

Photometric Test Report

Relevant Standards

- ☒ IES LM-79-2008
- ☒ ANSI C82.77:2017

Prepared For

RAB Lighting Inc.

Room 6A33, No.1388, Wuzhong road, Shanghai, China

Xiao Xiang, 15921313292, Gary.Xiao@rabweb.com

Prepared By

Deliver Co., Ltd.

Block 11, 78 Keling Road, SSTP, Suzhou, China

0512-66801950, kevin.jia@szdeliver.com

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Issue Date

2022/7/30

Prepared By



Wangzun Zhu

Approved By



Kevin Jia

The results contained in this report pertain only to the tested sample.

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1.0 Test Summary

DLC Technical Requirements v5.1

Outdoor - Pole/Arm-Mounted Area and Roadway Luminaires				
Requirement Category	Test Method	Requirements		Test value
Luminaire Output (lm) (Goniophotometer - Section 4.2)	IES LM-79-2008	1000		5913
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	143.2
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		41.3
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.25%
		20.00%	277V	10.03%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.881
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3985±275	3799
		4 step	3985±154	
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥70		82
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥-40		4
Minimum Rf (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥70		83
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89		93
Minimum IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-18%≤IES Rcs,h1≤+23%		-13%
Zonal Lumen Requirement (0°-90°) (Goniophotometer - Section 4.2)	IES LM-79-2008	100%		100.00%
Zonal Lumen Requirement (80°-90°) (Goniophotometer - Section 4.2)	IES LM-79-2008	≤10%		0.18%
Input Voltage (V)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		120
(Goniophotometer - Section 4.2)		Non-Worst Case		277
Input Current (A)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		0.346
(Goniophotometer - Section 4.2)		Non-Worst Case		0.167
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		41.3
(Goniophotometer - Section 4.2)		Non-Worst Case		40.7

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2022/7/29	ALEDSATN	M1
2	Goniophotometer Test	2022/7/29	ALEDSATN	M1
3	THD and PF Test	2022/7/29	ALEDSATN	M1

Remark(If any)

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- 2、 The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

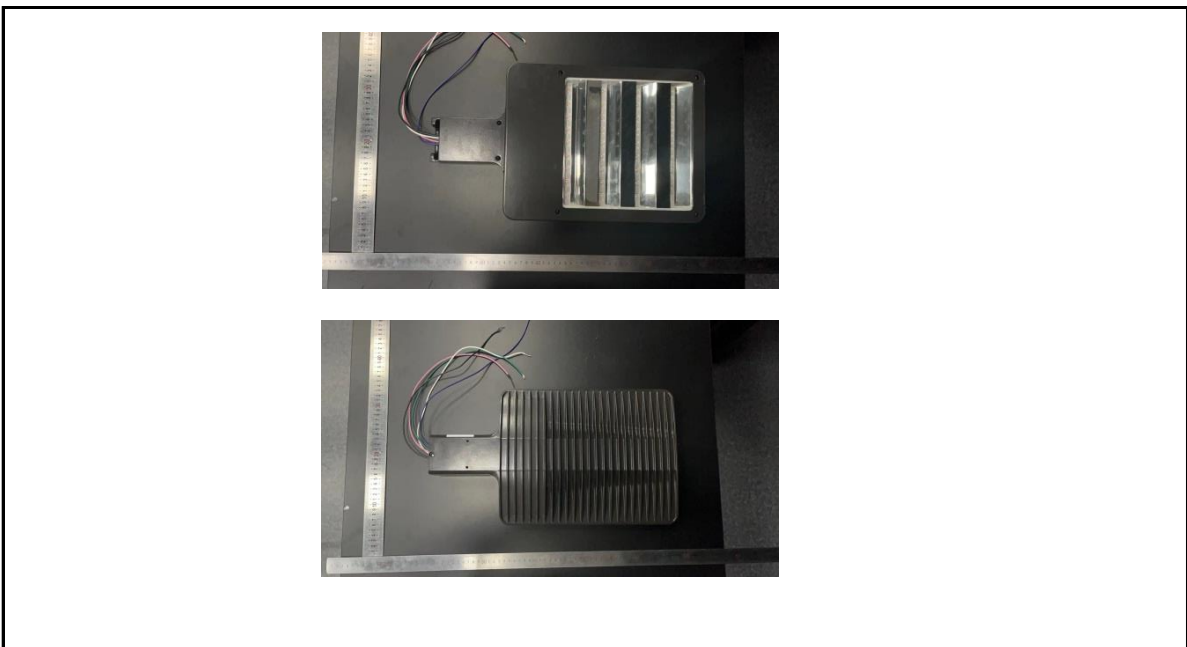
3.0 Production Description

Luminaire Description: ALEDSATN

Description: 40W @ 4000K

Electrical Specification: 120V-277V,50/60HZ

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	ALEDSATN	Sample ID.	M1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	56.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The sample was measured using 4π geometry and 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 Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.00	60	0.346	41.3	0.995
277.00	60	0.167	40.7	0.881

Test Result

CCT (K)	CRI	R9	Duv
3799	82	4	0.0012

Rf	Rg	IES Rcs,h1
83	93	-13%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDSATN	Sample ID.	M1
Opreate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	54.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric paramters were measured using a type C 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 voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.00	60	0.346	41.3	0.995
NON-WROST CASE	277.00	60	0.167	40.7	0.881

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5913	93.1	153.6	45.0	137.0	143.2

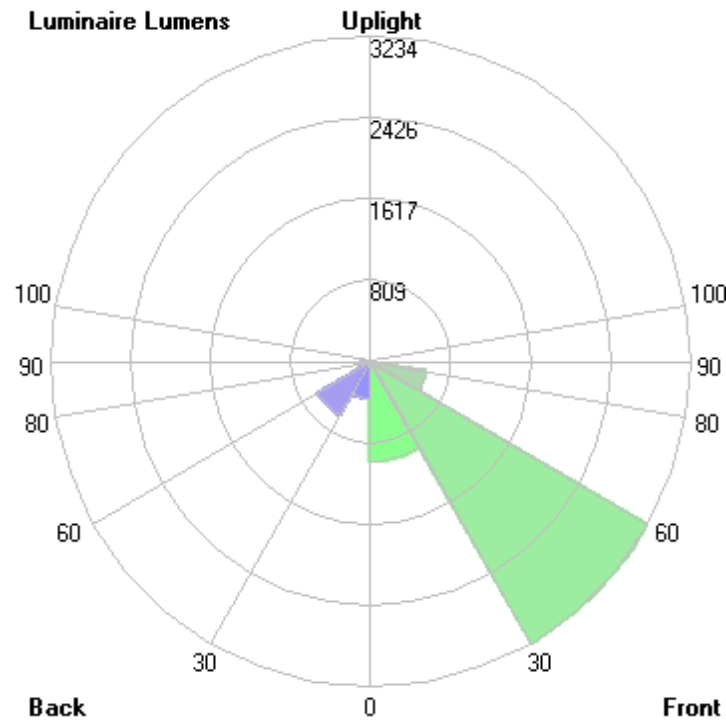
Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.18%	B1-U0-G1

4.2 Goniophotometer Test

	Zonal (lm)		Total (lm)	Percent
0-10	127.36	0 - 10	127.36	2.15%
10-20	436.34	0 - 20	563.70	9.53%
20-30	805.81	0 - 30	1369.51	23.16%
30-40	1228.89	0 - 40	2598.40	43.95%
40-50	1443.4	0 - 50	4041.80	68.36%
50-60	1178.52	0 - 60	5220.32	88.29%
60-70	570.21	0 - 70	5790.53	97.93%
70-80	111.39	0 - 80	5901.92	99.82%
80-90	10.79	0 - 90	5912.71	100.00%
90-100	0.00	0 - 100	5912.71	100.00%
100-110	0.00	0 - 110	5912.71	100.00%
110-120	0.00	0 - 120	5912.71	100.00%
120-130	0.00	0 - 130	5912.71	100.00%
130-140	0.00	0 - 140	5912.71	100.00%
140-150	0.00	0 - 150	5912.71	100.00%
150-160	0.00	0 - 160	5912.71	100.00%
160-170	0.00	0 - 170	5912.71	100.00%
170-180	0.00	0 - 180	5912.71	100.00%

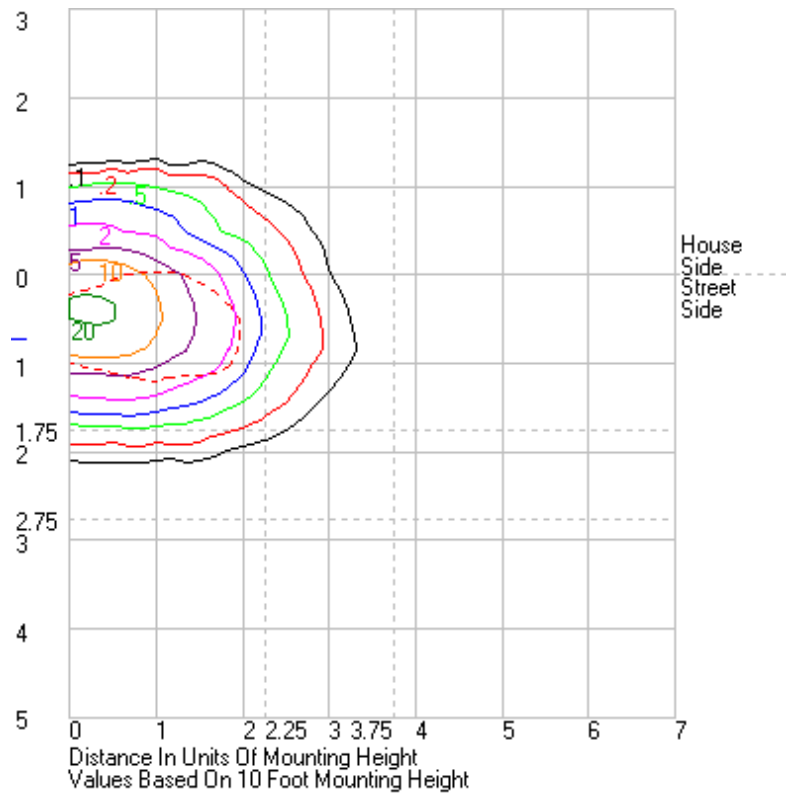
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	994.4	N.A.	16.8
FM - Front-Medium (30-60)	3234.1	N.A.	54.7
FH - Front-High (60-80)	567.1	N.A.	9.6
FVH - Front-Very High (80-90)	8.3	N.A.	0.1
BL - Back-Low (0-30)	375.1	N.A.	6.3
BM - Back-Medium (30-60)	616.8	N.A.	10.4
BH - Back-High (60-80)	114.5	N.A.	1.9
BVH - Back-Very High (80-90)	2.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5912.8	N.A.	100.0
BUG Rating	B1-U0-G1		

Isolines



4.2 Goniophotometer Test

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360
0	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66	1162.66
1	1212.32	1210.66	1208.06	1201.09	1192.73	1182.26	1170.04	1156.14	1143.21	1132.21	1122.7	1116.62	1114.91	1116.62	1122.7	1132.21	1143.21	1156.14	1170.04	1182.26	1192.73	1201.09	1208.06	1210.66	1212.32
2	1285.47	1283.21	1269.48	1249.95	1226.66	1205.11	1179.97	1153.16	1128.05	1112.41	1101.09	1092.9	1091.84	1092.9	1101.09	1112.41	1128.05	1153.16	1179.97	1205.11	1226.66	1249.95	1269.48	1283.21	1285.47
3	1365.92	1359.78	1344.36	1314.68	1271.84	1230.97	1194.67	1154.7	1125.53	1104.93	1089.83	1079.97	1077.36	1079.97	1089.83	1104.93	1125.53	1154.7	1194.67	1230.97	1271.84	1314.68	1344.36	1359.78	1365.92
4	1464.22	1457.86	1430.34	1382.23	1328.3	1263.45	1214.39	1159.81	1127.62	1103.18	1085.76	1072.35	1067.71	1072.35	1085.76	1103.18	1127.62	1159.81	1214.39	1263.45	1328.3	1382.23	1430.34	1457.86	1464.22
5	1557	1547.96	1519.16	1464.46	1386.91	1302.36	1235.84	1171.57	1134.26	1107.14	1082.63	1063.9	1057.92	1063.9	1082.63	1107.14	1134.26	1171.57	1235.84	1302.36	1386.91	1464.46	1519.16	1547.96	1557
6	1638.23	1632.46	1606	1547.02	1449.99	1344.36	1257.98	1186.77	1144.51	1111.66	1080.47	1056.81	1047.85	1056.81	1080.47	1111.66	1144.51	1186.77	1257.98	1344.36	1449.99	1547.02	1606	1632.46	1638.23
7	1715.04	1710.93	1687.21	1629.32	1520.1	1388.66	1280.96	1200.21	1157.26	1116.27	1077.9	1046.96	1036.2	1046.96	1077.9	1116.27	1157.26	1200.21	1280.96	1388.66	1520.1	1629.32	1687.21	1710.93	1715.04
8	1785.05	1781.32	1763.54	1704.29	1586.31	1430	1302.18	1214.34	1168.2	1119.83	1073.14	1036.72	1021.55	1036.72	1073.14	1119.83	1168.2	1214.34	1302.18	1430	1586.31	1704.29	1763.54	1781.32	1785.05
9	1852.98	1854.04	1837.09	1776.41	1652.99	1471.09	1321.49	1225.94	1176.52	1122.38	1065.55	1013.65	993.671	1013.65	1065.55	1122.38	1176.52	1225.94	1321.49	1471.09	1652.99	1776.41	1837.09	1854.04	1852.98
10	1926.3	1926.94	1910.76	1845.24	1713.94	1511.95	1342.18	1240.13	1185.64	1122.11	1047.1	983.223	956.783	983.223	1047.1	1122.11	1185.64	1240.13	1342.18	1511.95	1713.94	1845.24	1910.76	1926.94	1926.3
11	1996.38	2002.66	1986.08	1911.77	1773.35	1552.91	1361.73	1253.34	1193.24	1118.34	1023.2	939.933	906.843	939.933	1023.2	1118.34	1193.24	1253.34	1361.73	1552.91	1773.35	1911.77	1986.08	2002.66	1996.38
12	2070.06	2077.69	2063.73	1979.44	1831.19	1597.41	1380.51	1266.85	1198.9	1106.73	985.692	881.798	840.107	881.798	985.692	1106.73	1198.9	1266.85	1380.51	1597.41	1831.19	1979.44	2063.73	2077.69	2070.06
13	2139.47	2151.22	2141.05	2044.85	1888.35	1641.96	1401.39	1281.1	1205.06	1088.19	939.306	810.988	757.704	810.988	939.306	1088.19	1205.06	1281.1	1401.39	1641.96	1888.35	2044.85	2141.05	2151.22	2139.47
14	2207.23	2226.1	2218.96	2114.77	1944.7	1687.27	1421.64	1297.42	1209.91	1063.5	880.847	729.542	675.296	729.542	880.847	1063.5	1209.91	1297.42	1421.64	1687.27	1944.7	2114.77	2218.96	2226.1	2207.23
15	2275.01	2297.62	2293.6	2187.09	2001.97	1733.87	1446.2	1315.06	1211.64	1030.54	809.222	645.086	590.051	645.086	809.222	1030.54	1211.64	1315.06	1446.2	1733.87	2001.97	2187.09	2293.6	2297.62	2275.01
16	2332.81	2366.55	2369.49	2262.41	2063.51	1782.38	1471.93	1334.13	1211.28	990.219	735.727	563.688	507.859	563.688	735.727	990.219	1211.28	1334.13	1471.93	1782.38	2063.51	2262.41	2369.49	2366.55	2332.81
17	2392.46	2432.39	2441.25	2336.08	2125.73	1834.01	1500.39	1356.15	1206.76	942.564	660.05	485.336	433.425	485.336	660.05	942.564	1206.76	1356.15	1500.39	1834.01	2125.73	2336.08	2441.25	2432.39	2392.46
18	2449.05	2493.63	2510.86	2407.32	2192.76	1887.13	1530.1	1378.61	1198.35	887.978	586.691	420.264	374.744	420.264	586.691	887.978	1198.35	1378.61	1530.1	1887.13	2192.76	2407.32	2510.86	2493.63	2449.05
19	2500.29	2554.49	2578.47	2477.65	2262.14	1945.67	1562.9	1403.98	1185.61	828.924	518.275	367.661	333.275	367.661	518.275	828.924	1185.61	1403.98	1562.9	1945.67	2262.14	2477.65	2578.47	2554.49	2500.29
20	2548.14	2613.23	2645.23	2546.42	2334.24	2005.34	1597.86	1429.71	1168.39	768.498	457.779	335.7	306.079	335.7	457.779	768.498	1168.39	1429.71	1597.86	2005.34	2334.24	2546.42	2645.23	2613.23	2548.14
21	2597.06	2670.41	2709.87	2616.76	2406.48	2067.67	1634.49	1452.82	1144.97	709.358	409.654	309.553	291.309	309.553	409.654	709.358	1144.97	1452.82	1634.49	2067.67	2406.48	2616.76	2709.87	2670.41	2597.06
22	2650.53	2731.35	2772.52	2689.33	2478.86	2128.86	1672.71	1474.56	1116.2	653.459	376.267	296.922	286.722	296.922	376.267	653.459	1116.2	1474.56	1672.71	2128.86	2478.86	2689.33	2772.52	2731.35	2650.53
23	2703.77	2790.99	2840.74	2764.24	2554.8	2191.33	1712.86	1493.91	1081.23	596.167	352.005	293.978	288.094	293.978	352.005	596.167	1081.23	1493.91	1712.86	2191.33	2554.8	2764.24	2840.74	2790.99	2703.77
24	2744.28	2846.88	2910.74	2839.04	2628.57	2252.96	1753.54	1510.53	1043.38	543.655	332.837	297.289	293.951	297.289	332.837	543.655	1043.38	1510.53	1753.54	2252.96	2628.57	2839.04	2910.74	2846.88	2744.28
25	2776.61	2893.82	2989.29	2915.47	2703.98	2315.52	1795.09	1526.58	1001.18	496.06	324.296	304.285	300.217	304.285	324.296	496.06	1001.18	1526.58	1795.09	2315.52	2703.98	2915.47	2989.29	2893.82	2776.61
26	2792.43	2934.08	3067.37	2994.57	2778.6	2375.32	1837.61	1538.19	955.768	459.691	323.929	310.871	307.035	310.871	323.929	459.691	955.768	1538.19	1837.61	2375.32	2778.6	2994.57	3067.37	2934.08	2792.43
27	2777.09	2955.01	3144.06	3074.12	2853.07	2437.14	1878.94	1546.95	908.064	425.721	330.249	318.342	313.113	318.342	330.249	425.721	908.064	1546.95	1878.94	2437.14	2853.07	3074.12	3144.06	2955.01	2777.09
28	2777.79	2960.15	3217.27	3158.06	2928.62	2500.72	1921.1	1551.2	859.805	400.81	338.515	325.398	316.246	325.398	338.515	400.81	859.805	1551.2	1921.1	2500.72	2928.62	3158.06	3217.27	2960.15	2777.79
29	2787.79	2984.46	3278.15	3244.99	3007.93	2562.11	1961.35	1552.9	808.66	381.659	347.494	330.158	315.177	330.158	347.494	381.659	808.66	1552.9	1961.35	2562.11	3007.93	3244.99	3278.15	2984.46	2787.79
30	2811.87	3020.57	3319.85	3336.17	3086.15	2622.8	2000.8	1548.06	755.986	369.73	359.114	329.904	309.634	329.904	359.114	369.73	755.986	1548.06	2000.8	2622.8	3086.15	3336.17	3319.85	3020.57	2811.87
31	2829.88	3060.23	3360.96	3426.33	3165.11	2683.23	2038.58	1539.76	705.263	367.494	369.179	325.468	300.158	325.468	369.179	367.494	705.263	1539.76	2038.58	2683.23	3165.11	3426.33	3360.96	3060.23	2829.88
32	2848.69	3092.75	3402.39	3516.78	3243.36	2740.04	2075.37	1526.85	655.556	371.491	374.538	317.683	290.59	317.683	374.538	371.491	655.556	1526.85	2075.37	2740.04	3243.36	3516.78	3402.39	3092.75	2848.69
33	2851.21	3119.36	3452.08	3608.25	3319.81	2797.39	2109.5	1508.09	607.182	377.634	375.03	310.228	282.967	310.228	375.03	377.634	607.182	1508.09	2109.5	2797.39	3319.81	3608.25	3452.08	3119.36	2851.21
34	2836.79	3130.3	3501.43	3681.83	3390.5	2853.38	2139.01	1486.24	567.939	385.759	371.448	304.653	274.642	304.653	371.448	385.759	567.939	1486.24	2139.01	2853.38	3390.5	3681.83	3501.43	3130.3	2836.79
35	2818.02	3129.26	3543.11	3751.16	3458.93	2906.84	2165.98	1458.86	531.019	396.564	364.614	298.499	265.381	298.499	364.614	396.564	531.019	1458.86	2165.98	2906.84	3458.93	3751.16	3543.11	3129.26	2818.02
36	2808.68	3129.23	3580.83	3812.98	3524.06	2959.92	2191.43	1424.31	496.617	407.774	358.039	292.206	255.21	292.206	358.039	407.774	496.617	1424.31	2191.43	2959.92	3524.06	3812.98	3580.83	3129.23	2808.68
37	2807.81	3129.37	3607.71	3869.51	3584.92	3007.64	2216.25	1386.69	471.306	413.949	351.956	284.183	243.789	284.183	351.956	413.949	471.306	1386.69	2216.25	3007.64	3584.92	3869.51	3607.71	3129.37	2807.81
38	2809.95	3130.26	3638.7	3919.04	3646.43	3051.48	2238.55	1343.52	450.512	417.223	347.056	275.361	231.753												

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160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	ALEDSATN	Sample ID.	M1
Temperature (°C)	25.3	Humidity (%RH)	56.0

Test Method

The samples were tested according to the ANSI C82.77:2002.

The total harmonic distortion shall be measured to the 40th order.

The ambient temperature condition was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a digital power meter and power supply. The sample was operated at rated voltage and was stabilized before measurement. The total harmonic distortion were calculated.

Test Results

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD
120.00	60	0.346	41.3	0.995	5.25%
277.00	60	0.167	40.7	0.881	10.03%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2021/12/26	2022/12/25
DLF108	Auxiliary Lamp	2021/12/26	2022/12/25
DLF122	Measurement Standard Lamp Standard Lamp Type: 220 V, 0.4720 A, Tungsten, Omni-derectional	2021/12/26	2022/12/25
DLF116	AC Power Source	2021/12/26	2022/12/25
DLF113	Power Meter	2021/12/26	2022/12/25
DLF112	Temperature Recorder	2021/12/26	2022/12/25
DLF114	Temperature & Humidity Datalogger	2021/12/26	2022/12/25
DLF101	Goniophotometer	2021/12/26	2022/12/25
DLF125	Standard Lamp Standard Lamp Type: 76.58 V, 6.7875 A, Tungsten, Omni-derectional	2021/12/26	2022/12/25
DLF104	AC Power Source	2021/12/26	2022/12/25
DLF507	DC Power Source	2021/12/26	2022/12/25
DLF102	Power Meter	2021/12/26	2022/12/25
DLF111	Temperature & Humidity Datalogger	2021/12/26	2022/12/25
DLF119	Power Meter	2021/12/26	2022/12/25
DLF031	Temperature data logger	2021/12/26	2022/12/25
DLF022	Digital power meter	2021/12/26	2022/12/25
DLF003	Temperature & Humidity Datalogger	2021/12/26	2022/12/25

***** End of Test Report*****