



Ningbo TengLi Testing Co., Ltd

2nd floor, Block B, Ningbo Testing and Certification Base, No. 66
Qingyi Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang
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LM-79-08 Test Report

For

Antec Lighting Inc

(Brand Name: )

Uniy C, 3979 E Guasti Road, Ontario, CA 91761

Model name(s):

AOK-55WiE-NV-LV2-XX-XX70-T302-P

Report Type: Testing and Report According to IES LM-79-2008

Type of Luminaire: Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Report Date: 2019-03-20

Ningbo TengLi Testing Co., Ltd

Prepared By: 2nd floor, Block B, Ningbo Testing and Certification Base,
No. 66 Qingyi Road, Ningbo National Hi-Tech Zone,
Ningbo, Zhejiang

Test & Report By:

Xeon Ren

Engineer: Xeon Ren

Review By:

Johnson Sun

Manager: Johnson Sun

Note: 1. The results contained in this report pertain only to the tested samples

2. This report does not imply product certification, approval, or endorsement by A2LA, or any agency of the Federal Government.



1.1 Product Information:		
Model Number	AOK-55WiE-NV-LV2-XX-XX70-T302-P	
Remark	The first “XX” can be “00” =no photocontrol or “PH”=photocontrol provided. The second “XX” could be 27/30/35/40/45/50/57 refers to CCT. This is multiple listed report, the Project Number of the original report is JAE190121-E-R1.	
Representative (Tested) Model	AOK-55WiE-NV-LV2-00-2770-T302-P	
Model Difference	All construction and rating are the same, except CCT	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	
LED Manufacturer	Lumileds	
LED Model	LUXEON V Family	
Dimming	Dimmable	
Sample Number	JAE190121-E1	
Date of Receipt	Feb.23, 2019	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

1.2 Rated Values:	
Rated Voltage / Frequency	100-277Vac, 50/60Hz
Nominal Power	55W
Rated Initial Lamp Lumen	--
Declared CCT	2700K,3000K,3500K,4000K,4500K,5000K, 5700K



1.3 Test Specifications:

Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Electrical Parameters
Reference Standard	1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products 2. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

1.4 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1 ° vertical intervals and 22.5 ° horizontal intervals.

2) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.



2.1 Summary of Test Result

Criteria Item	Measured Value			Compliance	Requirement (DLC V4.4)	
Power (W)	2700K	120V	55.93	N/A	N/A	
		277V	55.16			
Power Factor	2700K	120V	0.9955	Pass	$\geq 0.9(-3\%)$	
		277V	0.9310			
THD %	2700K	120V	6.71	Pass	$\leq 20(+5)$	
		277V	7.39			
Luminous Intensity Distribution	Zonal lumens in the 0-90 °		100	Pass	$\geq 100(-1)$	
	Zonal lumens in the 80-90 °		0.3	Pass	$\leq 10(+3)$	
Total Luminous	2700K	120V	6590.4	Pass	$\geq 1000(-10\%)$	
		277V	6555.5			
Luminous Efficacy	2700K	120V	117.83	Pass	Standard: $\geq 95(-3\%)$	Premium: $\geq 115(-3\%)$
		277V	118.85			



2.2 Electrical, Photometric and Chromaticity Measurements

Test date	2019-02-25	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	AOK-55WiE-NV-LV2-00-2770-T3 02-P		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
JAE190121-E1	120.0	60	0.4682	55.93	0.9955	6.71
	277.0	60	0.2139	55.16	0.9310	7.39

Photometric Measurement – Goniophotometer Method:

Parameter	Result	
Test Voltage (V)	120.0	277.0
Frequency (Hz)	60	60
Total Luminous (lm)	6590.4	6555.5
Luminous Efficacy (lm/W)	117.83	118.85
Zonal lumens in the 0-90 °	100	--
Zonal lumens in the 80-90 °	0.3	--
Beam Angle (°)	106.8	--
Center Beam Candle Power (cd)	1573	--

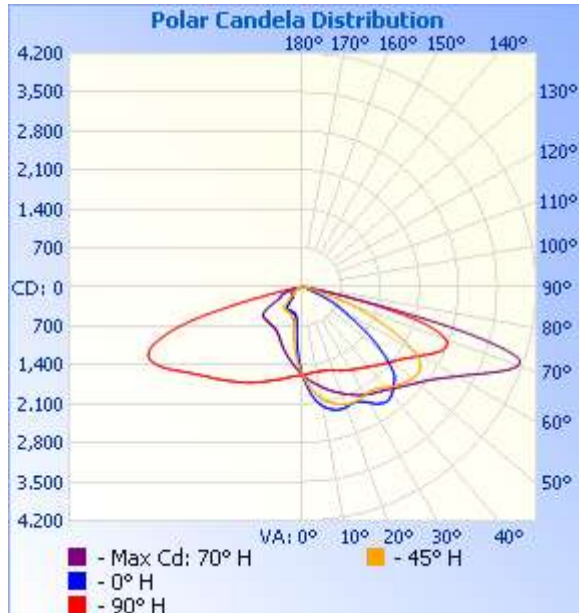


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,251.4	19%
0-40	2,225.7	33.8%
0-60	4,746.0	72%
60-90	1,844.3	28%
70-100	621.9	9.4%
90-120	0	0%
0-90	6,590.3	100%
90-180	0	0%
0-180	6,590.3	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	145.3	2.2%	90-100	0	0%
10-20	417.0	6.3%	100-110	0	0%
20-30	689.1	10.5%	110-120	0	0%
30-40	974.4	14.8%	120-130	0	0%
40-50	1,210.2	18.4%	130-140	0	0%
50-60	1,310.1	19.9%	140-150	0	0%
60-70	1,222.3	18.5%	150-160	0	0%
70-80	599.9	9.1%	160-170	0	0%
80-90	22.0	0.3%	170-180	0	0%

Photometric Data



Illuminance at a Distance

Center Beam fc	Beam Width	Beam Width
3.3ft	144.5 fc	4.4 ft 16.9 ft
6.6ft	36.1 fc	8.8 ft 33.7 ft
9.9ft	16.1 fc	13.2 ft 50.6 ft
13.2ft	9.0 fc	17.7 ft 67.5 ft
16.5ft	5.8 fc	22.1 ft 84.3 ft
19.8ft	4.0 fc	26.5 ft 101.2 ft

■ Vert. Spread: 67.6°
 ■ Horiz. Spread: 137.3°

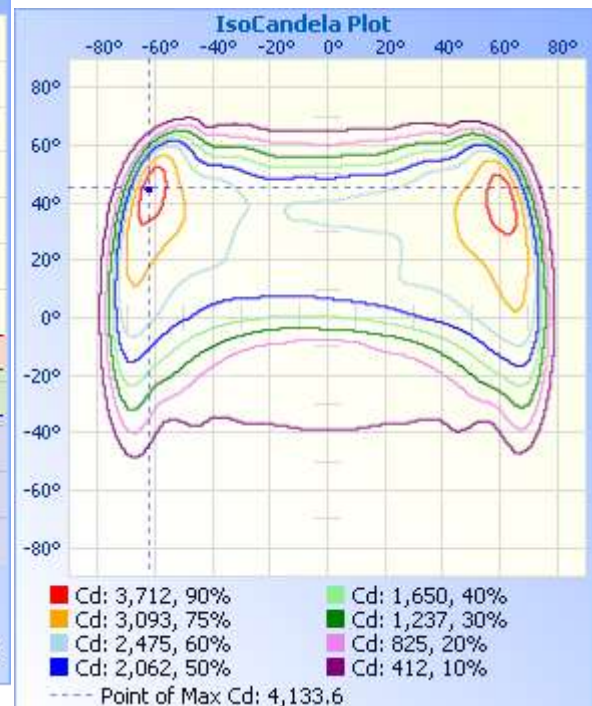
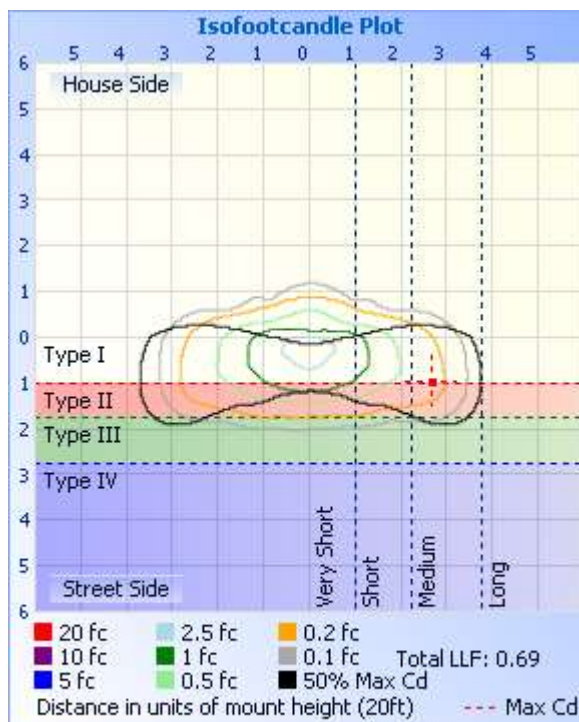




Table--1

UNIT: ed

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573
5	1604	1643	1680	1713	1744	1774	1803	1829	1852	1874	1894	1911	1924	1935	1943	1949	1952	1953	1955
10	1654	1732	1793	1849	1905	1959	2004	2039	2072	2105	2132	2146	2157	2168	2177	2178	2178	2178	2179
15	1719	1829	1908	1984	2058	2127	2172	2204	2236	2265	2284	2288	2291	2294	2295	2292	2288	2285	2282
20	1795	1931	2024	2114	2203	2275	2313	2333	2354	2373	2375	2364	2353	2342	2331	2322	2312	2303	2294
25	1886	2037	2139	2238	2336	2403	2420	2416	2413	2410	2397	2378	2359	2341	2324	2312	2300	2288	2275
30	1980	2139	2245	2349	2451	2507	2497	2463	2430	2399	2393	2397	2400	2403	2403	2401	2399	2397	2394
35	2076	2237	2341	2445	2548	2598	2575	2531	2487	2446	2451	2469	2488	2508	2520	2526	2530	2534	2542
40	2183	2342	2450	2556	2662	2710	2682	2638	2593	2551	2543	2545	2548	2550	2547	2536	2525	2513	2503
45	2303	2466	2578	2689	2800	2846	2813	2765	2717	2669	2629	2592	2556	2521	2486	2450	2414	2377	2345
50	2446	2614	2736	2857	2977	3020	2973	2911	2850	2787	2727	2677	2631	2591	2551	2512	2473	2434	2395
55	2643	2815	2943	3071	3197	3222	3131	3025	2922	2814	2690	2550	2411	2275	2142	2012	1884	1758	1634
60	2882	3073	3216	3357	3495	3465	3253	3024	2799	2575	2351	2127	1904	1683	1464	1247	1032	819	608
65	3041	3286	3488	3688	3881	3758	3302	2818	2342	1881	1602	1340	1076	811	547	284	23	-31	-107
70	2749	3088	3404	3723	4036	3859	3176	2453	1734	1037	822	646	467	287	189	177	170	163	155
75	1439	1552	1661	1783	1920	1832	1475	1073	646	208	165	149	134	117	108	105	103	101	98.5
80	221	210	193	174	153	135	122	108	91.5	71.5	70.9	71.2	71.2	71.0	69.1	65.7	62.1	58.4	54.8
85	4.29	4.82	5.38	5.93	6.46	7.17	8.21	9.45	10.7	11.9	14.4	17.2	19.8	22.4	23.2	22.1	20.8	19.4	17.9
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Table--2

UNIT: cd

C (DEG) Y (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573
5	1947	1940	1932	1922	1909	1894	1878	1859	1837	1813	1788	1760	1728	1695	1662	1627	1590	1552	1513
10	2168	2157	2147	2135	2119	2101	2083	2062	2030	1993	1954	1914	1864	1805	1744	1682	1617	1540	1461
15	2271	2260	2251	2240	2228	2215	2201	2187	2161	2125	2088	2050	1997	1920	1835	1750	1662	1551	1428
20	2288	2282	2276	2271	2266	2263	2259	2255	2241	2212	2183	2153	2106	2025	1927	1828	1726	1588	1415
25	2271	2266	2261	2256	2256	2259	2263	2265	2264	2256	2248	2239	2211	2134	2026	1917	1806	1653	1436
30	2377	2358	2340	2322	2304	2285	2266	2247	2237	2257	2279	2302	2301	2232	2115	1997	1877	1715	1467
35	2519	2499	2480	2458	2422	2372	2322	2273	2243	2278	2317	2355	2372	2309	2189	2067	1946	1782	1511
40	2500	2499	2499	2494	2474	2439	2404	2370	2350	2380	2413	2444	2459	2396	2273	2150	2025	1863	1573
45	2359	2377	2396	2411	2424	2434	2444	2455	2471	2504	2537	2571	2589	2525	2396	2265	2135	1968	1655
50	1991	2040	2087	2134	2203	2292	2383	2476	2565	2613	2660	2707	2739	2679	2540	2399	2259	2084	1747
55	1425	1476	1525	1580	1717	1933	2152	2372	2577	2671	2761	2853	2930	2886	2733	2579	2424	2237	1864
60	887	933	978	1032	1200	1487	1773	2060	2335	2552	2770	2993	3197	3205	3030	2851	2672	2460	1997
65	474	519	564	615	752	973	1192	1409	1649	2113	2594	3083	3543	3655	3437	3213	2986	2724	2143
70	163	170	177	189	273	430	585	737	935	1671	2434	3203	3934	4123	3789	3446	3104	2740	2137
75	101	104	107	110	117	131	142	155	207	815	1418	1996	2525	2641	2408	2177	1966	1763	1358
80	58.8	62.8	66.8	70.6	72.8	73.1	73.2	73.2	74.6	105	132	155	176	210	253	294	332	356	281
85	19.8	21.5	23.1	24.5	24.2	22.0	19.7	17.4	15.1	13.8	12.5	11.0	9.72	8.72	7.89	6.99	6.06	5.17	5.05
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Table--3

UNIT: ed

C (DEG) T (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573
5	1474	1437	1399	1363	1326	1290	1257	1228	1199	1172	1146	1126	1111	1101	1092	1085	1077	1089	1102
10	1382	1302	1220	1135	1051	965	884	826	779	735	693	659	640	633	625	617	609	621	633
15	1304	1179	1061	954	851	750	656	597	571	551	532	517	508	506	506	504	503	507	511
20	1241	1066	915	810	728	650	574	524	511	501	491	483	480	480	481	481	482	484	486
25	1218	1001	816	709	651	595	542	503	494	487	481	475	473	474	476	478	479	480	481
30	1219	971	760	647	604	564	525	496	488	483	477	473	472	476	479	483	487	486	485
35	1241	971	733	612	578	546	515	490	485	481	478	474	473	475	477	479	481	482	482
40	1283	994	734	602	572	544	516	490	470	450	430	410	397	392	387	382	377	380	384
45	1342	1029	743	592	552	514	475	434	393	351	310	272	253	251	251	251	251	249	247
50	1408	1069	752	563	483	404	324	254	243	235	228	223	221	223	225	227	229	226	222
55	1488	1111	753	536	443	354	265	188	189	192	196	200	203	205	208	210	212	208	204
60	1530	1060	610	366	309	258	209	167	169	173	176	180	184	188	193	197	201	195	189
65	1561	977	420	151	144	142	141	141	146	152	158	163	166	166	165	165	165	164	163
70	1541	950	384	112	110	112	113	115	115	116	116	117	116	113	111	109	106	108	109
75	969	593	244	76.6	73.8	73.9	74.0	73.8	69.8	65.5	61.2	56.7	53.2	50.0	47.2	44.5	41.7	44.0	46.2
80	204	134	70.1	40.9	40.9	41.9	43.2	43.8	35.5	26.7	17.9	9.41	5.05	4.27	3.66	3.05	2.44	3.10	3.75
85	4.64	4.18	3.64	3.70	4.45	5.10	5.62	5.82	4.34	2.94	1.77	0.56	0.07	0.04	0.02	0.01	0.00	0.00	0.01
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Table--4

UNIT: ed

C (DEG) T (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355		
0	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573		
5	1115	1130	1149	1172	1201	1230	1261	1292	1327	1366	1406	1446	1486	1525	1565		
10	645	657	682	724	776	831	888	956	1044	1137	1228	1319	1405	1489	1572		
15	515	520	532	553	578	604	637	711	829	954	1080	1208	1336	1465	1593		
20	487	489	496	508	521	535	553	626	734	847	962	1093	1257	1437	1617		
25	482	483	488	496	505	515	528	590	675	764	855	990	1193	1424	1655		
30	484	483	485	492	499	506	517	569	637	707	780	922	1160	1433	1706		
35	483	484	487	492	498	503	511	557	615	673	734	886	1158	1464	1770		
40	388	393	407	431	456	480	504	552	605	658	714	878	1181	1515	1849		
45	244	244	262	298	338	378	420	486	555	624	694	884	1217	1579	1942		
50	218	215	214	216	219	222	230	324	433	542	653	885	1258	1655	2051		
55	200	197	192	188	183	179	178	274	384	496	611	873	1300	1750	2197		
60	184	178	173	168	164	160	157	205	261	321	387	676	1211	1773	2330		
65	162	161	157	151	145	139	133	135	137	140	149	450	1073	1728	2384		
70	111	112	113	112	112	111	110	109	108	107	109	380	945	1537	2137		
75	48.5	51.2	54.1	58.1	61.9	65.7	69.1	69.7	70.1	70.6	73.1	206	484	788	1108		
80	4.42	5.24	9.40	17.3	25.5	33.7	41.4	40.4	38.7	37.3	36.5	52.3	88.0	129	174		
85	0.03	0.05	0.33	1.12	1.83	2.74	3.74	3.79	3.59	3.27	2.84	2.89	3.34	3.73	4.09		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		



2.4 Performance Assessment:

Model name	CCT(K)	Total Luminous (lm)	Power (W)	Luminous Efficacy (lm/W)
AOK-55WiE-NV-LV2-00-2770-T302-P	2700K	6590.4	55.93	117.83
AOK-55WiE-NV-LV2-00-3070-T302-P	3000K	6627.1	55.93	118.49
AOK-55WiE-NV-LV2-00-3570-T302-P	3500K	6688.4	55.93	119.59
AOK-55WiE-NV-LV2-00-4070-T302-P	4000K	6749.1	55.93	120.67
AOK-55WiE-NV-LV2-00-4570-T302-P	4500K	6807.1	55.93	121.71
AOK-55WiE-NV-LV2-00-5070-T302-P	5000K	6867.7	55.93	122.79
AOK-55WiE-NV-LV2-00-5770-T302-P	5700K	6905.2	55.93	123.46

According to the test report JAE190121-A-R

Scaled Methodology Explanation:

18W 3000K eff / 18W 2700K eff = 132.02 / 131.29 = 1.0056

18W 3500K eff / 18W 2700K eff = 133.24 / 131.29 = 1.0149

18W 4000K eff / 18W 2700K eff = 134.45 / 131.29 = 1.0241

18W 4500K eff / 18W 2700K eff = 135.61 / 131.29 = 1.0329

18W 5000K eff / 18W 2700K eff = 136.82 / 131.29 = 1.0421

18W 5700K eff / 18W 2700K eff = 137.56 / 131.29 = 1.0478

3000K eff = 2700K eff * 1.0056

3500K eff = 2700K eff * 1.0149

4000K eff = 2700K eff * 1.0241

4500K eff = 2700K eff * 1.0329

5000K eff = 2700K eff * 1.0421

5700K eff = 2700K eff * 1.0478



3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-714	Goniophotometer system	Verified by D908S standard lamp	
ST-R-710	Standard Lamp	2019-02-12	2020-02-11
ST-R-711	Power Meter for Goniophotometer	2019-01-06	2020-01-05
Uncertainty: Photometric Measurement(Goniophotometer):1.62%			

4. Product Photo



******* END OF REPORT *******