

TEST REPORT

LED Flood Light

Test Model: AOK-240WFLC-NV-A5-00-4070-T5-A

Report Number : LCSB04016059S

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
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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 13, 2026
Date of test : April 14, 2026
Date of issue : April 17, 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 Flood Light	
Trademark.....:		
Test Model/Type.....:	AOK-240WFLC-NV-A5-00-4070-T5-A	
Rating.....:	AC120-277V, 50/60Hz, 240W	
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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1. Test Method

Test Item.....:	Integrating Sphere Test
Ambient Condition	25.5°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.....:	24.6°C
Stabilization time	31 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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2. Product Information

Product description.....:	LED Flood Light
Model Number.....:	AOK-240WFLC-NV-A5-00-4070-T5-A
Rated Inputs.....:	AC120-277V
Rated Power.....:	240W
Declared CCT.....:	4000K
LED Manufacturer.....:	Shenzhen Tongyifang Optoelectronic Technology Co., Ltd.
LED Model.....:	TS1-H50YL-0801BB
Forward current of the LED chip.....:	150mA
Date of Receipt Samples.....:	April 13, 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

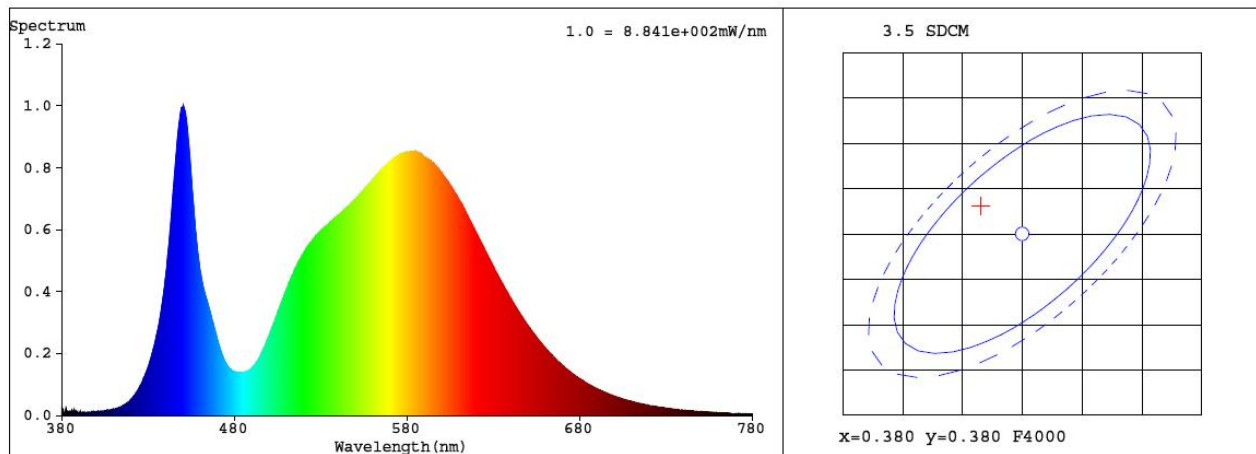
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.18	50.0	1.057	0.9870	240.1

Luminous flux (lm)	Luminous efficacy(lm/W)	CCT (K)	x	y	u'	v'
41444	172.61	4152	0.3765	0.3831	0.2200	0.5038

Duv	CRI	R9	Rf	Rg	IES Rcs	SDCM
4.12e-03	71.0	-44	75	91	-20%	3.5

4.2 Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3765$ $y = 0.3831$ / $u' = 0.2200$ $v' = 0.5038$ ($duv=4.12e-03$)

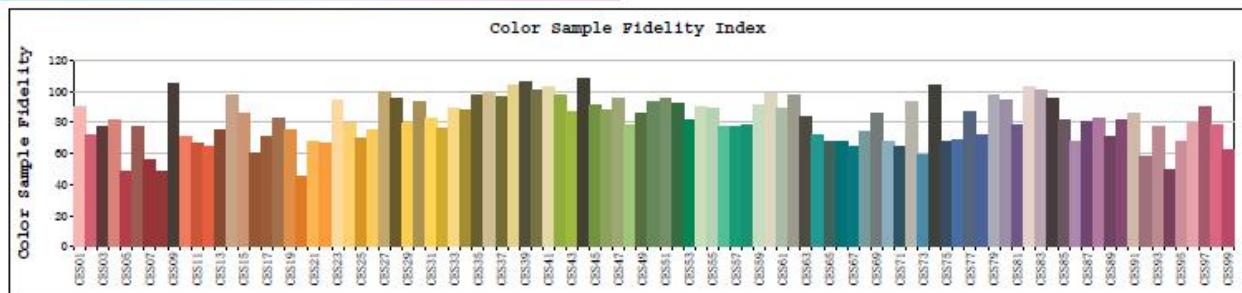
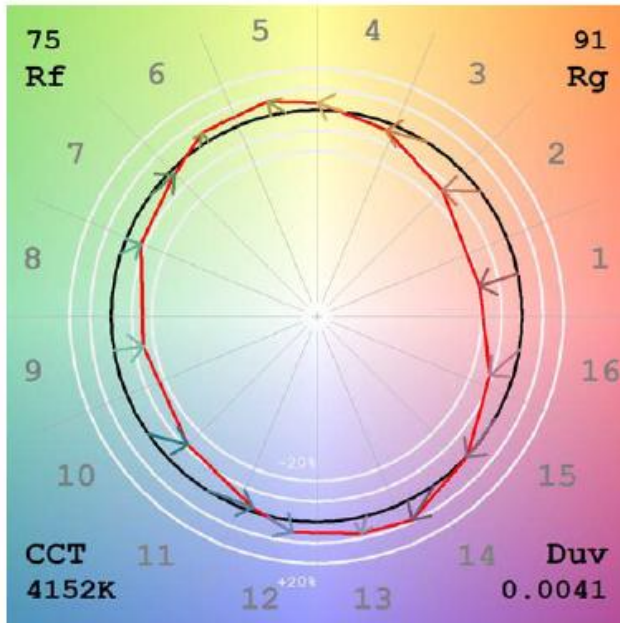
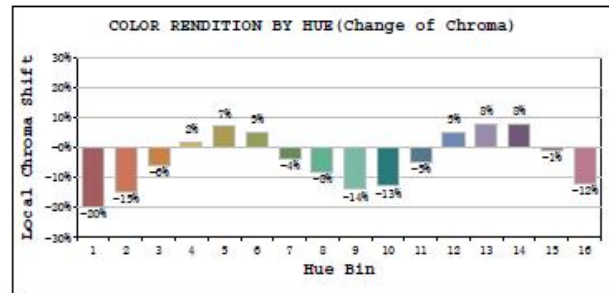
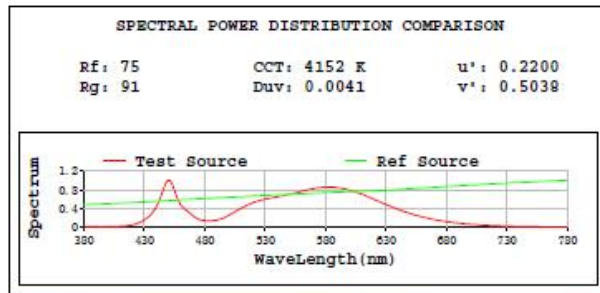
CCT= 4152K Prcp WL: $L_d=576.3nm$ Purity=28.0%

Peak WL: $L_p=450nm$ FWHM: $=18.4nm$ Ratio:R=15.8% G=81.6% B=2.7%

Render Index: $R_a = 71.0$ TM30:Rf=75 Rg=91

R1 =67 R2 =79 R3 =88 R4 =69 R5 =67 R6 =70 R7 =81
 R8 =48 R9 =-44 R10=50 R11=64 R12=40 R13=69 R14=94 R15=59
 LEVEL:OUT

4.3 IES TM-30-18 Color Rendition Result



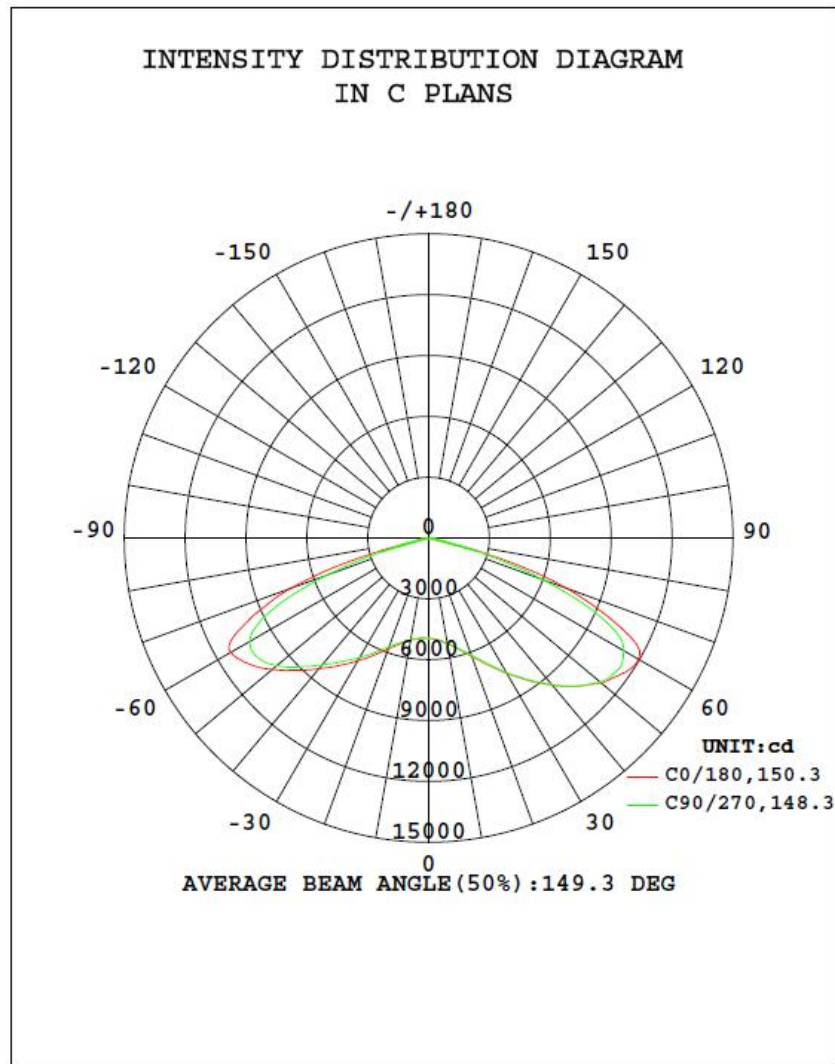
5. Goniophotometer Test results

5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.1	50.01	1.058	0.9874	240.3

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	Imax (cd)	ZL (0~90°)	ZL (80~90°)
Output	41509.8	172.74	12735	99.8%	0.7%

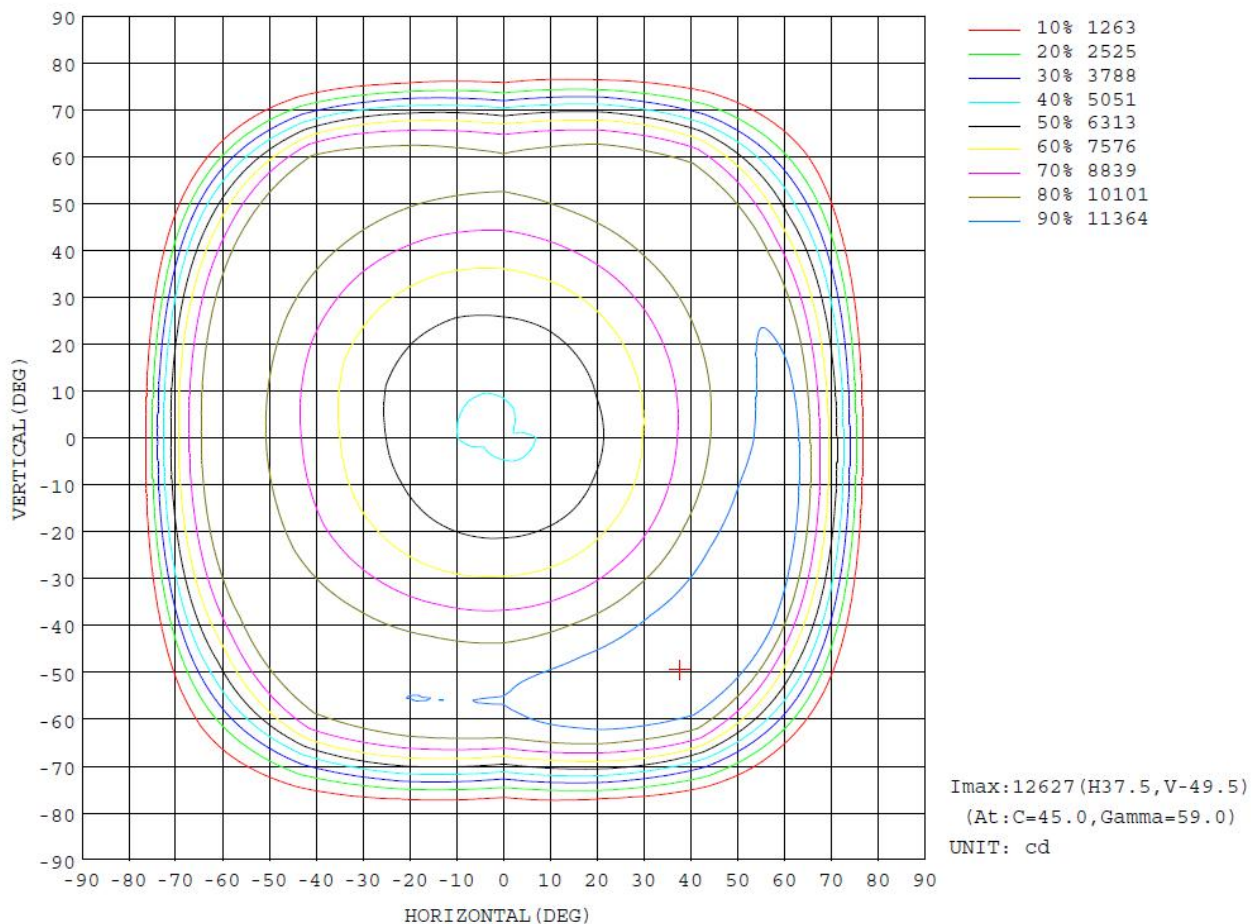
5.2 Luminous Intensity Distribution Diagram



5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	527.3	531.4	530.1	518.7	510.9	507.2	510.5	518.9	0- 10	484.1	484.1	1.17,1.17
20	621.8	620.4	615.7	589.6	582.2	562.2	570.6	589.1	10- 20	1575	2059	4.96,4.96
30	770.3	780.4	766.5	716.9	698.6	661.7	679.5	710.8	20- 30	3041	5100	12.3,12.3
40	946.1	982.5	944.9	879.8	840.6	803.5	815.4	870.0	30- 40	5039	10139	24.4,24.4
50	1110	1190	1105	1055	1008	989.1	978.7	1044	40- 50	7552	17692	42.6,42.6
60	1194	1272	1111	1112	1127	1113	1018	1106	50- 60	9945	27636	66.6,66.6
70	724.7	975.4	600.6	836.5	727.4	881.0	533.6	809.6	60- 70	9911	37547	90.5,90.5
80	45.02	72.66	64.99	92.38	40.67	55.95	51.17	81.61	70- 80	3604	41152	99.1,99.1
90	1.446	2.153	1.493	2.000	1.247	1.724	1.094	1.812	80- 90	266.1	41418	99.8,99.8
100	0.6647	0.9400	0.6304	0.9749	0.9594	1.290	0.8939	1.216	90-100	11.08	41429	99.8,99.8
110	1.167	1.228	1.040	1.125	1.825	2.022	1.852	1.933	100-110	12.88	41442	99.8,99.8
120	1.319	1.453	1.461	1.433	2.085	2.303	2.361	2.349	110-120	16.98	41459	99.9,99.9
130	1.462	1.462	1.713	1.572	1.853	1.694	1.991	1.841	120-130	15.96	41475	99.9,99.9
140	1.470	1.474	1.761	1.543	1.354	1.358	1.599	1.528	130-140	12.31	41487	99.9,99.9
150	1.480	1.492	1.681	1.543	1.390	1.411	1.583	1.550	140-150	9.635	41497	100,100
160	1.456	1.507	1.573	1.528	1.449	1.494	1.571	1.586	150-160	7.065	41504	100,100
170	1.499	1.553	1.588	1.562	1.501	1.533	1.571	1.597	160-170	4.337	41508	100,100
180	1.622	1.634	1.601	1.633	1.662	1.624	1.581	1.603	170-180	1.523	41510	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

5.4 Isocandela Diagram



5.5 Luminous Distribution Intensity Data

Table--1

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

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	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495			
5	504	505	505	507	507	503	500	498	496	495	496	497	499	500	502	504			
10	527	530	531	532	530	524	519	514	511	508	507	508	511	514	519	524			
15	565	569	569	568	564	554	548	542	539	532	529	529	534	538	547	557			
20	622	625	620	622	616	602	590	584	582	569	562	563	571	578	589	604			
25	688	694	691	692	683	664	647	636	636	614	606	609	621	629	645	661			
30	770	776	780	777	767	740	717	695	699	668	662	664	679	691	711	730			
35	856	867	874	872	853	825	794	762	766	733	727	731	743	762	785	807			
40	946	971	982	978	945	919	880	839	841	808	803	808	815	843	870	894			
45	1032	1075	1092	1079	1032	1010	971	923	920	893	889	891	897	926	959	980			
50	1110	1171	1190	1163	1105	1083	1055	1004	1008	991	989	984	979	1011	1044	1057			
55	1165	1231	1254	1211	1136	1121	1107	1050	1083	1075	1071	1050	1028	1059	1098	1094			
60	1194	1254	1272	1212	1111	1116	1112	1051	1127	1121	1113	1071	1018	1070	1106	1089			
65	1044	1179	1216	1116	954	1020	1050	964	996	1064	1104	992	868	986	1048	985			
70	725	819	975	799	601	733	837	685	727	777	881	692	534	704	810	674			
75	277	371	445	352	223	331	395	324	249	311	364	250	160	280	355	302			
80	45.0	56.9	72.7	71.4	65.0	81.2	92.4	89.1	40.7	47.3	56.0	54.5	51.2	70.2	81.6	83.6			
85	14.7	19.1	23.3	24.3	21.2	24.9	25.7	25.2	11.5	12.7	13.8	13.3	13.8	19.2	23.1	26.2			
90	1.45	1.83	2.15	1.90	1.49	1.72	2.00	1.80	1.25	1.46	1.72	1.47	1.09	1.46	1.81	1.72			
95	0.71	0.83	1.04	0.90	0.69	0.85	1.05	0.92	0.81	0.99	1.07	0.84	0.69	0.93	1.06	0.91			
100	0.66	0.81	0.94	0.85	0.63	0.77	0.97	0.88	0.96	1.14	1.29	1.09	0.89	1.09	1.22	1.05			
105	0.92	0.98	1.05	0.87	0.77	0.83	0.98	0.94	1.42	1.60	1.66	1.49	1.37	1.48	1.55	1.43			
110	1.17	1.17	1.23	1.11	1.04	1.11	1.12	1.11	1.82	1.91	2.02	1.94	1.85	1.86	1.93	1.81			
115	1.21	1.31	1.35	1.31	1.33	1.25	1.30	1.28	2.05	2.22	2.26	2.19	2.20	2.23	2.24	2.00			
120	1.32	1.33	1.45	1.45	1.46	1.35	1.43	1.38	2.09	2.23	2.30	2.24	2.36	2.35	2.35	2.05			
125	1.43	1.40	1.46	1.60	1.67	1.48	1.60	1.57	1.93	2.10	1.91	2.08	2.31	2.03	2.09	1.90			
130	1.46	1.45	1.46	1.62	1.71	1.53	1.57	1.87	1.85	1.77	1.69	1.85	1.99	1.86	1.84	1.73			
135	1.47	1.47	1.47	1.63	1.73	1.57	1.54	1.59	1.51	1.34	1.42	1.65	1.78	1.73	1.62	1.50			
140	1.47	1.47	1.47	1.67	1.76	1.72	1.54	1.67	1.35	1.33	1.36	1.63	1.60	1.58	1.53	1.46			
145	1.48	1.48	1.48	1.66	1.78	1.69	1.54	1.66	1.36	1.33	1.33	1.60	1.59	1.57	1.53	1.46			
150	1.48	1.48	1.49	1.65	1.68	1.67	1.54	1.53	1.39	1.35	1.41	1.58	1.58	1.56	1.55	1.47			
155	1.47	1.48	1.50	1.62	1.60	1.59	1.55	1.49	1.44	1.44	1.48	1.56	1.59	1.55	1.57	1.49			
160	1.46	1.49	1.51	1.60	1.57	1.56	1.53	1.47	1.45	1.46	1.49	1.56	1.57	1.54	1.59	1.51			
165	1.45	1.51	1.51	1.59	1.58	1.57	1.52	1.48	1.46	1.48	1.51	1.58	1.57	1.55	1.59	1.53			
170	1.50	1.52	1.55	1.59	1.59	1.57	1.56	1.58	1.50	1.53	1.53	1.60	1.57	1.58	1.60	1.57			
175	1.63	1.61	1.64	1.60	1.61	1.58	1.62	1.64	1.65	1.65	1.61	1.62	1.58	1.59	1.60	1.62			
180	1.62	1.63	1.63	1.59	1.60	1.59	1.63	1.64	1.66	1.66	1.62	1.63	1.58	1.59	1.60	1.62			

6. Photo of sample

Photo document

Photos of AOK-240WFLC-NV-A5-00-4070-T5-A



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