

Photometric Test Report

Relevant Standards

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

Prepared For

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Project Number

DLF2301106

Report Number

DLF2301106-8aMOD78W

Test Date

2023/1/11

Issue Date

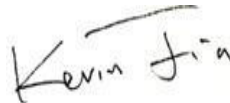
2023/1/16

Prepared By



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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		10628
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	140.2
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		75.8
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	2942
		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		83
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89		98
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%		2.65%
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		0.634
(Goniophotometer - Section 4.2)		Non-Worst Case		0.309
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		75.8
(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	ALEDM4TY	H1
2	Goniophotometer Test	2023/1/11	ALEDM4TY	H1
3	THD and PF Test	2023/1/11	ALEDM4TY	H1

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.

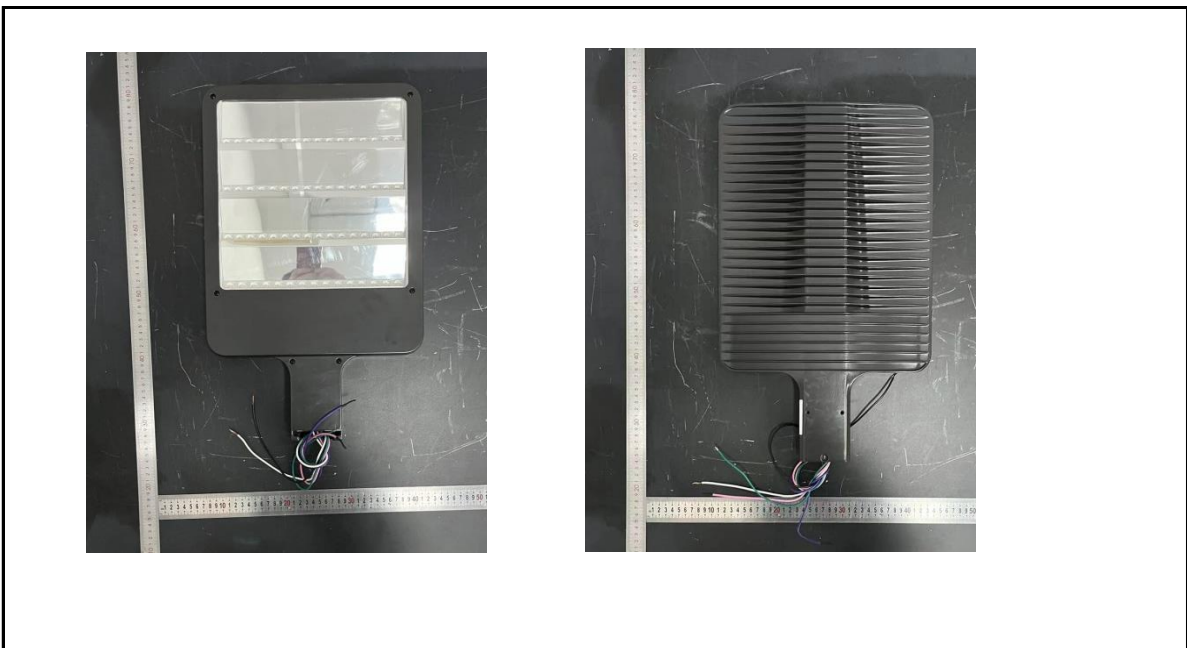
3.0 Production Description

Luminaire Description: ALEDM4TY

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.	ALEDM4TY	Sample ID.	H1
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	0.634	75.8	0.997
277.00	60	0.309	74.7	0.872

Test Result

CCT (K)	CRI	R9	Duv
2942	82	3	0.0021

Rf	Rg	IES Rcs,h1
83	98	-12%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDM4TY	Sample ID.	H1
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	0.634	75.8	0.997
NON-WROST CASE	277.00	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	
10628	96.5	148.6	48.7	134.4	140.2

Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	2.65%	B1-U0-G3

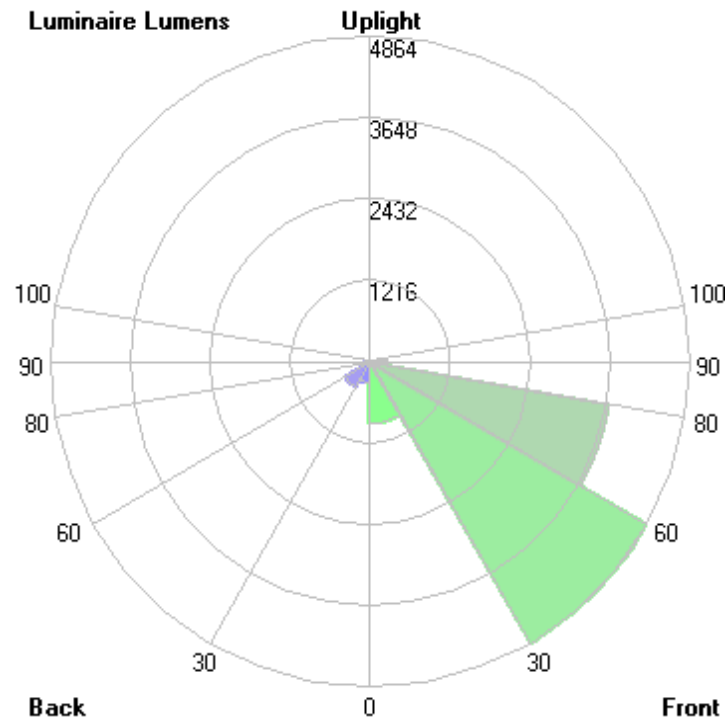
4.2 Goniophotometer Test

Zonal Lumen Summary

	Zonal (lm)		Total (lm)	Percent
0-10	147.96	0 - 10	147.96	1.39%
10-20	396.00	0 - 20	543.96	5.12%
20-30	706.51	0 - 30	1250.47	11.77%
30-40	1205.85	0 - 40	2456.32	23.11%
40-50	1790.04	0 - 50	4246.36	39.96%
50-60	2304.72	0 - 60	6551.08	61.64%
60-70	2287.43	0 - 70	8838.51	83.17%
70-80	1507.31	0 - 80	10345.82	97.35%
80-90	281.69	0 - 90	10627.51	100.00%
90-100	0.00	0 - 100	10627.51	100.00%
100-110	0.00	0 - 110	10627.51	100.00%
110-120	0.00	0 - 120	10627.51	100.00%
120-130	0.00	0 - 130	10627.51	100.00%
130-140	0.00	0 - 140	10627.51	100.00%
140-150	0.00	0 - 150	10627.51	100.00%
150-160	0.00	0 - 160	10627.51	100.00%
160-170	0.00	0 - 170	10627.51	100.00%
170-180	0.00	0 - 180	10627.51	100.00%

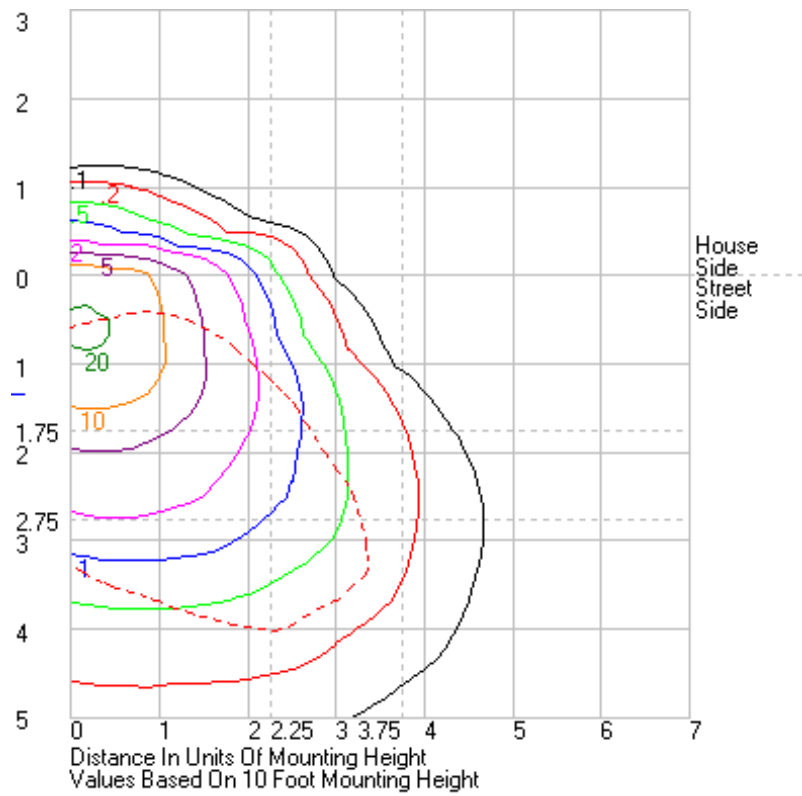
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	929.2	N.A.	8.7
FM - Front-Medium (30-60)	4863.5	N.A.	45.8
FH - Front-High (60-80)	3697.8	N.A.	34.8
FVH - Front-Very High (80-90)	276.2	N.A.	2.6
BL - Back-Low (0-30)	321.2	N.A.	3.0
BM - Back-Medium (30-60)	437.1	N.A.	4.1
BH - Back-High (60-80)	97.0	N.A.	0.9
BVH - Back-Very High (80-90)	5.5	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	10627.5	N.A.	100.0
BUG Rating	B1-U0-G3		

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	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33	1626.33
1	1657.39	1656.83	1653.85	1649.8	1642.97	1634.91	1625.35	1615.09	1605.64	1597.18	1590.03	1585.43	1585.42	1585.43	1590.03	1597.18	1605.64	1615.09	1625.35	1634.91	1642.97	1649.8	1653.85	1656.83	1657.39
2	1686.2	1684.11	1679.7	1672.46	1660.91	1646.43	1628.75	1608.89	1588.39	1568.83	1551.16	1540.09	1532.99	1540.09	1551.16	1568.83	1588.39	1608.89	1628.75	1646.43	1660.91	1672.46	1679.7	1684.11	1686.2
3	1709.13	1708.49	1703.46	1695.8	1682.15	1660.98	1633.48	1601.07	1566.08	1530.09	1499.7	1478.07	1471.85	1478.07	1499.7	1530.09	1566.08	1601.07	1633.48	1660.98	1682.15	1695.8	1703.46	1708.49	1709.13
4	1728.54	1727.92	1725.3	1717.99	1701.68	1675.36	1638.9	1594.26	1543.05	1488.96	1441.31	1409.02	1394.31	1409.02	1441.31	1488.96	1543.05	1594.26	1638.9	1675.36	1701.68	1717.99	1725.3	1727.92	1728.54
5	1743.63	1744.28	1745	1740.1	1722.34	1690.51	1643.94	1585.44	1515.42	1440.66	1373.65	1328.2	1309.25	1328.2	1373.65	1440.66	1515.42	1585.44	1643.94	1690.51	1722.34	1740.1	1745	1744.28	1743.63
6	1755.03	1758.22	1763.67	1762.54	1743.88	1704.98	1647.56	1572.82	1480.29	1382.08	1295.59	1236.8	1218.03	1236.8	1295.59	1382.08	1480.29	1572.82	1647.56	1704.98	1743.88	1762.54	1763.67	1758.22	1755.03
7	1764.87	1769.67	1780.97	1783.77	1762.94	1717.8	1649.56	1559.6	1445.79	1322.86	1216.65	1145.82	1115.54	1145.82	1216.65	1322.86	1445.79	1559.6	1649.56	1717.8	1762.94	1783.77	1780.97	1769.67	1764.87
8	1776.39	1783.21	1797.8	1804.54	1782.44	1729.84	1649.85	1542.4	1403.03	1253.9	1128.91	1048	1021.63	1048	1128.91	1253.9	1403.03	1542.4	1649.85	1729.84	1782.44	1804.54	1797.8	1783.21	1776.39
9	1792.33	1801.55	1817.39	1822.87	1797.96	1738.29	1647.45	1522.81	1357.57	1185.13	1041.73	950.816	920.12	950.816	1041.73	1185.13	1357.57	1522.81	1647.45	1738.29	1797.96	1822.87	1817.39	1801.55	1792.33
10	1812.89	1824.03	1841.1	1840.23	1811.34	1744.56	1642.82	1501.08	1310.96	1114.41	956.988	858.54	823.63	858.54	956.988	1114.41	1310.96	1501.08	1642.82	1744.56	1811.34	1840.23	1841.1	1824.03	1812.89
11	1840.48	1854.48	1869.69	1858.53	1822.45	1748.82	1636.53	1475.6	1257.07	1037.83	867.465	767.087	734.548	767.087	867.465	1037.83	1257.07	1475.6	1636.53	1748.82	1822.45	1858.53	1869.69	1854.48	1840.48
12	1879.99	1893.15	1902.55	1877.17	1829.14	1750.09	1629.6	1451.77	1206.8	968.445	786.712	680.867	645.549	680.867	786.712	968.445	1206.8	1451.77	1629.6	1750.09	1829.14	1877.17	1902.55	1893.15	1879.99
13	1923.25	1941.54	1943.54	1898.72	1835	1752.39	1622.62	1424.95	1151.58	892.706	707.939	596.81	562.932	596.81	707.939	892.706	1151.58	1424.95	1622.62	1752.39	1835	1898.72	1943.54	1941.54	1923.25
14	1969.32	1992.92	1992.56	1921.2	1839.48	1752.87	1615.01	1397.43	1095.55	820.8	630.507	516.752	484.269	516.752	630.507	820.8	1095.55	1397.43	1615.01	1752.87	1839.48	1921.2	1992.56	1992.92	1969.32
15	2024.37	2047.05	2043.1	1945.19	1844.63	1753.33	1608.26	1371.64	1042.9	756.308	559.926	448.366	414.35	448.366	559.926	756.308	1042.9	1371.64	1608.26	1753.33	1844.63	1945.19	2043.1	2047.05	2024.37
16	2086.26	2114.02	2099.36	1977.16	1852.21	1756.82	1603.82	1343.2	983.801	688.303	488.048	384.873	359.168	384.873	488.048	688.303	983.801	1343.2	1603.82	1756.82	1852.21	1977.16	2099.36	2114.02	2086.26
17	2153.92	2184.9	2156.53	2009.44	1860.1	1761.36	1600.97	1319.25	932.095	626.9	429.05	342.681	317.187	342.681	429.05	626.9	932.095	1319.25	1600.97	1761.36	1860.1	2009.44	2156.53	2184.9	2153.92
18	2227.64	2260.4	2212.92	2047.88	1872.55	1768.59	1601.21	1295.45	879.093	565.988	375.606	306.602	287.506	306.602	375.606	565.988	879.093	1295.45	1601.21	1768.59	1872.55	2047.88	2212.92	2260.4	2227.64
19	2301.8	2341.77	2292.13	2089.69	1889.97	1779.07	1606.98	1272.39	826.89	508.6	337.883	279.53	268.691	279.53	337.883	508.6	826.89	1272.39	1606.98	1779.07	1889.97	2089.69	2292.13	2341.77	2301.8
20	2386.97	2424.4	2364.17	2131.14	1909.9	1794.82	1618	1255.31	781.213	459.387	305.736	261.796	252.733	261.796	305.736	459.387	781.213	1255.31	1618	1794.82	1909.9	2131.14	2364.17	2424.4	2386.97
21	2475.2	2516.03	2443.43	2180.94	1936.59	1817.32	1634.4	1236.77	734.41	410.29	282.21	248.067	242.126	248.067	282.21	410.29	734.41	1236.77	1634.4	1817.32	1936.59	2180.94	2443.43	2516.03	2475.2
22	2563.85	2609.03	2526.56	2234.55	1966.42	1845.76	1657.02	1224.18	695.098	372.335	265.359	237.526	231.828	237.526	265.359	372.335	695.098	1224.18	1657.02	1845.76	1966.42	2234.55	2526.56	2609.03	2563.85
23	2661.37	2707.39	2614.33	2296.41	2003.84	1882.35	1688.23	1213.26	655.185	339.422	251.553	228.193	223.014	228.193	251.553	339.422	655.185	1213.26	1688.23	1882.35	2003.84	2296.41	2614.33	2707.39	2661.37
24	2759.35	2811.53	2709.8	2368.16	2049.68	1923.88	1723.1	1201.86	615.802	311.699	240.659	219.395	214.679	219.395	240.659	311.699	615.802	1201.86	1723.1	1923.88	2049.68	2368.16	2709.8	2811.53	2759.35
25	2859.18	2914.18	2805.49	2439.06	2100.87	1972.64	1764.28	1195.69	579.794	291.218	231.861	201.237	205.17	211.397	231.861	291.218	579.794	1195.69	1764.28	1972.64	2100.87	2439.06	2805.49	2914.18	2859.18
26	2960.04	3022.44	2910.53	2520.87	2164.79	2028.79	1809.64	1187.4	542.032	272.971	223.455	203.112	196.813	203.112	223.455	272.971	542.032	1187.4	1809.64	2028.79	2164.79	2520.87	2910.53	3022.44	2960.04
27	3052.84	3126.62	3016.49	2607.27	2231.38	2089.78	1857.69	1180.92	505.765	259.369	215.832	195.787	189.99	195.787	215.832	259.369	505.765	1180.92	1857.69	2089.78	2231.38	2607.27	3016.49	3126.62	3052.84
28	3149.93	3231.26	3121.6	2698.6	2307.12	2154.24	1909.46	1175.34	471.241	248.205	208.446	189.4	183.211	189.4	208.446	248.205	471.241	1175.34	1909.46	2154.24	2307.12	2698.6	3121.6	3231.26	3149.93
29	3237.97	3333.83	3230.94	2802.56	2388.35	2222.16	1963.47	1165.91	436.126	238.624	201.209	182.841	177.022	182.841	201.209	238.624	436.126	1165.91	1963.47	2222.16	2388.35	2802.56	3230.94	3333.83	3237.97
30	3327.47	3433.27	3333.83	2905.21	2469.91	2292.08	2019.09	1158.51	406.258	231.078	194.998	176.73	170.717	176.73	194.998	231.078	406.258	1158.51	2019.09	2292.08	2469.91	2905.21	3333.83	3433.27	3327.47
31	3421.46	3531.94	3440.28	3012.51	2558.65	2362.66	2076.42	1147.41	377.189	223.775	188.892	170.447	164.275	170.447	188.892	223.775	377.189	1147.41	2076.42	2362.66	2558.65	3012.51	3440.28	3531.94	3421.46
32	3512.53	3633.09	3542.49	3122.93	2647.53	2435.64	2132.25	1134.67	348.903	216.836	182.963	164.159	158.224	164.159	182.963	216.836	348.903	1134.67	2132.25	2435.64	2647.53	3122.93	3542.49	3633.09	3512.53
33	3614.8	3738.89	3641.15	3229.94	2737.7	2507.81	2186.77	1122.05	326.575	210.355	177.149	158.262	151.908	158.262	177.149	210.355	326.575	1122.05	2186.77	2507.81	2737.7	3229.94	3641.15	3738.89	3614.8
34	3712.33	3849.12	3743.99	3341.65	2832.33	2577.14	2236.98	1101.47	305.559	203.642	171.059	152.079	145.664	152.079	171.059	203.642	305.559	1101.47	2236.98	2577.14	2832.33	3341.65	3743.99	3849.12	3712.33
35	3805.96	3961.14	3845.97	3449.95	2923.41	2644.51	2283.2	1081.48	286.767	197.867	165.356	145.94	139.591	145.94	165.356	197.867	286.767	1081.48	2283.2	2644.51	2923.41	3449.95	3845.97	3961.14	3805.96
36	3909.82	4074.13	3956.84	3555.9	3018.36	2707.93	2322.63	1056.08	270.511	192.036	159.415	139.773	132.884	139.773	159.415	192.036	270.511	1056.08	2322.63	2707.93	3018.36	3555.9	3956.84	4074.13	3909.82
37	4006.85	4192.65	4072.88	3664.93	3110.25	2762.63	2354.39	1023.85	255.889	186.156	153.502	133.281	126.789	133.281	153.502	186.156	255.889	1023.85	2354.39	2762.63	3110.25	3664.93	4072.88	4192.65	4006.85
38	4106.71	4308.86	4188.23	3764.65	3196.83	2810.43	2378.87	991.352	243.616	180.679	147.644	126.916	119.75	126.916	147.644	180.679	243.616	991							

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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.	ALEDM4TY	Sample ID.	H1
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	0.634	75.8	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*****