

TEST REPORT

LED Flood Light

Test Model: AOK-240WFLC-NV-L3-00-4070-T5-A

Report Number : LCSB04016061S

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 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-L3-00-4070-T5-A	
Rating.....:	AC120-277V, 50/60Hz, 240W	
Test Results	Please see the following test data	
Prepare by.....:	Zero Huang (Project Engineer)	Zero Huang
Check by.....:	Ian Luo (Director)	Ian Luo
Approved by	Jesse Liu (Manager)	Jesse Liu
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	25.5°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-L3-00-4070-T5-A
Rated Inputs.....:	AC120-277V
Rated Power.....:	240W
Declared CCT.....:	4000K
LED Manufacturer.....:	Lumileds
LED Model.....:	L130-4070003000X21
Forward current of the LED chip.....:	65mA
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

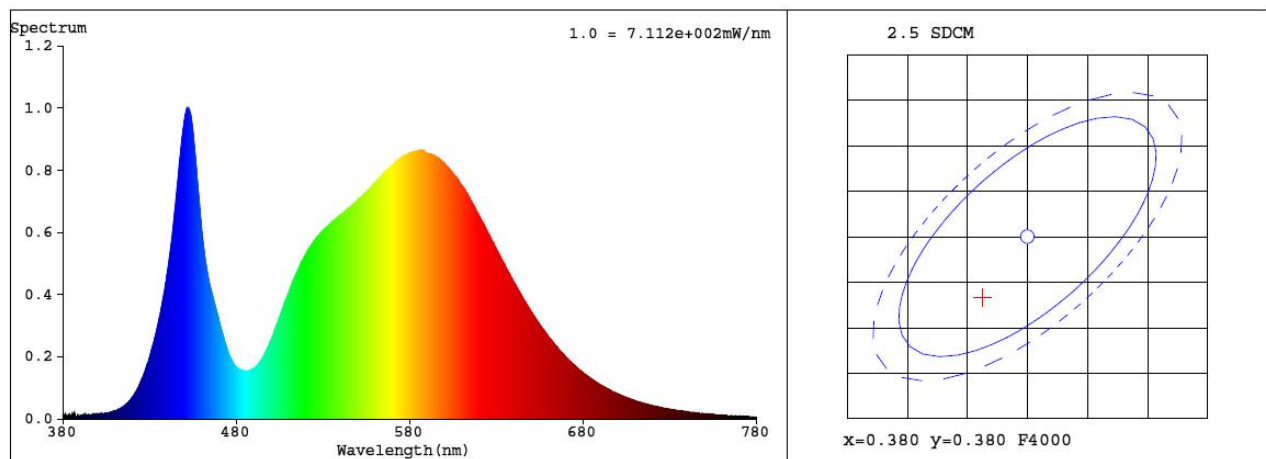
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.14	50.0	1.059	0.9857	240.3

Luminous flux (lm)	Luminous efficacy(lm/W)	CCT (K)	x	y	u'	v'
34899	145.23	4092	0.3763	0.3733	0.2237	0.4994

Duv	CRI	R9	Rf	Rg	IES Rcs	SDCM
-3.72e-04	74.8	-23	76	93	-17%	2.5

4.2 Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3763$ $y = 0.3733$ / $u' = 0.2237$ $v' = 0.4994$ ($duv = -3.72e-04$)

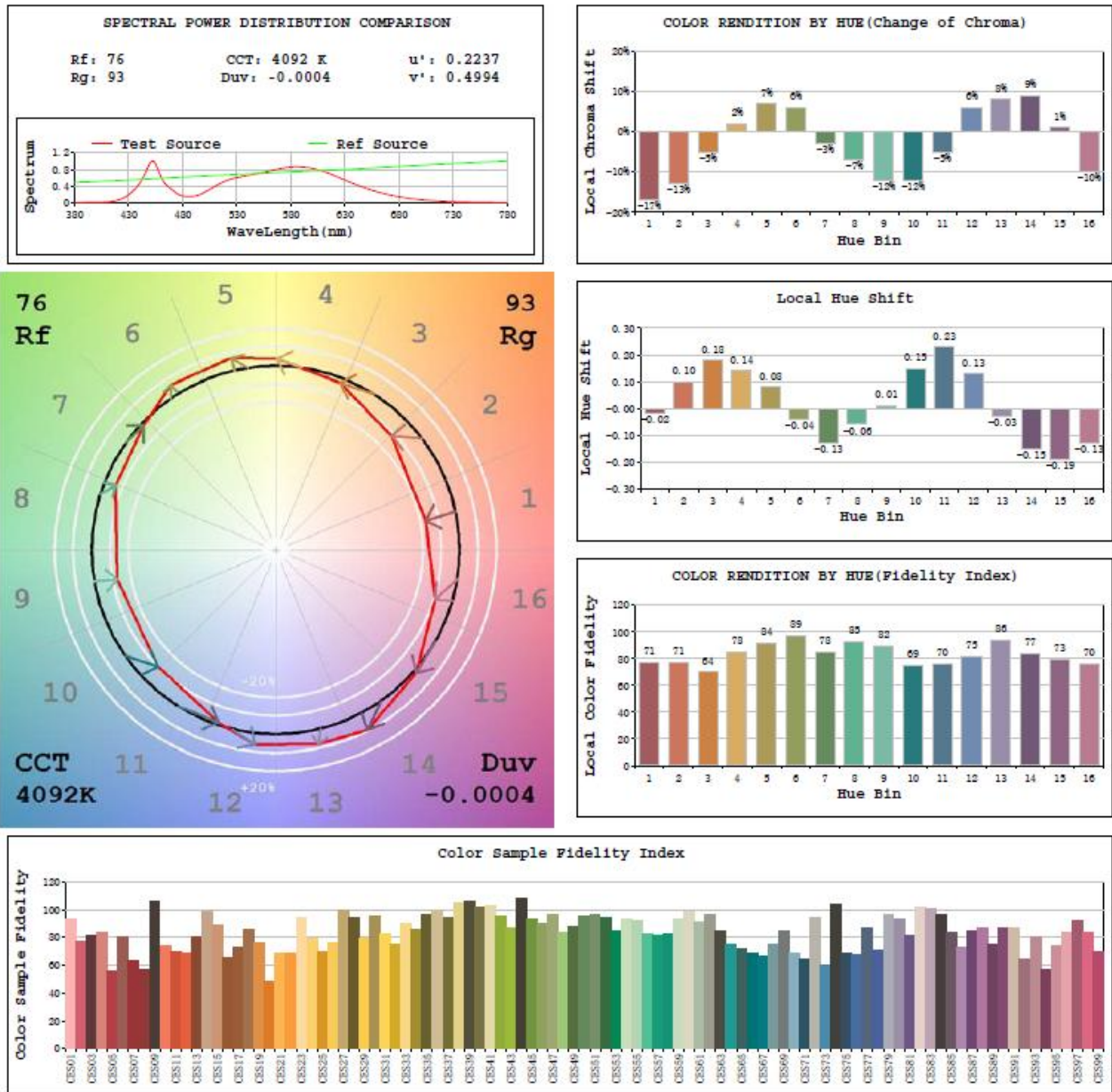
CCT= 4092K Prcp WL: $L_d = 578.9\text{nm}$ Purity=24.9%

Peak WL: $L_p = 452\text{nm}$ FWHM: $\approx 21.6\text{nm}$ Ratio: R=16.9% G=80.2% B=2.9%

Render Index: $R_a = 74.8$ TM30: $R_f = 76$ $R_g = 93$

R1 =72 R2 =82 R3 =89 R4 =73 R5 =72 R6 =74 R7 =82
 R8 =54 R9 =-23 R10=57 R11=69 R12=47 R13=74 R14=94 R15=66
 LEVEL:OUT

4.3 IES TM-30-18 Color Rendition Result



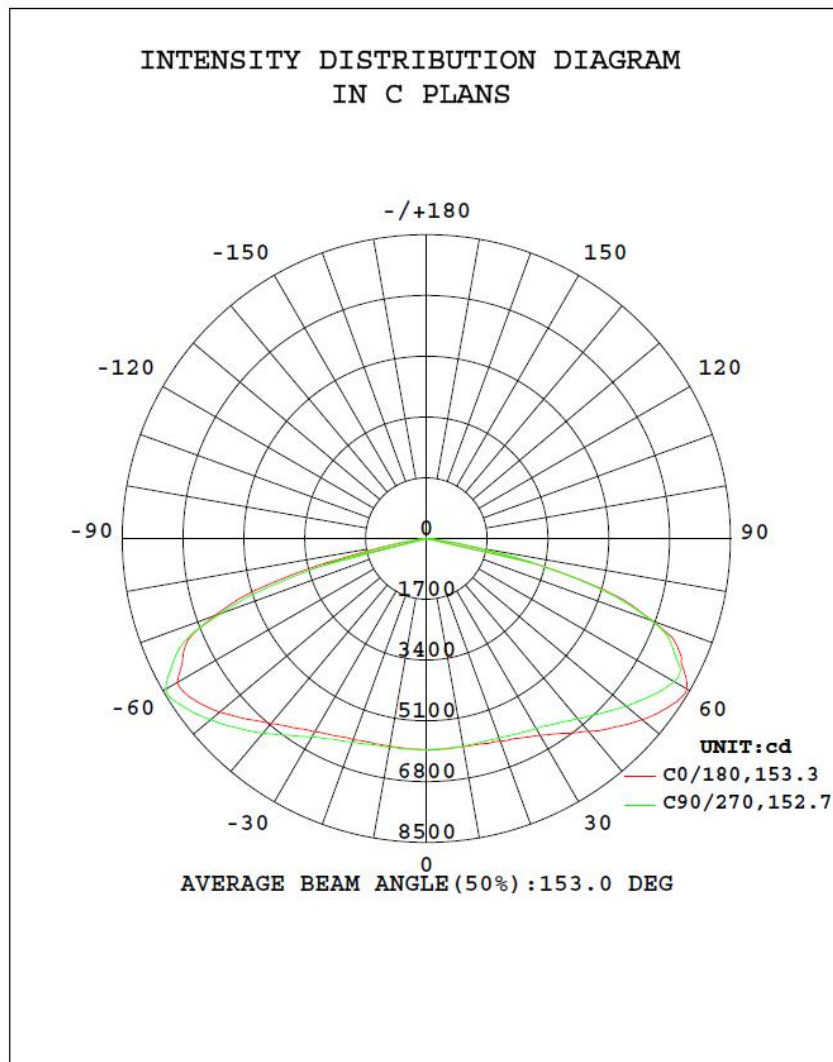
5. Goniophotometer Test results

5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.2	50.01	1.058	0.9860	240.2

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	Imax (cd)	ZL (0~90°)	ZL (80~90°)
Output	34915.6	145.36	8553	99.8%	1.3%

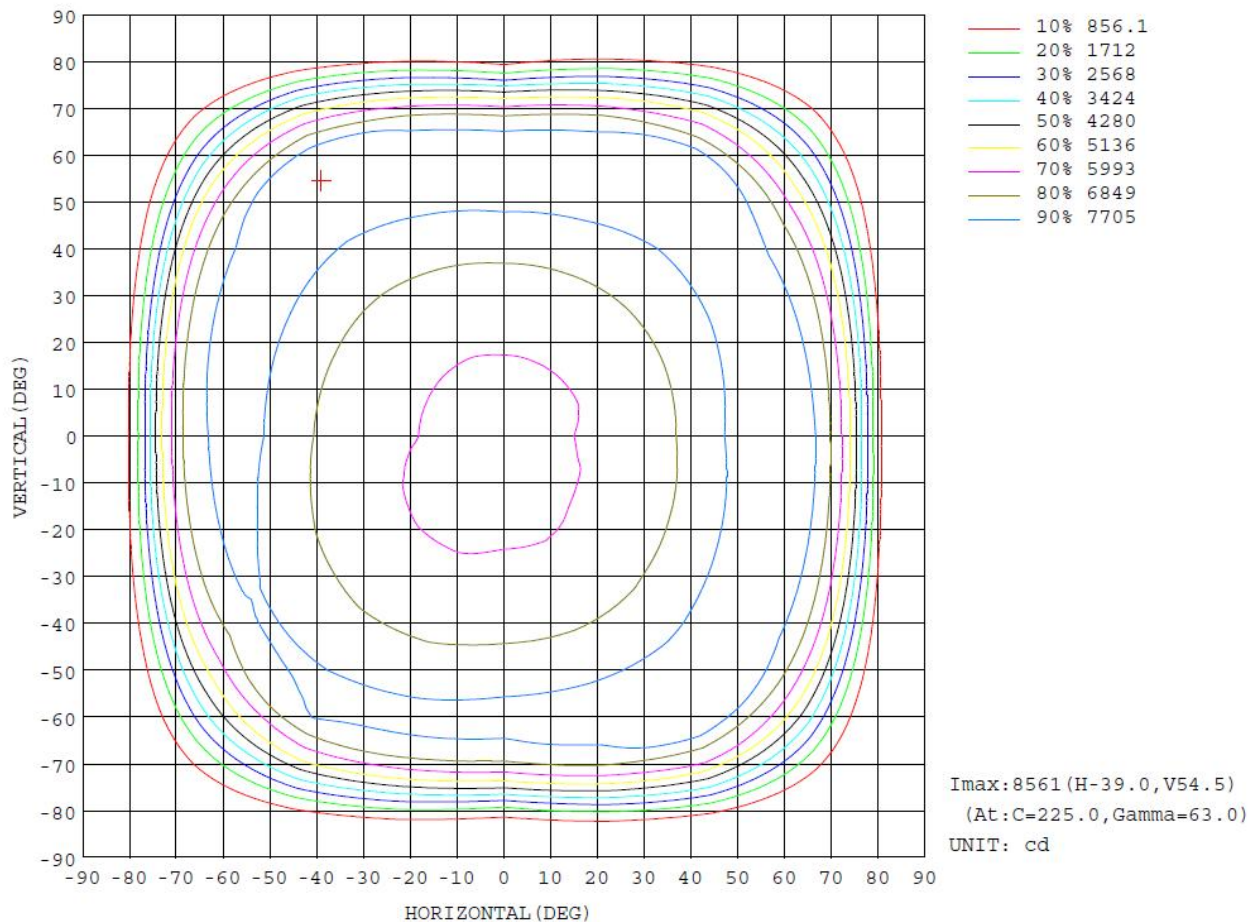
5.2 Luminous Intensity Distribution Diagram



5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5913	5909	5894	5894	5897	5915	5924	5934	0- 10	563.8	563.8	1.61,1.61
20	6029	5983	5939	5912	5974	6030	6058	6067	10- 20	1686	2249	6.44,6.44
30	6358	6247	6136	6100	6233	6363	6401	6454	20- 30	2839	5088	14.6,14.6
40	7031	6742	6588	6498	6757	6902	7097	7053	30- 40	4115	9203	26.4,26.4
50	7878	7383	7293	7085	7548	7578	7876	7735	40- 50	5568	14771	42.3,42.3
60	8412	8249	7995	7759	8038	8418	8418	8444	50- 60	7103	21874	62.6,62.6
70	6716	8065	6684	7242	6285	7215	6129	7160	60- 70	7760	29634	84.9,84.9
80	1116	2908	1378	2263	906.4	1555	612.8	1885	70- 80	4742	34376	98.5,98.5
90	20.05	30.74	20.98	25.72	16.89	23.51	15.49	23.73	80- 90	455.3	34831	99.8,99.8
100	9.384	12.00	9.145	11.33	10.83	13.64	10.98	13.06	90-100	15.17	34846	99.8,99.8
110	10.32	11.47	10.66	11.17	15.08	16.02	16.26	16.33	100-110	12.78	34859	99.8,99.8
120	10.80	12.70	13.41	12.14	15.27	15.53	17.86	16.31	110-120	13.83	34873	99.9,99.9
130	11.94	12.75	14.77	12.99	12.75	11.36	13.00	12.95	120-130	12.05	34885	99.9,99.9
140	12.54	12.93	15.10	12.87	11.34	9.852	12.12	12.04	130-140	9.678	34895	99.9,99.9
150	13.31	14.42	15.22	13.97	12.46	12.09	13.21	13.70	140-150	8.138	34903	100,100
160	13.76	14.89	15.32	14.79	14.76	15.13	15.23	15.71	150-160	6.608	34910	100,100
170	16.19	16.75	16.56	16.42	15.58	15.95	15.95	16.94	160-170	4.371	34914	100,100
180	17.81	17.88	17.58	17.75	18.01	17.97	16.87	17.75	170-180	1.634	34916	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

5.4 Isocandela Diagram



5.5 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	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913	5913			
5	5905	5906	5904	5902	5899	5901	5903	5899	5901	5906	5899	5900	5907	5917	5917	5915			
10	5913	5917	5909	5894	5894	5891	5894	5897	5897	5911	5915	5920	5924	5925	5934	5927			
15	5947	5942	5922	5904	5900	5893	5897	5902	5916	5939	5941	5955	5961	5974	5976	5970			
20	6029	6015	5983	5946	5939	5911	5912	5943	5974	6008	6030	6045	6058	6069	6067	6062			
25	6161	6132	6090	6026	6023	5988	5984	6026	6081	6115	6156	6189	6194	6227	6226	6211			
30	6358	6313	6247	6162	6136	6089	6100	6153	6233	6312	6363	6381	6401	6444	6454	6437			
35	6649	6577	6476	6375	6321	6249	6270	6330	6461	6556	6627	6666	6713	6743	6742	6727			
40	7031	6890	6742	6656	6588	6501	6498	6591	6757	6851	6902	7006	7097	7094	7053	7061			
45	7449	7243	7043	6950	6914	6804	6789	6895	7134	7186	7215	7379	7485	7474	7389	7419			
50	7878	7651	7383	7329	7293	7150	7085	7220	7548	7593	7578	7764	7876	7858	7735	7771			
55	8235	8064	7781	7717	7667	7519	7421	7563	7895	8001	8011	8178	8241	8249	8121	8110			
60	8412	8358	8249	8127	7995	7885	7759	7734	8038	8273	8418	8481	8418	8513	8444	8285			
65	7872	8016	8523	8182	7656	7844	7873	7214	7496	7734	8536	7950	7735	7987	8443	7624			
70	6716	7308	8065	7398	6684	6927	7242	6309	6285	6824	7215	6820	6129	6873	7160	6629			
75	4456	5433	6187	5418	4374	4855	5218	4368	3813	4510	4911	4128	3252	4251	5003	4548			
80	1116	2334	2908	2317	1378	1990	2263	1711	906	1464	1555	1193	613	1390	1885	1744			
85	162	246	333	285	214	261	283	248	130	144	155	143	147	189	232	246			
90	20.1	26.3	30.7	26.6	21.0	23.2	25.7	22.2	16.9	20.8	23.5	20.8	15.5	20.0	23.7	22.4			
95	10.6	13.0	15.5	13.6	10.7	12.4	14.3	12.5	10.5	12.4	13.8	11.7	11.0	12.1	13.4	12.2			
100	9.38	10.4	12.0	10.9	9.14	9.89	11.3	10.4	10.8	12.3	13.6	12.0	11.0	12.2	13.1	11.1			
105	9.73	10.5	11.5	10.3	9.52	9.68	11.1	10.3	12.6	14.1	14.4	13.6	13.4	14.1	14.1	12.7			
110	10.3	11.0	11.5	11.1	10.7	11.0	11.2	10.5	15.1	15.4	16.0	16.1	16.3	16.5	16.3	15.4			
115	10.3	11.4	12.1	12.3	12.8	11.8	11.6	11.2	15.1	16.0	16.1	16.4	17.7	17.4	16.3	15.8			
120	10.8	11.6	12.7	12.7	13.4	12.5	12.1	11.5	15.3	15.4	15.5	15.3	17.9	17.0	16.3	15.3			
125	11.5	11.9	12.7	13.5	14.6	12.7	13.6	12.3	13.7	13.9	12.7	13.6	16.0	13.9	14.5	13.7			
130	11.9	12.0	12.8	13.8	14.8	13.1	13.0	14.2	12.7	12.1	11.4	11.7	13.0	12.8	13.0	12.3			
135	11.9	12.0	12.8	14.2	14.9	13.0	12.6	13.0	11.6	10.7	10.2	11.4	12.2	12.6	12.3	12.2			
140	12.5	12.5	12.9	14.6	15.1	14.8	12.9	13.4	11.3	10.6	9.85	11.6	12.1	12.5	12.0	12.1			
145	13.2	13.0	13.3	14.9	15.2	14.9	13.2	13.6	11.5	10.8	10.5	12.2	12.5	12.8	12.6	12.4			
150	13.3	13.4	14.4	15.1	15.2	15.0	14.0	13.6	12.5	11.9	12.1	13.2	13.2	13.7	13.7	13.1			
155	13.5	14.3	14.6	15.2	15.3	15.0	14.6	13.6	14.0	13.4	14.1	13.8	14.5	14.6	14.3	14.7			
160	13.8	14.6	14.9	15.3	15.3	15.1	14.8	14.1	14.8	15.0	15.1	14.6	15.2	15.2	15.7	15.4			
165	15.2	14.9	15.3	15.7	16.3	15.4	15.0	15.1	15.0	15.1	15.4	15.8	15.4	15.5	16.4	15.6			
170	16.2	16.2	16.7	16.2	16.6	16.4	16.4	16.3	15.6	15.8	15.9	16.6	16.0	16.2	16.9	16.3			
175	17.7	17.8	17.9	16.9	17.6	17.5	17.7	17.8	17.7	17.7	17.7	17.9	16.9	17.6	18.0	17.7			
180	17.8	17.8	17.9	16.8	17.6	17.7	17.8	17.8	18.0	18.1	18.0	17.9	16.9	17.6	17.7	17.8			

6. Photo of sample

Photo document

Photos of AOK-240WFLC-NV-L3-00-4070-T5-A



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