



Ningbo TengLi Testing Co., Ltd

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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-150WiE-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-150WiE-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-H-R1.	
Representative (Tested) Model	AOK-150WiE-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-H1	
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	150W
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 $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 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 $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. 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	150.2	N/A	N/A	
		277V	146.5			
Power Factor	2700K	120V	0.9960	Pass	$\geq 0.9(-3\%)$	
		277V	0.9179			
THD %	2700K	120V	5.62	Pass	$\leq 20(+5)$	
		277V	6.78			
Luminous Intensity Distribution	Zonal lumens in the 0-90 °		100	Pass	$\geq 100(-1)$	
	Zonal lumens in the 80-90 °		0.5	Pass	$\leq 10(+3)$	
Total Luminous	2700K	120V	18451	Pass	$\geq 1000(-10\%)$	
		277V	18385			
Luminous Efficacy	2700K	120V	122.84	Pass	Standard: $\geq 100(-3\%)$	Premium: $\geq 120(-3\%)$
		277V	125.49			



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-150WiE-NV-LV2-00-2770-T 302-P		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
JAE190121-H1	120.0	60	1.257	150.2	0.9960	5.62
	277.0	60	0.5762	146.5	0.9179	6.78

Photometric Measurement – Goniophotometer Method:

Parameter	Result	
Test Voltage (V)	120.0	277.0
Frequency (Hz)	60	60
Total Luminous (lm)	18451	18385
Luminous Efficacy (lm/W)	122.84	125.49
Zonal lumens in the 0-90 °	100	--
Zonal lumens in the 80-90 °	0.5	--
Beam Angle (°)	106.1	--
Center Beam Candle Power (cd)	3821	--

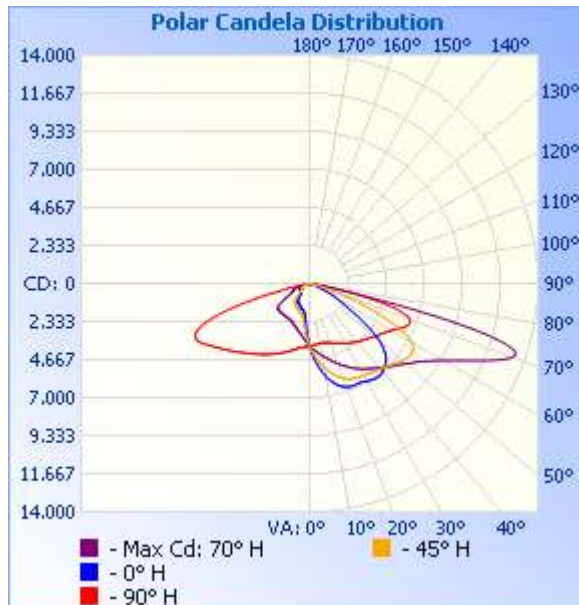


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	3,404.4	18.5%
0-40	6,115.2	33.1%
0-60	13,187.2	71.5%
60-90	5,263.8	28.5%
70-100	1,763.1	9.6%
90-120	0	0%
0-90	18,451.0	100%
90-180	0	0%
0-180	18,451.0	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	358.9	1.9%	90-100	0	0%
10-20	1,117.6	6.1%	100-110	0	0%
20-30	1,928.0	10.4%	110-120	0	0%
30-40	2,710.7	14.7%	120-130	0	0%
40-50	3,369.0	18.3%	130-140	0	0%
50-60	3,703.0	20.1%	140-150	0	0%
60-70	3,500.7	19.0%	150-160	0	0%
70-80	1,676.7	9.1%	160-170	0	0%
80-90	86.4	0.5%	170-180	0	0%

Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
3.3ft	350.8 fc	3.3 ft	4.4 ft
6.6ft	87.7 fc	6.5 ft	8.8 ft
9.9ft	39.0 fc	9.8 ft	13.2 ft
13.2ft	21.9 fc	13.1 ft	17.6 ft
16.5ft	14.0 fc	16.3 ft	22.0 ft
19.8ft	9.7 fc	19.6 ft	26.4 ft

■ Vert. Spread: 52.7°
■ Horiz. Spread: 67.3°

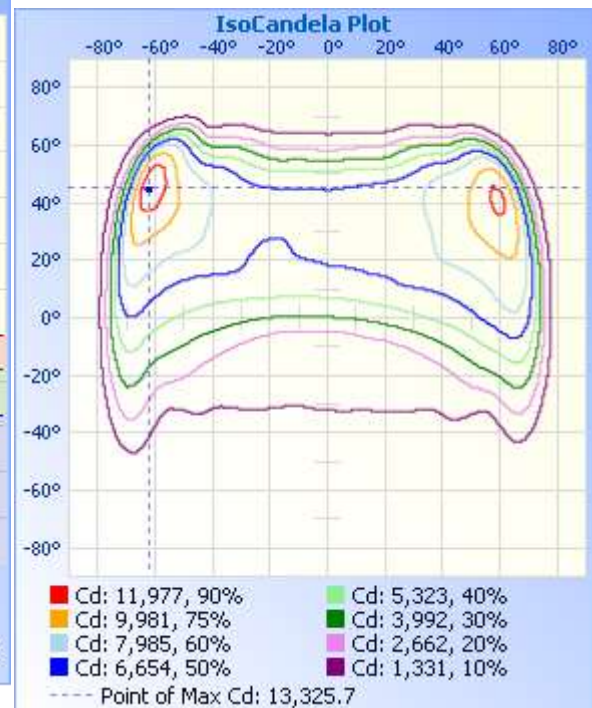
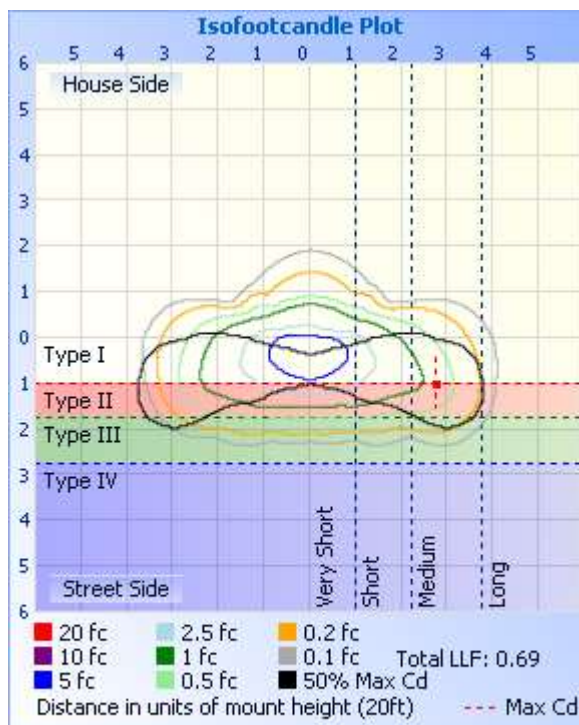




Table--1

UNIT: $\times 10^3$

C (DEG) T (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
5	388	399	409	418	427	436	444	452	458	465	471	476	480	483	486	488	489	490	490
10	402	423	441	458	475	491	505	516	528	539	548	554	560	565	570	572	573	575	577
15	423	454	479	503	527	549	566	579	592	604	613	619	624	629	633	635	637	638	640
20	447	486	516	546	576	601	618	630	643	655	661	664	667	670	671	672	672	673	673
25	473	516	551	586	621	647	660	668	676	684	687	687	687	687	686	685	683	682	680
30	500	548	587	627	665	691	698	698	699	699	697	694	691	688	686	687	688	690	691
35	528	579	622	664	706	731	732	727	722	716	713	710	708	705	704	705	705	706	707
40	560	613	659	705	750	774	769	758	747	737	730	725	720	715	711	708	705	702	700
45	595	652	701	749	797	820	810	794	778	762	748	735	723	710	699	690	681	672	663
50	638	698	752	805	857	878	862	840	818	796	765	733	702	671	646	628	610	591	574
55	684	754	817	879	941	959	928	891	854	817	750	680	610	541	493	467	441	415	389
60	741	826	906	984	1061	1068	999	923	848	773	674	572	469	367	305	282	261	241	219
65	773	886	993	1099	1203	1184	1036	877	721	570	479	393	307	221	170	155	142	129	116
70	655	781	905	1034	1162	1130	930	715	499	288	228	181	134	85.6	60.3	57.7	56.7	55.2	53.9
75	294	310	322	336	356	340	282	213	140	63.7	54.7	50.2	45.5	40.5	37.5	36.7	36.0	35.3	34.5
80	55.0	55.0	54.2	53.1	51.6	48.1	42.6	36.4	29.6	22.3	22.3	22.7	23.0	23.3	23.1	22.2	21.3	20.4	19.5
85	2.59	3.25	3.94	4.63	5.32	5.82	6.09	6.32	6.49	6.62	7.10	7.59	8.06	8.51	8.57	8.25	7.88	7.49	7.07
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--2

UNIT: *10ed

C (DEG) T (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
5	488	487	484	481	478	473	468	463	456	449	441	433	424	415	406	396	386	375	364
10	573	569	566	561	555	547	540	532	520	508	495	482	466	448	430	412	393	371	349
15	636	631	627	622	614	606	598	589	576	561	545	528	509	485	459	432	406	375	341
20	669	666	662	659	652	645	637	629	619	603	588	572	552	524	491	458	424	386	343
25	679	678	677	675	670	663	656	649	641	630	620	610	594	563	524	485	445	402	352
30	687	683	679	674	670	665	660	656	651	648	645	642	632	603	559	514	470	422	367
35	701	695	689	683	679	675	671	667	664	666	668	670	665	636	588	541	493	441	381
40	698	696	694	692	690	688	685	683	682	689	695	702	703	674	622	570	518	463	398
45	668	673	678	682	687	690	693	697	702	714	726	739	744	715	658	600	542	482	413
50	587	602	616	629	647	669	691	713	735	752	768	784	794	765	702	638	574	508	433
55	410	431	451	473	515	575	637	700	759	786	813	840	861	832	759	686	612	536	450
60	237	254	271	291	347	442	537	633	724	785	845	908	962	942	853	761	670	575	465
65	128	140	152	166	213	293	372	450	534	675	821	971	1110	1116	999	878	756	633	500
70	55.4	57.0	58.3	61.0	84.9	130	174	217	277	525	783	1042	1287	1323	1158	989	822	654	513
75	35.7	36.8	37.9	39.1	42.4	47.8	52.8	57.7	76.2	289	501	705	892	915	798	681	573	476	367
80	20.8	22.0	23.2	24.4	25.0	25.1	25.1	25.1	26.0	44.4	61.8	77.9	92.7	103	108	112	114	111	89.1
85	7.78	8.46	9.11	9.72	9.94	9.75	9.53	9.30	9.17	10.5	11.7	12.6	13.4	12.9	11.5	9.97	8.49	7.03	6.09
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	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: *10ed

C (DEG) T (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382
5	353	343	333	322	312	303	294	286	279	272	265	261	258	256	254	252	250	253	256
10	326	304	284	266	249	232	216	207	201	196	191	187	185	184	184	183	182	184	186
15	307	274	247	228	213	198	184	176	172	170	167	165	164	164	164	164	164	166	167
20	301	258	224	205	193	182	172	165	162	159	157	155	154	154	154	154	154	155	157
25	303	254	213	192	182	173	165	158	155	152	149	147	145	145	145	145	144	146	147
30	311	256	209	184	175	167	159	152	148	145	141	138	136	136	136	136	136	137	138
35	321	262	209	181	171	163	154	146	141	136	132	127	125	125	124	124	124	125	126
40	333	269	210	179	168	158	147	137	128	119	110	101	95.7	93.7	91.9	90.2	88.5	89.4	90.3
45	344	275	211	172	155	138	121	105	96.6	88.7	81.0	73.9	70.2	69.7	69.4	69.2	68.9	68.7	68.4
50	358	282	210	163	137	112	86.0	64.2	63.0	62.9	62.9	63.0	63.6	64.5	65.5	66.5	67.5	66.2	64.9
55	363	276	193	142	119	96.4	74.4	55.4	55.9	57.1	58.4	59.6	60.9	62.1	63.4	64.6	65.9	64.3	62.6
60	353	241	134	78.6	69.5	61.8	54.7	48.9	50.1	51.6	53.1	54.6	56.4	58.5	60.6	62.7	64.7	62.2	59.7
65	366	232	105	43.1	41.9	41.9	41.9	42.1	43.7	45.2	46.8	48.3	49.5	50.3	51.2	52.0	52.8	51.5	50.2
70	372	233	98.6	34.0	33.3	33.5	33.7	33.9	34.0	34.2	34.3	34.4	34.5	34.6	34.6	34.7	34.8	34.3	33.7
75	264	164	69.3	23.5	22.6	22.3	22.1	21.9	21.0	20.1	19.2	18.4	17.6	17.0	16.4	15.9	15.4	15.5	15.7
80	64.4	41.7	21.6	11.9	11.2	10.8	10.4	9.94	8.14	6.28	4.36	2.50	1.63	1.31	1.00	0.67	0.34	0.65	0.94
85	5.08	4.16	3.33	2.73	2.31	1.91	1.53	1.16	0.87	0.61	0.39	0.16	0.06	0.04	0.02	0.01	0.00	0.01	0.02
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--4

UNIT: $\times 10^6$ ed

C (DEG) T (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355			
0	382	382	382	382	382	382	382	382	382	382	382	382	382	382	382			
5	259	262	266	272	279	287	295	304	313	324	334	345	356	367	377			
10	188	190	193	199	207	214	223	234	253	273	293	314	335	358	380			
15	168	170	172	177	182	187	193	205	225	245	266	290	319	354	389			
20	159	160	163	167	171	176	181	193	210	227	245	271	309	355	402			
25	149	151	153	158	162	167	172	183	198	213	229	257	305	361	417			
30	139	140	143	148	152	157	162	174	189	203	218	250	306	371	435			
35	127	128	131	136	142	148	154	166	181	196	211	248	312	384	456			
40	91.2	92.5	98.1	108	119	130	141	157	173	190	207	248	321	400	480			
45	68.2	68.1	71.1	77.4	84.3	91.4	99.5	122	148	173	199	250	332	420	508			
50	63.7	62.5	61.6	61.1	60.6	60.2	61.2	89.1	122	155	189	250	343	441	540			
55	61.0	59.4	57.9	56.5	55.1	53.8	53.4	76.2	103	130	159	226	337	453	569			
60	57.2	54.7	52.6	51.1	49.5	48.0	46.8	53.0	60.8	69.1	79.3	152	295	444	593			
65	48.9	47.6	46.2	44.7	43.2	41.6	40.2	40.0	40.0	40.1	41.7	117	274	440	606			
70	33.2	32.7	32.3	32.1	32.0	31.8	31.6	31.5	31.4	31.3	32.2	95.6	228	368	510			
75	15.9	16.1	16.6	17.3	18.1	18.8	19.5	19.8	20.0	20.3	20.9	47.7	104	165	229			
80	1.21	1.50	2.22	3.73	5.30	6.82	8.31	8.69	8.98	9.27	9.67	13.8	22.5	32.3	43.1			
85	0.04	0.06	0.10	0.24	0.36	0.51	0.69	0.91	1.12	1.36	1.62	1.85	2.03	2.23	2.43			
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-150WiE-NV-LV2-00-2770-T302-P	2700K	18451	150.2	122.84
AOK-150WiE-NV-LV2-00-3070-T302-P	3000K	18554	150.2	123.53
AOK-150WiE-NV-LV2-00-3570-T302-P	3500K	18725	150.2	124.67
AOK-150WiE-NV-LV2-00-4070-T302-P	4000K	18895	150.2	125.80
AOK-150WiE-NV-LV2-00-4570-T302-P	4500K	19058	150.2	126.88
AOK-150WiE-NV-LV2-00-5070-T302-P	5000K	19227	150.2	128.01
AOK-150WiE-NV-LV2-00-5770-T302-P	5700K	19333	150.2	128.71

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 *****