

# Photometric Test Report

## Relevant Standards

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

## Prepared For

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## Project Number

**DLF2207109**

## Report Number

**DLF2207109-8aMOD40W**

## Test Date

**2022/7/29**

## Issue Date


**2022/7/30**

## Prepared By



Wangzun Zhu

## Approved By



Kevin Jia

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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		5861
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	145.4
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.3
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.49%
		20.00%	277V	10.91%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.878
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	5029±355	4794
		4 step	5029±220	
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		0
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		94
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%		0.17%
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		0.338
(Goniophotometer - Section 4.2)		Non-Worst Case		0.164
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.3
(Goniophotometer - Section 4.2)		Non-Worst Case		39.9

## 2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2022/7/29	ALEDSAT	O1
2	Goniophotometer Test	2022/7/29	ALEDSAT	O1
3	THD and PF Test	2022/7/29	ALEDSAT	O1

### 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.

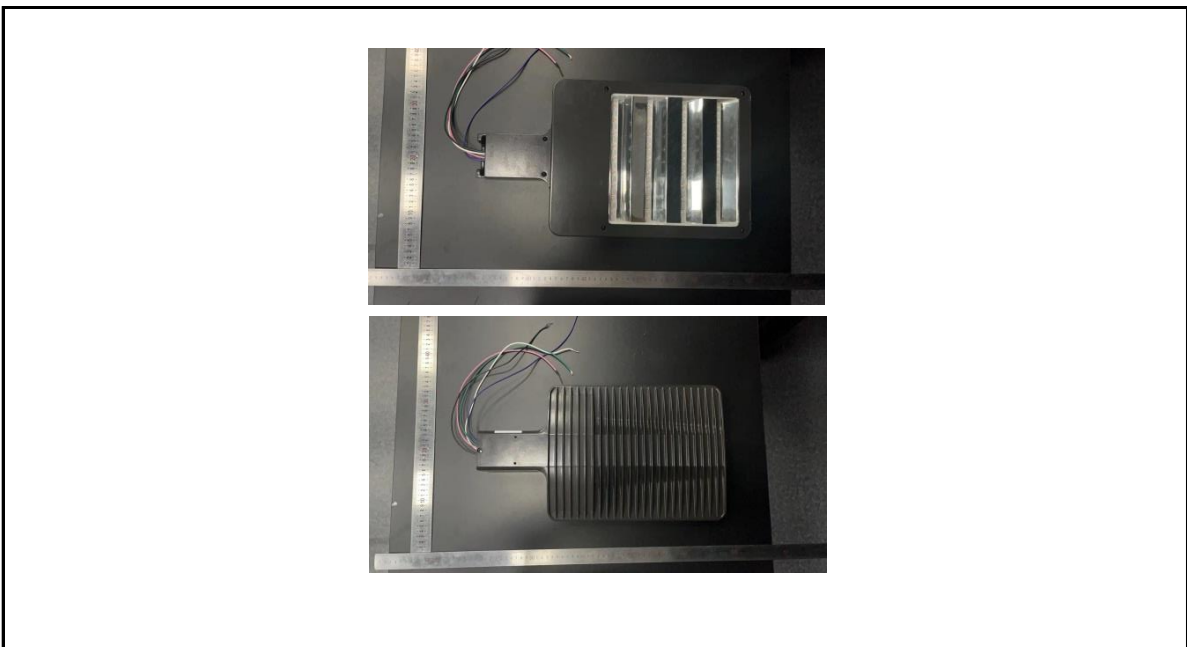
## 3.0 Production Description

**Luminaire Description:** ALEDSAT

**Description:** 40W @ 5000K

**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.	ALEDSAT	Sample ID.	O1
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  $\pm 0.2$  percent under load.

The sample was measured using  $4\pi$  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	0.338	40.3	0.995
277.00	60	0.164	39.9	0.878

#### Test Result

CCT (K)	CRI	R9	Duv
4794	82	0	0.0043

Rf	Rg	IES Rcs,h1
83	94	-13%

## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

Model No.	ALEDSAT	Sample ID.	O1
Operate 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 parameters 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  $\pm 0.2$  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  $0.5^{\circ}$  vertical intervals and  $10^{\circ}$  horizontal intervals.

#### Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.00	60	0.338	40.3	0.995
NON-WROST CASE	277.00	60	0.164	39.9	0.878

#### Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5861	92.0	152.9	45.7	135.7	145.4

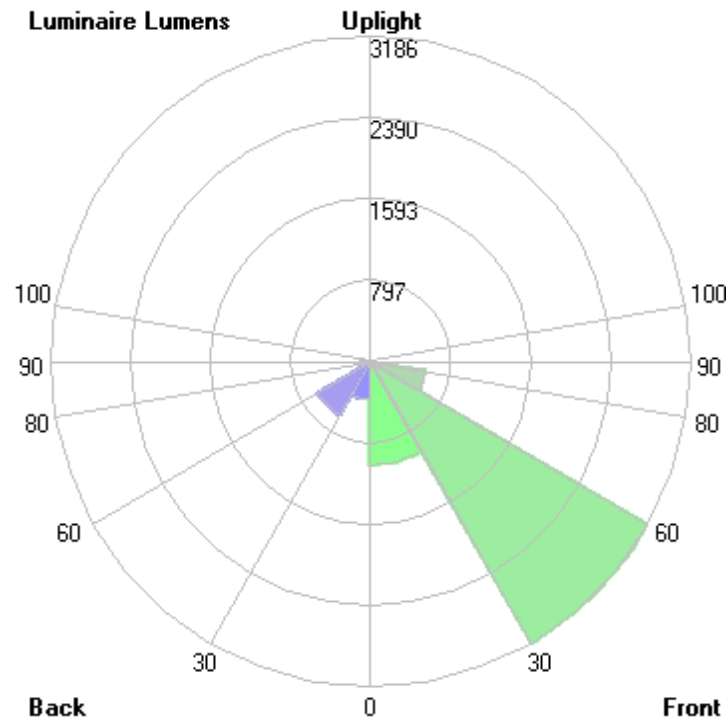
Zonal Lumen Requirement ( $0^{\circ}$ - $90^{\circ}$ )	Zonal Lumen Requirement ( $80^{\circ}$ - $90^{\circ}$ )	BUG rating
100.00%	0.17%	B1-U0-G1

## 4.2 Goniophotometer Test

	Zonal (lm)		Total (lm)	Percent
0-10	131.29	0 - 10	131.29	2.24%
10-20	444.44	0 - 20	575.73	9.82%
20-30	812.82	0 - 30	1388.55	23.69%
30-40	1223.4	0 - 40	2611.95	44.57%
40-50	1412.35	0 - 50	4024.30	68.66%
50-60	1159.6	0 - 60	5183.90	88.45%
60-70	561.74	0 - 70	5745.64	98.03%
70-80	105.26	0 - 80	5850.90	99.83%
80-90	10.03	0 - 90	5860.93	100.00%
90-100	0.00	0 - 100	5860.93	100.00%
100-110	0.00	0 - 110	5860.93	100.00%
110-120	0.00	0 - 120	5860.93	100.00%
120-130	0.00	0 - 130	5860.93	100.00%
130-140	0.00	0 - 140	5860.93	100.00%
140-150	0.00	0 - 150	5860.93	100.00%
150-160	0.00	0 - 160	5860.93	100.00%
160-170	0.00	0 - 170	5860.93	100.00%
170-180	0.00	0 - 180	5860.93	100.00%

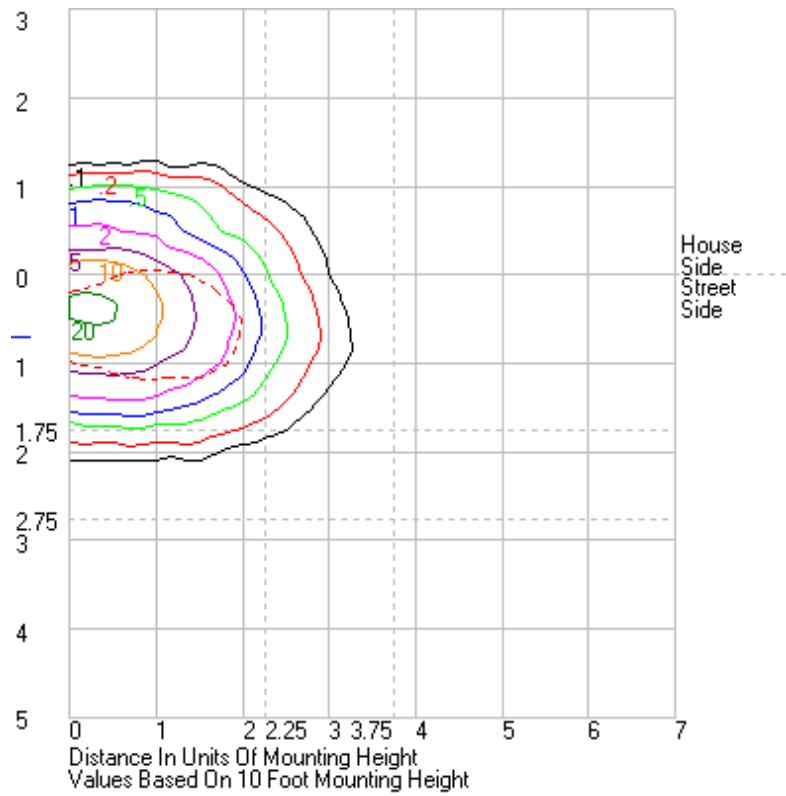
## 4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1012.6	N.A.	17.3
FM - Front-Medium (30-60)	3186.5	N.A.	54.4
FH - Front-High (60-80)	556.0	N.A.	9.5
FVH - Front-Very High (80-90)	7.8	N.A.	0.1
BL - Back-Low (0-30)	375.9	N.A.	6.4
BM - Back-Medium (30-60)	608.9	N.A.	10.4
BH - Back-High (60-80)	111.0	N.A.	1.9
BVH - Back-Very High (80-90)	2.2	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	5860.9	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	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	
1	1272.78	1271.29	1266.96	1259.53	1250.13	1238.28	1225.37	1210.52	1196.35	1183.64	1173.37	1166.9	1163.15	1166.9	1173.37	1183.64	1196.35	1210.52	1225.37	1238.28	1250.13	1259.53	1266.96	1271.29	1272.78
2	1348.92	1345.37	1332.09	1311.66	1284.94	1260.65	1233.83	1204.29	1175.78	1149.81	1132.81	1123.45	1121.07	1123.45	1132.81	1149.81	1175.78	1204.29	1233.83	1260.65	1284.94	1311.66	1332.09	1345.37	1348.92
3	1442.93	1434.96	1411.84	1375.96	1331.05	1286.48	1246.98	1202.98	1159.2	1130.95	1109.65	1097.18	1094.15	1097.18	1109.65	1130.95	1159.2	1202.98	1246.98	1286.48	1331.05	1375.96	1411.84	1434.96	1442.93
4	1542.32	1534.5	1505.59	1452	1385.52	1317.18	1263.38	1203.3	1152.37	1118.43	1097.62	1085.6	1082.27	1085.6	1097.62	1118.43	1152.37	1203.3	1263.38	1317.18	1385.52	1452	1505.59	1534.5	1542.32
5	1634.23	1625.18	1594.8	1536.35	1446.03	1356.14	1284.12	1207.9	1152.22	1117.09	1094.93	1077.88	1073.17	1077.88	1094.93	1117.09	1152.22	1207.9	1284.12	1356.14	1446.03	1536.35	1594.8	1625.18	1634.23
6	1714.11	1708.53	1678.58	1616.37	1515.63	1396.13	1304.79	1213.56	1155.52	1120.88	1092.42	1069.74	1061.95	1069.74	1092.42	1120.88	1155.52	1213.56	1304.79	1396.13	1515.63	1616.37	1678.58	1708.53	1714.11
7	1790.19	1784.22	1757.63	1696.07	1585.37	1438.92	1324.49	1222.96	1163.7	1125.06	1088.07	1060.43	1051.32	1060.43	1088.07	1125.06	1163.7	1222.96	1324.49	1438.92	1585.37	1696.07	1757.63	1784.22	1790.19
8	1857.82	1852.39	1831.94	1770.51	1650.43	1480.64	1346.03	1233.31	1174.14	1128.81	1082.53	1050.04	1036.38	1050.04	1082.53	1128.81	1174.14	1233.31	1346.03	1480.64	1650.43	1770.51	1831.94	1852.39	1857.82
9	1920.49	1918.58	1901.88	1842.4	1717.27	1523.43	1366.57	1244.64	1184.63	1130.73	1076.68	1027.76	1009.29	1027.76	1076.68	1130.73	1184.63	1244.64	1366.57	1523.43	1717.27	1842.4	1901.88	1918.58	1920.49
10	1985.73	1986.46	1970.27	1910.44	1779.02	1565.84	1385.8	1255.15	1193.67	1130.25	1058.52	992.213	965.518	992.213	1058.52	1130.25	1193.67	1255.15	1385.8	1565.84	1779.02	1910.44	1970.27	1986.46	1985.73
11	2050.05	2054.43	2040.94	1975.38	1837.81	1610.88	1405.27	1265.29	1200.74	1126.56	1029.33	946.149	912.831	946.149	1029.33	1126.56	1200.74	1265.29	1405.27	1610.88	1837.81	1975.38	2040.94	2054.43	2050.05
12	2116.16	2123.91	2114.16	2040.38	1896.6	1655.86	1423.29	1277.32	1205.73	1113.77	989.567	884.086	841.924	884.086	989.567	1113.77	1205.73	1277.32	1423.29	1655.86	1896.6	2040.38	2114.16	2123.91	2116.16
13	2183.3	2194.93	2188.12	2107.33	1952.84	1700.16	1442.93	1291.41	1212.22	1092.5	940	809.74	758.277	809.74	940	1092.5	1212.22	1291.41	1442.93	1700.16	1952.84	2107.33	2188.12	2194.93	2183.3
14	2252.26	2267.21	2259.77	2173.54	2010.13	1746.54	1463.52	1307.33	1216.52	1063.51	877.111	727.392	674.63	727.392	877.111	1063.51	1216.52	1307.33	1463.52	1746.54	2010.13	2173.54	2259.77	2267.21	2252.26
15	2320.12	2339.79	2337	2242.69	2067.87	1792.63	1485.53	1325.13	1218.15	1028.69	806.764	644.506	591.323	644.506	806.764	1028.69	1218.15	1325.13	1485.53	1792.63	2067.87	2242.69	2337	2339.79	2320.12
16	2387.33	2412.86	2414.21	2312.74	2127.43	1841.42	1510.1	1344.26	1216.39	987.31	732.269	562.259	504.615	562.259	732.269	987.31	1216.39	1344.26	1510.1	1841.42	2127.43	2312.74	2414.21	2412.86	2387.33
17	2447.9	2482.1	2490.18	2384.38	2189.37	1893.9	1536.25	1366.13	1208.98	938.088	658.338	478.393	424.694	478.393	658.338	938.088	1208.98	1366.13	1536.25	1893.9	2189.37	2384.38	2490.18	2482.1	2447.9
18	2498.68	2546.54	2565.69	2459.1	2252.93	1947.39	1564.44	1388.24	1197.69	883.857	582.911	406.976	363.371	406.976	582.911	883.857	1197.69	1388.24	1564.44	1947.39	2252.93	2459.1	2565.69	2546.54	2498.68
19	2541.85	2601.7	2638.17	2533.94	2320.49	2006.66	1595.2	1412	1182.67	826.963	507.91	355.22	325.426	355.22	507.91	826.963	1182.67	1412	1595.2	2006.66	2320.49	2533.94	2638.17	2601.7	2541.85
20	2585.73	2653.13	2703.62	2609.01	2389.19	2064.97	1628.46	1435.01	1163.11	768.079	442.104	326.688	301.947	326.688	442.104	768.079	1163.11	1435.01	1628.46	2064.97	2389.19	2609.01	2703.62	2653.13	2585.73
21	2629	2704.3	2765.75	2683.02	2460.55	2126.85	1666.12	1456.8	1138.63	707.889	393.947	303.911	286.603	303.911	393.947	707.889	1138.63	1456.8	1666.12	2126.85	2460.55	2683.02	2765.75	2704.3	2629
22	2661.93	2751.86	2825.72	2756.3	2533.77	2188.79	1703.69	1475.15	1107.62	646.257	365.149	291.527	282.216	291.527	365.149	646.257	1107.62	1475.15	1703.69	2188.79	2533.77	2756.3	2825.72	2751.86	2661.93
23	2687.4	2793.11	2890.62	2829.86	2609.76	2250.73	1745.12	1493.03	1073.68	582.757	343.496	289.323	283.531	289.323	343.496	582.757	1073.68	1493.03	1745.12	2250.73	2609.76	2829.86	2890.62	2793.11	2687.4
24	2707.02	2827.65	2952.84	2898.01	2685.75	2314.46	1785.03	1508.13	1034.64	523.494	324.617	292.96	290.511	292.96	324.617	523.494	1034.64	1508.13	1785.03	2314.46	2685.75	2898.01	2952.84	2827.65	2707.02
25	2730.28	2858.96	3009.62	2966.3	2762.5	2376.62	1828.61	1520.18	993.204	477.328	318.068	300.254	297.474	300.254	318.068	477.328	993.204	1520.18	1828.61	2376.62	2762.5	2966.3	3009.62	2858.96	2730.28
26	2775.51	2902.87	3066.04	3034.42	2839.27	2441.73	1873.12	1530.37	950.233	443.435	319.442	308.346	305.381	308.346	319.442	443.435	950.233	1530.37	1873.12	2441.73	2839.27	3034.42	3066.04	2902.87	2775.51
27	2783.67	2949.38	3123.06	3109.53	2913.19	2506.37	1915.29	1537.97	905.143	415.148	325.639	317.898	312.451	317.898	325.639	415.148	905.143	1537.97	1915.29	2506.37	2913.19	3109.53	3123.06	2949.38	2783.67
28	2800.85	2975.64	3177.35	3186.57	2990.03	2570.51	1958.8	1541.57	856.134	392.356	334.759	325.974	312.941	325.974	334.759	392.356	856.134	1541.57	1958.8	2570.51	2990.03	3186.57	3177.35	2975.64	2800.85
29	2809.99	3011.44	3252.97	3267.11	3067.34	2633.44	1998.69	1541.1	802.691	371.948	346.153	327.066	307.415	327.066	346.153	371.948	802.691	1541.1	1998.69	2633.44	3067.34	3267.11	3252.97	3011.44	2809.99
30	2803.07	3032.14	3311.33	3342.19	3142.66	2694.6	2038.53	1535.68	746.66	362.764	359.735	322.2	298.401	322.2	359.735	362.764	746.66	1535.68	2038.53	2694.6	3142.66	3342.19	3311.33	3032.14	2803.07
31	2801.17	3039.16	3360.55	3422.28	3216.59	2753.68	2075.38	1525.59	688.158	360.358	368.014	313.99	286.485	313.99	368.014	360.358	688.158	1525.59	2075.38	2753.68	3216.59	3422.28	3360.55	3039.16	2801.17
32	2792.82	3054.34	3410.42	3497.61	3286.48	2809.09	2110.46	1511.1	632.99	363.057	370.037	305.083	277.972	305.083	370.037	363.057	632.99	1511.1	2110.46	2809.09	3286.48	3497.61	3410.42	3054.34	2792.82
33	2776.6	3053.99	3446.48	3572.08	3352.91	2866.77	2144.59	1492.55	585.69	369.478	366.246	298.774	270.683	298.774	366.246	369.478	585.69	1492.55	2144.59	2866.77	3352.91	3572.08	3446.48	3053.99	2776.6
34	2767.38	3049.82	3474.61	3654.86	3415.61	2919.83	2173.13	1469.41	548.15	379.338	359.719	293.71	261.936	293.71	359.719	379.338	548.15	1469.41	2173.13	2919.83	3415.61	3654.86	3474.61	3049.82	2767.38
35	2780.96	3055.03	3504.27	3730.15	3476.64	2970.24	2200.97	1439.92	513.447	392.441	353.431	287.923	253.822	287.923	353.431	392.441	513.447	1439.92	2200.97	2970.24	3476.64	3730.15	3504.27	3055.03	2780.96
36	2770.59	3069.88	3526.09	3795.84	3540.29	3021.16	2226.44	1405.45	485.107	401.529	347.542	282.498	245.66	282.498	347.542	401.529	485.107	1405.45	2226.44	3021.16	3540.29	3795.84	3526.09	3069.88	2770.59
37	2750.34	3068.5	3549.56	3853.69	3604.26	3066.78	2249.99	1368.93	460.755	405.49	342.676	276.157	235.651	276.157	342.676	405.49	460.755	1368.93	2249.99	3066.78	3604.26	3853.69	3549.56	3068.5	2750.34
38	2705.15	3043.85	3576.45	3898.09	3668.94	3111.24	2273.78	1329.19	439.65	405.096	337.778	267.777	224.646	267.777	337.778	405.096	439.65	1329.19	2273.78						

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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.	ALEDSAT	Sample ID.	O1
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	0.338	40.3	0.995	5.49%
277.00	60	0.164	39.9	0.878	10.91%

## 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\*\*\*\*\*