

Photometric Test Report

Relevant Standards

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

Prepared For

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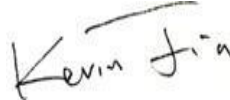
2023/1/14

Prepared By



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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		7523
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	132.0
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		57.0
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	3.14%
		20.00%	277V	6.98%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.998
		0.9	277V	0.926
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3045±175	2891
		4 step	3045±100	
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		3
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		94
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%		0.26%
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		0.476
(Goniophotometer - Section 4.2)		Non-Worst Case		0.218
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		57.0
(Goniophotometer - Section 4.2)		Non-Worst Case		55.9

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2023/1/10	ALEDS2TY	A1
2	Goniophotometer Test	2023/1/10	ALEDS2TY	A1
3	THD and PF Test	2023/1/10	ALEDS2TY	A1

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.

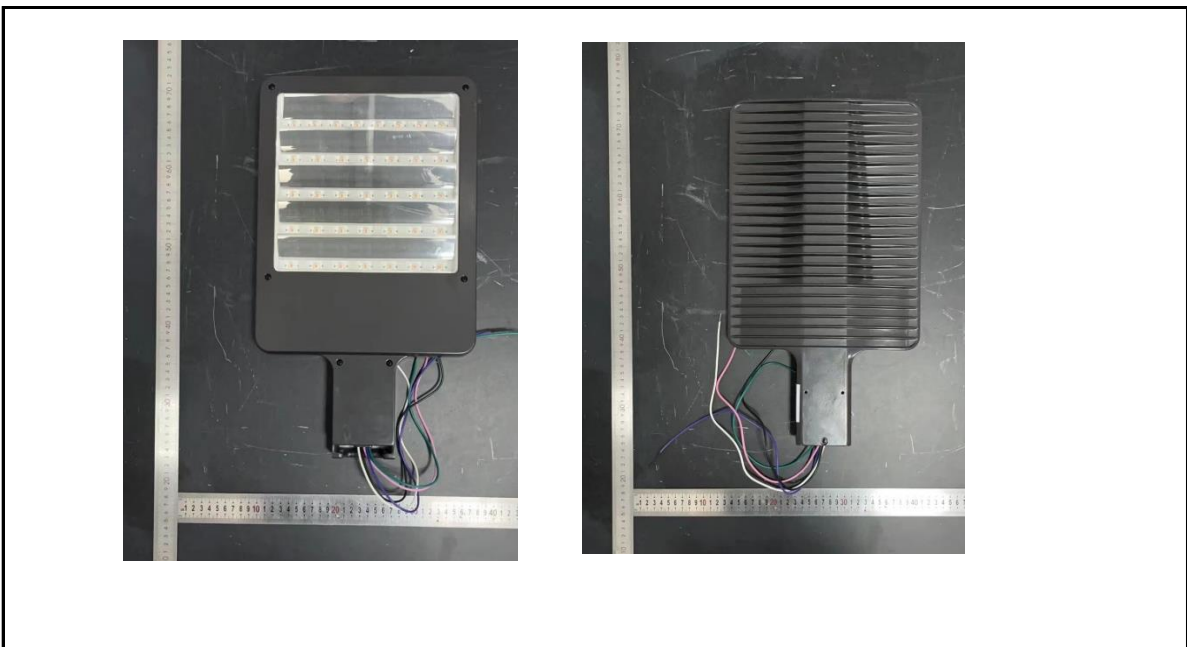
3.0 Production Description

Luminaire Description: ALEDS2TY

Description: 60W @ 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.	ALEDS2TY	Sample ID.	A1
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	0.476	57.0	0.998
277.00	60	0.218	55.9	0.926

Test Result

CCT (K)	CRI	R9	Duv
2891	82	3	0.0011

Rf	Rg	IES Rcs,h1
84	94	-12%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDS2TY	Sample ID.	A1
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	0.476	57.0	0.998
NON-WROST CASE	277.00	60	0.218	55.9	0.926

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
7523	92.0	159.1	58.4	143.6	132.0

Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.26%	B2-U0-G1

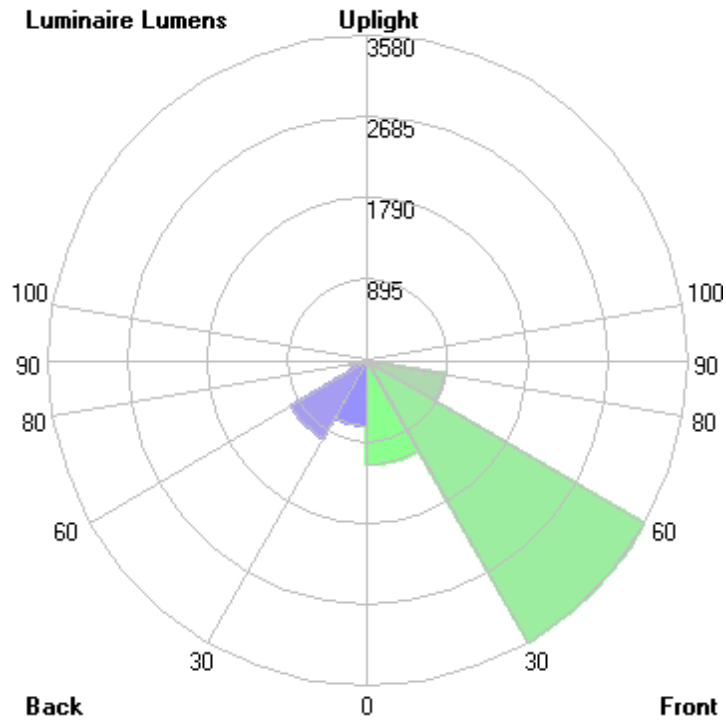
4.2 Goniophotometer Test

Zonal Lumen Summary

	Zonal (lm)		Total (lm)	Percent
0-10	201.07	0 - 10	201.07	2.67%
10-20	630.74	0 - 20	831.81	11.06%
20-30	1039.65	0 - 30	1871.46	24.87%
30-40	1408.83	0 - 40	3280.29	43.60%
40-50	1694.08	0 - 50	4974.37	66.12%
50-60	1461.51	0 - 60	6435.88	85.54%
60-70	833.22	0 - 70	7269.10	96.62%
70-80	234.97	0 - 80	7504.07	99.74%
80-90	19.42	0 - 90	7523.49	100.00%
90-100	0.00	0 - 100	7523.49	100.00%
100-110	0.00	0 - 110	7523.49	100.00%
110-120	0.00	0 - 120	7523.49	100.00%
120-130	0.00	0 - 130	7523.49	100.00%
130-140	0.00	0 - 140	7523.49	100.00%
140-150	0.00	0 - 150	7523.49	100.00%
150-160	0.00	0 - 160	7523.49	100.00%
160-170	0.00	0 - 170	7523.49	100.00%
170-180	0.00	0 - 180	7523.49	100.00%

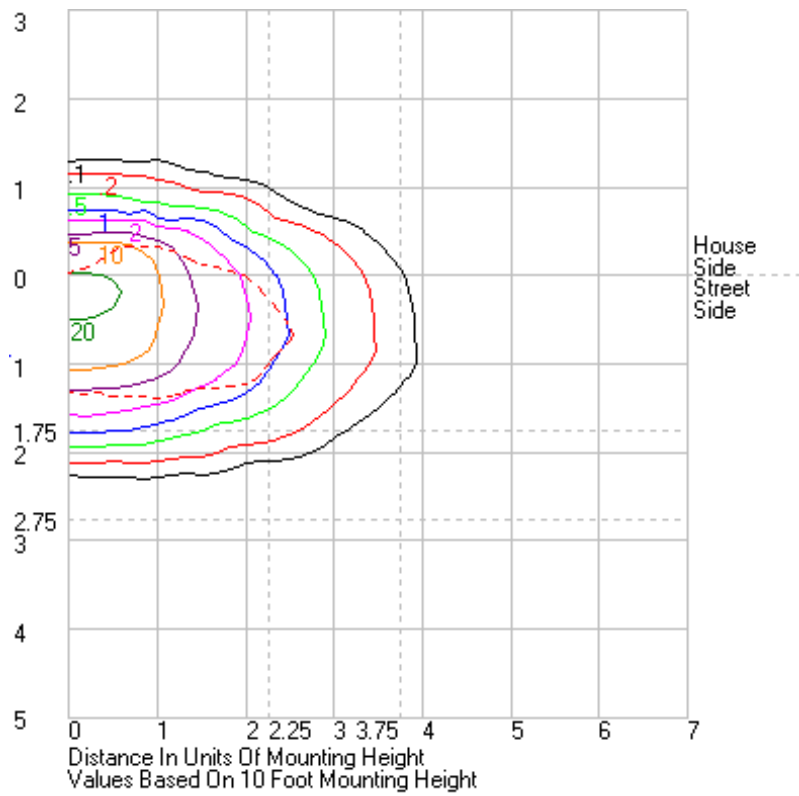
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1149.7	N.A.	15.3
FM - Front-Medium (30-60)	3579.6	N.A.	47.6
FH - Front-High (60-80)	879.9	N.A.	11.7
FVH - Front-Very High (80-90)	15.3	N.A.	0.2
BL - Back-Low (0-30)	721.7	N.A.	9.6
BM - Back-Medium (30-60)	984.8	N.A.	13.1
BH - Back-High (60-80)	188.3	N.A.	2.5
BVH - Back-Very High (80-90)	4.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7523.4	N.A.	100.0
BUG Rating	B2-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	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44	2079.44
1	2155.55	2153.71	2149.27	2139.24	2124.74	2107.17	2085.66	2064.79	2044.21	2025.92	2011.53	2000.02	1995.46	2000.02	2011.53	2025.92	2044.21	2064.79	2085.66	2107.17	2124.74	2139.24	2149.27	2153.71	2155.55
2	2215.25	2211.06	2202.8	2186.66	2163.71	2130.57	2089.42	2047.63	2005.7	1968.15	1940.67	1924.7	1918.98	1924.7	1940.67	1968.15	2005.7	2047.63	2089.42	2130.57	2163.71	2186.66	2202.8	2211.06	2215.25
3	2267.77	2262.39	2248.8	2228.25	2197.62	2154.35	2094.37	2030.61	1967.59	1919.44	1884.1	1861.6	1854.73	1861.6	1884.1	1919.44	1967.59	2030.61	2094.37	2154.35	2197.62	2228.25	2248.8	2262.39	2267.77
4	2319.05	2311.43	2295.96	2269.41	2230.6	2178.48	2101.77	2015.13	1935.54	1876.78	1831.69	1807.79	1801.5	1807.79	1831.69	1876.78	1935.54	2015.13	2101.77	2178.48	2230.6	2269.41	2295.96	2311.43	2319.05
5	2367.69	2360.37	2342.75	2308.9	2263.02	2204.1	2111.6	2002.27	1909.31	1837.43	1797.69	1778.45	1774.09	1778.45	1797.69	1837.43	1909.31	2002.27	2111.6	2204.1	2263.02	2308.9	2342.75	2360.37	2367.69
6	2404.35	2398.35	2385.63	2351.87	2298.9	2230.6	2123.7	1992.02	1886.38	1813.18	1778.09	1758.73	1754.28	1758.73	1778.09	1813.18	1886.38	1992.02	2123.7	2230.6	2298.9	2351.87	2385.63	2398.35	2404.35
7	2442.93	2435.27	2420.07	2391.44	2335.56	2257.46	2137.02	1985.04	1865.63	1799.18	1764.7	1750.64	1749.85	1750.64	1764.7	1799.18	1865.63	1985.04	2137.02	2257.46	2335.56	2391.44	2420.07	2435.27	2442.93
8	2480.17	2473.98	2455.61	2426.43	2371.6	2285.25	2152.43	1981.13	1854.22	1792.59	1762.13	1749.98	1749.02	1749.98	1762.13	1792.59	1854.22	1981.13	2152.43	2285.25	2371.6	2426.43	2455.61	2473.98	2480.17
9	2501.88	2500.58	2493.23	2460.69	2409.48	2312.82	2168.69	1978.99	1848.59	1789.97	1764.12	1749.14	1746.13	1749.14	1764.12	1789.97	1848.59	1978.99	2168.69	2312.82	2409.48	2460.69	2493.23	2500.58	2501.88
10	2524.17	2521.3	2519.38	2497.35	2445.13	2343.78	2185.93	1977.73	1848.68	1795.44	1766.59	1746.38	1742.7	1746.38	1766.59	1795.44	1848.68	1977.73	2185.93	2343.78	2445.13	2497.35	2519.38	2521.3	2524.17
11	2539.55	2539.45	2540.58	2534.01	2479.08	2375.79	2204.3	1979.43	1852.83	1803.68	1767.51	1742.68	1738.52	1742.68	1767.51	1803.68	1852.83	1979.43	2204.3	2375.79	2479.08	2534.01	2540.58	2539.45	2539.55
12	2553.79	2554.12	2560.87	2560.22	2513.77	2408.04	2223.53	1981.47	1859.07	1812.17	1766.92	1739.93	1735.62	1739.93	1766.92	1812.17	1859.07	1981.47	2223.53	2408.04	2513.77	2560.22	2560.87	2554.12	2553.79
13	2571.44	2569.81	2577.93	2585.39	2549.19	2440.53	2242.92	1984.59	1868.93	1819.17	1768.59	1737.87	1732.54	1737.87	1768.59	1819.17	1868.93	1984.59	2242.92	2440.53	2549.19	2585.39	2577.93	2569.81	2571.44
14	2588.58	2586.75	2594.41	2610.56	2584.81	2472.19	2263.56	1991.18	1882.65	1825.93	1769.68	1735.23	1728.23	1735.23	1769.68	1825.93	1882.65	1991.18	2263.56	2472.19	2584.81	2610.56	2594.41	2586.75	2588.58
15	2607.41	2604.79	2613.05	2631.87	2618.96	2506.36	2286.32	1999.91	1897.6	1832.59	1772.19	1731.43	1717.26	1731.43	1772.19	1832.59	1897.6	1999.91	2286.32	2506.36	2618.96	2631.87	2613.05	2604.79	2607.41
16	2630.08	2624.92	2630.63	2652.02	2651.2	2543.36	2311.48	2013.22	1912.53	1839.83	1773.7	1713.52	1689.79	1713.52	1773.7	1839.83	1912.53	2013.22	2311.48	2543.36	2651.2	2652.02	2630.63	2624.92	2630.08
17	2666.34	2653.95	2651.07	2674.27	2682.94	2580.57	2337.6	2029	1929.04	1846.72	1769.79	1678.21	1634.89	1678.21	1769.79	1846.72	1929.04	2029	2337.6	2580.57	2682.94	2674.27	2651.07	2653.95	2666.34
18	2712.59	2694.03	2675.58	2696.18	2712.61	2618.75	2365.93	2046.91	1944.97	1854.86	1753.34	1613.93	1549.75	1613.93	1753.34	1854.86	1944.97	2046.91	2365.93	2618.75	2712.61	2696.18	2675.58	2694.03	2712.59
19	2763.92	2742.27	2710.11	2718.75	2742.92	2658.61	2394.5	2067.85	1960.7	1863.64	1719.26	1522.76	1442.5	1522.76	1719.26	1863.64	1960.7	2067.85	2394.5	2658.61	2742.92	2718.75	2710.11	2742.27	2763.92
20	2819.66	2795.17	2753.61	2740.75	2771.48	2700.62	2426.89	2091.85	1977.72	1870.55	1660.79	1413.79	1317.8	1413.79	1660.79	1870.55	1977.72	2091.85	2426.89	2700.62	2771.48	2740.75	2753.61	2795.17	2819.66
21	2870.14	2848.8	2802.99	2767.61	2799.93	2743.68	2461.67	2117.31	1996.54	1867.97	1583.74	1291.48	1185.74	1291.48	1583.74	1867.97	1996.54	2117.31	2461.67	2743.68	2799.93	2767.61	2802.99	2848.8	2870.14
22	2892.54	2890.49	2856.27	2801.58	2829.87	2789.44	2498	2146.71	2016.08	1856.05	1490.02	1163.46	1052.29	1163.46	1490.02	1856.05	2016.08	2146.71	2498	2789.44	2829.87	2801.58	2856.27	2890.49	2892.54
23	2885.69	2903.96	2911.5	2844.39	2865.21	2835.51	2537.38	2179.1	2037.75	1829.42	1386.1	1029.72	918.838	1029.72	1386.1	1829.42	2037.75	2179.1	2537.38	2835.51	2865.21	2844.39	2911.5	2903.96	2885.69
24	2866.91	2893.63	2954.98	2890.82	2901.44	2885.27	2576.84	2214.09	2060.95	1788.38	1273.95	899.536	788.5	899.536	1273.95	1788.38	2060.95	2214.09	2576.84	2885.27	2901.44	2890.82	2954.98	2893.63	2866.91
25	2833.82	2871.86	2980.48	2944.63	2938.03	2934.66	2618.87	2249.05	2066.23	1731.37	1155.82	773.041	661.983	773.041	1155.82	1731.37	2066.23	2249.05	2618.87	2934.66	2938.03	2944.63	2980.48	2871.86	2833.82
26	2804.18	2842.95	2985.69	3002.56	2974.51	2983.69	2660.49	2286.38	2112.06	1664.78	1037.76	653.706	550.599	653.706	1037.76	1664.78	2112.06	2286.38	2660.49	2983.69	2974.51	3002.56	2985.69	2842.95	2804.18
27	2791.5	2819.95	2974.54	3062.02	3013.5	3030.17	2702.73	2324.62	2135.57	1586.39	919.037	544.968	452.495	544.968	919.037	1586.39	2135.57	2324.62	2702.73	3030.17	3013.5	3062.02	2974.54	2819.95	2791.5
28	2802.96	2812.92	2960.29	3116.36	3058.07	3076.47	2744	2364.07	2153.37	1500.27	805.925	456.382	379.862	456.382	805.925	1500.27	2153.37	2364.07	2744	3058.07	3116.36	2960.29	2812.92	2802.96	
29	2829.6	2829.37	2942.83	3158.94	3107.08	3122.17	2785.83	2401.31	2162.66	1409.37	695.14	386.698	329.096	386.698	695.14	1409.37	2162.66	2401.31	2785.83	3122.17	3107.08	3158.94	2942.83	2829.37	2829.6
30	2858.55	2856.04	2931.9	3187.45	3162.12	3168.49	2829.49	2441.69	2162.41	1311.3	586.845	332.606	295.71	332.606	586.845	1311.3	2162.41	2441.69	2829.49	3168.49	3162.12	3187.45	2931.9	2856.04	2858.55
31	2893.21	2883.85	2938.77	3208.56	3219.85	3212.13	2869.32	2479.42	2151.76	1213.98	504.348	300.646	271.568	300.646	504.348	1213.98	2151.76	2479.42	2869.32	3212.13	3219.85	3208.56	2938.77	2883.85	2893.21
32	2936.47	2918.72	2959.45	3215.44	3280.51	3255.23	2910.25	2516.58	2129	1109.93	427.444	276.748	254.402	276.748	427.444	1109.93	2129	2516.58	2910.25	3255.23	3280.51	3215.44	2959.45	2918.72	2936.47
33	2989.33	2964.08	2990.12	3223.72	3347.64	3298.22	2951.29	2551.33	2095.2	1003.03	367.987	259.161	241.913	259.161	367.987	1003.03	2095.2	2551.33	2951.29	3298.22	3347.64	3223.72	2990.12	2964.08	2989.33
34	3047.39	3014.6	3019.97	3226.87	3412.13	3339.01	2988.5	2585.7	2052.62	893.75	329.547	246.916	229.277	246.916	329.547	893.75	2052.62	2585.7	2988.5	3339.01	3412.13	3226.87	3019.97	3014.6	3047.39
35	3113.96	3072.2	3058.41	3237.12	3476.88	3376.47	3024.16	2617.07	1997.38	783.268	299.39	233.637	215.555	233.637	299.39	783.268	1997.38	2617.07	3024.16	3237.12	3476.88	3376.47	3058.41	3072.2	3113.96
36	3204.98	3144.39	3104.56	3258.09	3537.19	3409.58	3055.47	2645.12	1931.6	676.392	277.265	219.36	200.694	219.36	277.265	676.392	1931.6	2645.12	3055.47	3409.58	3537.19	3258.09	3104.56	3144.39	3204.98
37	3301.3	3230.95	3154.05	3285.58	3583.63	3437.48	3078.42	2666.83	1855.65	579.197	260.905	205.468	186.676	205.468	260.905	579.197	1855.65	2666.83	3078.42	3437.48	3583.63	3285.58	3154.05	3230.95	3301.3
38	3389.05	3323.8	3215.64	3321.42	3618.7	3460.2	3095.76	2683.41	1770.84	495.938	247.167	190.844	172.385	190.844	247.167	495.938</									

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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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	ALEDS2TY	Sample ID.	A1
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	0.476	57.0	0.998	3.14%
277.00	60	0.218	55.9	0.926	6.98%

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*****