

TEST REPORT

LED Street Light

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

Report Number : LCSB02256026S

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 : January 22, 2026
Date of test : January 23, 2026 to January 27, 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.....:	ANSI/IES LM-79-19: Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products	
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-123 A/0	
TRF Originator.....:	Shenzhen Southern LCS Compliance Testing Co., Ltd.	
Master TRF..... :	/	
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1. Test Method

Test Item.....:	Integrating Sphere Test
Ambient Condition	25.2°C
Stabilization time	32 min
Orientation(burning position) of SSL product during test	down
Test Method	The sample was tested according to the ANSI/IES LM-79-19. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. 4π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then 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.....:	Goniophotometer Test
Ambient Condition.....:	24.5°C
Stabilization time	33 min
Orientation(burning position) of SSL product during test	down
Test Method.....:	The sample was tested according to the ANSI/IES LM-79-19. Photometric paramters were measured using a type C goniophotometer and software. The sample reference plane was located at the center of the sample goniometer at a test distance of 26m from the detectors. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5°horizontal intervals.

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.
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REVISION HISTORY

Revision	Issue Date	Revision Content	Revised by
000	March 11, 2026	Initial Issue	Seth Cai

Remark:

000) : “---”

Original Test Report “LCSB04285096S” dated January 28, 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.....:	January 22, 2026
Quantity of Receipt Samples.....:	1 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

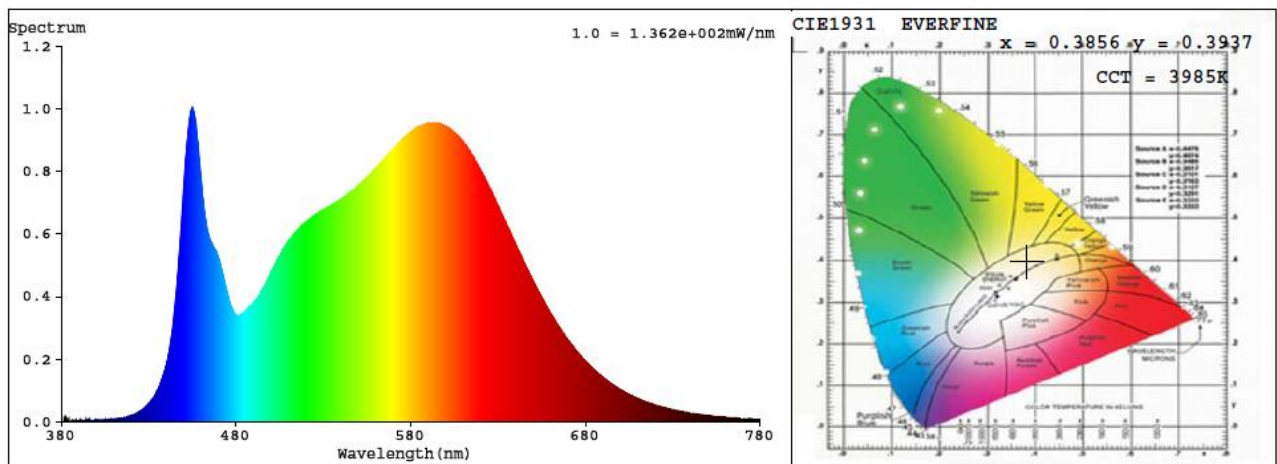
4. Integrating Sphere Test Results

4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.09	59.98	0.2222	0.9826	50.24

Test type	CCT (K)	CRI	Duv	Luminous flux (lm)	Luminous efficacy(lm/W)
Output	3985	81.7	6.23e-03	8544.0	170.06

4.2 Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3856$ $y = 0.3937$ / $u' = 0.2219$ $v' = 0.5096$ ($duv=6.23e-03$)

CCT= 3985K Prcp WL: $L_d=576.3nm$ Purity=33.9%

Peak WL: $L_p=455nm$ FWHM: $=24.0nm$ Ratio: R=17.8% G=78.2% B=3.9%

Render Index: $R_a = 81.7$ TM30: $R_f=83$ $R_g=90$

R1 =79 R2 =90 R3 =96 R4 =78 R5 =79 R6 =87 R7 =84
 R8 =60 R9 =-2 R10=77 R11=77 R12=58 R13=82 R14=98 R15=71
 LEVEL:OUT

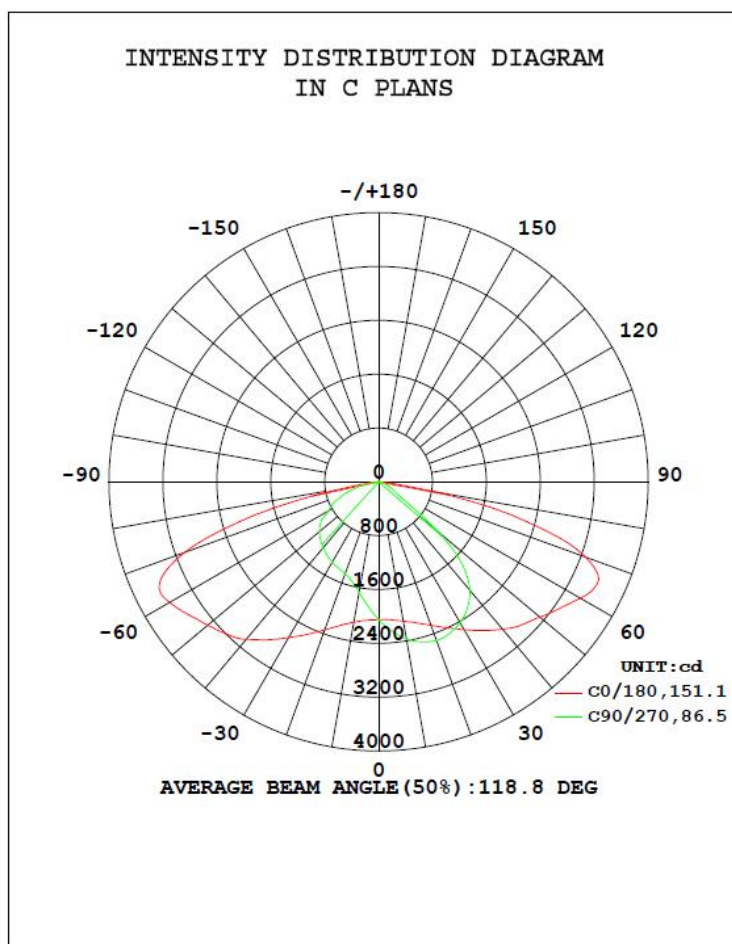
5. Goniophotometer Test results

5.1 Test Data

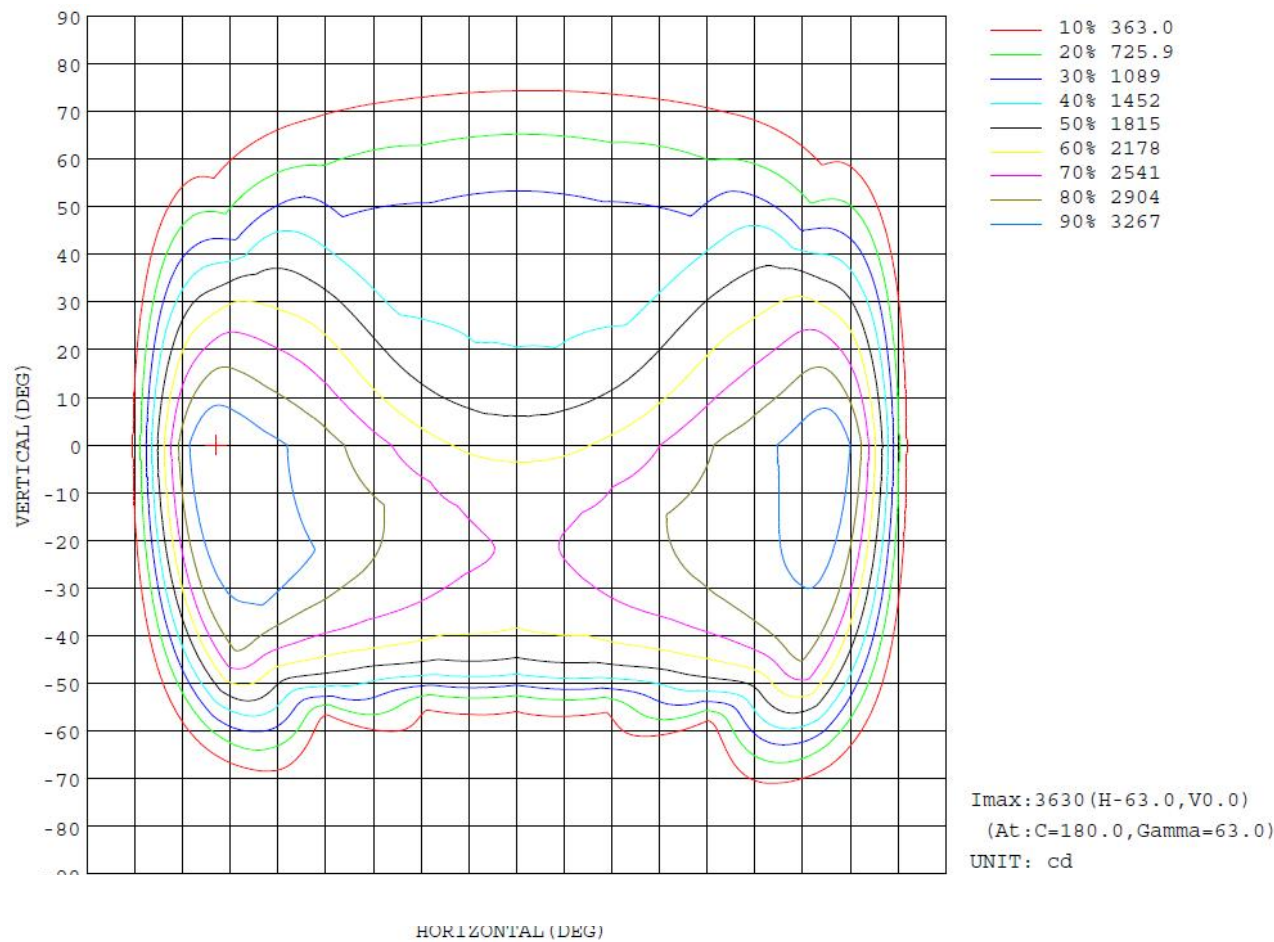
Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.2	60.01	0.2208	0.9826	49.94

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	Imax (cd)	Spacing Criteria (0~180°)	Spacing Criteria (90~270°)
Output	8513.71	170.47	3632	N/A	N/A

5.2 Luminous Intensity Distribution Diagram



5.3 Isocandela Diagram



5.4 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048			
5	2059	2128	2181	2211	2223	2214	2185	2134	2067	1990	1917	1869	1851	1865	1915	1985			
10	2102	2226	2314	2352	2368	2362	2326	2249	2118	1953	1797	1702	1668	1692	1787	1940			
15	2169	2347	2440	2459	2461	2473	2468	2392	2210	1939	1699	1571	1532	1558	1679	1916			
20	2269	2486	2549	2523	2509	2543	2592	2558	2340	1947	1623	1483	1455	1470	1600	1910			
25	2392	2630	2634	2538	2488	2566	2694	2729	2500	1989	1556	1436	1415	1423	1534	1922			
30	2536	2781	2689	2504	2415	2523	2749	2901	2674	2056	1499	1399	1379	1389	1480	1964			
35	2698	2923	2711	2417	2297	2422	2751	3052	2865	2140	1461	1355	1332	1347	1439	2023			
40	2858	3041	2672	2270	2105	2255	2704	3173	3055	2225	1414	1301	1279	1293	1397	2088			
45	3004	3132	2565	2035	1779	1997	2585	3251	3197	2282	1351	1238	1222	1233	1337	2136			
50	3128	3185	2384	1591	1152	1504	2387	3308	3315	2262	1257	1150	1148	1151	1252	2142			
55	3279	3201	2080	744	415	647	2011	3321	3441	2157	1144	1042	1051	1048	1146	2083			
60	3458	3188	1551	297	266	278	1401	3275	3582	1953	1017	856	860	881	1025	1965			
65	3581	3132	551	201	180	189	346	3152	3590	1475	824	714	730	728	868	1647			
70	3268	2825	170	117	93.3	106	155	2569	3064	846	582	531	549	545	620	979			
75	2262	1760	93.8	50.5	36.1	43.8	76.8	1329	1902	399	336	318	336	338	383	507			
80	803	505	28.7	9.23	6.11	6.60	17.2	255	438	129	139	123	90.7	147	174	181			
85	60.6	30.0	4.86	1.95	1.49	1.36	2.71	10.4	26.9	33.9	36.1	24.5	22.8	30.4	45.7	50.3			
90	6.58	5.72	1.56	0.30	0.00	0.10	0.43	3.58	4.52	3.51	0.58	0.38	0.19	1.77	0.58	2.98			
95	3.95	2.81	0.78	0.10	0.00	0.00	0.31	1.75	3.98	2.42	0.64	0.00	0.00	0.10	0.63	2.75			
100	3.57	2.11	0.69	0.10	0.00	0.00	0.29	1.36	4.14	3.48	0.68	0.00	0.00	0.00	0.67	3.38			
105	3.59	2.00	0.71	0.10	0.00	0.00	0.32	1.41	4.82	4.44	1.26	0.10	0.00	0.10	1.07	4.05			
110	3.61	2.00	0.73	0.10	0.10	0.00	0.35	1.45	4.97	4.80	2.04	0.30	0.19	0.39	1.94	5.02			
115	3.63	2.01	0.75	0.19	0.16	0.09	0.38	1.83	5.11	4.73	2.72	0.88	0.58	0.78	2.62	5.21			
120	3.65	2.02	0.76	0.58	0.46	0.29	0.58	2.03	5.01	4.65	3.23	1.65	1.08	1.26	3.10	5.21			
125	3.95	2.22	0.97	1.07	1.12	0.70	0.97	2.55	4.62	4.63	3.37	1.96	1.47	1.45	3.29	5.21			
130	4.62	2.80	1.55	1.73	1.52	1.26	1.55	2.94	3.95	4.25	3.68	2.72	2.05	2.33	3.87	5.21			
135	4.87	3.09	1.78	1.66	1.71	1.55	1.62	3.04	4.00	4.25	3.70	3.50	3.03	3.30	4.14	5.21			
140	4.97	3.38	2.32	2.33	2.14	2.03	1.94	3.47	4.06	4.32	3.93	4.14	3.90	3.98	4.46	5.21			
145	5.03	3.76	2.81	2.77	2.63	2.32	2.32	3.47	4.14	4.44	4.46	4.87	4.49	4.56	5.41	5.21			
150	5.07	4.44	3.39	3.17	3.12	2.81	3.00	3.47	4.53	4.93	5.14	5.45	5.26	5.93	6.37	5.21			
155	5.12	4.60	3.69	3.50	3.12	3.08	3.29	3.57	5.11	5.31	5.82	5.87	6.14	7.90	7.33	5.21			
160	5.16	4.70	4.17	3.70	3.70	3.49	3.42	3.95	5.60	5.63	5.92	5.95	6.63	9.87	8.29	5.21			
165	5.23	4.81	4.56	4.38	4.09	3.88	3.97	4.53	5.69	5.77	6.01	6.03	7.13	11.8	9.25	5.21			
170	5.82	5.41	5.13	4.96	4.77	4.65	4.65	4.85	5.78	5.89	6.08	6.11	7.62	13.8	10.2	5.21			
175	6.14	6.18	6.11	5.73	5.65	5.33	5.32	5.40	6.36	6.57	6.10	6.19	8.11	15.8	11.2	5.21			
180	6.26	6.18	6.21	6.32	6.23	6.01	5.52	5.40	6.26	8.04	6.11	6.22	8.60	17.7	12.1	5.21			

6. Photo of sample

Photo document

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



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