

# Photometric Test Report

## Relevant Standards

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

## Prepared For

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## Project Number

**DLF2301106**

## Report Number

**DLF2301106-27aMOD90W**

## Test Date

**2023/1/13**

## 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		12904
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	139.4
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		92.6
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%		16.72%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9		0.901
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		0.214
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		92.6

## 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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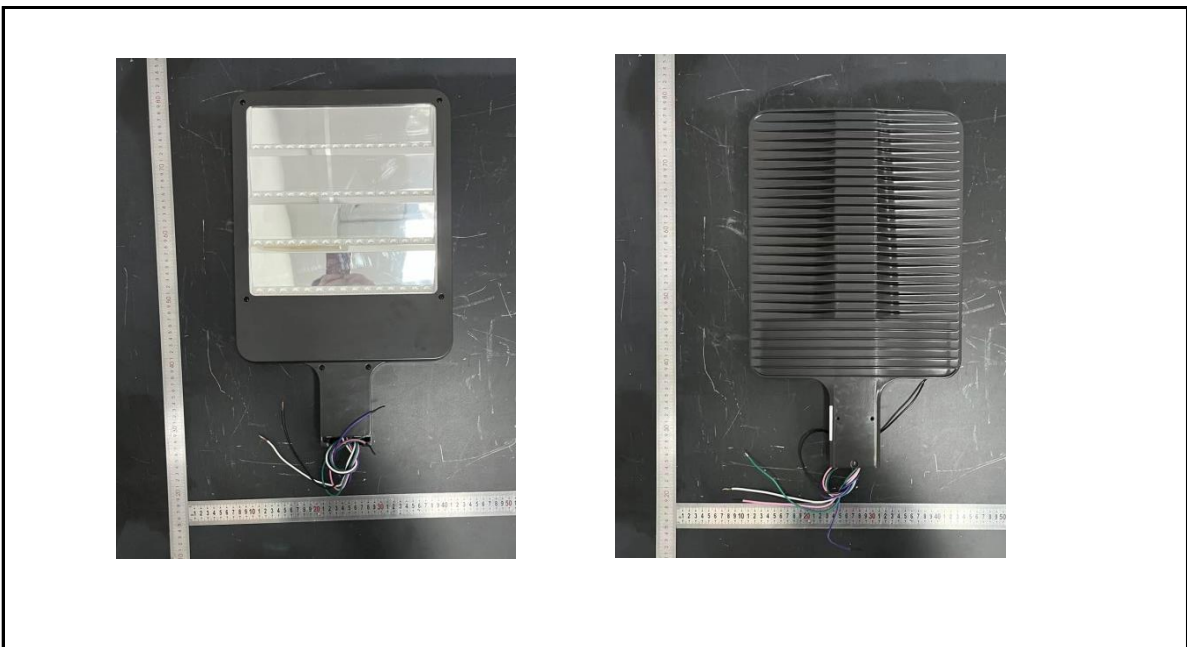
## 3.0 Production Description

**Luminaire Description:** ALEDM4TY/480

**Description:** 90W @ 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  $\pm 0.2$  percent under load.

The sample was measured using  $4\pi$  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	0.214	92.6	0.901

#### 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  $\pm 0.2$  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  $0.5^{\circ}$  vertical intervals and  $10^{\circ}$  horizontal intervals.

#### Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	480.00	60	0.214	92.6	0.901

#### Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
12904	97.0	148.1	47.0	134.3	139.4

Zonal Lumen Requirement ( $0^{\circ}$ - $90^{\circ}$ )	Zonal Lumen Requirement ( $80^{\circ}$ - $90^{\circ}$ )	BUG rating
100.00%	2.89%	B1-U0-G3

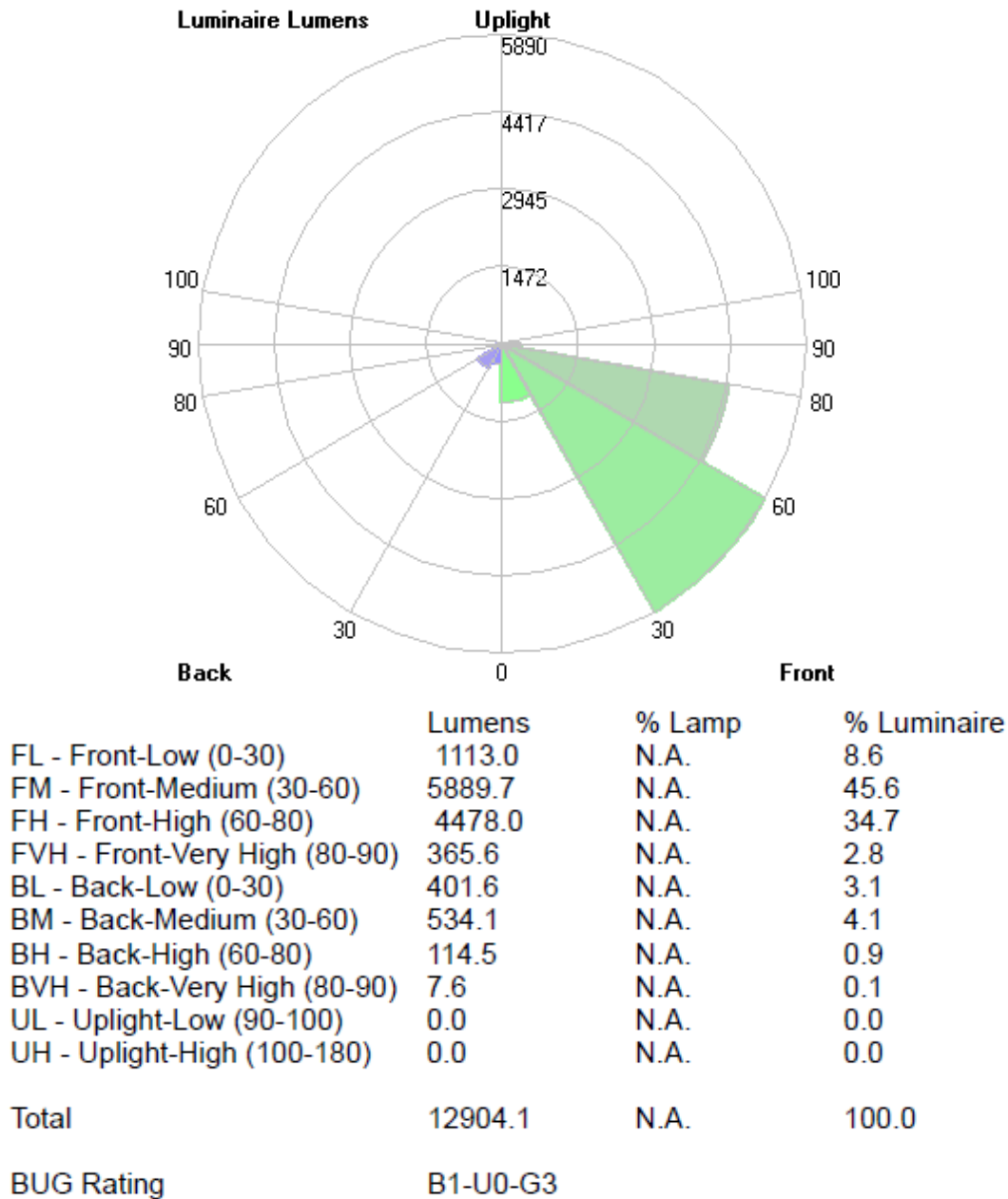
## 4.2 Goniophotometer Test

### Zonal Lumen Summary

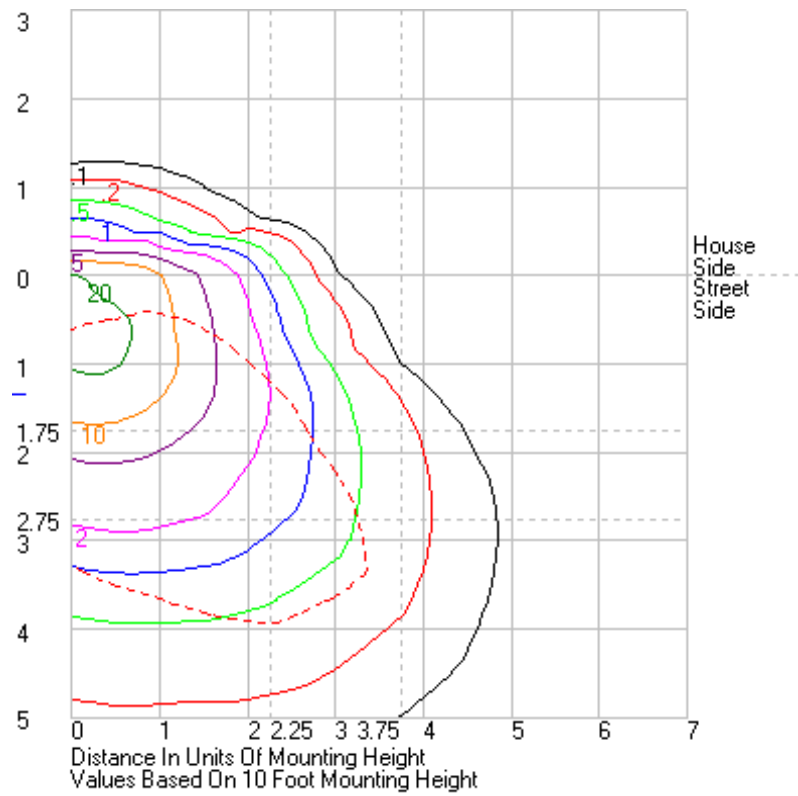
	Zonal (lm)		Total (lm)	Percent
0-10	182.11	0 - 10	182.11	1.41%
10-20	480.86	0 - 20	662.97	5.14%
20-30	851.58	0 - 30	1514.55	11.74%
30-40	1455.45	0 - 40	2970.00	23.02%
40-50	2169.35	0 - 50	5139.35	39.83%
50-60	2798.95	0 - 60	7938.30	61.52%
60-70	2776.58	0 - 70	10714.88	83.03%
70-80	1815.95	0 - 80	12530.83	97.11%
80-90	373.23	0 - 90	12904.06	100.00%
90-100	0.00	0 - 100	12904.06	100.00%
100-110	0.00	0 - 110	12904.06	100.00%
110-120	0.00	0 - 120	12904.06	100.00%
120-130	0.00	0 - 130	12904.06	100.00%
130-140	0.00	0 - 140	12904.06	100.00%
140-150	0.00	0 - 150	12904.06	100.00%
150-160	0.00	0 - 160	12904.06	100.00%
160-170	0.00	0 - 170	12904.06	100.00%
170-180	0.00	0 - 180	12904.06	100.00%

## 4.2 Goniophotometer Test

LCS/BUG



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	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	2018.56	
1	2050.73	2047.7	2045.9	2042.54	2037	2029.63	2020.31	2009.37	1998.26	1987.94	1980.01	1973.84	1973.55	1973.84	1980.01	1987.94	1998.26	2009.37	2020.31	2029.63	2037	2045.9	2047.7	2050.73	
2	2071.27	2067.34	2065.21	2060.29	2052	2039.81	2023.01	2000.49	1977.08	1955.24	1937.23	1925.1	1920.87	1925.1	1937.23	1955.24	1977.08	2000.49	2023.01	2039.81	2052	2060.29	2065.21	2067.34	
3	2085.89	2082.61	2081.57	2077.37	2068.26	2052.17	2026.55	1990.34	1952.17	1915.68	1882.8	1857.8	1848.2	1857.8	1882.8	1915.68	1952.17	1990.34	2026.55	2052.17	2068.26	2077.37	2081.57	2085.89	
4	2096.06	2093.29	2095.01	2093.67	2084.41	2064.74	2030.04	1980.07	1926.85	1868.68	1814.21	1777.05	1762.33	1777.05	1814.21	1868.68	1926.85	1980.07	2030.04	2064.74	2084.41	2093.67	2095.01	2093.29	
5	2102.1	2101.11	2107.47	2109.27	2100.43	2077.12	2033.62	1967.8	1894.21	1810.16	1737.05	1685.41	1663.24	1685.41	1737.05	1810.16	1894.21	1967.8	2033.62	2077.12	2100.43	2109.27	2107.47	2102.1	
6	2106.74	2107.53	2119.03	2126.05	2117.38	2089.38	2036.02	1953.55	1854.02	1744.87	1646.28	1575.52	1545.34	1575.52	1646.28	1744.87	1854.02	1953.55	2036.02	2089.38	2117.38	2126.05	2119.03	2107.53	
7	2113.96	2116.88	2131.6	2141.72	2133.5	2100.87	2037.56	1939.06	1812.18	1675.4	1548.54	1461.21	1425.44	1461.21	1548.54	1675.4	1812.18	1939.06	2037.56	2100.87	2133.5	2141.72	2131.6	2116.88	
8	2123.93	2129.45	2147.67	2158.44	2149.1	2111.26	2037.26	1919.4	1763.52	1592.53	1439.7	1337.67	1295.46	1337.67	1439.7	1592.53	1763.52	1919.4	2037.26	2111.26	2149.1	2158.44	2147.67	2129.45	
9	2139.97	2147.45	2167.42	2176.29	2162.55	2117.68	2033.6	1897.67	1713.04	1509.45	1330.7	1216.41	1172.17	1216.41	1330.7	1509.45	1713.04	1897.67	2033.6	2117.68	2162.55	2176.29	2167.42	2147.45	
10	2161.34	2172.52	2191.98	2194.16	2173.02	2122.12	2029.24	1873.41	1657.04	1420.14	1223.14	1098.38	1050.15	1098.38	1223.14	1420.14	1657.04	1873.41	2029.24	2122.12	2173.02	2194.16	2191.98	2172.52	
11	2192.1	2206.46	2223.72	2214.63	2181.35	2124.42	2022.47	1845.75	1595.34	1326.37	1111.62	974.771	934.833	974.771	1111.62	1326.37	1595.34	1845.75	2022.47	2124.42	2181.35	2214.63	2223.72	2206.46	
12	2227.81	2245.53	2260.45	2235.33	2187.71	2124.52	2014.36	1817.78	1535.73	1239	1006.36	860.757	819.513	860.757	1006.36	1239	1535.73	1817.78	2014.36	2124.52	2187.71	2235.33	2260.45	2245.53	
13	2274.17	2294.11	2304.04	2259.4	2193.65	2124.17	2007.43	1787.72	1466.45	1144.12	899.475	755.638	708.581	755.638	899.475	1144.12	1466.45	1787.72	2007.43	2124.17	2193.65	2259.4	2304.04	2294.11	
14	2339.13	2357.55	2352.44	2285.54	2198.23	2123.32	1999.71	1757.08	1398.39	1053.53	797.074	651.268	601.639	651.268	797.074	1053.53	1398.39	1757.08	1999.71	2123.32	2198.23	2285.54	2352.44	2357.55	
15	2404.33	2429.69	2409.65	2312.13	2204.03	2122.41	1994	1727.3	1331.8	963.536	706.38	557.564	512.621	557.564	706.38	963.536	1331.8	1727.3	1994	2122.41	2204.03	2312.13	2409.65	2429.69	
16	2482.02	2509.07	2483.56	2343.86	2212.33	2124.35	1989.41	1696.19	1259.53	873.67	611.681	473.532	434.243	473.532	611.681	873.67	1259.53	1696.19	1989.41	2124.35	2212.33	2343.86	2483.56	2509.07	
17	2560.89	2593.41	2560.18	2378.56	2222.32	2127.87	1987.34	1668.39	1194.61	791.672	530.97	409.286	374.094	409.286	530.97	791.672	1194.61	1668.39	1987.34	2127.87	2222.32	2378.56	2560.18	2593.41	
18	2645.16	2685.73	2640.06	2421.72	2235.9	2135.06	1990.56	1641.96	1126.15	712.79	460.075	357.051	330.079	357.051	460.075	712.79	1126.15	1641.96	1990.56	2135.06	2235.9	2421.72	2640.06	2685.73	
19	2733.41	2778.73	2726.77	2472.54	2254.86	2146.5	1998.31	1617.89	1062.28	638.926	407.728	319.234	304.624	319.234	407.728	638.926	1062.28	1617.89	1998.31	2146.5	2254.86	2472.54	2726.77	2778.73	
20	2826.69	2876.21	2814.67	2527.99	2277.79	2163.94	2012.24	1597.74	1002.47	571.233	360.12	297.81	291.844	297.81	360.12	571.233	1002.47	1597.74	2012.24	2163.94	2277.79	2527.99	2814.67	2876.21	
21	2932.93	2983.15	2908.8	2591.48	2308.97	2188.62	2033.48	1578.47	939.805	505.959	322.694	285.282	279.66	285.282	322.694	505.959	939.805	1578.47	2033.48	2188.62	2308.97	2591.48	2908.8	2932.93	
22	3043.61	3096.87	3007.57	2659.67	2345.2	2222.63	2062.19	1563.51	883.871	455.687	301.714	274.298	267.987	274.298	301.714	455.687	883.871	1563.51	2062.19	2222.63	2345.2	2659.67	3007.57	3096.87	
23	3164.51	3219.51	3113.34	2736.04	2390.02	2266.2	2100.5	1552.6	830.099	410.843	288.444	263.553	257.507	263.553	288.444	410.843	830.099	1552.6	2100.5	2266.2	2390.02	2736.04	3113.34	3219.51	
24	3287.6	3348.67	3227.97	2822.28	2444.14	2316.92	2146.05	1541.54	780.396	366.888	278.036	252.575	246.424	252.575	278.036	366.888	780.396	1541.54	2146.05	2316.92	2444.14	2822.28	3227.97	3348.67	
25	3409.68	3476.59	3346.92	2910.12	2503.23	2374.99	2164.67	1534.69	732.378	335.594	268.279	242.241	235.573	242.241	268.279	335.594	732.378	1534.69	2164.67	2374.99	2503.23	2910.12	3346.92	3476.59	
26	3530.27	3610.38	3475.94	3008.37	2575.96	2440.01	2251.92	1523.82	682.907	311.167	258.137	232.45	225.417	232.45	258.137	311.167	682.907	1523.82	2251.92	2440.01	2575.96	3008.37	3475.94	3610.38	
27	3644.12	3738.42	3606.08	3113.07	2655.86	2510.55	2311.81	1515.86	636.785	295.477	248.446	223.992	216.986	223.992	248.446	295.477	636.785	1515.86	2311.81	2510.55	2655.86	3113.07	3606.08	3738.42	
28	3755.73	3863.9	3737.97	3224.56	2742.67	2587.55	2377.03	1508.37	590.244	284.208	239.331	216.323	209.17	216.323	239.331	284.208	590.244	1508.37	2377.03	2587.55	2742.67	3224.56	3737.97	3863.9	
29	3871.62	3986.92	3871.98	3347.82	2838.49	2669.37	2443.66	1498.09	543.816	275.1	230.959	208.739	201.541	208.739	230.959	275.1	543.816	1498.09	2443.66	2669.37	2838.49	3347.82	3871.98	3986.92	
30	3983.86	4109.63	3999.76	3471.6	2936.18	2752.48	2512.66	1489.94	499.357	266.741	223.661	201.547	194.103	201.547	223.661	266.741	499.357	1489.94	2512.66	2752.48	2936.18	3471.6	3999.76	4109.63	
31	4094.55	4235.34	4124.4	3603.47	3039.67	2838.14	2581.7	1475.65	459.671	257.865	216.561	194.169	186.414	194.169	216.561	257.865	459.671	1475.65	2581.7	2838.14	3039.67	3603.47	4124.4	4235.34	
32	4210.96	4361.65	4248.7	3735.5	3148.09	2924.97	2652.77	1460.22	422.291	249.367	209.588	186.633	178.731	186.633	209.588	249.367	422.291	1460.22	2652.77	2924.97	3148.09	3735.5	4248.7	4361.65	
33	4329.57	4492.67	4370.62	3867.66	3258.53	3014.29	2721.65	1440.3	388.339	241.333	202.687	179.109	170.942	179.109	202.687	241.333	388.339	1440.3	2721.65	3014.29	3258.53	3867.66	4370.62	4492.67	
34	4449.23	4630.42	4497.3	4001.43	3373.72	3100.2	2785.75	1412.92	356.229	233.491	195.495	171.413	163.021	171.413	195.495	233.491	356.229	1412.92	2785.75	3100.2	3373.72	4001.43	4497.3	4630.42	
35	4579.73	4770.22	4625.5	4132.13	3486.65	3181.76	2844.75	1384.89	330.728	226.657	188.455	163.83	155.378	163.83	188.455	226.657	330.728	1384.89	2844.75	3181.76	3486.65	4132.13	4625.5	4770.22	
36	4706.29	4916.45	4759.33	4260	3606.44	3258.23	2894.57	1349.26	310.067	219.902	181.177	156.207	147.563	156.207	181.177	219.902	310.067	1349.26	2894.57	3258.23	3606.44	4260	4759.33	4916.45	
37	4828.63	5065.24	4902.89	4387.53	3722.68	3324.35	2935.15	1309.3	291.387	213.207	173.786	148.544	139.767	148.544	173.786	213.207	291.387	1309.3	2935.15	3324.35	3722.68	4387.53	4902.89	5065.24	
38	4944.54	5211.12	5048.54	4510.78	3833.15	3381.48	2965.94	1267.13	276.837	206.804	163.62	141.04	132.038	141.04	163.62	206.804	276.837	1267.13	2965.94	3381.48	3833.15	4510.78	5048.54	5211.12	
39	5066.19	5358.42	5201.54	4635.89	3942.26	3428.72	2989.25	1215.52	265.588	199.738	159.037	133.238	123.944	133.238	159.037	199.738	265.588	1215.52	2989.25	3428.72	3942.26	4635.89	5201.54	5358.42	
40	5201.8	5511.62	5356.09	4763.68	4040.81</																				

Page 10 of 14

Page 11 of 14



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	0.214	92.6	0.901	16.72%

## 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\*\*\*\*\*