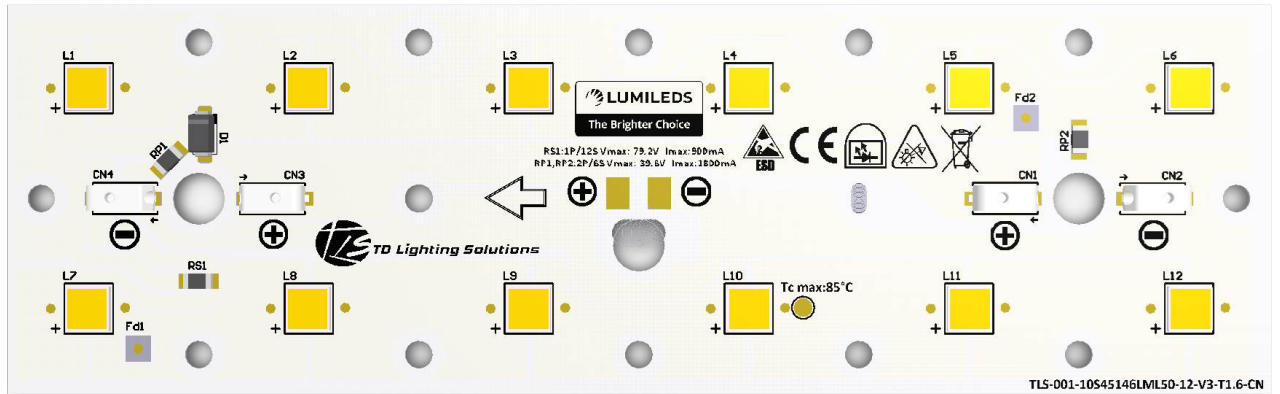


PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant current input
- This module is optional and can be connected as 12 Series 1 Parallel or 6 Series 2 Parallels.
- CCT Range from 2000°K up to 6500°K
- Luminous flux range from 6118 lm to 9948 lm
- Efficacy of the module up to 178 lm/W
- CRI 70 is standard, CRI 80 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



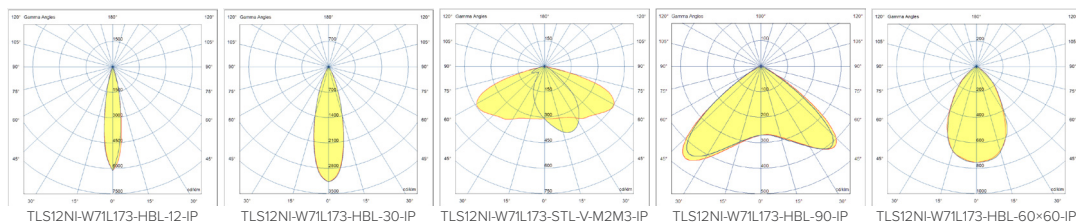
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+90 444 27 33

APPLICATIONS



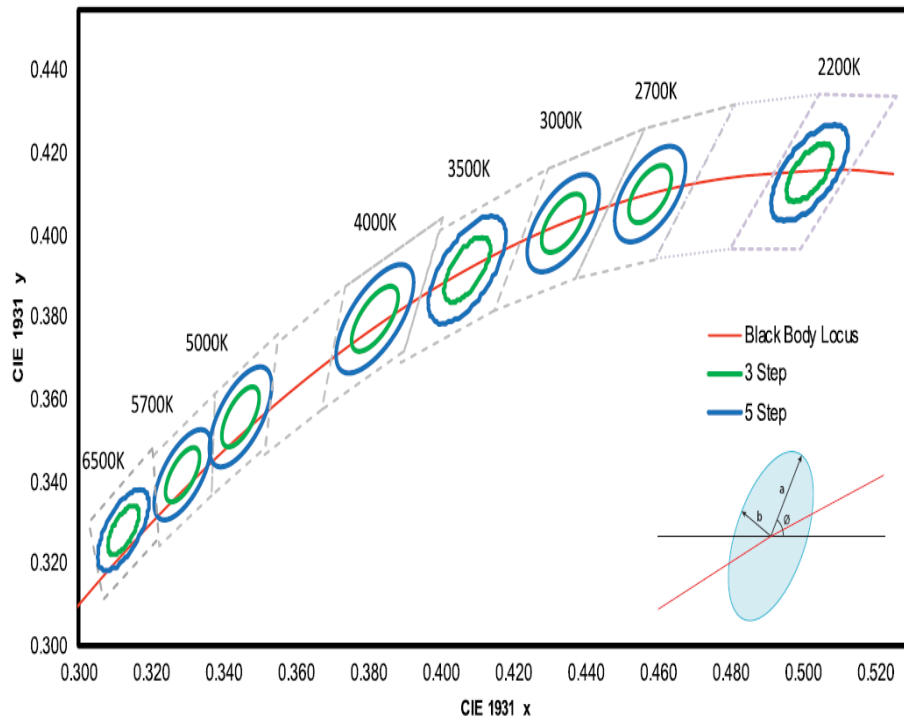
Street Lighting High Bay Lighting Tunnel Lighting Flood Lighting Underpass Lighting

PHOTOMETRY



1	2	3	4	5	6
X-ML45146LM-xx-5050-12 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	
± 0.1		± 0.1		± 0.2	
over 30 up to 120mm		over 120 up to 400mm		over 400 up to 1000mm	
± 0.3		± 0.5		± 0.8	
Stock code No	MALZEME (MATERIAL)		AGIRLIK (WEIGHT)		
Revision	XXX		XXX		
Date	16.02.2021		TLS-001-10S45146LML-12-V2-T1.6		OLÇEK / SCALE
Sheet					A4
Drawn By	Kaan ALTINTEN				
Checked By	Ibrahim OKMEN				
Approved By	Utku OZTURK				
TLS Teknoloji Sanayi ve Dis Ticaret A.S This drawing is our property. It cant be reproduced or communicated without our written agreement.					

CCT AND BINNING INFORMATION

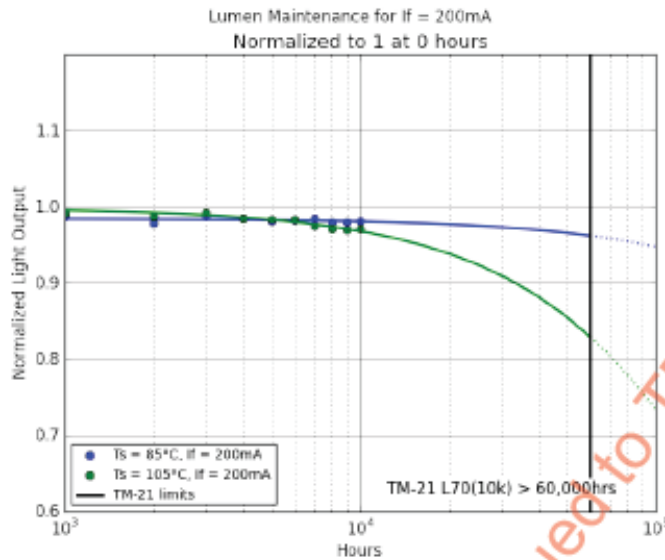


LIFE TIME

MODEL NUMBER: LM-5050

Normalized Flux Statistics for $I_f = 200\text{mA}$

	0hrs	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs	7000hrs	8000hrs	9000hrs	10000hrs	alpha	B	L70	
Ts-Tair=105°C	median -	1.0000	0.9907	0.9887	0.9931	0.9848	0.9845	0.9851	0.9776	0.9735	0.9701	0.9733			
	average -	1.0000	0.9910	0.9880	0.9928	0.9844	0.9832	0.9834	0.9756	0.9710	0.9697	0.9711	3.0971e-06	0.9886	114,705
	st dev -	0.0000	0.0067	0.0057	0.0063	0.0055	0.0059	0.0067	0.0065	0.0065	0.0078	0.0067			TM-21 L70(10k) > 60,000hrs
	min -	1.0000	0.9703	0.9694	0.9731	0.9705	0.9644	0.9674	0.9575	0.9563	0.9479	0.9528			
	max -	1.0000	1.0023	0.9989	1.0026	0.9910	0.9902	0.9921	0.9838	0.9600	0.9804	0.9787			
Ts-Tair=85°C	median -	1.0000	0.9883	0.9780	0.9885	0.9857	0.9823	0.9822	0.9849	0.9809	0.9806	0.9815			
	average -	1.0000	0.9879	0.9787	0.9880	0.9850	0.9817	0.9827	0.9846	0.9801	0.9800	0.9816	3.8436e-07	0.9846	887,624
	st dev -	0.0000	0.0049	0.0040	0.0048	0.0056	0.0052	0.0048	0.0053	0.0053	0.0055	0.0055			TM-21 L70(10k) > 60,000hrs
	min -	1.0000	0.9779	0.9721	0.9812	0.9751	0.9732	0.9728	0.9728	0.9699	0.9695	0.9707			
	max -	1.0000	0.9977	0.9888	0.9995	0.9967	0.9920	0.9912	0.9922	0.9699	0.9892	0.9901			



Delta u'v' for $I_f = 200\text{mA}$

	0hrs	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs	7000hrs	8000hrs	9000hrs	10000hrs
Ts-Tair=105°C	median -	0.0000	0.0012	0.0014	0.0012	0.0015	0.0015	0.0018	0.0019	0.0019	0.0021
	average -	0.0000	0.0012	0.0014	0.0012	0.0015	0.0015	0.0018	0.0019	0.0019	0.0021
	st dev -	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003
	min -	0.0000	0.0009	0.0011	0.0009	0.0011	0.0012	0.0014	0.0015	0.0011	0.0014
	max -	0.0000	0.0015	0.0017	0.0016	0.0018	0.0018	0.0022	0.0022	0.0023	0.0025
Ts-Tair=85°C	median -	0.0000	0.0013	0.0018	0.0017	0.0019	0.0020	0.0022	0.0022	0.0024	0.0024
	average -	0.0000	0.0013	0.0017	0.0017	0.0019	0.0020	0.0022	0.0022	0.0024	0.0024
	st dev -	0.0000	0.0001	0.0002	0.0002	0.0003	0.0003	0.0002	0.0003	0.0002	0.0003
	min -	0.0000	0.0011	0.0012	0.0014	0.0014	0.0015	0.0018	0.0017	0.0018	0.0020
	max -	0.0000	0.0015	0.0021	0.0021	0.0022	0.0026	0.0026	0.0027	0.0027	0.0028

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