LM-82-12 TEST REPORT

Applied for SASO-2927

Kunde: *Client:*	MIC Optoelectronic Co., Ltd
Adresse: *Address:*	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China
Hersteller: *Manufacturer:*	MIC Optoelectronic Co., Ltd
Adresse: *Address:*	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China
Name der Marke: *Brand Name:*	MIC
Beschreibungdes Produkts: *Product Description:*	LED Street Light
Modelle: *Models:*	MSL-F240
Bewertung: *Rating:*	AC100-277V, 50/60Hz, 240W
Verfahren: *Method:*	LM-82-12: Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature SASO 2927: 2019:Energy efficiency functionality and labelling requirements for lighting products – Part 3: Street lighting
Prüfergebnis*: *Test result*:*	/

Datum der Prüfung: *Date of Test:*	**Datum der Emission:** *Date of Issue:*	**Klassifizierung:** *Classification:*	**Gegenstand der Prüfung:** *Test item:*
17-06-2025	07-07-2025	Commission Test	LM-82-12

Prüflabor (Testlabor) / Testing Laboratory:
Shenzhen Southern LCS Compliance Testing Laboratory Ltd.
101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community,
Matian Street, Guangming District, Shenzhen, China

Prepare von/Prepare by:	**Check von/**Check by:	**Genehmigt von/**Approved by:
Seth Cai	Ian Luo	Jesse
Seth Cai/ Project Engineer	Ian Luo/ Director	Jesse Liu/ Manager

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1. Test Method

Ambient Condition.....:	24.9℃
Number of hours operated prior to Measurement ……..(h):	0h
Stabilization time ……..……(h):	1h/time
Orientation(burning position) of SSL product during test.....:	Down
Test Item.....:	Room Temperature Initial Measurement Tb =Tb,0 (67.3°C)
Test Method ……..…..…..:	The sample was tested according to the IES LM-79-2008. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25º C ±1ºC. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.
Test Item.....:	Measurement at First Elevated Temperature Tb,1 =89.8°C
Test Method.....:	The sample was tested with a device that controls the temperature Tb of the UUT. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 50º C ± 1º C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.
Test Item.....:	Measurement at Second Elevated Temperature Tb,2 =77.6 °C
Test Method.....:	The sample was tested with a device that controls the temperature Tb of the UUT, so that Tb reaches no lower than Tb,0 = 67.3°C. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 40º C ± 1º C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

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2. Product Information

Product description.....:	LED Street Light
Model Number.....:	MSL-F240
Rated Inputs.....:	AC100-277V, 50/60Hz
Rated Power.....:	240W
Declared CCT.....:	6000K
LED Manufacturer.....:	LUMILEDS
LED Model.....:	L150-6580502400000
Date of Receipt Samples.....:	June 13, 2025
Quantity of Receipt Samples.....:	1 unit

3. Test equipment list

Description	Equipment ID	Model	Calibration Date	Calibration Due Date
2m Integrating Sphere System	SLCS-S-312	HAAS2000	2025/05/27	2026/05/26
Digital Power Meter	SLCS-S-309	PF9810	2025/05/27	2026/05/26
AC Testing Power Source	SLCS-S-310	DPS1005	2025/05/27	2026/05/26
Standard Lamp	SLCS-S-313	DC24/50W	2025/06/02	2026/06/01

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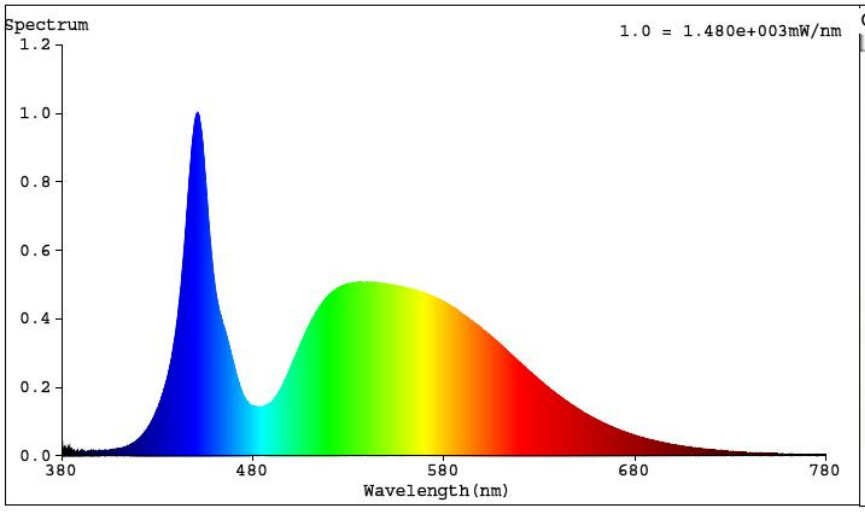
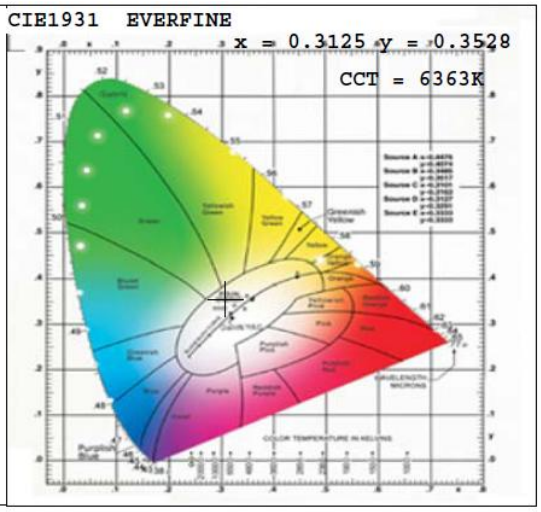
4. Test results

	Room Temperaturel Initial Measurement Tb,0	First Elevated Temperature Tb,1 =89.8°C	Second Elevated Temperature Tb,2 =77.6°C
Ambient (ºC)	**24.9**	**50.1**	**40.2**
Measured Temperature of Tb (°C)	**67.3**	**89.8**	**77.6**
Input Power (W)	**242.8**	**241.8**	**242.2**
Input Voltage (V)	**230.05**	**230.01**	**230.01**
Input Current (A)	**1.098**	**1.095**	**1.096**
Luminous Flux (lm)	**42858**	**42731**	**42835**
Luminous Efficacy (lm/W)	**176.52**	**176.72**	**176.86**
CIE Chromaticity (u')	**0.1891**	**0.1892**	**0.1892**
CIE Chromaticity (v')	**0.4805**	**0.4797**	**0.4800**
Correlated Color Temperature (CCT)	**6363**	**6395**	**6385**

5. Spectrum





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6. Photo of sample

Photo document
Photos of MSL-F240

----- End of test report -----

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