

Photometric Test Report

Relevant Standards

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

Prepared For

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2022/7/30

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		5746
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	141.5
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.6
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.25%
		20.00%	277V	10.03%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.881
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3985±275	3799
		4 step	3985±154	
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		4
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		93
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%		0.24%
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		0.340
(Goniophotometer - Section 4.2)		Non-Worst Case		0.166
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.6
(Goniophotometer - Section 4.2)		Non-Worst Case		40.6

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2022/7/29	ALEDS2TN	A1
2	Goniophotometer Test	2022/7/29	ALEDS2TN	A1
3	THD and PF Test	2022/7/29	ALEDS2TN	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.

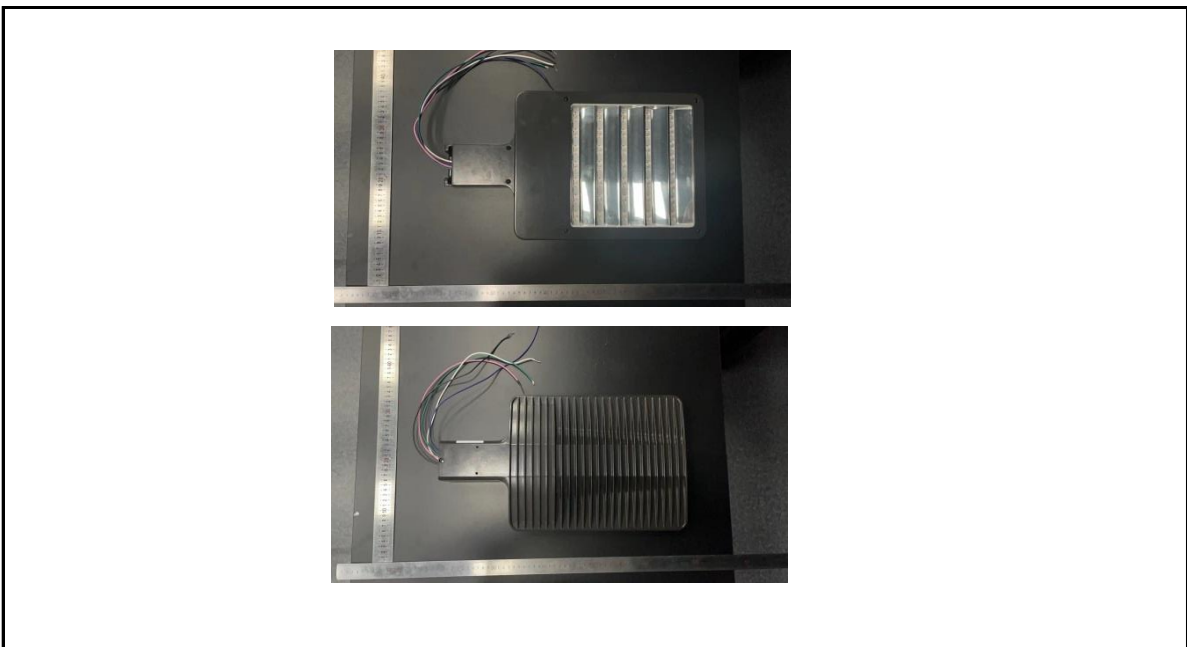
3.0 Production Description

Luminaire Description: ALEDS2TN

Description: 40W @ 4000K

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.	ALEDS2TN	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	0.340	40.6	0.995
277.00	60	0.166	40.6	0.881

Test Result

CCT (K)	CRI	R9	Duv
3799	82	4	0.0012

Rf	Rg	IES Rcs,h1
83	93	-13%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDS2TN	Sample ID.	A1
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 ± 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	0.340	40.6	0.995
NON-WROST CASE	277.00	60	0.166	40.6	0.881

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5746	90.4	158.4	55.4	143.9	141.5

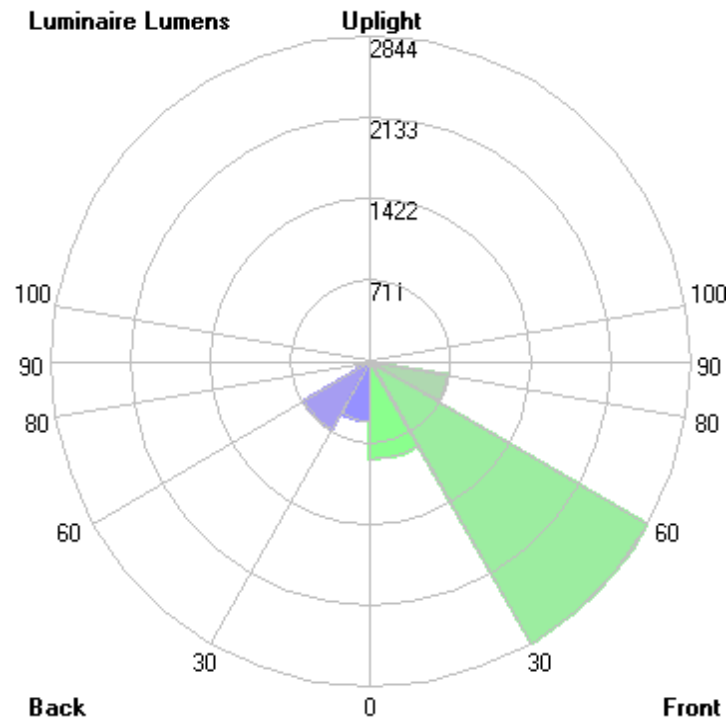
Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.24%	B2-U0-G1

4.2 Goniophotometer Test

	Zonal (lm)		Total (lm)	Percent
0-10	146.95	0 - 10	146.95	2.56%
10-20	466.89	0 - 20	613.84	10.68%
20-30	761.72	0 - 30	1375.56	23.94%
30-40	1073.89	0 - 40	2449.45	42.63%
40-50	1315.43	0 - 50	3764.88	65.52%
50-60	1142.1	0 - 60	4906.98	85.40%
60-70	644.70	0 - 70	5551.68	96.62%
70-80	180.68	0 - 80	5732.36	99.76%
80-90	13.53	0 - 90	5745.89	100.00%
90-100	0.00	0 - 100	5745.89	100.00%
100-110	0.00	0 - 110	5745.89	100.00%
110-120	0.00	0 - 120	5745.89	100.00%
120-130	0.00	0 - 130	5745.89	100.00%
130-140	0.00	0 - 140	5745.89	100.00%
140-150	0.00	0 - 150	5745.89	100.00%
150-160	0.00	0 - 160	5745.89	100.00%
160-170	0.00	0 - 170	5745.89	100.00%
170-180	0.00	0 - 180	5745.89	100.00%

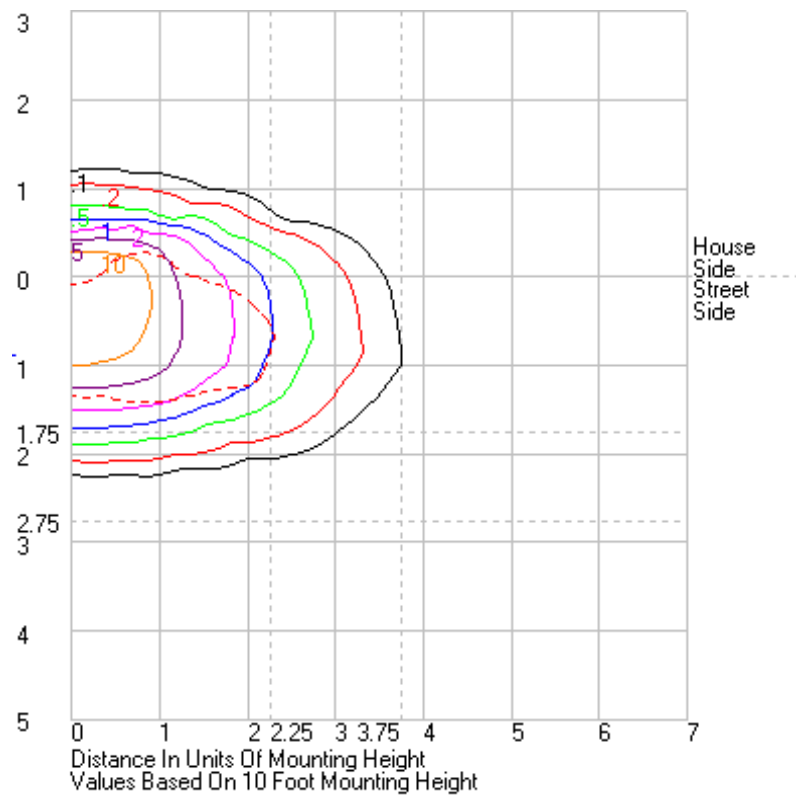
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	851.9	N.A.	14.8
FM - Front-Medium (30-60)	2843.8	N.A.	49.5
FH - Front-High (60-80)	699.8	N.A.	12.2
FVH - Front-Very High (80-90)	10.8	N.A.	0.2
BL - Back-Low (0-30)	523.6	N.A.	9.1
BM - Back-Medium (30-60)	687.6	N.A.	12.0
BH - Back-High (60-80)	125.6	N.A.	2.2
BVH - Back-Very High (80-90)	2.7	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	5745.8	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	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47	1492.47
1	1534.74	1534.34	1530.97	1524.3	1515.51	1505.24	1495.43	1484.36	1474.46	1465.08	1457.79	1453.36	1452.64	1453.36	1457.79	1465.08	1474.46	1484.36	1495.43	1505.24	1515.51	1524.3	1530.97	1534.34	1534.74
2	1583.39	1580.8	1571.31	1557.08	1538.85	1518.95	1497.41	1476.14	1455.51	1438	1425.48	1417.85	1415.82	1417.85	1425.48	1438	1455.51	1476.14	1497.41	1518.95	1538.85	1557.08	1571.31	1580.8	1583.39
3	1633.75	1630.31	1616.09	1594.17	1564.24	1532.46	1500.44	1467.41	1438.59	1415.04	1397.25	1387.01	1383.98	1387.01	1397.25	1415.04	1438.59	1467.41	1500.44	1532.46	1564.24	1594.17	1616.09	1630.31	1633.75
4	1680.49	1675.03	1660	1633.47	1593.11	1548.69	1503.95	1461	1423.05	1394.16	1373.83	1361.04	1356.26	1361.04	1373.83	1394.16	1423.05	1461	1503.95	1548.69	1593.11	1633.47	1660	1675.03	1680.49
5	1718.8	1714.94	1698.7	1668.82	1622.77	1564.62	1509.86	1455.47	1410.61	1376.91	1352.02	1337.84	1334.85	1337.84	1352.02	1376.91	1410.61	1455.47	1509.86	1564.62	1622.77	1668.82	1698.7	1714.94	1718.8
6	1751.65	1747.39	1731.99	1702.58	1652.73	1583.13	1515.78	1452.31	1399.66	1360.33	1334.89	1322.83	1319.79	1322.83	1334.89	1360.33	1399.66	1452.31	1515.78	1583.13	1652.73	1702.58	1731.99	1747.39	1751.65
7	1787.24	1780.81	1764.13	1733.63	1682.76	1604.53	1524.35	1449.89	1391.17	1347.37	1325.06	1317.78	1316.38	1317.78	1325.06	1347.37	1391.17	1449.89	1524.35	1604.53	1682.76	1733.63	1764.13	1780.81	1787.24
8	1816.31	1810.7	1794.33	1761.53	1712.21	1627.14	1533.85	1449.35	1383.69	1340.3	1323.65	1316.82	1315.44	1316.82	1323.65	1340.3	1383.69	1449.35	1533.85	1627.14	1712.21	1761.53	1794.33	1810.7	1816.31
9	1848.89	1842.3	1823.38	1791.14	1740.06	1650.86	1545.99	1451.22	1378.34	1337.93	1323.65	1315.49	1313.12	1315.49	1323.65	1337.93	1378.34	1451.22	1545.99	1650.86	1740.06	1791.14	1823.38	1842.3	1848.89
10	1882.46	1874.48	1852.55	1820.84	1768.05	1677.85	1559.85	1455.7	1376.11	1340.36	1324.05	1313.16	1310.2	1313.16	1324.05	1340.36	1376.11	1455.7	1559.85	1677.85	1768.05	1820.84	1852.55	1874.48	1882.46
11	1913.67	1906.84	1884.23	1847.65	1797.12	1706.51	1576.74	1462.47	1377.92	1343.47	1323.09	1310.56	1307.17	1310.56	1323.09	1343.47	1377.92	1462.47	1576.74	1706.51	1797.12	1847.65	1884.23	1906.84	1913.67
12	1938.33	1932.87	1915.62	1877.84	1828.37	1735.57	1594.33	1470.88	1382.52	1347.48	1321.76	1308.42	1304.55	1308.42	1321.76	1347.48	1382.52	1470.88	1594.33	1735.57	1828.37	1877.84	1915.62	1932.87	1938.33
13	1961.69	1957.14	1941.54	1908.62	1858.65	1765.28	1612.6	1480.83	1392.71	1350.92	1321.01	1304.67	1299.51	1304.67	1321.01	1350.92	1392.71	1480.83	1612.6	1765.28	1858.65	1908.62	1941.54	1957.14	1961.69
14	1975.35	1973.98	1966.72	1941.25	1888.73	1795.96	1633.39	1492.91	1404.57	1355.64	1319.32	1296.21	1285.39	1296.21	1319.32	1355.64	1404.57	1492.91	1633.39	1795.96	1888.73	1941.25	1966.72	1973.98	1975.35
15	1987.04	1985.77	1986.96	1971.54	1919.7	1827	1653.24	1505.2	1417.26	1359.74	1316.36	1277.05	1257.4	1277.05	1316.36	1359.74	1417.26	1505.2	1653.24	1827	1919.7	1971.54	1986.96	1985.77	1987.04
16	1996.01	1995.67	2001.72	2000.71	1951.52	1859.08	1676.35	1518	1432.1	1364.4	1306.14	1243.51	1213.87	1243.51	1306.14	1364.4	1432.1	1518	1676.35	1859.08	1951.52	2000.71	2001.72	1995.67	1996.01
17	1998.92	2002.17	2013.57	2028.14	1985.16	1892.2	1701.26	1534.07	1446.05	1368.95	1284.64	1193.44	1148.55	1193.44	1284.64	1368.95	1446.05	1534.07	1701.26	1892.2	1985.16	2028.14	2013.57	2002.17	1998.92
18	1998.18	2002.12	2025.2	2051.47	2019.8	1924.26	1724.29	1550.83	1460.88	1373.69	1252.84	1119.24	1064.11	1119.24	1252.84	1373.69	1460.88	1550.83	1724.29	1924.26	2019.8	2051.47	2025.2	2002.12	1998.18
19	2004.65	2005.74	2033.3	2073.1	2057.57	1957.44	1751.04	1570.22	1476.62	1373.66	1205.49	1033.69	968.995	1033.69	1205.49	1373.66	1476.62	1570.22	1751.04	1957.44	2057.57	2073.1	2033.3	2005.74	2004.65
20	2012.35	2011.59	2036.59	2093.32	2093.2	1992.83	1777.47	1590.5	1492.74	1367.04	1136.3	939.059	866.683	939.059	1136.3	1367.04	1492.74	1590.5	1777.47	1992.83	2093.2	2093.32	2036.59	2011.59	2012.35
21	2028.2	2023.87	2045	2113.63	2128.51	2028.56	1804.49	1612.1	1509.98	1353.41	1062.37	838.93	771.788	838.93	1062.37	1353.41	1509.98	1612.1	1804.49	2028.56	2128.51	2113.63	2045	2023.87	2028.2
22	2045.64	2042.05	2055.41	2130.43	2163.64	2064.03	1833.84	1634.45	1528.18	1331.03	978.675	746.265	676.887	746.265	978.675	1331.03	1528.18	1634.45	1833.84	2064.03	2163.64	2130.43	2055.41	2042.05	2045.64
23	2058.69	2057.7	2070.17	2144.38	2196.75	2101.45	1864.22	1659.58	1546.53	1295.92	889.786	652.088	582.466	652.088	889.786	1295.92	1546.53	1659.58	1864.22	2101.45	2196.75	2144.38	2070.17	2057.7	2058.69
24	2072.27	2072.8	2090.65	2158.48	2230.85	2138.82	1893.81	1685.63	1564.17	1248.11	806.909	562.61	492.114	562.61	806.909	1248.11	1564.17	1685.63	1893.81	2138.82	2230.85	2158.48	2090.65	2072.27	2072.27
25	2088.26	2088.28	2112.87	2174.23	2264.59	2179.12	1927.33	1715.68	1579.65	1195.41	721.688	476.995	410.485	476.995	721.688	1195.41	1579.65	1715.68	1927.33	2179.12	2264.59	2174.23	2112.87	2088.28	2088.26
26	2111.68	2109.43	2132.17	2194.69	2295.82	2216.22	1961.45	1745.26	1591.61	1136.11	643.343	397.564	337.044	397.564	643.343	1136.11	1591.61	1745.26	1961.45	2216.22	2295.82	2194.69	2132.17	2109.43	2111.68
27	2137.58	2133.73	2155.35	2225.75	2328	2258.46	1997.18	1777.04	1598.41	1070.92	559.812	334.171	280.122	334.171	559.812	1070.92	1598.41	1777.04	1997.18	2258.46	2328	2225.75	2155.35	2133.73	2137.58
28	2176.12	2163.98	2178.2	2242.81	2360.33	2299.53	2031.52	1807.62	1600.7	1003.75	481.019	282.488	237.223	282.488	481.019	1003.75	1600.7	1807.62	2031.52	2299.53	2360.33	2242.81	2178.2	2163.98	2176.12
29	2223.25	2203.37	2208.92	2272.22	2389.96	2341.33	2068.87	1839.61	1596.65	933.544	410.722	237.055	207.271	237.055	410.722	933.544	1596.65	1839.61	2068.87	2341.33	2389.96	2272.22	2208.92	2203.37	2223.25
30	2280.52	2254.02	2239.09	2303.65	2418.25	2383.21	2105.33	1869.52	1584.06	861.924	348.042	209.431	192.67	209.431	348.042	861.924	1584.06	1869.52	2105.33	2383.21	2418.25	2303.65	2239.09	2254.02	2280.52
31	2335.79	2310.45	2276.54	2335.98	2447.56	2427.61	2142.07	1901.8	1561.96	784.93	298.18	195.49	181.996	195.49	298.18	784.93	1561.96	1901.8	2142.07	2427.61	2447.56	2335.98	2276.54	2310.45	2335.79
32	2385.13	2362.31	2322.37	2369.74	2476.68	2468.01	2178.54	1934.3	1531.7	708.281	252.493	184.903	171.139	184.903	252.493	708.281	1531.7	1934.3	2178.54	2468.01	2476.68	2369.74	2322.37	2362.31	2385.13
33	2436.78	2413.21	2377.52	2404.38	2506.41	2510.15	2214.23	1964.25	1493.29	628.278	221.936	173.872	160.379	173.872	221.936	628.278	1493.29	1964.25	2214.23	2510.15	2506.41	2404.38	2377.52	2413.21	2436.78
34	2482.38	2458.86	2436.72	2444.48	2539.49	2548.19	2246.89	1993.04	1449.46	545.741	206.698	163.307	149.133	163.307	206.698	545.741	1449.46	1993.04	2246.89	2548.19	2539.49	2444.48	2436.72	2458.86	2482.38
35	2540.04	2511.17	2491.15	2487.03	2569.76	2586.37	2276.04	2020.44	1400.1	466.769	195.236	152.558	138.562	152.558	195.236	466.769	1400.1	2020.44	2276.04	2586.37	2569.76	2487.03	2491.15	2511.17	2540.04
36	2605.94	2567.58	2547.1	2529.7	2601.09	2616.03	2300.98	2041.61	1344.5	393.939	185.043	141.495	128.256	141.495	185.043	393.939	1344.5	2041.61	2300.98	2616.03	2601.09	2529.7	2547.1	2567.58	2605.94
37	2666.94	2628.8	2598.75	2578.91	2631.95	2640.74	2319.73	2058.68	1283.75	333.982	173.84	131.286	118.052	131.286	173.84	333.982	1283.75	2058.68	2319.73	2640.74	2631.95	2578.91	2598.75	2628.8	2666.94
38	2735.11	2691.17	2655.61	2637.31	2662.23	2660.24	2331.68	2068.65	1213.62	282.612	163.145	120.947	108.659	120.947	163.1										

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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.	ALEDS2TN	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	0.340	40.6	0.995	5.25%
277.00	60	0.166	40.6	0.881	10.03%

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*****