

Photometric Test Report

Relevant Standards

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

Prepared For

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Issue Date

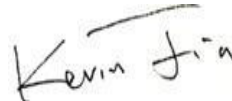
2023/1/16

Prepared By



Wangzun Zhu

Approved By



Kevin Jia

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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		10648
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	140.3
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		75.9
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%		21.85%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9		0.862
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3045±175	2937
		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		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		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%		2.89%
Input Voltage (V)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		480
Input Current (A)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		0.183
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		75.9

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2023/1/13	ALEDM4TY/480	AA1
2	Goniophotometer Test	2023/1/13	ALEDM4TY/480	AA1
3	THD and PF Test	2023/1/13	ALEDM4TY/480	AA1

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.

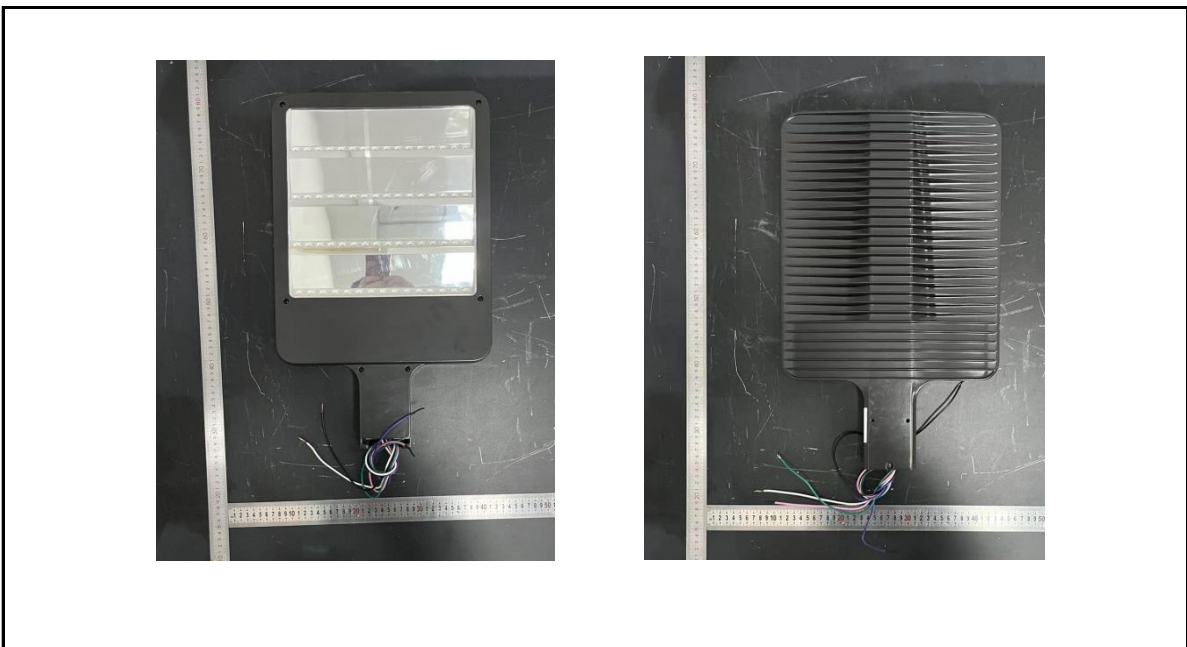
3.0 Production Description

Luminaire Description: ALEDM4TY/480

Description: 78W @ 3000K

Electrical Specification: 480V,50/60HZ

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	ALEDM4TY/480	Sample ID.	AA1
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
480.00	60	0.183	75.9	0.862

Test Result

CCT (K)	CRI	R9	Duv
2937	82	4	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/480	Sample ID.	AA1
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	480.00	60	0.183	75.9	0.862

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
10648	97.0	148.1	47.0	134.3	140.3

Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	2.89%	B1-U0-G3

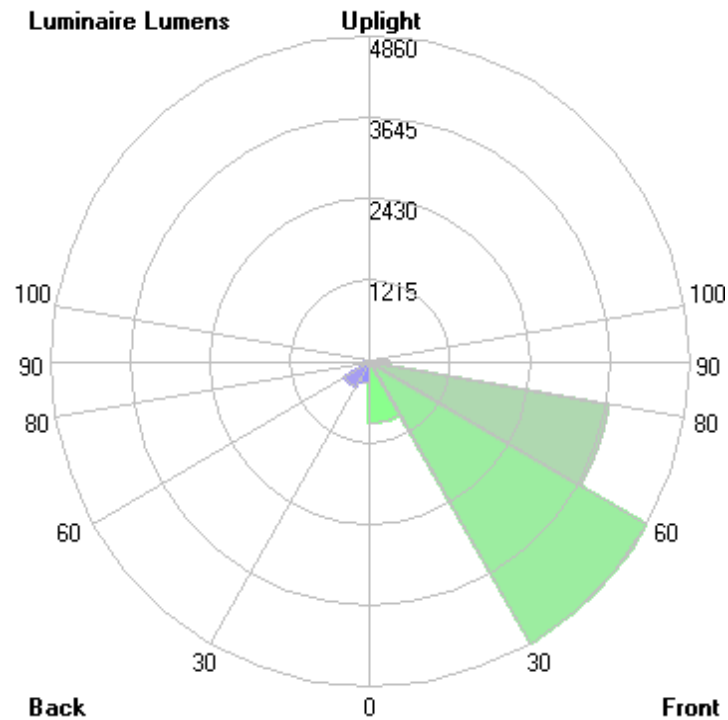
4.2 Goniophotometer Test

Zonal Lumen Summary

	Zonal (lm)		Total (lm)	Percent
0-10	150.26	0 - 10	150.26	1.41%
10-20	396.78	0 - 20	547.04	5.14%
20-30	702.67	0 - 30	1249.71	11.74%
30-40	1200.95	0 - 40	2450.66	23.02%
40-50	1790.02	0 - 50	4240.68	39.83%
50-60	2309.53	0 - 60	6550.21	61.52%
60-70	2291.07	0 - 70	8841.28	83.03%
70-80	1498.42	0 - 80	10339.70	97.11%
80-90	307.97	0 - 90	10647.67	100.00%
90-100	0.00	0 - 100	10647.67	100.00%
100-110	0.00	0 - 110	10647.67	100.00%
110-120	0.00	0 - 120	10647.67	100.00%
120-130	0.00	0 - 130	10647.67	100.00%
130-140	0.00	0 - 140	10647.67	100.00%
140-150	0.00	0 - 150	10647.67	100.00%
150-160	0.00	0 - 160	10647.67	100.00%
160-170	0.00	0 - 170	10647.67	100.00%
170-180	0.00	0 - 180	10647.67	100.00%

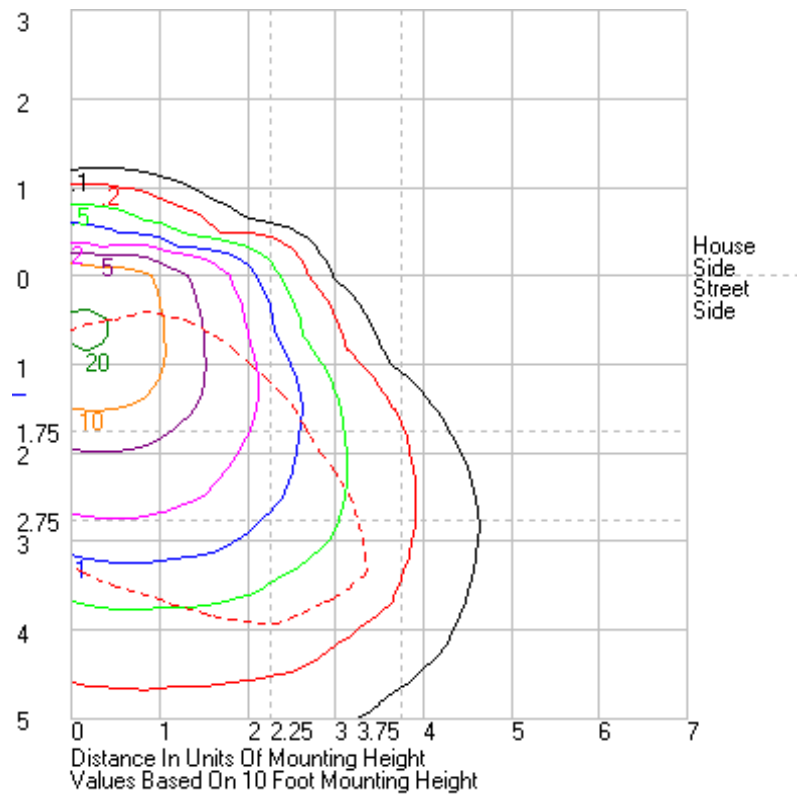
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	918.4	N.A.	8.6
FM - Front-Medium (30-60)	4859.8	N.A.	45.6
FH - Front-High (60-80)	3695.0	N.A.	34.7
FVH - Front-Very High (80-90)	301.7	N.A.	2.8
BL - Back-Low (0-30)	331.3	N.A.	3.1
BM - Back-Medium (30-60)	440.7	N.A.	4.1
BH - Back-High (60-80)	94.5	N.A.	0.9
BVH - Back-Very High (80-90)	6.3	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	10647.7	N.A.	100.0
BUG Rating	B1-U0-G3		

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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	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59	1665.59
1	1692.14	1689.64	1688.16	1685.38	1680.81	1674.73	1667.04	1658.01	1648.85	1640.33	1633.79	1628.7	1628.46	1628.7	1633.79	1640.33	1648.85	1658.01	1667.04	1674.73	1680.81	1685.38	1688.16	1689.64	1692.14
2	1709.09	1705.85	1704.1	1700.03	1693.19	1683.13	1669.27	1650.69	1631.37	1613.35	1598.49	1588.48	1584.99	1588.48	1598.49	1613.35	1631.37	1650.69	1669.27	1683.13	1693.19	1700.03	1704.1	1705.85	1709.09
3	1721.16	1718.45	1717.59	1714.13	1706.61	1693.33	1672.19	1642.32	1610.82	1580.71	1553.58	1532.95	1525.03	1532.95	1553.58	1580.71	1610.82	1642.32	1672.19	1693.33	1706.61	1714.13	1717.59	1718.45	1721.16
4	1729.55	1727.26	1728.68	1727.58	1719.94	1703.7	1675.07	1633.84	1589.92	1541.93	1496.98	1466.32	1454.17	1466.32	1496.98	1541.93	1589.92	1633.84	1675.07	1703.7	1719.94	1727.58	1728.68	1727.26	1729.55
5	1734.53	1733.71	1738.96	1740.45	1733.16	1713.92	1678.02	1623.71	1562.99	1493.64	1433.31	1390.7	1372.41	1390.7	1433.31	1493.64	1562.99	1623.71	1678.02	1713.92	1733.16	1740.45	1738.96	1733.71	1734.53
6	1738.36	1739.01	1748.5	1754.3	1747.14	1724.04	1680.01	1611.95	1529.83	1439.77	1358.42	1300.03	1275.12	1300.03	1358.42	1439.77	1529.83	1611.95	1680.01	1724.04	1747.14	1754.3	1748.5	1739.01	1738.36
7	1744.31	1746.73	1758.87	1767.22	1760.44	1733.52	1681.28	1600	1495.31	1382.44	1277.77	1205.71	1176.19	1205.71	1277.77	1382.44	1495.31	1600	1681.28	1733.52	1760.44	1767.22	1758.87	1746.73	1744.31
8	1752.54	1757.1	1772.13	1781.02	1773.31	1742.09	1681.03	1583.77	1455.15	1314.06	1187.96	1103.77	1068.94	1103.77	1187.96	1314.06	1455.15	1583.77	1681.03	1742.09	1773.31	1781.02	1772.13	1757.1	1752.54
9	1765.78	1771.95	1788.43	1795.75	1784.41	1747.39	1678	1565.84	1413.5	1245.51	1098.01	1003.71	967.206	1003.71	1098.01	1245.51	1413.5	1565.84	1678	1747.39	1784.41	1795.75	1788.43	1771.95	1765.78
10	1783.41	1792.64	1808.7	1810.5	1793.05	1751.05	1674.41	1545.83	1367.29	1171.82	1009.26	906.317	866.52	906.317	1009.26	1171.82	1367.29	1545.83	1674.41	1751.05	1793.05	1810.5	1808.7	1792.64	1783.41
11	1808.8	1820.64	1834.88	1827.39	1799.92	1752.95	1668.82	1523.01	1316.38	1094.45	917.246	804.325	771.37	804.325	917.246	1094.45	1316.38	1523.01	1668.82	1752.95	1799.92	1827.39	1834.88	1820.64	1808.8
12	1838.26	1852.88	1865.19	1844.46	1805.17	1753.03	1662.13	1499.93	1267.2	1022.35	830.387	710.246	676.214	710.246	830.387	1022.35	1267.2	1499.93	1662.13	1753.03	1805.17	1844.46	1865.19	1852.88	1838.26
13	1876.52	1892.97	1901.16	1864.32	1810.07	1752.74	1656.42	1475.12	1210.03	944.063	742.195	623.509	584.679	623.509	742.195	944.063	1210.03	1475.12	1656.42	1752.74	1810.07	1864.32	1901.16	1892.97	1876.52
14	1930.11	1945.31	1941.1	1885.9	1813.85	1752.04	1650.04	1449.84	1153.87	869.31	657.699	537.389	496.437	537.389	657.699	869.31	1153.87	1449.84	1650.04	1752.04	1813.85	1885.9	1941.1	1945.31	1930.11
15	1983.91	2004.84	1988.3	1907.83	1818.64	1751.29	1645.33	1425.27	1098.92	795.053	582.863	460.07	422.985	460.07	582.863	795.053	1098.92	1425.27	1645.33	1751.29	1818.64	1907.83	1988.3	2004.84	1983.91
16	2048.02	2070.34	2049.29	1934.02	1825.48	1752.89	1641.54	1399.6	1039.29	720.901	504.724	390.731	358.312	390.731	504.724	720.901	1039.29	1399.6	1641.54	1752.89	1825.48	1934.02	2049.29	2070.34	2048.02
17	2113.1	2139.93	2112.51	1962.65	1833.73	1755.79	1639.84	1376.66	985.72	653.242	438.125	337.719	308.68	337.719	438.125	653.242	985.72	1376.66	1639.84	1755.79	1833.73	1962.65	2112.51	2139.93	2113.1
18	2182.64	2216.11	2178.42	1998.26	1844.93	1761.72	1642.5	1354.85	929.23	588.153	379.627	294.618	272.362	294.618	379.627	588.153	929.23	1354.85	1642.5	1761.72	1844.93	1998.26	2178.42	2216.11	2182.64
19	2255.45	2292.84	2249.97	2040.19	1860.58	1771.17	1648.89	1334.99	876.535	527.204	336.433	263.413	251.358	263.413	336.433	527.204	876.535	1334.99	1648.89	1771.17	1860.58	2040.19	2249.97	2292.84	2255.45
20	2332.42	2373.28	2322.5	2085.95	1879.5	1785.55	1660.38	1318.36	827.177	471.348	297.15	245.735	240.813	245.735	297.15	471.348	827.177	1318.36	1660.38	1785.55	1879.5	2085.95	2322.5	2373.28	2332.42
21	2420.08	2461.52	2400.18	2138.34	1905.23	1805.92	1677.91	1302.46	775.472	417.488	266.269	235.398	230.76	235.398	266.269	417.488	775.472	1302.46	1677.91	1805.92	1905.23	2138.34	2400.18	2461.52	2420.08
22	2511.41	2555.36	2481.67	2194.6	1935.12	1833.98	1701.6	1290.12	729.319	376.006	248.957	226.335	221.127	226.335	248.957	376.006	729.319	1290.12	1701.6	1833.98	1935.12	2194.6	2481.67	2555.36	2511.41
23	2611.17	2656.55	2568.95	2257.62	1972.1	1869.94	1733.21	1281.12	684.949	339.004	238.007	217.468	212.48	217.468	238.007	339.004	684.949	1281.12	1733.21	1869.94	1972.1	2257.62	2568.95	2656.55	2611.17
24	2712.74	2763.13	2663.53	2328.79	2016.76	1911.79	1770.79	1271.99	643.938	302.735	229.419	208.41	203.335	208.41	229.419	302.735	643.938	1271.99	1770.79	1911.79	2016.76	2328.79	2663.53	2763.13	2712.74
25	2813.47	2868.68	2761.68	2401.26	2065.52	1959.77	1812.74	1266.34	604.315	276.913	221.368	199.883	194.381	199.883	221.368	276.913	604.315	1266.34	1812.4	1959.77	2065.52	2401.26	2761.68	2868.68	2813.47
26	2912.97	2979.08	2868.14	2482.33	2125.53	2013.36	1858.15	1257.37	563.495	256.757	213	191.805	186.001	191.805	213	256.757	563.495	1257.37	1858.15	2013.36	2125.53	2482.33	2868.14	2979.08	2912.97
27	3006.91	3084.73	2975.53	2568.72	2191.46	2071.56	1907.57	1250.8	525.437	243.81	205.003	184.825	179.044	184.825	205.003	243.81	525.437	1250.8	1907.57	2071.56	2191.46	2568.72	2975.53	3084.73	3006.91
28	3099.01	3188.27	3084.36	2660.72	2263.09	2135.09	1961.39	1244.62	487.035	234.512	197.482	178.497	172.595	178.497	197.482	234.512	487.035	1244.62	1961.39	2135.09	2263.09	2660.72	3084.36	3188.27	3099.01
29	3194.64	3289.78	3194.93	2762.43	2342.15	2202.61	2016.37	1236.13	448.725	226.996	190.574	172.24	166.3	172.24	190.574	226.996	448.725	1236.13	2016.37	2202.61	2342.15	2762.43	3194.93	3289.78	3194.64
30	3287.25	3391.03	3300.37	2864.57	2422.76	2271.19	2073.3	1229.41	412.04	220.099	184.552	166.305	160.163	166.305	184.552	220.099	412.04	1229.41	2073.3	2271.19	2422.76	2864.57	3300.37	3391.03	3287.25
31	3378.58	3494.76	3403.21	2973.37	2508.16	2341.87	2130.27	1217.62	379.294	212.775	178.694	160.217	153.818	160.217	178.694	212.775	379.294	1217.62	2130.27	2341.87	2508.16	2973.37	3403.21	3494.76	3378.58
32	3474.64	3598.98	3505.78	3082.32	2597.62	2413.52	2188.91	1204.88	348.45	205.763	172.94	153.998	147.478	153.998	172.94	205.763	348.45	1204.88	2188.91	2413.52	2597.62	3082.32	3505.78	3598.98	3474.64
33	3572.51	3707.09	3606.38	3191.37	2688.75	2487.22	2245.75	1188.45	320.435	199.134	167.246	147.79	141.052	147.79	167.246	199.134	320.435	1188.45	2245.75	2487.22	2688.75	3191.37	3606.38	3707.09	3572.51
34	3671.24	3820.75	3710.91	3301.74	2783.8	2558.11	2298.64	1165.86	293.94	192.663	161.311	141.44	134.515	141.44	161.311	192.663	293.94	1165.86	2298.64	2558.11	2783.8	3301.74	3710.91	3820.75	3671.24
35	3778.93	3936.11	3816.69	3409.59	2876.98	2625.4	2347.32	1142.73	272.898	187.024	155.502	135.183	128.209	135.183	155.502	187.024	272.898	1142.73	2347.32	2625.4	2876.98	3409.59	3816.69	3936.11	3778.93
36	3883.36	4056.77	3927.12	3515.11	2975.82	2688.5	2388.43	1113.33	255.849	181.451	149.497	128.893	121.76	128.893	149.497	181.451	255.849	1113.33	2388.43	2688.5	2975.82	3515.11	3927.12	4056.77	3883.36
37	3984.3	4179.54	4045.58	3620.34	3071.73	2743.06	2421.91	1080.36	240.435	175.926	143.398	122.57	115.328	122.57	143.398	175.926	240.435	1080.36	2421.91	2743.06	3071.73	3620.34	4045.58	4179.54	3984.3
38	4079.95	4299.91	4165.76	3722.03	3162.89	2790.2	2447.32	1045.56	228.429	170.642	137.485	116.378	108.95	116.378	137.485										

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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.	ALEDM4TY/480	Sample ID.	AA1
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
480.00	60	0.183	75.9	0.862	21.85%

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*****