

# TEST REPORT

## LED STREET LIGHT

Test Model: AOK-100WiLH-NV-A5-00-4070-T252-P

Report Number : LCSB02026085S

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

<b>Testing Laboratory.....:</b>	Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China	
<b>Test Specification:</b>		
<b>Standard.....:</b>	ANSI/IES LM-79-19: Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products	
<b>Test item description.....:</b>	LED STREET LIGHT	
<b>Trademark.....:</b>		
<b>Test Model/Type.....:</b>	AOK-100WiLH-NV-A5-00-4070-T252-P	
<b>Rating.....:</b>	AC220-240V, 50/60Hz, 100W	
<b>Test Results .....</b>	Please see the following test data	
<b>Prepare by.....:</b>	Zero Huang (Project Engineer)	<i>Zero Huang</i>
<b>Check by.....:</b>	Ian Luo (Director)	<i>Ian Luo</i>
<b>Approved by .....</b>	Jesse Liu (Manager)	<i>Jesse Liu</i>
<b>Test Report Form No.....:</b>	TRF-4-S-123 A/0	
<b>TRF Originator.....:</b>	Shenzhen Southern LCS Compliance Testing Co., Ltd.	
<b>Master TRF.....:</b>	/	

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## Table of Contents

<b>1. Test Method .....</b>	<b>4</b>
<b>2. Product Information .....</b>	<b>5</b>
<b>3. Test equipment list .....</b>	<b>5</b>
<b>4. Integrating Sphere Test Results .....</b>	<b>6</b>
4.1 Test Data .....	6
4.2 Spectrum .....	6
4.3 IES TM-30-18 Color Rendition Result .....	7
<b>5. Goniophotometer Test results .....</b>	<b>8</b>
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
<b>6. Photo of sample .....</b>	<b>11</b>

## 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. <math>4\pi</math> 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>

<b>Remarks.....:</b>	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-100WiLH-NV-A5-00-4070-T252-P
Rated Inputs.....:	AC220-240V
Rated Power.....:	100W
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

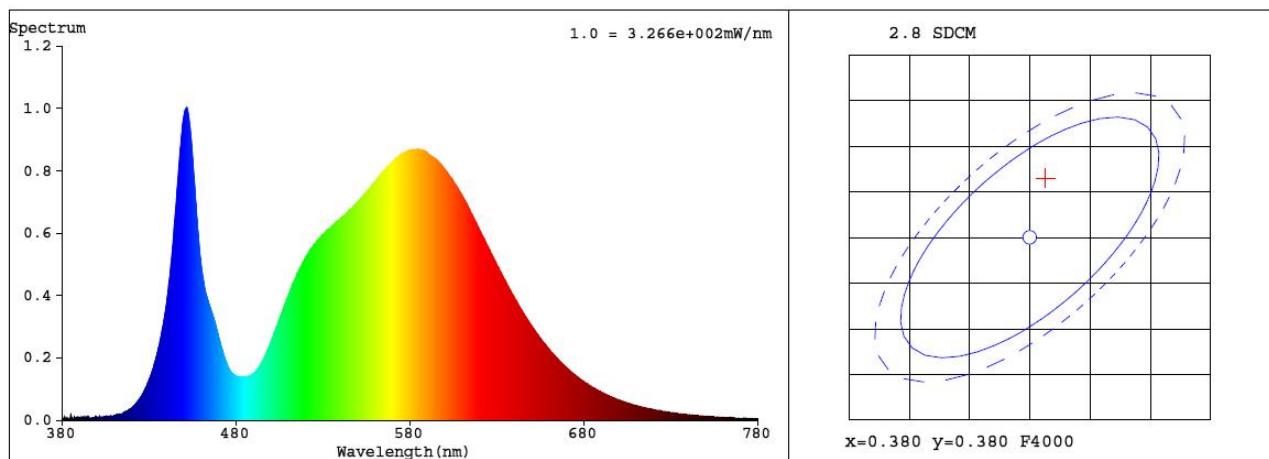
### 4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.01	50.0	0.4438	0.9875	100.8

Luminous flux (lm)	Luminous efficacy(lm/W)	CCT (K)	x	y	u'	v'
18606	184.58	4046	0.3813	0.3865	0.2218	0.5059

Duv	CRI	R9	Rf	Rg	IES Rcs	SDCM
4.26e-03	71.2	-43	75	91	-19%	2.8

### 4.2 Spectrum



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3813$   $y = 0.3865$  /  $u' = 0.2218$   $v' = 0.5059$  ( $duv=4.26e-03$ )

CCT= 4046K Prcp WL:  $L_d=576.8nm$  Purity=30.4%

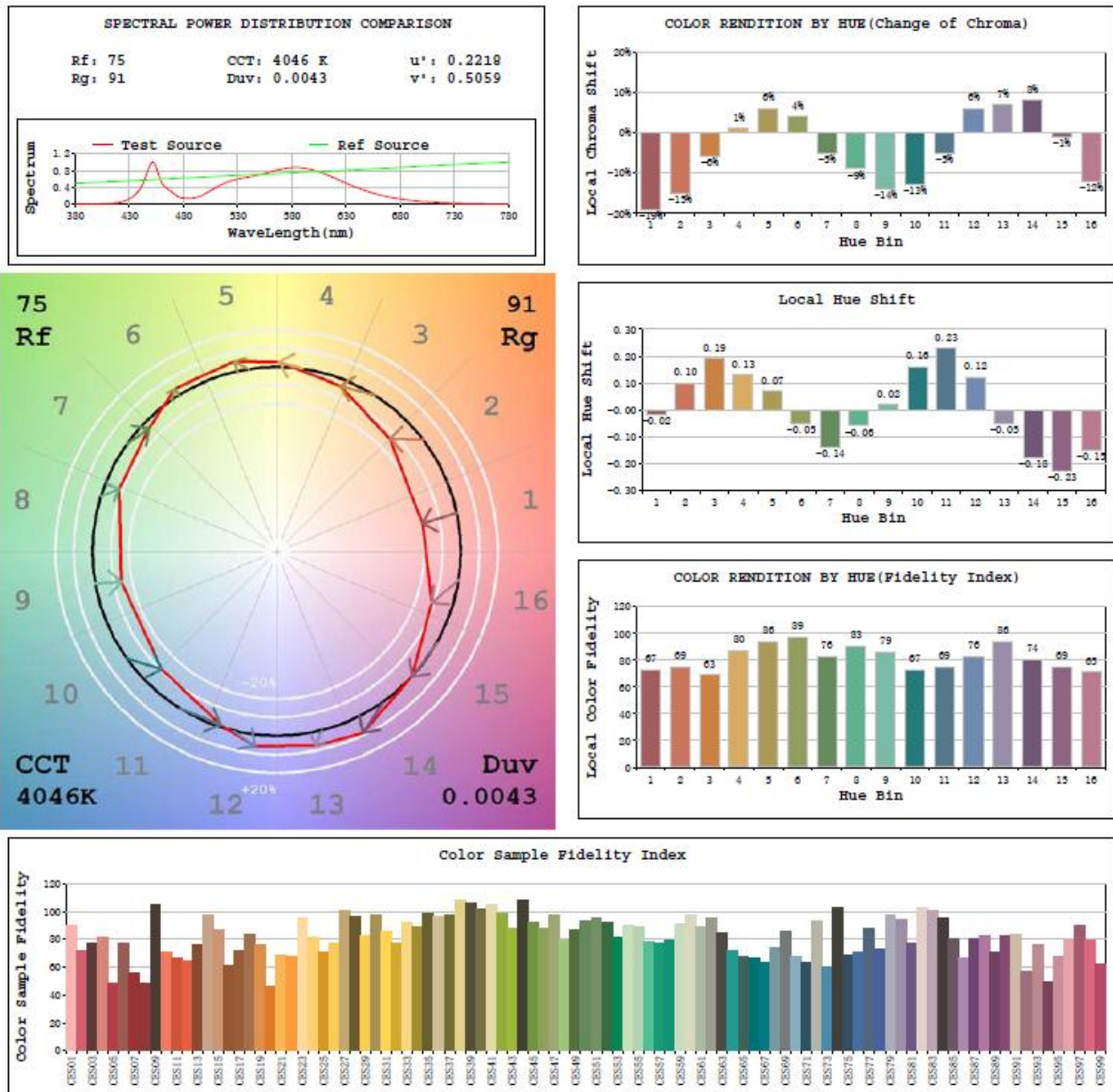
Peak WL:  $L_p=452nm$  FWHM:  $=17.4nm$  Ratio:  $R=16.1\%$   $G=81.3\%$   $B=2.6\%$

Render Index:  $R_a = 71.2$  TM30:  $R_f=75$   $R_g=91$

R1 =67 R2 =79 R3 =89 R4 =69 R5 =67 R6 =71 R7 =81  
 R8 =47 R9 =-43 R10=51 R11=64 R12=39 R13=69 R14=94 R15=59  
 LEVEL:OUT



### 4.3 IES TM-30-18 Color Rendition Result



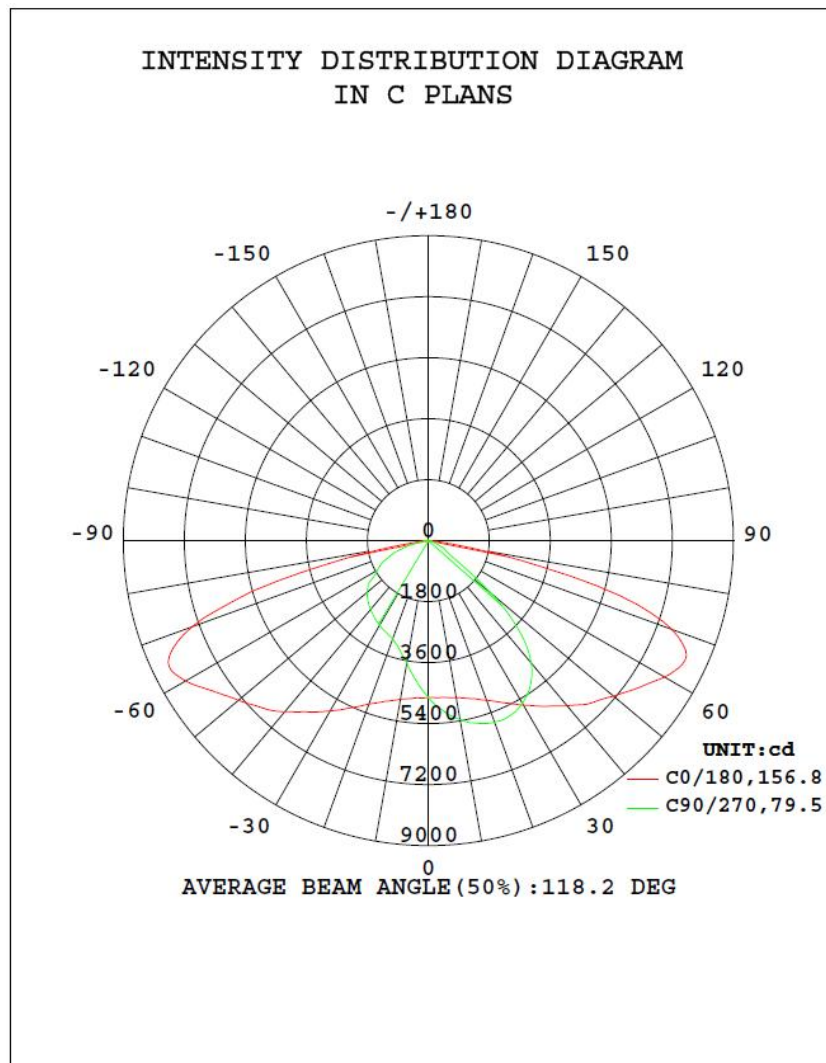
## 5. Goniophotometer Test results

### 5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.2	50.00	0.4425	0.9878	100.6

Test type	Total Flux (lm)	Luminous efficacy(lm/w)	Imax (cd)	ZL ( 0~90°)	ZL ( 80~90°)
Output	18584.2	184.71	8507	99.8%	0.6%

### 5.2 Luminous Intensity Distribution Diagram

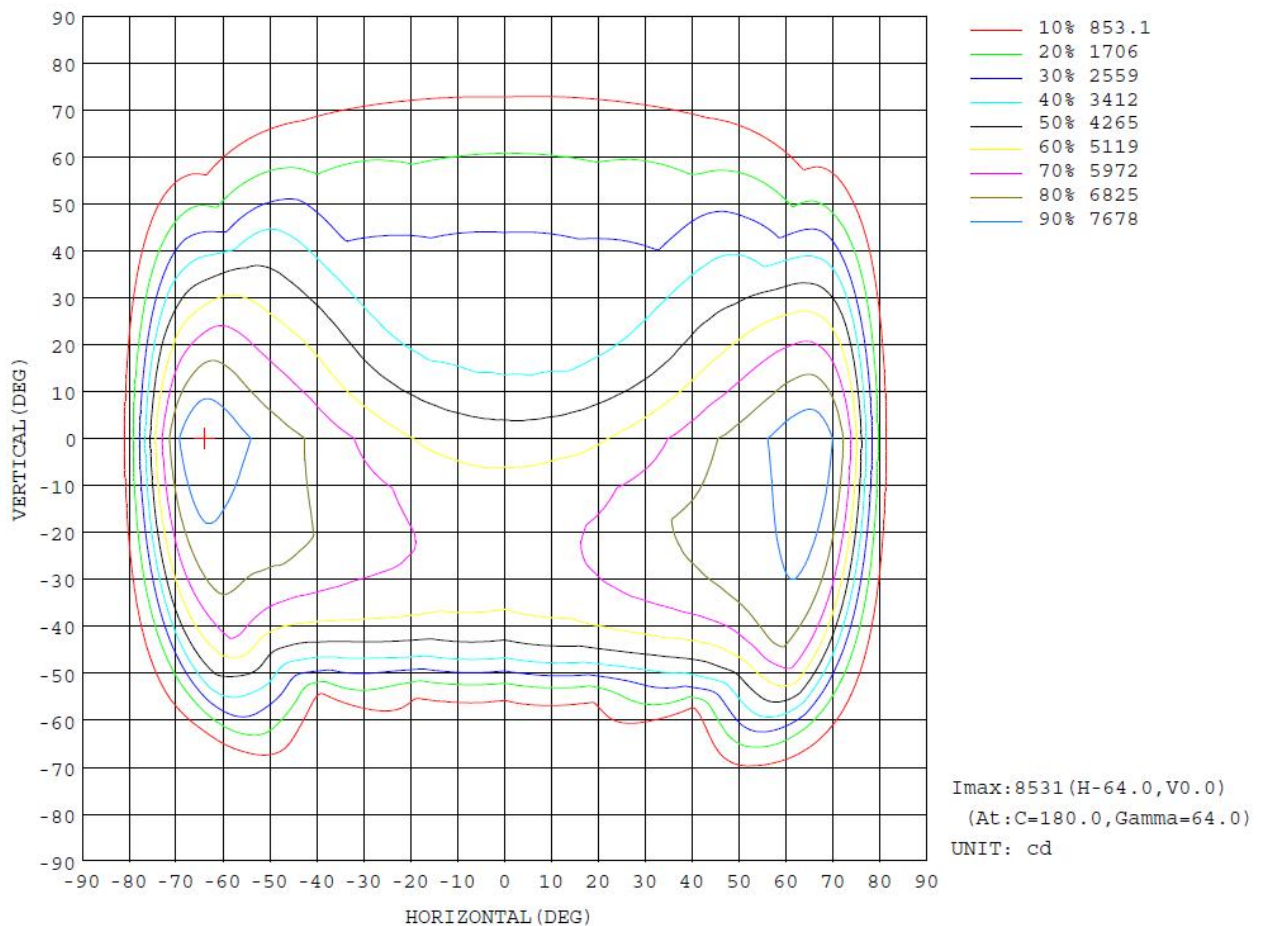




### 5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	lum, lamp
10	4703	5224	5360	5240	4752	4013	3679	3972	0- 10	441.2	441.2	2.37, 2.37
20	5013	5745	5697	5726	5128	3511	3092	3420	10- 20	1315	1756	9.45, 9.45
30	5602	6128	5538	6054	5797	3165	2883	3088	20- 30	2192	3948	21.2, 21.2
40	6362	6150	4720	5875	6584	2933	2655	2876	30- 40	3013	6962	37.5, 37.5
50	7134	5434	2399	4893	7323	2621	2365	2563	40- 50	3568	10530	56.7, 56.7
60	8047	3127	617.4	2096	8277	2142	1747	2107	50- 60	3480	14010	75.4, 75.4
70	7631	411.3	217.1	342.2	7423	1245	1107	1270	60- 70	2947	16957	91.2, 91.2
80	1439	73.65	16.94	42.82	1275	298.8	188.0	358.3	70- 80	1478	18434	99.2, 99.2
90	15.90	3.841	0.9099	1.208	13.82	2.014	1.414	2.488	80- 90	107.0	18541	99.8, 99.8
100	10.32	2.118	0.9764	1.275	10.54	1.616	0.5255	1.361	90-100	4.219	18546	99.8, 99.8
110	12.03	2.118	1.759	1.708	13.75	4.850	0.9112	3.318	100-110	4.492	18550	99.8, 99.8
120	12.64	3.189	2.998	3.314	13.54	7.552	2.832	6.432	110-120	5.856	18556	99.8, 99.8
130	12.47	4.635	4.632	4.020	10.42	8.275	4.860	8.341	120-130	6.078	18562	99.9, 99.9
140	12.81	6.252	6.261	5.323	9.131	9.283	8.702	10.15	130-140	6.028	18568	99.9, 99.9
150	13.05	8.369	7.574	7.631	10.43	11.60	12.13	12.77	140-150	5.872	18574	99.9, 99.9
160	13.19	10.08	9.092	8.639	12.86	13.68	14.76	15.75	150-160	5.197	18579	100, 100
170	13.64	12.81	11.73	11.35	13.28	13.72	13.73	18.73	160-170	3.612	18583	100, 100
180	15.35	14.83	14.25	13.46	15.35	13.72	12.70	21.71	170-180	1.385	18584	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	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628	4628			
5	4643	4808	4930	5012	5038	5015	4944	4825	4660	4487	4314	4197	4157	4195	4297	4465			
10	4703	5027	5224	5329	5360	5331	5240	5057	4752	4380	4013	3766	3679	3749	3972	4337			
15	4822	5281	5501	5563	5574	5560	5502	5325	4906	4321	3736	3417	3316	3387	3662	4232			
20	5013	5571	5745	5720	5697	5713	5726	5620	5128	4306	3511	3177	3092	3147	3420	4165			
25	5280	5891	5952	5799	5693	5776	5920	5926	5441	4331	3339	3027	2979	3012	3244	4132			
30	5602	6221	6128	5749	5538	5689	6054	6243	5797	4410	3165	2926	2883	2914	3088	4134			
35	5967	6552	6216	5545	5238	5442	6049	6518	6167	4556	3045	2824	2775	2814	2983	4194			
40	6362	6858	6150	5180	4720	5028	5875	6729	6584	4756	2933	2701	2655	2695	2876	4302			
45	6781	7090	5900	4544	3835	4269	5528	6848	6968	4916	2797	2560	2528	2560	2739	4408			
50	7134	7233	5434	3386	2399	3003	4893	6898	7323	4951	2621	2383	2365	2389	2563	4414			
55	7564	7304	4554	1659	954	1346	3778	6787	7751	4858	2412	2147	2112	2163	2359	4278			
60	8047	7317	3127	705	617	661	2096	6593	8277	4573	2142	1728	1747	1755	2107	3850			
65	8352	7343	1047	476	419	447	557	6406	8477	3623	1667	1462	1480	1487	1661	3014			
70	7631	6459	411	280	217	247	342	5091	7423	2104	1245	1085	1107	1105	1270	2062			
75	5132	3933	220	123	88.2	104	174	2785	4631	974	743	676	706	697	796	1076			
80	1439	866	73.7	27.0	16.9	19.8	42.8	437	1275	294	299	278	188	297	358	370			
85	126	82.1	12.3	6.97	5.70	5.51	7.04	28.7	93.0	81.0	64.4	49.4	41.8	55.6	81.7	107			
90	15.9	14.0	3.84	1.21	0.91	1.01	1.21	7.89	13.8	6.76	2.01	2.09	1.41	1.61	2.49	7.72			
95	10.7	7.97	2.02	1.28	0.94	1.08	1.24	4.24	10.0	6.25	1.51	0.85	0.58	0.61	1.50	6.48			
100	10.3	6.65	2.12	1.35	0.98	1.30	1.28	3.67	10.5	8.26	1.62	0.77	0.53	0.66	1.36	7.15			
105	10.5	6.86	2.12	1.41	1.01	1.53	1.50	3.73	11.9	10.4	2.83	0.84	0.69	0.71	1.81	8.67			
110	12.0	7.07	2.12	1.92	1.76	1.72	1.71	5.23	13.8	11.8	4.85	1.32	0.91	1.11	3.32	10.5			
115	12.1	7.84	3.01	2.52	2.52	2.12	2.61	6.44	13.7	12.8	6.46	2.53	1.73	2.02	5.03	11.8			
120	12.6	7.95	3.19	3.08	3.00	2.32	3.31	6.54	13.5	13.0	7.55	4.05	2.83	2.82	6.43	12.1			
125	12.7	8.07	3.82	3.73	3.64	3.23	3.52	6.94	11.6	11.9	7.77	4.65	3.84	3.13	7.04	11.5			
130	12.5	8.22	4.64	4.74	4.63	3.63	4.02	7.62	10.4	10.2	8.28	6.58	4.86	5.26	8.34	11.4			
135	12.6	8.41	5.24	5.35	5.07	4.64	4.62	7.81	9.07	9.67	8.67	8.08	7.39	7.67	9.14	11.3			
140	12.8	8.76	6.25	6.36	6.26	5.35	5.32	8.38	9.13	9.92	9.28	9.60	8.70	9.09	10.2	11.4			
145	13.1	9.66	7.05	6.87	6.69	6.55	6.33	8.49	9.43	10.2	10.1	10.8	10.4	10.5	11.2	12.1			
150	13.0	10.4	8.37	8.08	7.57	7.07	7.63	8.61	10.4	11.1	11.6	12.1	12.1	12.2	12.8	12.5			
155	13.1	11.0	9.48	8.58	8.09	7.97	8.33	9.36	11.6	12.1	13.1	14.0	13.6	13.8	14.3	13.0			
160	13.2	11.3	10.1	9.57	9.09	8.58	8.64	9.67	12.9	12.7	13.7	14.2	14.8	15.9	15.7	13.5			
165	13.1	12.2	11.1	10.7	10.2	9.59	9.64	10.8	12.9	13.0	13.7	14.4	14.2	17.9	17.2	14.0			
170	13.6	13.3	12.8	12.3	11.7	11.2	11.3	11.7	13.3	13.3	13.7	14.5	13.7	19.9	18.7	14.5			
175	14.9	14.6	14.4	13.7	13.6	13.2	13.0	13.2	14.7	14.6	13.7	14.7	13.2	21.9	20.2	15.0			
180	15.3	14.8	14.8	14.5	14.3	14.3	13.5	13.5	15.3	16.6	13.7	14.7	12.7	23.9	21.7	15.5			



## 6. Photo of sample

### Photo document

Photos of AOK-100WiLH-NV-A5-00-4070-T252-P



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