDITION PERFORMANCE

Normalized Flux Statistics for $I_f = 120\text{mA}$

		0hrs	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs	alpha	B	L70
Ts=Tair=105°C	median =	1.000	0.985	0.968	0.960	0.939	0.915	0.889	2.0007e-05	1.0107	18,361
	average =	1.000	0.985	0.968	0.960	0.940	0.915	0.889			
	st dev =	0.000	0.004	0.006	0.007	0.006	0.007	0.007			
	min =	1.000	0.976	0.954	0.945	0.931	0.905	0.877			
	max =	1.000	0.994	0.982	0.974	0.954	0.930	0.903			
Ts=Tair=85°C	median =	1.000	1.000	0.990	0.989	0.980	0.970	0.964	7.5746e-06	1.0075	48,072
	average =	1.000	1.000	0.989	0.988	0.979	0.969	0.962			
	st dev =	0.000	0.006	0.007	0.008	0.008	0.011	0.009			
	min =	1.000	0.986	0.976	0.973	0.965	0.946	0.942			
	max =	1.000	1.014	1.004	1.006	0.996	0.992	0.977			
Ts=Tair=55°C	median =	1.000	1.005	1.000	1.005	1.001	0.997	0.992	2.3252e-06	1.0071	156,424
	average =	1.000	1.004	0.999	1.004	1.000	0.996	0.990			
	st dev =	0.000	0.004	0.004	0.005	0.005	0.006	0.004			
	min =	1.000	0.992	0.988	0.992	0.987	0.982	0.978			
	max =	1.000	1.010	1.005	1.011	1.007	1.006	0.997			

Delta u'v' for $I_f = 120\text{mA}$

		0hrs	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
Ts=Tair=105°C	median =	0.0000	0.0013	0.0016	0.0017	0.0020	0.0024	0.0029
	average =	0.0000	0.0013	0.0016	0.0017	0.0020	0.0024	0.0029
	st dev =	0.0000	0.0001	0.0001	0.0002	0.0002	0.0003	0.0003
	min =	0.0000	0.0012	0.0014	0.0016	0.0017	0.0020	0.0025
	max =	0.0000	0.0016	0.0018	0.0021	0.0026	0.0032	0.0038
Ts=Tair=85°C	median =	0.0000	0.0011	0.0014	0.0016	0.0019	0.0022	0.0028
	average =	0.0000	0.0011	0.0014	0.0016	0.0019	0.0022	0.0028
	st dev =	0.0000	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002
	min =	0.0000	0.0008	0.0012	0.0014	0.0017	0.0018	0.0023
	max =	0.0000	0.0012	0.0015	0.0018	0.0020	0.0025	0.0031
Ts=Tair=55°C	median =	0.0000	0.0008	0.0009	0.0011	0.0012	0.0015	0.0018
	average =	0.0000	0.0008	0.0009	0.0011	0.0012	0.0015	0.0018
	st dev =	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	min =	0.0000	0.0006	0.0007	0.0009	0.0010	0.0013	0.0015
	max =	0.0000	0.0010	0.0011	0.0013	0.0013	0.0016	0.0020

Data Set 6 : 105°C, 120mA

Test Duration used	0-6000 hrs
B	1,0107
α	2,0007E-01

Curve-fit equation:
 $\Phi(t) = B \exp(-\alpha t)$ Lumen maintenance life equation:
 $L_{70} = \ln(B/0.7)/\alpha$

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