

Photometric Test Report

Relevant Standards

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

Prepared For

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Test Date

2023/1/11

Issue Date

2023/1/16

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		10906
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	143.1
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		76.2
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	6.33%
		20.00%	277V	13.59%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.997
		0.9	277V	0.872
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		0.637
(Goniophotometer - Section 4.2)		Non-Worst Case		0.309
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		76.2
(Goniophotometer - Section 4.2)		Non-Worst Case		74.7

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.

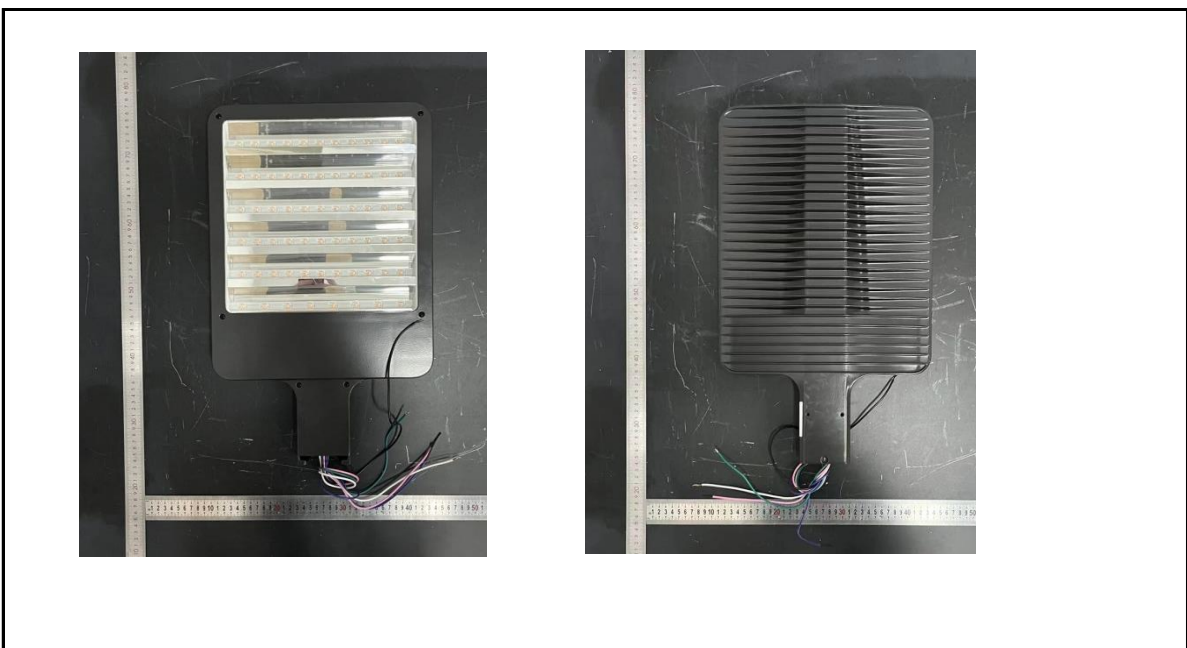
3.0 Production Description

Luminaire Description: ALEDMATY

Description: 78W @ 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
Opreate 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 paramters 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	0.637	76.2	0.997
277.00	60	0.309	74.7	0.872

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	0.637	76.2	0.997
NON-WROST CASE	277.07	60	0.309	74.7	0.872

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
10906	93.5	153.7	40.6	136.3	143.1

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

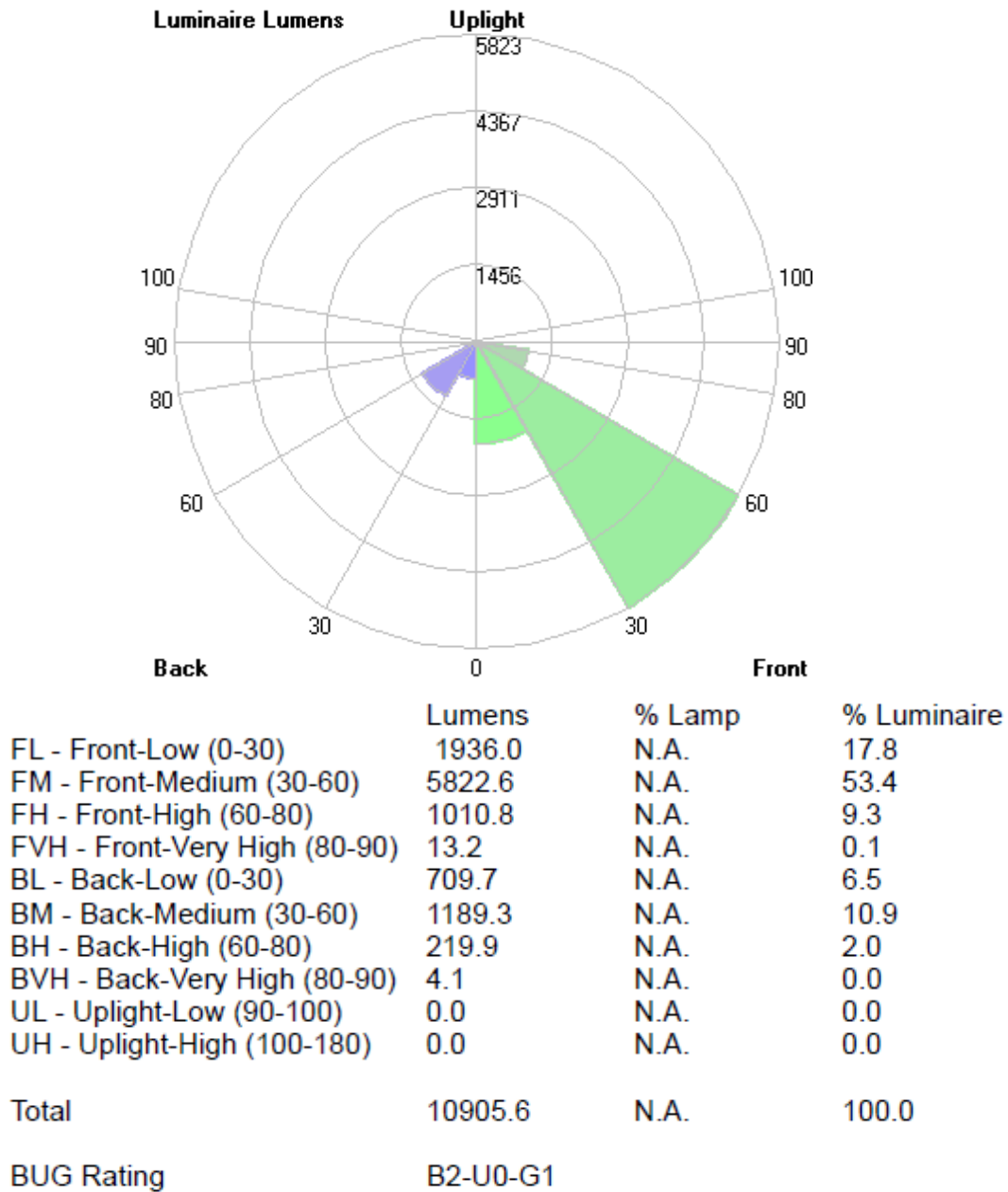
4.2 Goniophotometer Test

Zonal Lumen Summary

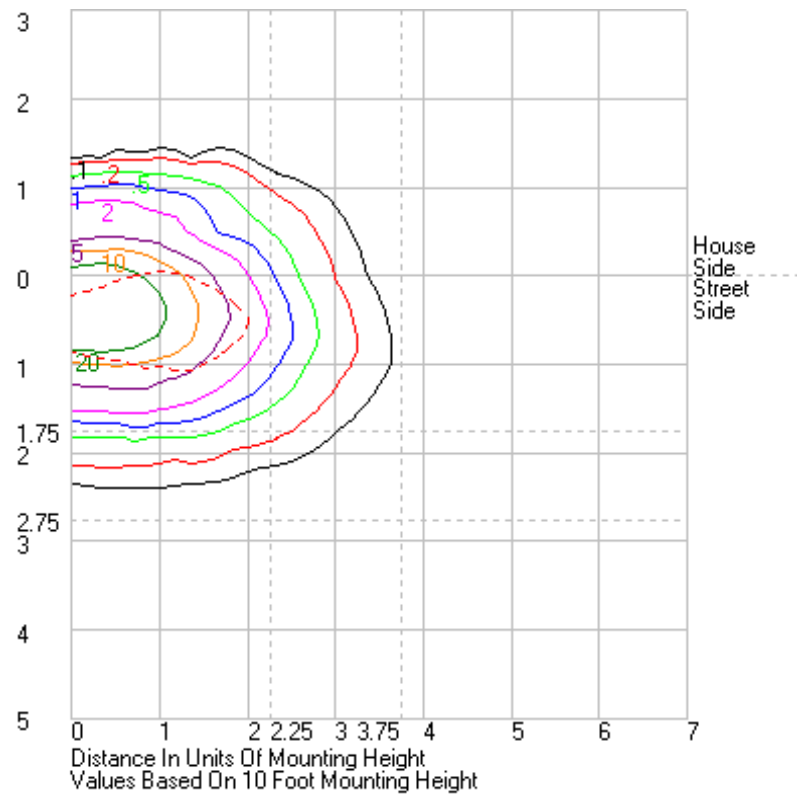
	Zonal (lm)		Total (lm)	Percent
0-10	244.11	0 - 10	244.11	2.24%
10-20	839.08	0 - 20	1083.19	9.93%
20-30	1562.48	0 - 30	2645.67	24.26%
30-40	2342.76	0 - 40	4988.43	45.74%
40-50	2554.62	0 - 50	7543.05	69.17%
50-60	2114.53	0 - 60	9657.58	88.56%
60-70	1035.29	0 - 70	10692.87	98.05%
70-80	195.42	0 - 80	10888.29	99.84%
80-90	17.31	0 - 90	10905.60	100.00%
90-100	0.00	0 - 100	10905.60	100.00%
100-110	0.00	0 - 110	10905.60	100.00%
110-120	0.00	0 - 120	10905.60	100.00%
120-130	0.00	0 - 130	10905.60	100.00%
130-140	0.00	0 - 140	10905.60	100.00%
140-150	0.00	0 - 150	10905.60	100.00%
150-160	0.00	0 - 160	10905.60	100.00%
160-170	0.00	0 - 170	10905.60	100.00%
170-180	0.00	0 - 180	10905.60	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	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42	2309.42
1	2418.88	2420.07	2407.48	2389.55	2366.73	2340.82	2314.73	2287.91	2263.26	2241.24	2225.6	2214.64	2207.81	2214.64	2225.6	2241.24	2263.26	2287.91	2314.73	2340.82	2366.73	2389.55	2407.48	2420.07	2418.88
2	2547.82	2543.32	2522.55	2483.71	2436.46	2382.22	2327.35	2273.67	2225.5	2184.76	2153.52	2136.51	2128.34	2136.51	2153.52	2184.76	2225.5	2273.67	2327.35	2382.22	2436.46	2483.71	2522.55	2543.32	2547.82
3	2696.45	2689.66	2652.42	2593.11	2516.71	2429.96	2346.46	2267.96	2195.44	2136.33	2096.39	2073.49	2066.18	2073.49	2096.39	2136.33	2195.44	2267.96	2346.46	2429.96	2516.71	2593.11	2652.42	2689.66	2696.45
4	2835.62	2828.93	2783.2	2706.25	2606.38	2488.51	2373.84	2267.88	2174.95	2106.11	2064.57	2042.88	2035.78	2042.88	2064.57	2106.11	2174.95	2267.88	2373.84	2488.51	2606.38	2706.25	2783.2	2828.93	2835.62
5	2989.35	2977.33	2921.41	2826.6	2701.32	2551.24	2405.14	2274.29	2164.59	2094.26	2052.27	2025.39	2017.06	2025.39	2052.27	2094.26	2164.59	2274.29	2405.14	2551.24	2701.32	2826.6	2921.41	2977.33	2989.35
6	3143.96	3131.59	3067.27	2953.11	2802.55	2617.66	2439.21	2283.64	2164.07	2094.29	2044.06	2006.56	1994.63	2006.56	2044.06	2094.29	2164.07	2283.64	2439.21	2617.66	2802.55	2953.11	3067.27	3131.59	3143.96
7	3288.34	3274.59	3211.24	3084.78	2906.37	2688.91	2475.15	2295.64	2172.51	2099.74	2035.24	1989.08	1972.64	1989.08	2035.24	2099.74	2172.51	2295.64	2475.15	2688.91	2906.37	3084.78	3211.24	3274.59	3288.34
8	3442.72	3430.39	3360.2	3219.66	3010.54	2757.13	2509.73	2310.71	2186.66	2102.92	2024.57	1964.83	1942.05	1964.83	2024.57	2102.92	2186.66	2310.71	2509.73	2757.13	3010.54	3219.66	3360.2	3430.39	3442.72
9	3582.54	3572.78	3506.26	3347.57	3116.06	2824.64	2542.92	2323.5	2201.89	2104.4	2009.15	1928.95	1896.64	1928.95	2009.15	2104.4	2201.89	2323.5	2542.92	2824.64	3116.06	3347.57	3506.26	3572.78	3582.54
10	3729.18	3720.54	3655.53	3481.59	3220.86	2892.86	2575.99	2338.16	2214.95	2103.78	1982.73	1877.93	1836.31	1877.93	1982.73	2103.78	2214.95	2338.16	2575.99	2892.86	3220.86	3481.59	3655.53	3720.54	3729.18
11	3878.3	3875.36	3808.02	3619.29	3325.95	2959.86	2610.95	2354.5	2225.76	2097.12	1943.01	1807.03	1752.06	1807.03	1943.01	2097.12	2225.76	2354.5	2610.95	2959.86	3325.95	3619.29	3808.02	3875.36	3878.3
12	4015.06	4017.44	3958.12	3752.73	3440.32	3032.27	2647.69	2375.16	2234.56	2083.07	1889.46	1725.25	1656.92	1725.25	1889.46	2083.07	2234.56	2375.16	2647.69	3032.27	3440.32	3752.73	3958.12	4017.44	4015.06
13	4170.51	4174.35	4114.96	3892.33	3557.53	3106.6	2688.14	2399.93	2243.05	2056.94	1817.85	1617.14	1536.41	1617.14	1817.85	2056.94	2243.05	2399.93	2688.14	3106.6	3557.53	3892.33	4114.96	4174.35	4170.51
14	4317.44	4328.78	4267.65	4030.58	3647.63	3185.53	2732.21	2428.23	2252.19	2019.1	1732.28	1487.98	1381.98	1487.98	1732.28	2019.1	2252.19	2428.23	2732.21	3185.53	3647.63	4030.58	4267.65	4328.78	4317.44
15	4450.59	4476.28	4424.39	4172.76	3765.82	3268.09	2778.6	2462.2	2259.92	1971.19	1630.77	1341.48	1227.76	1341.48	1630.77	1971.19	2259.92	2462.2	2778.6	3268.09	3765.82	4172.76	4424.39	4476.28	4450.59
16	4584.9	4621.76	4587.51	4317.17	3892.47	3356.08	2831.32	2498.23	2266.69	1909.88	1503.36	1171.91	1046.77	1171.91	1503.36	1909.88	2266.69	2498.23	2831.32	3356.08	3892.47	4317.17	4587.51	4621.76	4584.9
17	4700.99	4751.52	4741.02	4465.56	4025.38	3454.16	2886.82	2539.28	2269.14	1842.82	1368.62	1011.89	895.326	1011.89	1368.62	2269.14	2539.28	2886.82	3454.16	4025.38	4465.56	4741.02	4751.52	4700.99	
18	4817.68	4888.65	4892.68	4623.55	4165.89	3555.43	2945.6	2582.59	2265.08	1760.62	1221.15	859.583	762.128	859.583	1221.15	1760.62	2265.08	2582.59	2945.6	3555.43	4165.89	4623.55	4892.68	4888.65	4817.68
19	4924.62	5014.34	5038.94	4785.07	4310.81	3663.27	3006.43	2628.18	2255.01	1665.4	1071.92	734.725	630.077	734.725	1071.92	1665.4	2255.01	2628.18	3006.43	3663.27	4310.81	4785.07	5038.94	5014.34	4924.62
20	5024.25	5135.09	5187.54	4949.3	4463.46	3777.37	3071.92	2673.62	2237.17	1561.91	936.144	620.148	537.531	620.148	936.144	1561.91	2237.17	2673.62	3071.92	3777.37	4463.46	4949.3	5187.54	5135.09	5024.25
21	5132.64	5265.44	5337.85	5117.95	4619.57	3891.36	3139.84	2718.59	2211.16	1444.51	809.559	526.676	463.386	526.676	809.559	1444.51	2211.16	2718.59	3139.84	3891.36	4619.57	5117.95	5337.85	5265.44	5132.64
22	5219.25	5382.57	5491.13	5281.69	4777.08	4008.43	3206.26	2761.1	2175.57	1327.69	701.999	464.291	420.555	464.291	701.999	1327.69	2175.57	2761.1	3206.26	4008.43	4777.08	5281.69	5491.13	5382.57	5219.25
23	5307.01	5500.6	5654.06	5458.48	4941.03	4127.13	3274.63	2801.39	2129.38	1206	609.541	425.172	404.085	425.172	609.541	1206	2129.38	2801.39	3274.63	4127.13	4941.03	5458.48	5654.06	5500.6	5307.01
24	5385.76	5617.15	5818.52	5630.32	5105.13	4243.97	3341.08	2836.09	2075.21	1088.43	536.273	413.346	412.551	413.346	536.273	1088.43	2075.21	2836.09	3341.08	4243.97	5105.13	5630.32	5818.52	5617.15	5385.76
25	5449.36	5723.47	5980.98	5814.22	5265.42	4359.44	3406.81	2867.78	2008.18	979.3	488.097	424.973	435.906	424.973	488.097	979.3	2008.18	2867.78	3406.81	4359.44	5265.42	5814.22	5980.98	5723.47	5449.36
26	5500.47	5823.89	6145.07	6003.86	5429.64	4475.14	3471.37	2893.83	1932.47	874.305	462.912	454.004	471.66	454.004	462.912	874.305	1932.47	2893.83	3471.37	4475.14	5429.64	6003.86	6145.07	5823.89	5500.47
27	5513.86	5888.25	6300.05	6195.8	5588.3	4588.08	3533.07	2912.97	1848.55	783.469	462.101	492.46	510.735	492.46	462.101	783.469	1848.55	2912.97	3533.07	4588.08	5588.3	6195.8	6300.05	5888.25	5513.86
28	5527.89	5926.53	6447.12	6391.91	5749.45	4698.3	3593.2	2926.97	1753.34	702.258	483.381	532.848	541.911	532.848	483.381	702.258	1753.34	2926.97	3593.2	4698.3	5749.45	6391.91	6447.12	5926.53	5527.89
29	5533.16	5962.75	6565.02	6583.05	5908.02	4805.12	3649.29	2933.5	1655.98	634.291	520.228	568.597	565.761	568.597	520.228	634.291	1655.98	2933.5	3649.29	4805.12	5908.02	6583.05	6565.02	5962.75	5533.16
30	5535.99	5986.79	6659.71	6772.99	6068.43	4914.46	3703.29	2932.02	1547.68	590.346	566.026	592.795	578.889	592.795	566.026	590.346	1547.68	2932.02	3703.29	4914.46	6068.43	6772.99	6659.71	5986.79	5535.99
31	5536.16	6002.39	6725.62	6956.48	6230.92	5017.23	3753.17	2921.22	1439.7	565.745	611.554	608.532	584.405	608.532	611.554	565.745	1439.7	2921.22	3753.17	5017.23	6230.92	6956.48	6725.62	6002.39	5536.16
32	5517.26	6010.1	6782.93	7121.86	6391.45	5119.86	3797.95	2900.97	1329.88	563.583	650.238	616.083	579.926	616.083	650.238	563.583	1329.88	2900.97	3797.95	5119.86	6391.45	7121.86	6782.93	6010.1	5517.26
33	5465.32	5992.68	6828.93	7277.32	6554.53	5216.66	3841.16	2872.99	1221.09	581.614	678.264	615.112	568.144	615.112	678.264	581.614	1221.09	2872.99	3841.16	5216.66	6554.53	7277.32	6828.93	5992.68	5465.32
34	5416.67	5952.62	6862.63	7400.7	6707.53	5308.2	3881.44	2835.44	1116.97	613.524	696.577	605.978	552.17	605.978	696.577	613.524	1116.97	2835.44	3881.44	5308.2	6707.53	7400.7	6862.63	5952.62	5416.67
35	5355.93	5912.01	6875.09	7504.68	6856.76	5397.88	3920.04	2789.31	1020.29	653.861	706.158	593.639	531.618	593.639	706.158	653.861	1020.29	2789.31	3920.04	5397.88	6856.76	7504.68	6875.09	5912.01	5355.93
36	5222.5	5835.7	6872.32	7597.45	6998.02	5485.55	3960.2	2736.32	930.076	696.924	706.02	575.376	507.293	575.376	706.02	696.924	930.076	2736.32	3960.2	5485.55	6998.02	7597.45	6872.32	5835.7	5222.5
37	5062.27	5712.73	6855.24	7669.3	7123.65	5571.15	4002.05	2675.77	853.466	734.796	701.938	554.625	482.024	554.625	701.938	734.796	853.466	2675.77	4002.05	5571.15	7123.65	7669.3	6855.24	5712.73	5062.27
38	4870.22	5555.88	6812.34	7722.04	7247.07	5653.47	4047.76	2612.84	788.56	763.562	696.009	533.206	459.6												

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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	0.637	76.2	0.997	6.33%
277.00	60	0.309	74.7	0.872	13.59%

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*****