

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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Approved 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		5472
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	135.8
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	5.21%
		20.00%	277V	10.32%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.870
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		0.338
(Goniophotometer - Section 4.2)		Non-Worst Case		0.165
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.3
(Goniophotometer - Section 4.2)		Non-Worst Case		39.7

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.

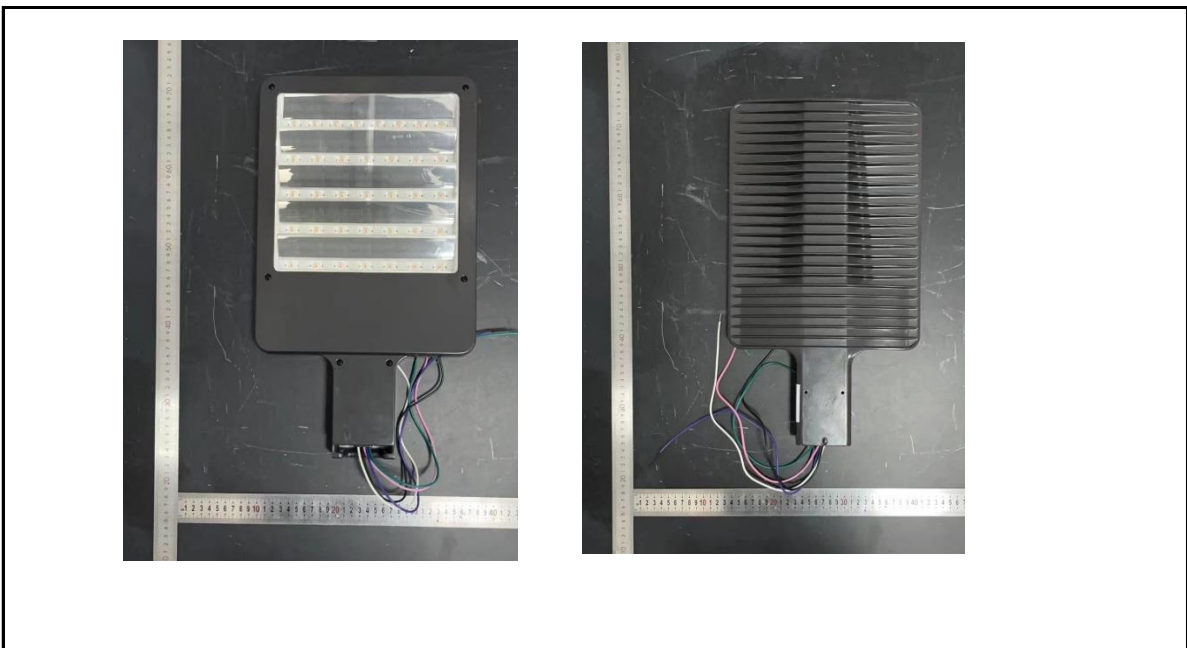
3.0 Production Description

Luminaire Description: ALEDS2TY

Description: 40W @ 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
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	0.338	40.3	0.995
277.00	60	0.165	39.7	0.870

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	0.338	40.3	0.995
NON-WROST CASE	277.00	60	0.165	39.7	0.870

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5472	92.0	159.1	58.4	143.6	135.8

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

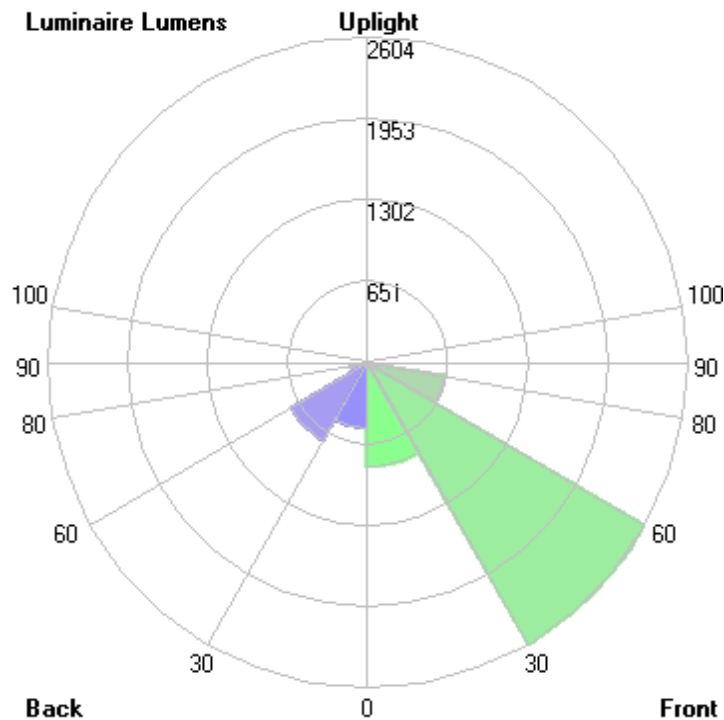
4.2 Goniophotometer Test

Zonal Lumen Summary

	Zonal (lm)		Total (lm)	Percent
0-10	146.26	0 - 10	146.26	2.67%
10-20	458.78	0 - 20	605.04	11.06%
20-30	756.21	0 - 30	1361.25	24.87%
30-40	1024.75	0 - 40	2386.00	43.60%
40-50	1232.23	0 - 50	3618.23	66.12%
50-60	1063.07	0 - 60	4681.30	85.54%
60-70	606.06	0 - 70	5287.36	96.62%
70-80	170.91	0 - 80	5458.27	99.74%
80-90	14.12	0 - 90	5472.39	100.00%
90-100	0.00	0 - 100	5472.39	100.00%
100-110	0.00	0 - 110	5472.39	100.00%
110-120	0.00	0 - 120	5472.39	100.00%
120-130	0.00	0 - 130	5472.39	100.00%
130-140	0.00	0 - 140	5472.39	100.00%
140-150	0.00	0 - 150	5472.39	100.00%
150-160	0.00	0 - 160	5472.39	100.00%
160-170	0.00	0 - 170	5472.39	100.00%
170-180	0.00	0 - 180	5472.39	100.00%

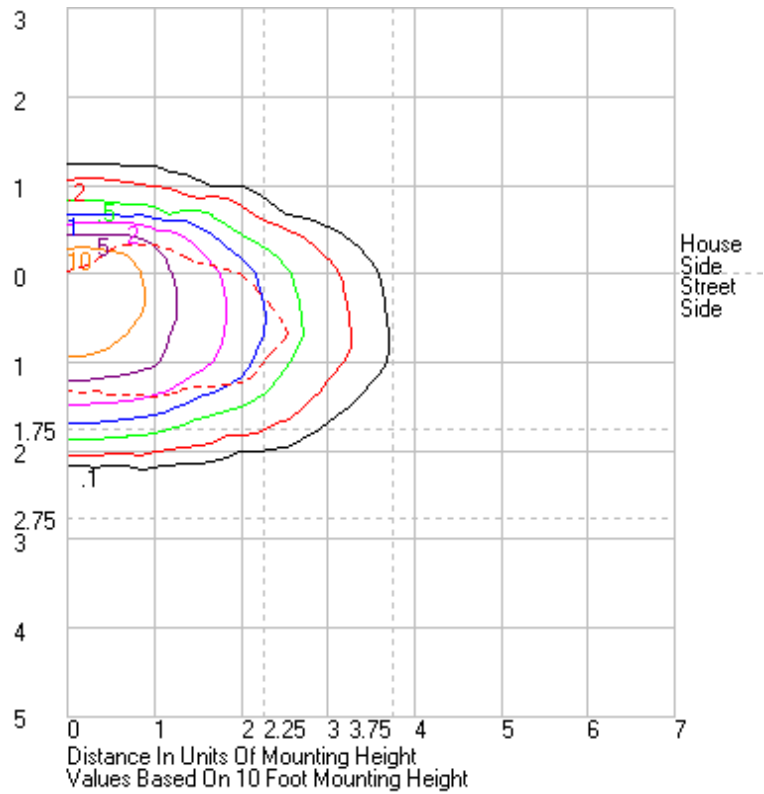
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	836.3	N.A.	15.3
FM - Front-Medium (30-60)	2603.7	N.A.	47.6
FH - Front-High (60-80)	640.0	N.A.	11.7
FVH - Front-Very High (80-90)	11.1	N.A.	0.2
BL - Back-Low (0-30)	525.0	N.A.	9.6
BM - Back-Medium (30-60)	716.4	N.A.	13.1
BH - Back-High (60-80)	137.0	N.A.	2.5
BVH - Back-Very High (80-90)	3.0	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	5472.5	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	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53	1512.53
1	1567.89	1566.56	1563.32	1556.03	1545.48	1532.7	1517.06	1501.87	1486.9	1473.6	1463.13	1454.76	1451.44	1454.76	1463.13	1473.6	1486.9	1501.87	1517.06	1532.7	1545.48	1556.03	1563.32	1566.56	1567.89
2	1611.32	1608.27	1602.26	1590.52	1573.83	1549.72	1519.79	1489.39	1458.89	1431.58	1411.59	1399.98	1395.82	1399.98	1411.59	1431.58	1458.89	1489.39	1519.79	1549.72	1573.83	1590.52	1602.26	1608.27	1611.32
3	1649.52	1645.61	1635.72	1620.77	1598.49	1567.02	1523.39	1477.01	1431.17	1396.15	1370.44	1354.08	1349.08	1354.08	1370.44	1396.15	1431.17	1477.01	1523.39	1567.02	1598.49	1620.77	1635.72	1645.61	1649.52
4	1686.82	1681.27	1670.02	1650.71	1622.48	1584.57	1528.77	1465.75	1407.86	1365.12	1332.32	1314.94	1310.37	1314.94	1332.32	1365.12	1407.86	1465.75	1528.77	1584.57	1622.48	1650.71	1670.02	1681.27	1686.82
5	1722.2	1716.87	1704.05	1679.44	1646.06	1603.21	1535.92	1456.4	1388.78	1336.5	1307.59	1293.6	1290.43	1293.6	1307.59	1336.5	1388.78	1456.4	1535.92	1603.21	1646.06	1679.44	1704.05	1716.87	1722.2
6	1748.86	1744.5	1735.24	1710.69	1672.16	1622.48	1544.72	1448.94	1372.1	1318.86	1293.34	1279.25	1276.02	1279.25	1293.34	1318.86	1372.1	1448.94	1544.72	1622.48	1672.16	1710.69	1735.24	1744.5	1748.86
7	1776.92	1771.35	1760.29	1739.47	1698.82	1642.02	1554.41	1443.87	1357.01	1308.68	1283.59	1273.37	1272.8	1273.37	1283.59	1308.68	1357.01	1443.87	1554.41	1642.02	1698.82	1739.47	1760.29	1771.35	1776.92
8	1804.01	1799.51	1786.15	1764.92	1725.04	1662.23	1565.62	1441.02	1348.71	1303.88	1281.73	1272.89	1272.19	1272.89	1281.73	1303.88	1348.71	1441.02	1565.62	1662.23	1725.04	1764.92	1786.15	1799.51	1804.01
9	1819.8	1818.86	1813.51	1789.84	1752.59	1682.28	1577.44	1439.46	1344.62	1301.98	1283.17	1272.28	1270.09	1272.28	1283.17	1301.98	1344.62	1439.46	1577.44	1682.28	1752.59	1789.84	1813.51	1818.86	1819.8
10	1836.01	1833.92	1832.53	1816.5	1778.52	1704.81	1589.98	1438.55	1344.68	1305.96	1284.97	1270.27	1267.6	1270.27	1284.97	1305.96	1344.68	1438.55	1589.98	1704.81	1778.52	1816.5	1832.53	1833.92	1836.01
11	1847.21	1847.13	1847.95	1843.17	1803.22	1728.08	1603.35	1439.79	1347.7	1311.95	1285.64	1267.58	1264.56	1267.58	1285.64	1311.95	1347.7	1439.79	1603.35	1728.08	1803.22	1843.17	1847.95	1847.13	1847.21
12	1857.56	1857.8	1862.71	1862.24	1828.45	1751.55	1617.34	1441.27	1352.24	1318.13	1285.21	1265.58	1262.44	1265.58	1285.21	1318.13	1352.24	1441.27	1617.34	1751.55	1828.45	1862.24	1862.71	1857.8	1857.56
13	1870.4	1869.21	1875.12	1880.55	1854.21	1775.18	1631.44	1443.54	1359.41	1323.22	1286.43	1264.08	1260.21	1264.08	1286.43	1323.22	1359.41	1443.54	1631.44	1775.18	1854.21	1880.55	1875.12	1869.21	1870.4
14	1882.87	1881.54	1887.1	1898.85	1880.12	1798.21	1646.45	1448.33	1369.39	1328.14	1287.22	1262.16	1257.07	1262.16	1287.22	1328.14	1369.39	1448.33	1646.45	1798.21	1880.12	1898.85	1887.1	1881.54	1882.87
15	1896.56	1894.66	1900.67	1914.36	1904.96	1823.06	1663.01	1454.68	1380.26	1332.98	1289.04	1259.4	1249.09	1259.4	1289.04	1332.98	1380.26	1454.68	1663.01	1823.06	1904.96	1914.36	1900.67	1894.66	1896.56
16	1913.05	1909.3	1913.45	1929.01	1928.42	1849.97	1681.31	1464.37	1391.13	1338.24	1290.14	1246.37	1229.11	1246.37	1290.14	1338.24	1391.13	1464.37	1681.31	1849.97	1928.42	1929.01	1913.45	1909.3	1913.05
17	1939.42	1930.41	1928.32	1945.19	1951.5	1877.04	1700.31	1475.84	1403.13	1343.26	1287.3	1220.68	1189.18	1220.68	1287.3	1343.26	1403.13	1475.84	1700.31	1877.04	1951.5	1945.19	1928.32	1930.41	1939.42
18	1973.07	1959.57	1946.14	1961.13	1973.08	1904.81	1720.91	1488.87	1414.72	1349.17	1275.33	1173.93	1127.25	1173.93	1275.33	1349.17	1414.72	1488.87	1720.91	1904.81	1973.08	1961.13	1946.14	1959.57	1973.07
19	2010.4	1994.66	1971.27	1977.54	1995.13	1933.8	1741.69	1504.1	1426.16	1355.56	1250.55	1107.62	1049.24	1107.62	1250.55	1355.56	1426.16	1504.1	1741.69	1933.8	1995.13	1977.54	1971.27	1994.66	2010.4
20	2050.94	2033.13	2002.9	1993.55	2015.9	1964.36	1765.26	1521.56	1438.54	1360.59	1208.02	1028.35	958.529	1028.35	1208.02	1360.59	1438.54	1521.56	1765.26	1964.36	2015.9	1993.55	2002.9	2033.13	2050.94
21	2087.66	2072.14	2038.82	2013.08	2036.59	1995.68	1790.55	1540.08	1452.23	1358.71	1151.97	939.389	862.473	939.389	1151.97	1358.71	1452.23	1540.08	1790.55	1995.68	2036.59	2013.08	2038.82	2072.14	2087.66
22	2103.96	2102.46	2077.57	2037.8	2058.37	2028.97	1816.98	1561.46	1466.44	1350.04	1083.8	846.272	765.405	846.272	1083.8	1350.04	1466.44	1561.46	1816.98	2028.97	2058.37	2037.8	2077.57	2102.46	2103.96
23	2098.98	2112.26	2117.75	2068.93	2084.08	2062.47	1845.63	1585.02	1482.21	1330.67	1008.22	748.99	668.338	748.99	1008.22	1330.67	1482.21	1585.02	1845.63	2062.47	2084.08	2068.93	2117.75	2112.26	2098.98
24	2085.31	2104.75	2149.38	2102.71	2110.43	2098.67	1874.32	1610.47	1499.08	1300.82	926.639	654.299	573.534	654.299	926.639	1300.82	1499.08	1610.47	1874.32	2098.67	2110.43	2102.71	2149.38	2104.75	2085.31
25	2061.25	2088.91	2167.93	2141.85	2137.05	2134.6	1904.9	1635.9	1517.47	1259.35	840.715	562.29	481.509	562.29	840.715	1259.35	1517.47	1635.9	1904.9	2134.6	2137.05	2141.85	2167.93	2088.91	2061.25
26	2039.68	2067.89	2171.72	2183.98	2163.58	2170.26	1935.17	1663.05	1536.26	1210.92	754.838	475.489	400.491	475.489	754.838	1210.92	1536.26	1663.05	1935.17	2170.26	2163.58	2183.98	2171.72	2067.89	2039.68
27	2030.47	2051.15	2163.6	2227.23	2191.94	2204.07	1965.9	1690.87	1553.36	1153.89	668.483	396.396	329.133	396.396	668.483	1153.89	1553.36	1690.87	1965.9	2204.07	2191.94	2227.23	2163.6	2051.15	2030.47
28	2038.8	2046.04	2153.24	2266.76	2224.36	2237.74	1995.91	1719.56	1566.3	1091.25	586.208	331.96	276.302	331.96	586.208	1091.25	1566.3	1719.56	1995.91	2237.74	2266.76	2224.36	2237.74	2046.04	2038.8
29	2058.17	2058.01	2140.54	2297.73	2260.01	2270.99	2026.34	1746.65	1573.06	1025.14	505.626	281.274	239.376	281.274	505.626	1025.14	1573.06	1746.65	2026.34	2270.99	2260.01	2297.73	2140.54	2058.17	2058.17
30	2079.23	2077.41	2132.59	2318.46	2300.04	2304.68	2058.09	1776.02	1572.88	953.805	426.856	241.929	215.091	241.929	426.856	953.805	1572.88	1776.02	2058.09	2304.68	2300.04	2318.46	2132.59	2077.41	2079.23
31	2104.45	2097.64	2137.58	2333.82	2342.03	2336.42	2087.06	1803.46	1565.14	883.016	366.849	218.682	197.531	218.682	366.849	883.016	1565.14	1803.46	2087.06	2336.42	2342.03	2333.82	2137.58	2097.64	2104.45
32	2135.91	2123	2152.62	2338.82	2386.16	2367.77	2116.84	1830.49	1548.58	807.33	310.912	201.299	185.045	201.299	310.912	807.33	1548.58	1830.49	2116.84	2367.77	2386.16	2338.82	2152.62	2123	2135.91
33	2174.36	2155.99	2174.94	2344.85	2434.98	2399.04	2146.69	1855.77	1524	729.576	267.664	188.507	175.961	188.507	267.664	729.576	1524	1855.77	2146.69	2399.04	2434.98	2344.85	2174.94	2155.99	2174.36
34	2216.59	2192.74	2196.64	2347.14	2481.9	2428.71	2173.75	1880.77	1493.03	650.09	239.704	179.6	166.77	179.6	239.704	650.09	1493.03	1880.77	2173.75	2428.71	2481.9	2347.14	2196.64	2192.74	2216.59
35	2265.01	2234.64	2224.61	2354.59	2528.99	2455.96	2199.69	1903.59	1542.84	569.729	217.768	169.941	156.789	169.941	217.768	569.729	1542.84	1903.59	2199.69	2455.96	2528.99	2354.59	2224.61	2234.64	2265.01
36	2331.22	2287.15	2258.18	2369.85	2572.86	2480.04	2222.47	1923.99	1404.99	491.99	201.675	159.557	145.98	159.557	201.675	491.99	1404.99	1923.99	2222.47	2480.04	2572.86	2369.85	2258.18	2287.15	2331.22
37	2401.28	2350.11	2294.17	2389.84	2606.64	2500.33	2239.16	1939.78	1349.75	421.293	189.775	149.452	135.783	149.452	189.775	421.293	1349.75	1939.78	2239.16	2500.33	2606.64	2389.84	2294.17	2350.11	2401.28
38	2465.1	2417.64	2338.97	2415.91	2632.15	2516.86	2251.78	1951.84	1288.06	360.732	179.783	138.815	125.388	138.81											

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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.	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	0.338	40.3	0.995	5.21%
277.00	60	0.165	39.7	0.870	10.32%

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*****