

Photometric Test Report

Relevant Standards

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

Prepared For

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Issue Date

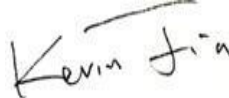
2023/1/16

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		12997
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	141.3
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		92.0
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.26%
		20.00%	277V	11.71%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.998
		0.9	277V	0.902
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3045±175	2922
		4 step	3045±100	
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥70		81
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥-40		1
Minimum Rf (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥70		84
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89		96
Minimum IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-18%≤IES Rcs,h1≤+23%		-12%
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%		0.16%
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		0.768
(Goniophotometer - Section 4.2)		Non-Worst Case		0.360
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		92.0
(Goniophotometer - Section 4.2)		Non-Worst Case		90.0

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2023/1/11	ALEDMATY	I1
2	Goniophotometer Test	2023/1/11	ALEDMATY	I1
3	THD and PF Test	2023/1/11	ALEDMATY	I1

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.

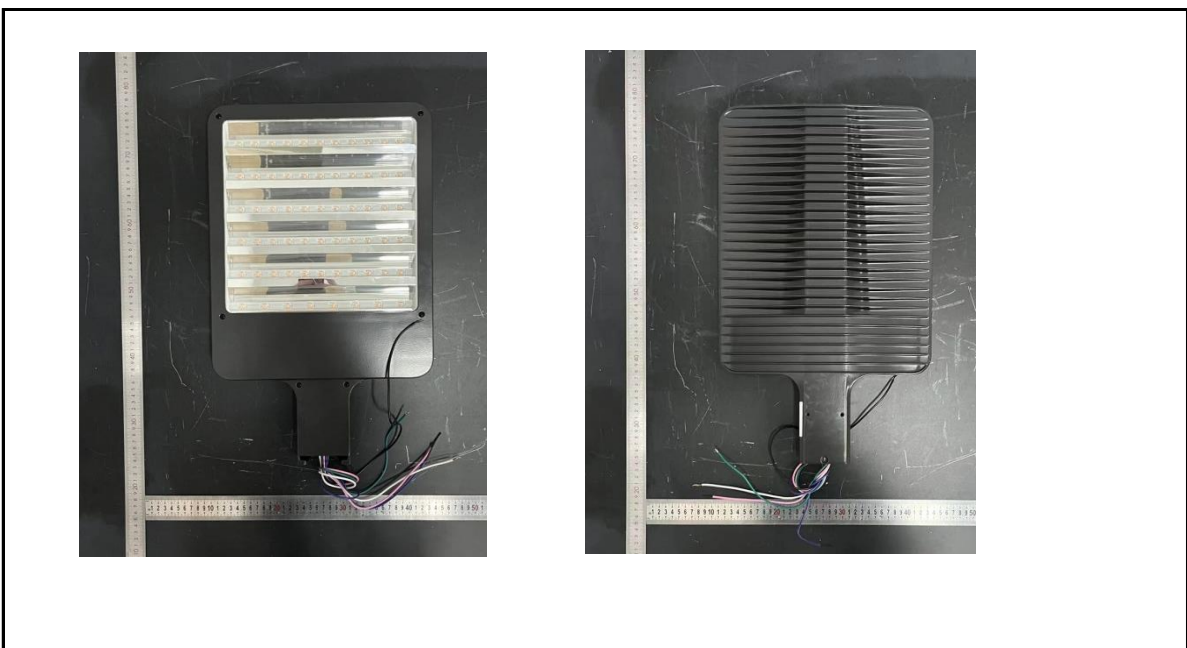
3.0 Production Description

Luminaire Description: ALEDMATY

Description: 90W @ 3000K

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.	ALEDMATY	Sample ID.	I1
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	0.768	92.0	0.998
277.00	60	0.360	90.0	0.902

Test Result

CCT (K)	CRI	R9	Duv
2922	81	1	0.0015

Rf	Rg	IES Rcs,h1
84	96	-12%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDMATY	Sample ID.	I1
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	120.01	60	0.768	92.0	0.998
NON-WROST CASE	277.07	60	0.360	90.0	0.902

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
12997	93.5	153.7	40.6	136.3	141.3

Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.16%	B2-U0-G1

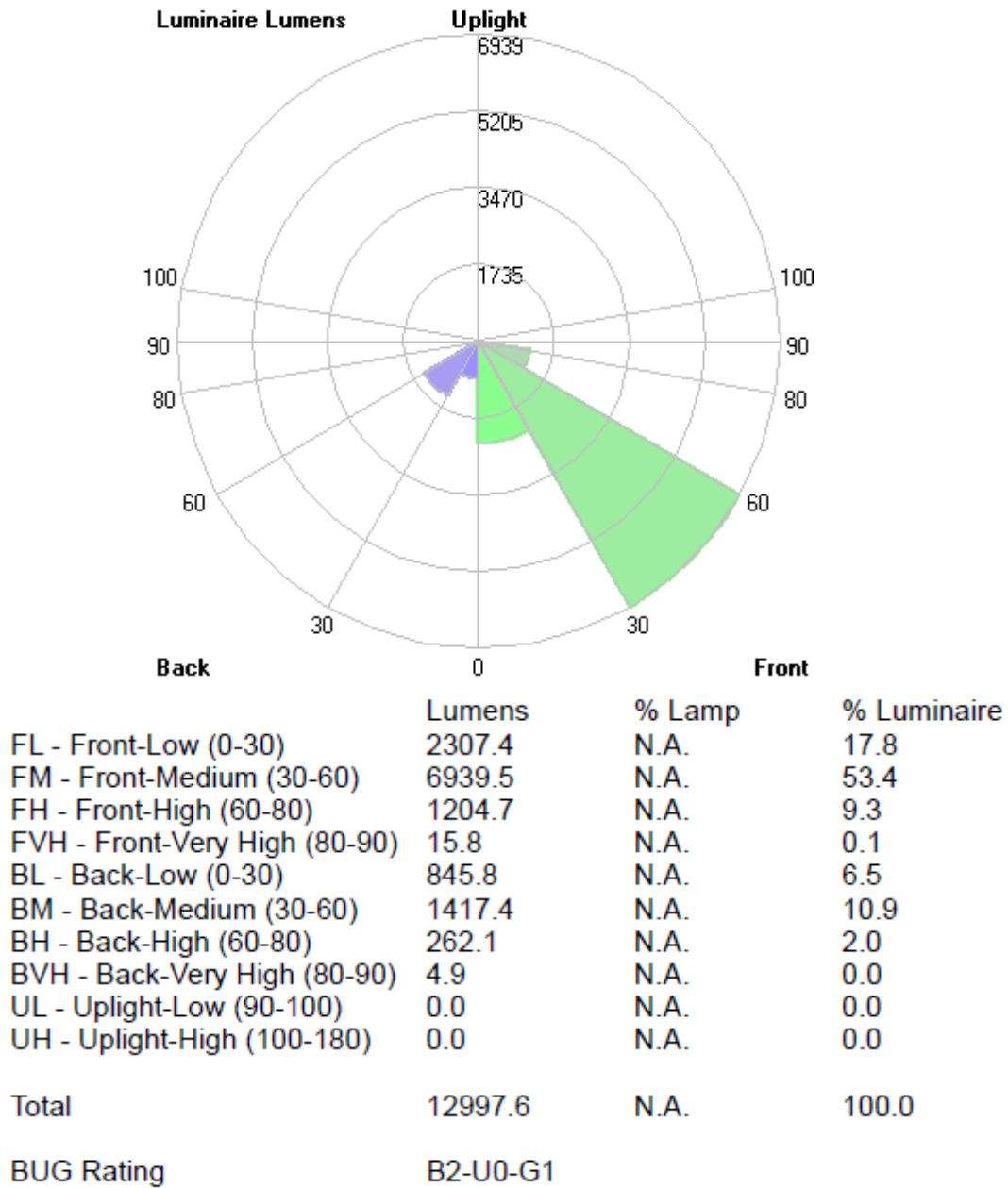
4.2 Goniophotometer Test

Zonal Lumen Summary

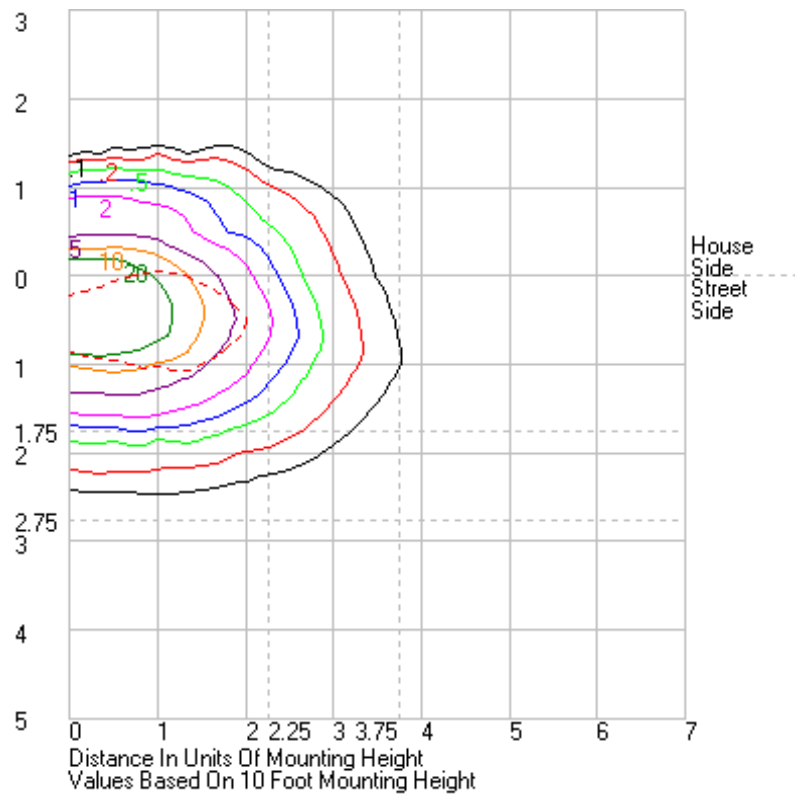
	Zonal (lm)		Total (lm)	Percent
0-10	290.94	0 - 10	290.94	2.24%
10-20	1000.03	0 - 20	1290.97	9.93%
20-30	1862.19	0 - 30	3153.16	24.26%
30-40	2792.14	0 - 40	5945.30	45.74%
40-50	3044.64	0 - 50	8989.94	69.17%
50-60	2520.13	0 - 60	11510.07	88.56%
60-70	1233.88	0 - 70	12743.95	98.05%
70-80	232.91	0 - 80	12976.86	99.84%
80-90	20.63	0 - 90	12997.49	100.00%
90-100	0.00	0 - 100	12997.49	100.00%
100-110	0.00	0 - 110	12997.49	100.00%
110-120	0.00	0 - 120	12997.49	100.00%
120-130	0.00	0 - 130	12997.49	100.00%
130-140	0.00	0 - 140	12997.49	100.00%
140-150	0.00	0 - 150	12997.49	100.00%
150-160	0.00	0 - 160	12997.49	100.00%
160-170	0.00	0 - 170	12997.49	100.00%
170-180	0.00	0 - 180	12997.49	100.00%

4.2 Goniophotometer Test

LCS/BUG



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	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41	2752.41
1	2882.86	2884.28	2869.28	2847.91	2820.72	2789.83	2758.74	2726.77	2697.39	2671.15	2652.51	2639.45	2631.31	2639.45	2652.51	2671.15	2697.39	2726.77	2758.74	2789.83	2820.72	2847.91	2869.28	2884.28	2882.86
2	3036.54	3031.17	3006.42	2960.13	2903.81	2839.17	2773.78	2709.8	2652.4	2603.83	2566.61	2546.33	2536.6	2546.33	2566.61	2603.83	2652.4	2709.8	2773.78	2839.17	2903.81	2960.13	3006.42	3031.17	3036.54
3	3213.68	3205.59	3161.2	3090.51	2999.46	2896.07	2796.56	2703	2616.56	2546.12	2498.51	2471.22	2462.51	2471.22	2498.51	2546.12	2616.56	2703	2796.56	2896.07	2999.46	3090.51	3161.2	3205.59	3213.68
4	3379.55	3371.57	3317.07	3225.36	3106.33	2965.86	2829.18	2702.9	2592.14	2510.1	2460.59	2434.75	2426.28	2434.75	2460.59	2510.1	2592.14	2702.9	2829.18	2965.86	3106.33	3225.36	3317.07	3371.57	3379.55
5	3562.76	3548.43	3481.79	3368.79	3219.48	3040.61	2866.49	2710.54	2579.79	2495.98	2445.93	2413.89	2403.97	2413.89	2445.93	2495.98	2579.79	2710.54	2866.49	3040.61	3219.48	3368.79	3481.79	3548.43	3562.76
6	3747.03	3732.29	3655.63	3519.57	3340.13	3119.77	2907.1	2721.68	2579.18	2496.01	2436.15	2391.46	2377.23	2391.46	2436.15	2496.01	2579.18	2721.68	2907.1	3119.77	3340.13	3519.57	3655.63	3732.29	3747.03
7	3919.1	3902.71	3827.21	3676.49	3463.87	3204.69	2949.93	2735.99	2589.24	2502.5	2425.64	2370.62	2351.03	2370.62	2425.64	2502.5	2589.24	2735.99	2949.93	3204.69	3463.87	3676.49	3827.21	3902.71	3919.1
8	4103.1	4088.4	4004.75	3837.25	3588.02	3285.99	2991.15	2753.95	2606.1	2506.3	2412.91	2341.72	2314.57	2341.72	2412.91	2506.3	2606.1	2753.95	2991.15	3285.99	3588.02	3837.25	4004.75	4088.4	4103.1
9	4269.74	4258.1	4178.82	3989.7	3713.78	3366.46	3030.69	2769.19	2624.25	2508.06	2394.55	2298.96	2260.45	2298.96	2394.55	2508.06	2624.25	2769.19	3030.69	3366.46	3713.78	3989.7	4178.82	4258.1	4269.74
10	4444.5	4434.2	4356.73	4149.42	3838.67	3447.77	3070.11	2786.66	2639.82	2507.32	2363.05	2238.15	2188.55	2238.15	2363.05	2507.32	2639.82	2786.66	3070.11	3447.77	3838.67	4149.42	4356.73	4434.2	4444.5
11	4622.22	4618.73	4538.47	4313.53	3963.92	3527.61	3111.78	2806.13	2652.71	2499.38	2315.71	2153.66	2088.13	2153.66	2315.71	2499.38	2652.71	2806.13	3111.78	3527.61	3963.92	4313.53	4538.47	4618.73	4622.22
12	4785.22	4788.05	4717.36	4472.57	4100.23	3613.91	3155.56	2830.76	2663.18	2482.64	2251.89	2056.18	1974.75	2056.18	2251.89	2482.64	2663.18	2830.76	3155.56	3613.91	4100.23	4472.57	4717.36	4788.05	4785.22
13	4970.49	4975.06	4904.28	4638.95	4239.93	3702.5	3203.77	2860.28	2673.3	2451.5	2166.55	1927.33	1831.12	1927.33	2166.55	2451.5	2673.3	2860.28	3203.77	3702.5	4239.93	4638.95	4904.28	4975.06	4970.49
14	5145.6	5159.12	5086.27	4803.72	4347.31	3796.57	3256.3	2894	2684.2	2406.41	2064.57	1773.41	1647.07	1773.41	2064.57	2406.41	2684.2	2894	3256.3	3796.57	4347.31	4803.72	5086.27	5159.12	5145.6
15	5304.29	5334.91	5273.07	4973.17	4488.17	3894.97	3311.58	2934.5	2693.41	2349.3	1943.58	1598.8	1463.27	1598.8	1943.58	2349.3	2693.41	2934.5	3311.58	3894.97	4488.17	4973.17	5273.07	5334.91	5304.29
16	5464.36	5508.3	5467.48	5145.27	4639.12	3999.83	3374.42	2977.43	2701.48	2276.23	1791.73	1396.7	1247.56	1396.7	1791.73	2276.23	2701.48	2977.43	3374.42	3999.83	4639.12	5145.27	5467.48	5508.3	5464.36
17	5602.72	5662.95	5650.44	5322.13	4797.53	4116.73	3440.57	3026.36	2704.4	2196.3	1631.15	1205.99	1067.07	1205.99	1631.15	2196.3	2704.4	3026.36	3440.57	4116.73	4797.53	5322.13	5650.44	5662.95	5602.72
18	5741.8	5826.38	5831.19	5510.43	4964.98	4237.42	3510.61	3077.98	2699.56	2098.34	1455.38	1024.47	908.318	1024.47	1455.38	2098.34	2699.56	3077.98	3510.61	4237.42	4964.98	5510.43	5831.19	5826.38	5741.8
19	5869.25	5976.18	6005.5	5702.94	5137.7	4365.94	3583.11	3132.32	2687.56	1984.85	1277.53	875.658	750.937	875.658	1277.53	1984.85	2687.56	3132.32	3583.11	4365.94	5137.7	5702.94	6005.5	5976.18	5869.25
20	5987.99	6120.09	6182.61	5898.66	5319.64	4501.93	3661.17	3186.46	2666.29	1861.51	1115.71	739.104	640.639	739.104	1115.71	1861.51	2666.29	3186.46	3661.17	4501.93	5319.64	5898.66	6182.61	6120.09	5987.99
21	6117.18	6275.44	6361.74	6099.66	5505.69	4637.8	3742.12	3240.06	2635.3	1721.59	964.847	627.701	552.272	627.701	964.847	1721.59	2635.3	3240.06	3742.12	4637.8	5505.69	6099.66	6361.74	6275.44	6117.18
22	6220.39	6415.05	6544.42	6294.81	5693.41	4777.32	3821.28	3290.73	2592.89	1582.36	836.655	553.35	501.225	553.35	836.655	1582.36	2592.89	3290.73	3821.28	4777.32	5693.41	6294.81	6544.42	6415.05	6220.39
23	6324.99	6555.71	6738.61	6505.52	5888.8	4918.78	3902.76	3338.75	2537.83	1437.33	726.462	506.727	481.595	506.727	726.462	1437.33	2537.83	3338.75	3902.76	4918.78	5888.8	6505.52	6738.61	6555.71	6324.99
24	6418.84	6694.62	6934.61	6710.31	6084.38	5058.04	3981.95	3380.1	2473.27	1297.21	639.14	492.633	491.686	492.633	639.14	1297.21	2473.27	3380.1	3981.95	5058.04	6084.38	6710.31	6934.61	6694.62	6418.84
25	6494.65	6821.33	7128.24	6929.49	6275.42	5195.66	4060.3	3417.87	2393.38	1167.15	581.723	506.491	519.52	506.491	581.723	1167.15	2393.38	3417.87	4060.3	5195.66	6275.42	6929.49	7128.24	6821.33	6494.65
26	6555.55	6941.02	7323.81	7155.51	6471.14	5333.55	4137.24	3448.92	2303.15	1042.01	551.706	541.09	562.133	541.09	551.706	1042.01	2303.15	3448.92	4137.24	5333.55	6471.14	7155.51	7323.81	6941.02	6555.55
27	6571.52	7017.72	7508.51	7384.27	6660.23	5468.15	4210.77	3471.73	2203.13	933.752	550.74	586.923	608.703	586.923	550.74	933.752	2203.13	3471.73	4210.77	5468.15	6660.23	7384.27	7508.51	7017.72	6571.52
28	6588.23	7063.34	7683.79	7617.99	6852.3	5599.52	4282.44	3488.41	2089.66	836.964	576.102	635.058	645.859	635.058	576.102	836.964	2089.66	3488.41	4282.44	5599.52	6852.3	7617.99	7683.79	7063.34	6588.23
29	6594.52	7106.52	7824.31	7845.8	7041.28	5726.83	4349.29	3496.2	1973.62	755.959	620.016	677.664	674.285	677.664	620.016	755.959	1973.62	3496.2	4349.29	5726.83	7041.28	7845.8	7824.31	7106.52	6594.52
30	6597.9	7135.16	7937.16	8072.17	7232.47	5857.14	4413.65	3494.44	1844.56	703.585	674.6	706.504	689.931	706.504	674.6	703.585	1844.56	3494.44	4413.65	5857.14	7232.47	8072.17	7937.16	7135.16	6597.9
31	6598.1	7153.76	8015.71	8290.86	7426.12	5979.63	4473.1	3481.56	1715.86	674.265	728.862	725.259	696.505	725.259	728.862	674.265	1715.86	3481.56	4473.1	5979.63	7426.12	8290.86	8015.71	7153.76	6598.1
32	6575.56	7162.95	8084.01	8487.96	7617.44	6101.94	4526.46	3457.43	1584.97	671.688	774.965	734.259	691.166	734.259	774.965	671.688	1584.97	3457.43	4526.46	6101.94	7617.44	8487.96	8084.01	7162.95	6575.56
33	6513.67	7142.19	8138.84	8673.24	7811.8	6217.31	4577.97	3424.08	1455.31	693.178	808.367	733.102	677.124	733.102	808.367	693.178	1455.31	3424.08	4577.97	6217.31	7811.8	8673.24	8138.84	7142.19	6513.67
34	6455.69	7094.43	8179.01	8820.28	7994.15	6326.41	4625.96	3379.33	1331.22	731.208	830.193	722.215	658.086	722.215	830.193	731.208	1331.22	3379.33	4625.96	6326.41	7994.15	8820.28	8179.01	7094.43	6455.69
35	6383.29	7046.04	8193.86	8944.21	8172.01	6433.28	4671.98	3324.35	1216.01	779.284	841.612	707.509	633.592	707.509	841.612	779.284	1216.01	3324.35	4671.98	6433.28	8172.01	8944.21	8193.86	7046.04	6383.29
36	6224.27	6955.09	8190.56	9054.78	8340.37	6537.78	4719.83	3261.19	1108.48	830.607	841.447	685.743	604.601	685.743	841.447	830.607	1108.48	3261.19	4719.83	6537.78	8340.37	9054.78	8190.56	6955.09	6224.27
37	6033.3	6808.54	8170.2	9140.42	8490.1	6639.8	4769.71	3189.04	1017.18	875.744	836.582	661.012	574.485	661.012	836.582	875.744	1017.18	3189.04	4769.71	6639.8	8490.1	9140.42	8170.2	6808.54	6033.3
38	5804.42	6621.6	8119.07	9203.27	8637.19	6737.9	4824.2	3114.03	939.82	910.027	829.515	635.485	547.802	635.485	829.515	910.027									

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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.	ALEDMATY	Sample ID.	I1
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	0.768	92.0	0.998	5.26%
277.00	60	0.360	90.0	0.902	11.71%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2022/12/26	2023/12/25
DLF108	Auxiliary Lamp	2022/12/26	2023/12/25
DLF122	Measurement Standard Lamp Standard Lamp Type: 220 V, 0.4720 A, Tungsten, Omni-derectional	2022/12/26	2023/12/25
DLF116	AC Power Source	2022/12/26	2023/12/25
DLF113	Power Meter	2022/12/26	2023/12/25
DLF112	Temperature Recorder	2022/12/26	2023/12/25
DLF114	Temperature & Humidity Datalogger	2022/12/26	2023/12/25
DLF101	Goniophotometer	2022/12/26	2023/12/25
DLF125	Standard Lamp Standard Lamp Type: 76.58 V, 6.7875 A, Tungsten, Omni-derectional	2022/12/26	2023/12/25
DLF104	AC Power Source	2022/12/26	2023/12/25
DLF507	DC Power Source	2022/12/26	2023/12/25
DLF102	Power Meter	2022/12/26	2023/12/25
DLF111	Temperature & Humidity Datalogger	2022/12/26	2023/12/25
DLF119	Power Meter	2022/12/26	2023/12/25
DLF031	Temperature data logger	2022/12/26	2023/12/25
DLF022	Digital power meter	2022/12/26	2023/12/25
DLF003	Temperature & Humidity Datalogger	2022/12/26	2023/12/25

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