

TEST REPORT

LED Street Light

Test Model: AOK-50WiLH-NV-A5-00-4080-T2-A

Report Number : LCSB02256028S

Applicant : AOK Industrial Company Limited
1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial

Address : Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA

Manufacturer : AOK Industrial Company Limited
1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial

Address : Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA

Prepared by : Shenzhen Southern LCS Compliance Testing Co., Ltd.
Address : 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Date of receipt sample : April 28, 2025
Date of test : April 29, 2025 to January 26, 2026
Date of issue : March 11, 2026

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full. without prior written permission of the company, The report would be invalid without specific stamp of test institute and the signatures of approver.



TEST REPORT

Testing Laboratory.....:	Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China	
Test Specification:		
Standard.....:	IES LM-84-14: Approved Method for Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires	
Test item description.....:	LED Street Light	
Trademark.....:		
Test Model/Type.....:	AOK-50WiLH-NV-A5-00-4080-T2-A	
Rating.....:	AC120-277V, 50/60Hz, 50W	
Test Results	Please see the following test data	
Prepare by.....:	Seth Cai (Project Engineer)	<i>Seth Cai</i>
Check by.....:	Ian Luo (Director)	<i>Ian Luo</i>
Approved by	Jesse Liu (Manager)	<i>Jesse Liu</i>
Test Report Form No.....:	TRF-4-S-126 A/0	
TRF Originator.....:	Shenzhen Southern LCS Compliance Testing Co., Ltd.	
Master TRF.....:	/	

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1. Test Method

1.1 Photometric and Electrical Measurement

Test Standard.....: IES LM-79-08:Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

Ambient Condition: 24.5°C

Stabilization time: 33 min

Orientation(burning position) of SSL product during test: 5 base-up and 5 base-down

Test Method: 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. Lumen output, Lamp efficacy, 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. Input power, Power factor, Voltage, Current, were calculated from the digital power meter.

1.2 Luminous Flux and Color Maintenance Measurement

Test Standard.....: IES LM-84: Approved Method: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires

Ambient Condition: 50°C / 60%RH

Orientation(burning position) of SSL product during test: 5 base-up and 5 base-down

Test Method: Season the LED Lamp from 0 hours to 6000 hours. The sample are operated steady state (no cycling) for a period of 6000 hours. The samples are inspected at regular intervals (24 hours) throughout the 6000 hours. The time and date of failure of each lamp is recorded. The actual elapsed time for each light package is in hour.

1.3 In-Situ Temperature Measurement Test (ISTMT)

Test Standard.....: Maximum led source operating temperature measurements were taken on one test sample per model with a thermocouple and temperature meter. The SSL sample was allowed to reach thermal equilibrium for at least 3 hours before measurements were taken. Led source temperature was measured at the point as indicated by the included diagram in accordance with manufacturers declared hot spot location. The maximum temperature was recorded for the sample.

Remarks.....:	The general information of applicant and manufacturer (such as the name and address), product name, model/type reference, trademark and other similar information contained in this report are all provided by the applicant, the laboratory is not responsible for verifying its authenticity.		
REVISION HISTORY			
Revision	Issue Date	Revision Content	Revised by
000	March 11, 2026	Initial Issue	Seth Cai

Remark:
000) : “---”
Original Test Report “LCSB04285098S” dated January 27, 2026.

Modify item:

Applicant/Manufacturer: AOK Industrial Company Limited

Address: 1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George’ s Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA



Trademark:

Model: AOK-50WiLH-NV-A5-00-4080-T2-A

This co-license test report is based on the test raw-data of original test report, after construction/information review and verification, no additional tests were considered necessary.

2. Product Information

Product description.....:	LED Street Light
Model Number.....:	AOK-50WiLH-NV-A5-00-4080-T2-A
Rated Inputs.....:	AC120-277V
Rated Power.....:	50W
Declared CCT.....:	4000K
Date of Receipt Samples.....:	April 28, 2025
Quantity of Receipt Samples.....:	10 unit

3. Test equipment list

Manufacturer	Description	Equipment ID	Model	Calibration Date	Calibration Due Date
EVERFINE	Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2025/05/27	2026/05/26
EVERFINE	Digital Power Meter	SLCS-S-103	PF2010	2025/05/27	2026/05/26
EVERFINE	AC Testing Power Source	SLCS-S-115	DPS1060	2025/05/27	2026/05/26
EVERFINE	Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2025/06/02	2026/06/01
EVERFINE	2 Meter Integrating Sphere	SLCS-S-312	HAAS2000	2025/05/27	2026/05/26
EVERFINE	Digital Power Meter	SLCS-S-309	PF9810	2025/05/27	2026/05/26
EVERFINE	AC Testing Power Source	SLCS-S-310	DPS1005	2025/05/27	2026/05/26
EVERFINE	DC Testing Power Source	SLCS-S-311	WY605	2025/05/27	2026/05/26
OSRAM	Standard Lamp	SLCS-S-313	DC24V/50W	2025/06/02	2026/06/01

4. Test results

Table 1: Functionality Requirements

Sample No.	Power (W)	luminous efficacy (lm/w)	Starting time (s)	Power Factor	Beam angle (°)	Color Temp (CCT)	Color rendering (Ra)	SDCM
1	50.03	170.53	0.152	0.983	119.3	3942	81.6	3.7
2	49.92	172.51	0.147	0.981	118.6	3968	81.8	4.0
3	50.16	169.48	0.156	0.984	119.1	3955	81.5	4.3
4	50.28	170.81	0.151	0.986	118.4	3977	82.0	4.6
5	49.82	171.46	0.144	0.986	118.7	3913	81.7	3.8
6	49.76	168.94	0.149	0.987	119.3	3939	82.2	4.1
7	49.91	170.92	0.158	0.987	119.0	3970	81.4	4.5
8	50.33	171.46	0.150	0.989	118.2	3988	81.8	4.8
9	50.06	168.12	0.143	0.988	118.8	3940	82.3	4.4
10	49.88	169.08	0.162	0.980	119.2	3946	81.9	3.9
Avg.	50.02	170.33	0.151	0.985	118.9	3954	81.8	4.2

Table 2: Survival Factor and Lumen Maintenance

Sample No.	Switching Cycle	Initial Luminous Flux (lm)	Premature Failure Rate 1000h	Survival factor at 6000h	Luminous Flux at 6000h	Lumen Maintenance at 6000h (%)
1	15000	8531.64	P	P	8098.23	94.92%
2	15000	8611.70	P	P	8245.70	95.75%
3	15000	8501.12	P	P	8086.26	95.12%
4	15000	8588.33	P	P	8124.56	94.60%
5	15000	8542.14	P	P	8098.80	94.81%
6	15000	8406.45	P	P	7992.86	95.08%
7	15000	8530.62	P	P	8148.45	95.52%
8	15000	8629.58	P	P	8238.66	95.47%
9	15000	8416.09	P	P	7943.94	94.39%
10	15000	8433.71	P	P	8067.69	95.66%
Avg.	15000	8519.14	P	P	8104.52	95.13%

5. Photo of sample

Photo document

Photos of AOK-50WILH-NV-A5-00-4080-T2-A



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