

TEST REPORT

LED Street Light

Test Model: AOK-110WiLH-NV-A5-00-4080-T2-A

Report Number : LCSB02256030S

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-110WiLH-NV-A5-00-4080-T2-A	
Rating..... :	AC120-277V, 50/60Hz, 110W	
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	25.1°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 parameters 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 “LCSB04285082S” 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-110WiLH-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-110WiLH-NV-A5-00-4080-T2-A
Rated Inputs.....:	AC120-277V
Rated Power.....:	110W
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

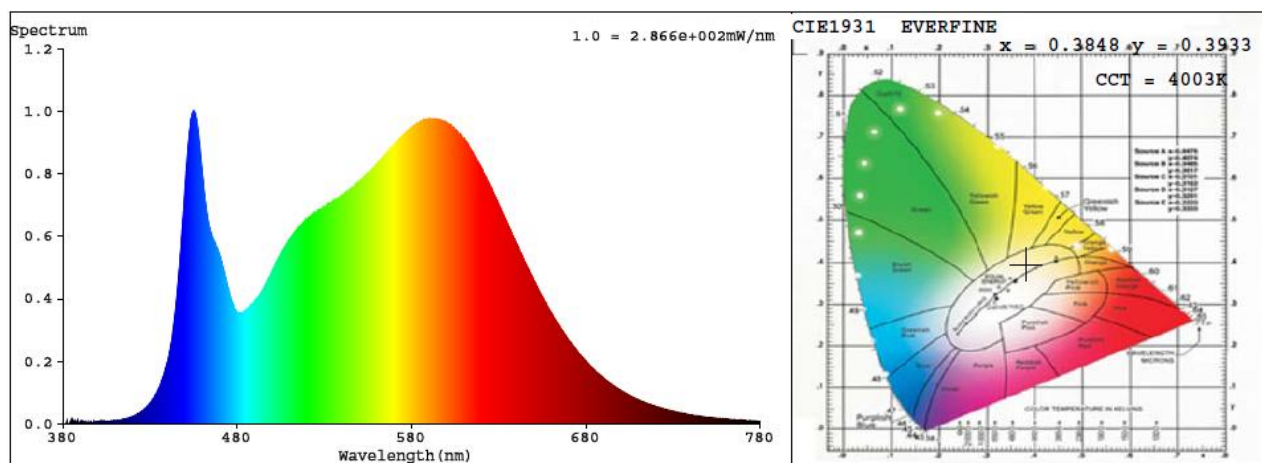
4. Integrating Sphere Test Results

4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.98	59.98	0.4906	0.9678	109.2

Test type	CCT (K)	CRI	Duv	Luminous flux (lm)	Luminous efficacy(lm/W)
Output	4003	81.7	6.29e-03	18487	169.29

4.2 Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3848$ $y = 0.3933$ / $u' = 0.2215$ $v' = 0.5093$ ($duv=6.29e-03$)

CCT= 4003K Prcp WL: $L_d=576.2nm$ Purity=33.5%

Peak WL: $L_p=455nm$ FWHM: $=25.0nm$ Ratio:R=17.8% G=78.3% B=3.9%

Render Index: $R_a = 81.7$ TM30:Rf=83 Rg=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

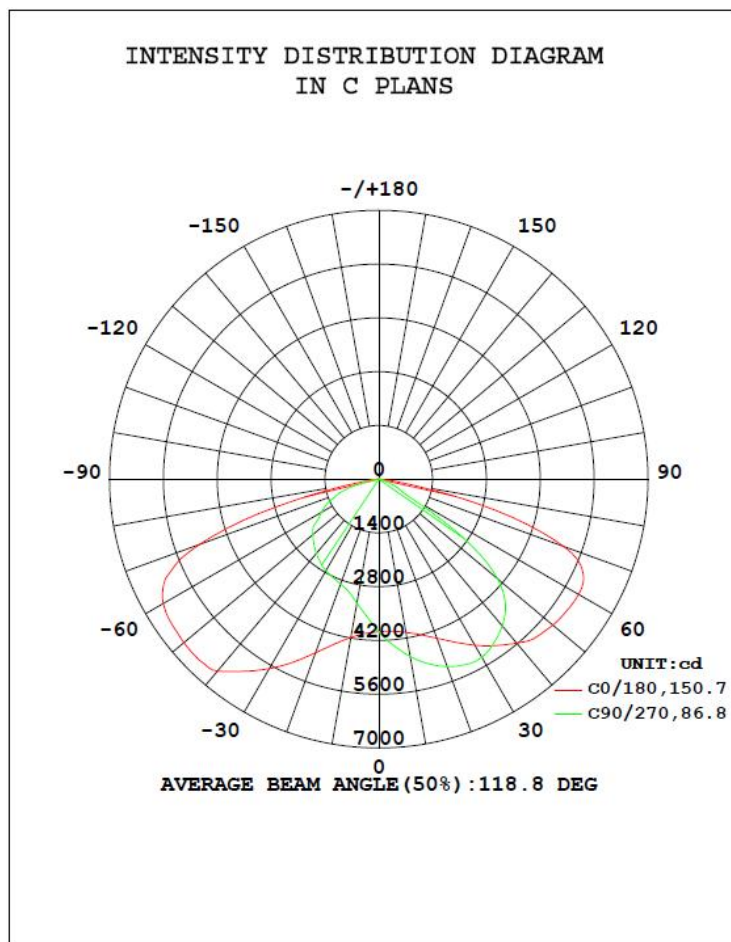
5. Goniophotometer Test results

5.1 Test Data

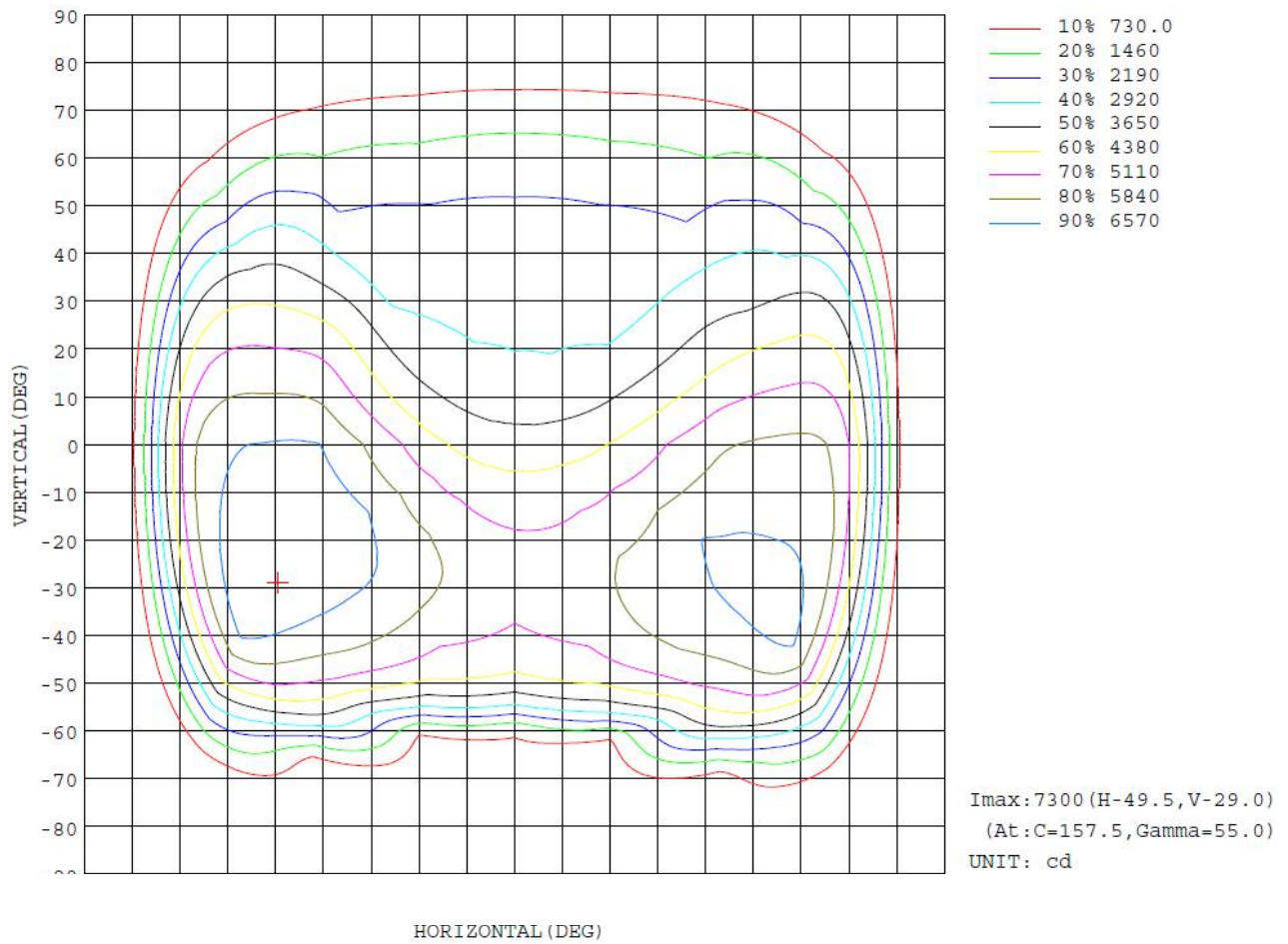
Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.2	60.01	0.4870	0.9672	108.4

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	I _{max} (cd)	Spacing Criteria (0~180°)	Spacing Criteria (90~270°)
Output	18317.8	168.96	7312	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) Y (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	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974			
5	3974	4121	4236	4315	4343	4329	4281	4173	4032	3878	3729	3631	3590	3613	3689	3822			
10	4051	4335	4516	4635	4682	4680	4625	4460	4183	3841	3536	3353	3278	3317	3463	3726			
15	4194	4592	4821	4926	4975	5016	5017	4837	4440	3866	3395	3129	3033	3077	3286	3678			
20	4406	4912	5144	5157	5193	5294	5416	5278	4807	3957	3268	2973	2908	2925	3136	3677			
25	4682	5266	5455	5355	5328	5521	5787	5754	5253	4112	3122	2885	2827	2835	2985	3717			
30	4988	5631	5752	5471	5357	5645	6143	6233	5696	4328	3031	2807	2751	2759	2890	3760			
35	5290	6033	5984	5442	5212	5570	6365	6735	6107	4592	2962	2714	2650	2665	2803	3807			
40	5574	6408	6109	5320	4992	5365	6392	7108	6523	4833	2892	2603	2525	2552	2715	3860			
45	5806	6639	6132	5084	4659	5081	6290	7222	6631	4896	2766	2457	2388	2423	2598	3885			
50	5906	6826	5975	4699	4028	4579	6062	7283	6615	4695	2546	2279	2243	2273	2427	3802			
55	5970	6926	5658	3841	2737	3539	5608	7312	6574	4402	2327	2080	2028	2087	2238	3612			
60	5996	6994	5048	2127	888	1569	4821	7215	6472	3993	2098	1704	1721	1721	2019	3329			
65	5866	6846	4099	604	539	560	3626	6729	6120	3308	1685	1447	1474	1473	1653	2907			
70	5114	5809	2506	369	302	329	1539	5213	4959	2222	1288	1083	1122	1108	1305	2175			
75	3165	3479	540	169	116	142	265	2826	2709	1124	785	674	659	709	858	1267			
80	881	1140	128	40.4	24.6	28.5	78.0	567	633	390	332	266	197	285	417	502			
85	127	91.5	17.0	8.23	6.02	6.03	11.3	38.6	82.1	84.9	77.9	57.3	52.5	64.9	97.4	128			
90	10.8	12.4	6.33	1.48	1.06	0.98	2.76	9.04	9.11	5.82	3.14	3.05	1.36	1.97	7.40	7.45			
95	6.49	6.33	3.16	1.22	1.00	0.95	1.47	4.62	7.32	6.02	3.15	1.48	0.81	1.57	3.80	6.36			
100	6.24	4.44	2.46	1.31	1.19	1.07	1.41	3.34	7.36	8.00	4.14	1.15	0.72	1.20	3.43	7.56			
105	6.19	4.40	2.36	1.40	1.38	1.18	1.45	3.34	8.82	10.1	5.43	1.48	0.89	1.18	5.01	9.43			
110	6.82	4.48	2.51	1.38	1.57	1.37	1.64	3.62	10.3	11.4	7.20	3.26	1.68	2.65	6.77	11.7			
115	7.06	4.83	2.66	1.80	1.71	1.47	1.95	4.61	10.7	12.1	8.47	5.03	3.25	4.13	8.34	12.8			
120	7.74	4.83	3.05	2.17	2.22	1.76	2.25	4.71	10.6	12.1	8.96	6.31	4.73	5.18	10.1	13.3			
125	8.72	5.62	3.45	3.15	3.05	2.55	2.94	5.39	9.61	11.2	8.94	6.73	5.81	5.60	10.3	12.7			
130	9.61	6.60	4.42	3.84	3.74	3.14	3.45	6.22	8.63	9.46	8.91	8.39	7.00	7.77	10.4	12.4			
135	10.5	7.20	4.92	4.63	4.62	4.02	3.92	6.28	8.29	9.18	8.89	9.17	8.57	9.43	10.6	12.1			
140	11.5	8.48	6.20	6.10	5.61	5.20	4.99	7.55	8.23	9.23	8.87	9.71	9.31	9.87	10.9	11.9			
145	12.6	9.43	7.18	6.70	6.30	6.08	6.08	7.87	8.63	9.28	9.66	10.7	10.3	10.6	11.6	12.2			
150	12.6	9.86	8.27	7.39	6.89	6.58	6.86	7.97	9.31	9.97	10.7	11.4	11.8	12.1	12.6	12.6			
155	12.6	10.4	9.38	7.98	7.67	7.17	7.65	8.14	10.3	10.8	11.6	12.7	12.6	13.2	13.4	12.5			
160	12.3	10.8	9.52	8.67	8.07	7.95	8.09	8.88	11.3	11.3	11.9	12.8	12.7	13.2	13.9	12.0			
165	12.3	11.0	10.1	9.66	9.15	8.54	8.72	9.51	11.5	11.6	12.1	13.0	12.7	13.2	14.4	11.5			
170	12.6	12.0	11.4	10.9	10.4	10.1	10.1	10.5	11.7	11.8	12.2	13.1	12.8	13.2	14.9	11.0			
175	13.4	12.9	12.7	12.5	12.5	11.8	11.5	11.7	13.0	12.9	12.2	13.3	12.9	13.2	15.4	10.5			
180	13.9	13.2	13.3	12.7	12.6	12.7	12.3	12.6	14.3	13.9	12.2	13.3	12.9	13.3	15.9	9.99			

6. Photo of sample

Photo document

Photos of AOK-110WiLH-NV-A5-00-4080-T2-A



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