

TEST REPORT

LED STREET LIGHT

Test Model: AOK-150WiLH-NV-A5-00-4070-T252-P

Report Number : LCSB02026086S

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 : February 06, 2026
Date of test : February 07, 2026 to February 10, 2026
Date of issue : February 10, 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-150WiLH-NV-A5-00-4070-T252-P	
Rating.....:	AC220-240V, 50/60Hz, 150W	
Test Results	Please see the following test data	
Prepare by.....:	Zero Huang (Project Engineer)	<i>Zero Huang</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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Table of Contents

1. Test Method	4
2. Product Information	5
3. Test equipment list	5
4. Integrating Sphere Test Results	6
4.1 Test Data	6
4.2 Spectrum	6
4.3 IES TM-30-18 Color Rendition Result	7
5. Goniophotometer Test results	8
5.1 Test Data	8
5.2 Luminous Intensity Distribution Diagram	8
5.3 Zonal Flux Diagram	9
5.4 Isocandela Diagram	9
5.5 Luminous Distribution Intensity Data	10
6. Photo of sample	11

1. Test Method

Test Item.....:	Integrating Sphere Test
Ambient Condition	25.3°C
Stabilization time	32 min
Orientation(burning position) of SSL product during test	down
Test Method	<p>The sample was tested according to the ANSI/IES LM-79-19.</p> <p>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.</p>
Test Item.....:	Goniophotometer Test
Ambient Condition.....:	24.5°C
Stabilization time	32 min
Orientation(burning position) of SSL product during test	down
Test Method.....:	<p>The sample was tested according to the ANSI/IES LM-79-19.</p> <p>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.</p>

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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2. Product Information

Product description.....:	LED STREET LIGHT
Model Number.....:	AOK-150WiLH-NV-A5-00-4070-T252-P
Rated Inputs.....:	AC220-240V
Rated Power.....:	150W
Declared CCT.....:	4000K
LED Manufacturer.....:	Shenzhen Tongyifang Opto-electronic Tech-nology Co., Ltd.
LED Model.....:	TS1-H50YL-1001BB
Forward current of the LED chip.....:	100mA
Date of Receipt Samples.....:	February 06, 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

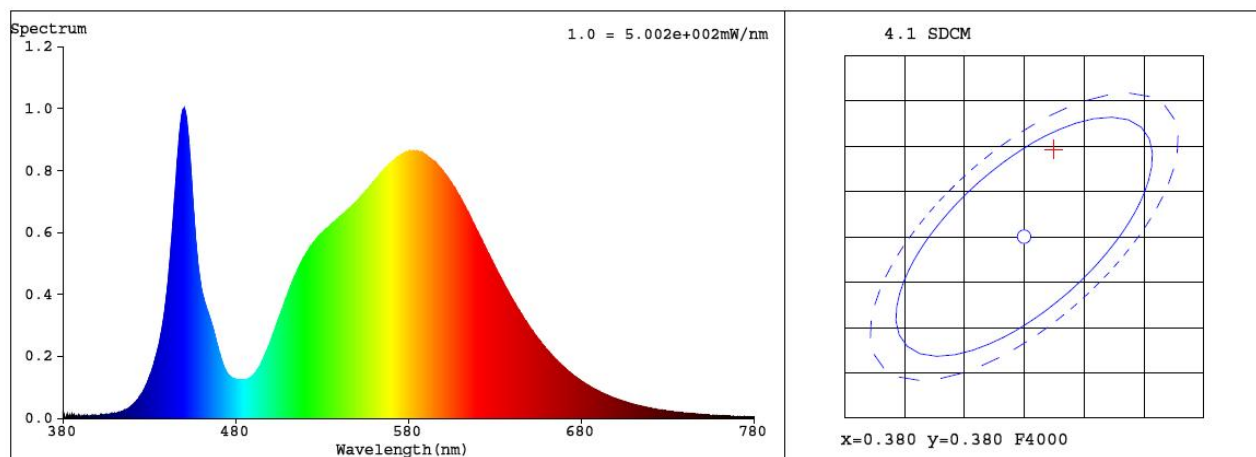
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.94	50.0	0.6649	0.9857	150.7

Luminous flux (lm)	Luminous efficacy(lm/W)	CCT (K)	x	y	u'	v'
27759	184.20	4038	0.3825	0.3897	0.2214	0.5074

Duv	CRI	R9	Rf	Rg	IES Rcs	SDCM
5.34e-03	70.3	-47	75	90	-20%	4.1

4.2 Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3825$ $y = 0.3897$ / $u' = 0.2214$ $v' = 0.5074$ ($duv=5.34e-03$)

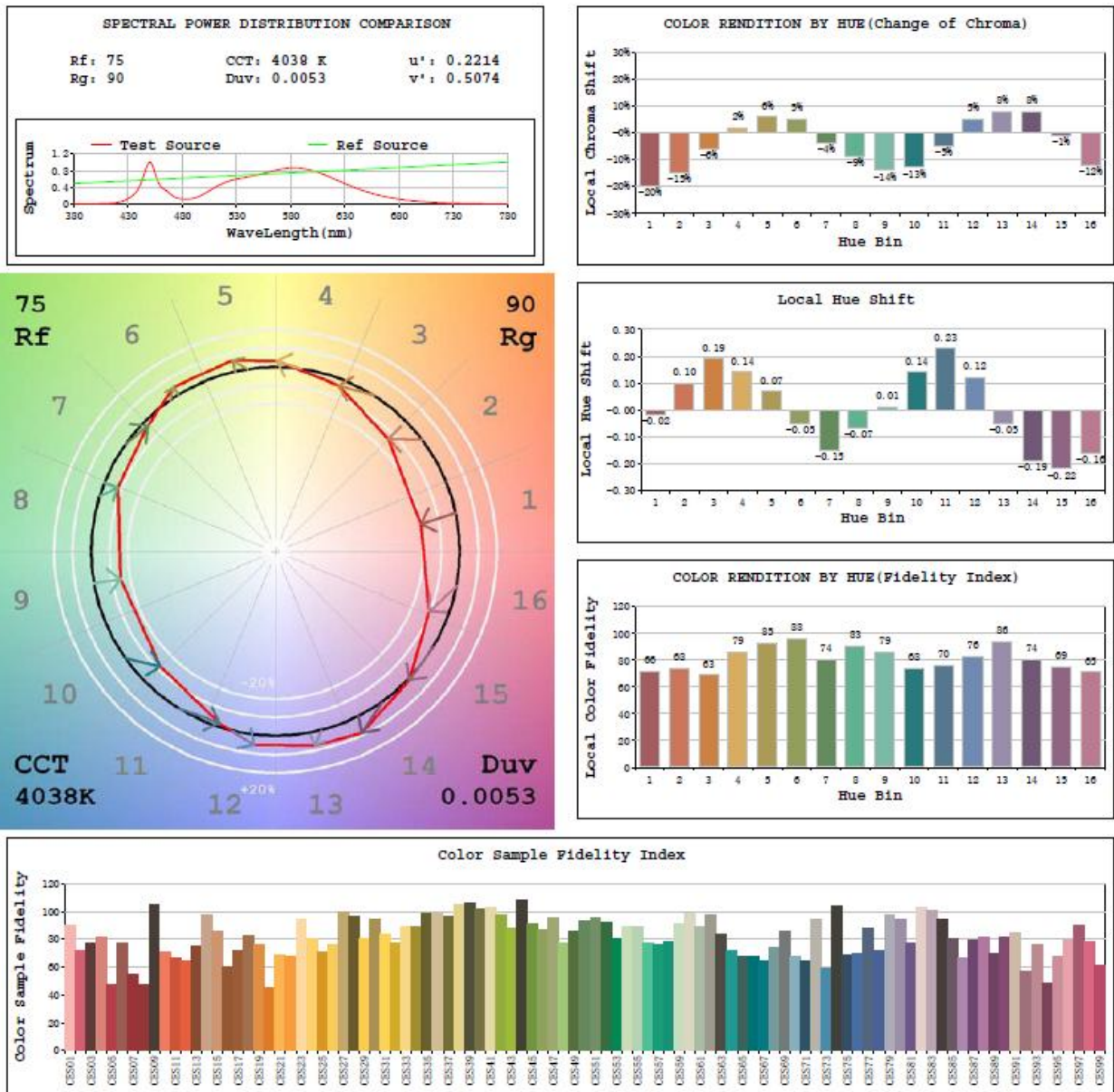
CCT= 4038K Prcp WL: $L_d=576.4nm$ Purity=31.7%

Peak WL: $L_p=450nm$ FWHM: $=16.5nm$ Ratio:R=16.0% G=81.6% B=2.5%

Render Index: $R_a = 70.3$ TM30:Rf=75 Rg=90

R1 =66 R2 =78 R3 =88 R4 =69 R5 =66 R6 =69 R7 =80
 R8 =47 R9 =-47 R10=48 R11=64 R12=38 R13=68 R14=94 R15=58
 LEVEL:OUT

4.3 IES TM-30-18 Color Rendition Result



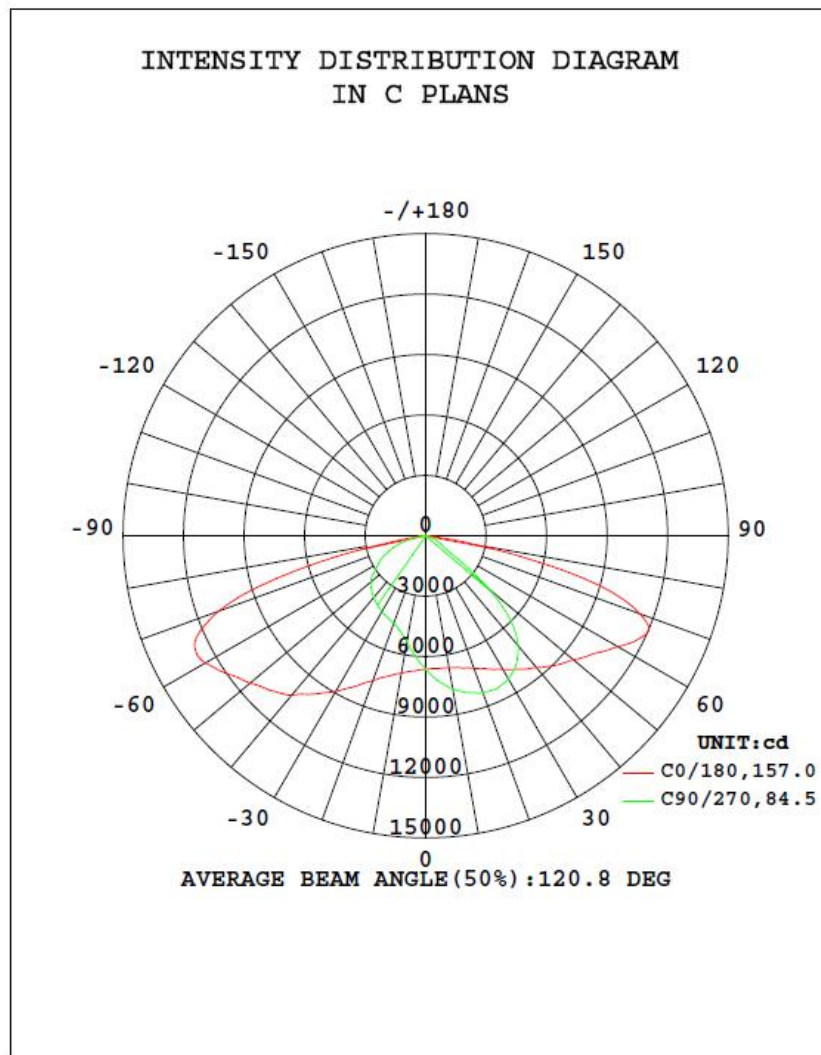
5. Goniophotometer Test results

5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.1	50.01	0.6641	0.9858	150.6

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	Imax (cd)	ZL (0~90°)	ZL (80~90°)
Output	27766.8	184.36	12771	99.8%	0.6%

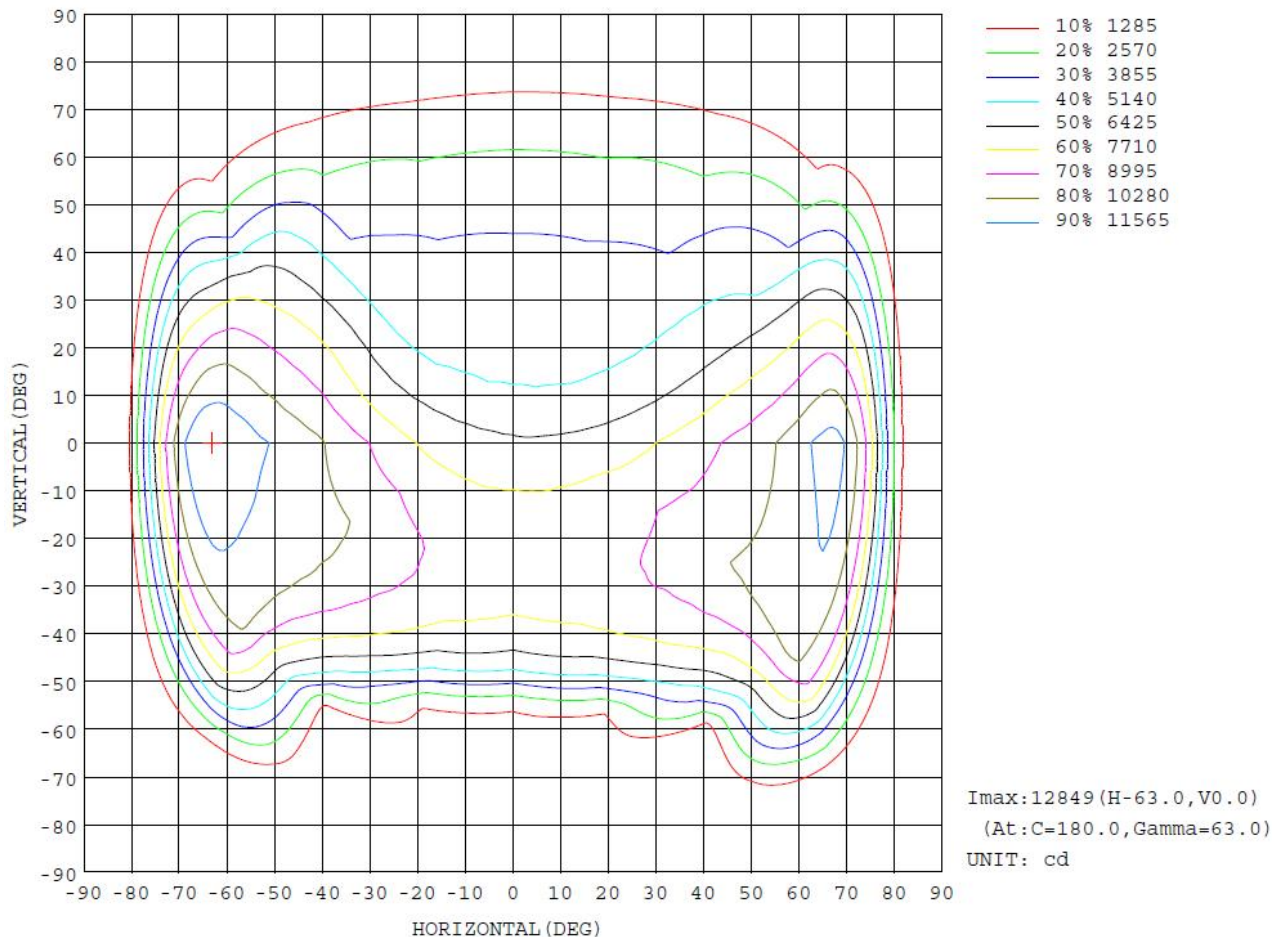
5.2 Luminous Intensity Distribution Diagram



5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	$\%lum, lamp$
10	666.1	744.9	772.4	760.2	692.1	585.7	536.3	570.7	0- 10	634.4	634.4	2.28,2.28
20	699.9	819.4	829.6	850.5	764.1	525.2	462.6	501.4	10- 20	1909	2543	9.16,9.16
30	767.3	873.7	820.5	917.0	891.8	482.2	434.2	460.0	20- 30	3217	5761	20.7,20.7
40	855.1	887.1	713.6	912.1	1032	451.9	399.3	431.0	30- 40	4468	10229	36.8,36.8
50	957.4	805.7	403.8	785.2	1138	400.3	354.3	384.9	40- 50	5336	15565	56.1,56.1
60	1101	516.6	95.58	373.9	1262	323.2	268.1	315.1	50- 60	5234	20799	74.9,74.9
70	1130	63.61	36.62	51.71	1092	186.1	174.0	196.0	60- 70	4445	25244	90.9,90.9
80	256.7	13.01	3.715	7.408	152.4	40.26	28.05	58.10	70- 80	2291	27535	99.2,99.2
90	2.366	0.6529	0.1393	0.1988	2.074	0.3819	0.3077	0.5026	80- 90	169.0	27704	99.8,99.8
100	1.333	0.3153	0.1292	0.1914	1.549	0.3255	0.1259	0.2266	90-100	6.554	27710	99.8,99.8
110	1.400	0.3303	0.2582	0.2872	1.961	0.7989	0.1695	0.5865	100-110	6.577	27717	99.8,99.8
120	1.431	0.4528	0.3876	0.4067	1.910	1.142	0.4876	1.042	110-120	8.322	27725	99.9,99.9
130	1.622	0.6697	0.6559	0.6088	1.441	1.242	0.7858	1.330	120-130	8.752	27734	99.9,99.9
140	1.842	1.005	0.9639	0.8424	1.250	1.345	1.313	1.549	130-140	8.893	27743	99.9,99.9
150	1.924	1.359	1.192	1.171	1.421	1.655	1.730	1.915	140-150	8.800	27752	99.9,99.9
160	1.929	1.557	1.401	1.339	1.776	1.912	2.080	2.238	150-160	7.754	27760	100,100
170	2.073	1.911	1.778	1.685	1.862	1.981	2.119	2.487	160-170	5.282	27765	100,100
180	2.264	2.207	2.117	2.014	2.254	2.090	2.147	2.735	170-180	1.998	27767	100,100
DEG	LUMINOUS INTENSITY: $\times 10cd$									UNIT: lm		

5.4 Isocandela Diagram



5.5 Luminous Distribution Intensity Data

Table--1

UNIT: $\times 10\text{cd}$

γ (DEG) \ C (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	663	663	663	663	663	663	663	663	663	663	663	663	663	663	663	663			
5	661	684	704	717	723	722	712	696	673	647	624	607	599	602	616	636			
10	666	712	745	763	772	773	760	735	692	639	586	550	536	542	571	615			
15	679	747	785	800	807	812	807	782	722	637	552	505	490	496	531	600			
20	700	784	819	826	830	841	850	837	764	641	525	475	463	467	501	587			
25	730	826	849	840	837	856	889	897	824	653	503	456	448	451	478	581			
30	767	868	874	839	821	851	917	959	892	676	482	442	434	437	460	577			
35	810	911	888	818	782	822	928	1014	959	714	468	426	418	422	447	578			
40	855	953	887	772	714	766	912	1056	1032	757	452	407	399	404	431	582			
45	909	990	859	692	601	668	869	1078	1086	782	429	384	380	385	411	582			
50	957	1018	806	545	404	490	785	1089	1138	783	400	356	354	359	385	571			
55	1020	1039	702	300	161	232	624	1084	1197	760	367	320	309	325	354	540			
60	1101	1060	517	112	95.6	100	374	1069	1262	696	323	264	268	271	315	489			
65	1185	1083	241	76.0	67.7	69.9	85.7	1033	1264	527	251	223	222	231	251	413			
70	1130	1011	63.6	46.0	36.6	39.9	51.7	829	1092	295	186	168	174	177	196	301			
75	804	696	35.1	21.8	15.6	17.8	26.9	426	663	125	107	104	110	116	127	163			
80	257	209	13.0	5.86	3.72	4.01	7.41	63.8	152	37.1	40.3	42.1	28.1	47.5	58.1	60.5			
85	17.0	17.7	2.00	0.96	0.86	0.83	0.97	3.86	8.15	9.34	9.20	8.06	7.43	9.87	13.7	15.0			
90	2.37	2.29	0.65	0.18	0.14	0.14	0.20	1.21	2.07	0.94	0.38	0.44	0.31	0.37	0.50	1.25			
95	1.46	1.23	0.41	0.16	0.13	0.15	0.18	0.62	1.51	1.01	0.25	0.21	0.14	0.22	0.31	0.99			
100	1.33	0.87	0.32	0.16	0.13	0.16	0.19	0.49	1.55	1.32	0.33	0.15	0.13	0.16	0.23	1.15			
105	1.37	0.80	0.32	0.18	0.16	0.16	0.22	0.52	1.75	1.61	0.52	0.15	0.14	0.14	0.34	1.40			
110	1.40	0.78	0.33	0.27	0.26	0.22	0.29	0.69	1.96	1.78	0.80	0.25	0.17	0.21	0.59	1.67			
115	1.41	0.83	0.35	0.34	0.34	0.30	0.36	0.80	2.01	1.89	1.03	0.45	0.32	0.38	0.83	1.92			
120	1.43	0.87	0.45	0.41	0.39	0.34	0.41	0.81	1.91	1.90	1.14	0.66	0.49	0.52	1.04	1.93			
125	1.53	0.95	0.53	0.54	0.55	0.47	0.52	0.90	1.63	1.72	1.17	0.75	0.62	0.55	1.13	1.88			
130	1.62	1.09	0.67	0.67	0.66	0.60	0.61	0.98	1.44	1.46	1.24	1.03	0.79	0.87	1.33	1.76			
135	1.70	1.17	0.82	0.81	0.79	0.70	0.68	1.01	1.24	1.36	1.28	1.22	1.11	1.18	1.42	1.76			
140	1.84	1.41	1.00	1.00	0.96	0.87	0.84	1.21	1.25	1.37	1.35	1.39	1.31	1.36	1.55	1.75			
145	1.92	1.52	1.15	1.11	1.08	1.02	0.99	1.26	1.28	1.39	1.47	1.52	1.50	1.60	1.71	1.81			
150	1.92	1.61	1.36	1.26	1.19	1.11	1.17	1.28	1.42	1.53	1.66	1.82	1.73	1.88	1.92	1.88			
155	1.93	1.71	1.48	1.35	1.28	1.25	1.28	1.34	1.64	1.68	1.88	2.10	1.98	2.09	2.06	2.05			
160	1.93	1.74	1.56	1.45	1.40	1.33	1.34	1.46	1.78	1.84	1.91	2.12	2.08	2.17	2.24	2.20			
165	1.97	1.80	1.71	1.63	1.58	1.46	1.48	1.57	1.84	1.85	1.94	2.12	2.10	2.18	2.36	2.35			
170	2.07	1.96	1.91	1.85	1.78	1.69	1.69	1.73	1.86	1.88	1.98	2.12	2.12	2.19	2.49	2.50			
175	2.23	2.10	2.14	2.05	2.05	1.97	1.93	1.94	2.10	2.09	2.04	2.12	2.14	2.20	2.61	2.65			
180	2.26	2.19	2.21	2.10	2.12	2.08	2.01	2.02	2.25	2.39	2.09	2.12	2.15	2.20	2.74	2.80			

6. Photo of sample

Photo document

Photos of AOK-150WiLH-NV-A5-00-4070-T252-P



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