

Photometric Test Report

Relevant Standards

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

Prepared For

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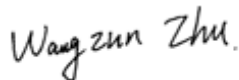
Test Date

2023/1/13

Issue Date

2023/1/16

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		12174
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	132.6
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		91.8
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	2931
		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%		0.20%
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		0.212
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		91.8

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2023/1/13	ALEDM2TY/480	Y1
2	Goniophotometer Test	2023/1/13	ALEDM2TY/480	Y1
3	THD and PF Test	2023/1/13	ALEDM2TY/480	Y1

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.

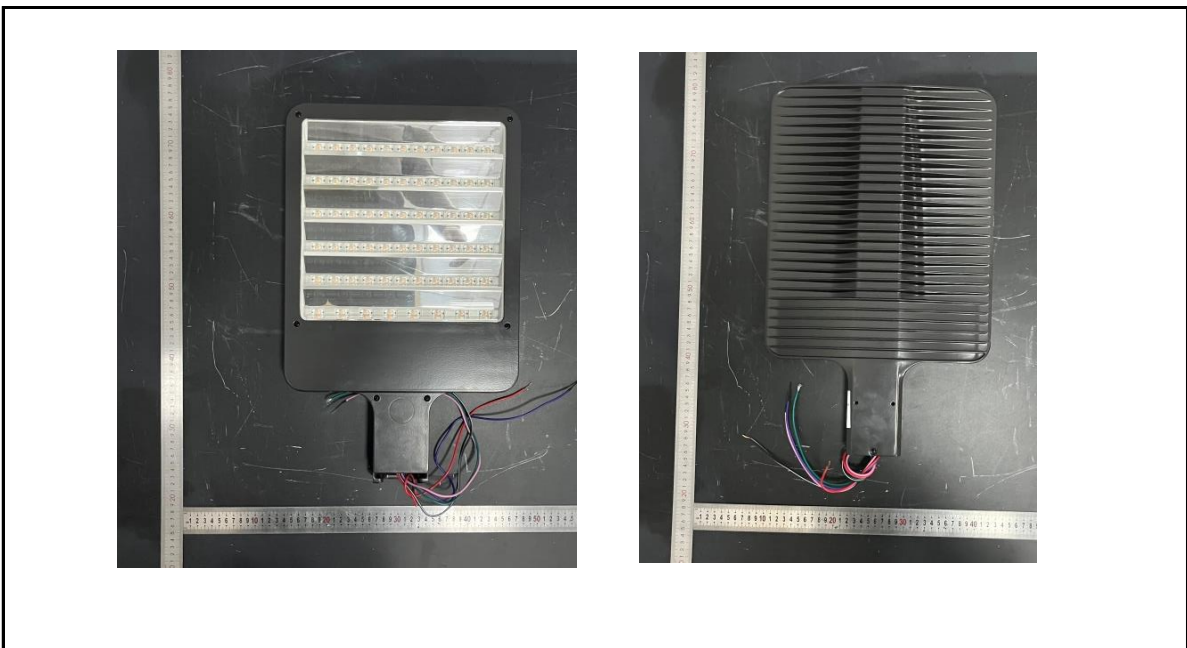
3.0 Production Description

Luminaire Description: ALEDM2TY/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.	ALEDM2TY/480	Sample ID.	Y1
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	0.212	91.8	0.901

Test Result

CCT (K)	CRI	R9	Duv
2931	82	4	0.0022

Rf	Rg	IES Rcs,h1
83	98	-12%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDM2TY/480	Sample ID.	Y1
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	0.212	91.8	0.901

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
12174	91.9	157.5	63.3	143.6	132.6

Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.20%	B3-U0-G1

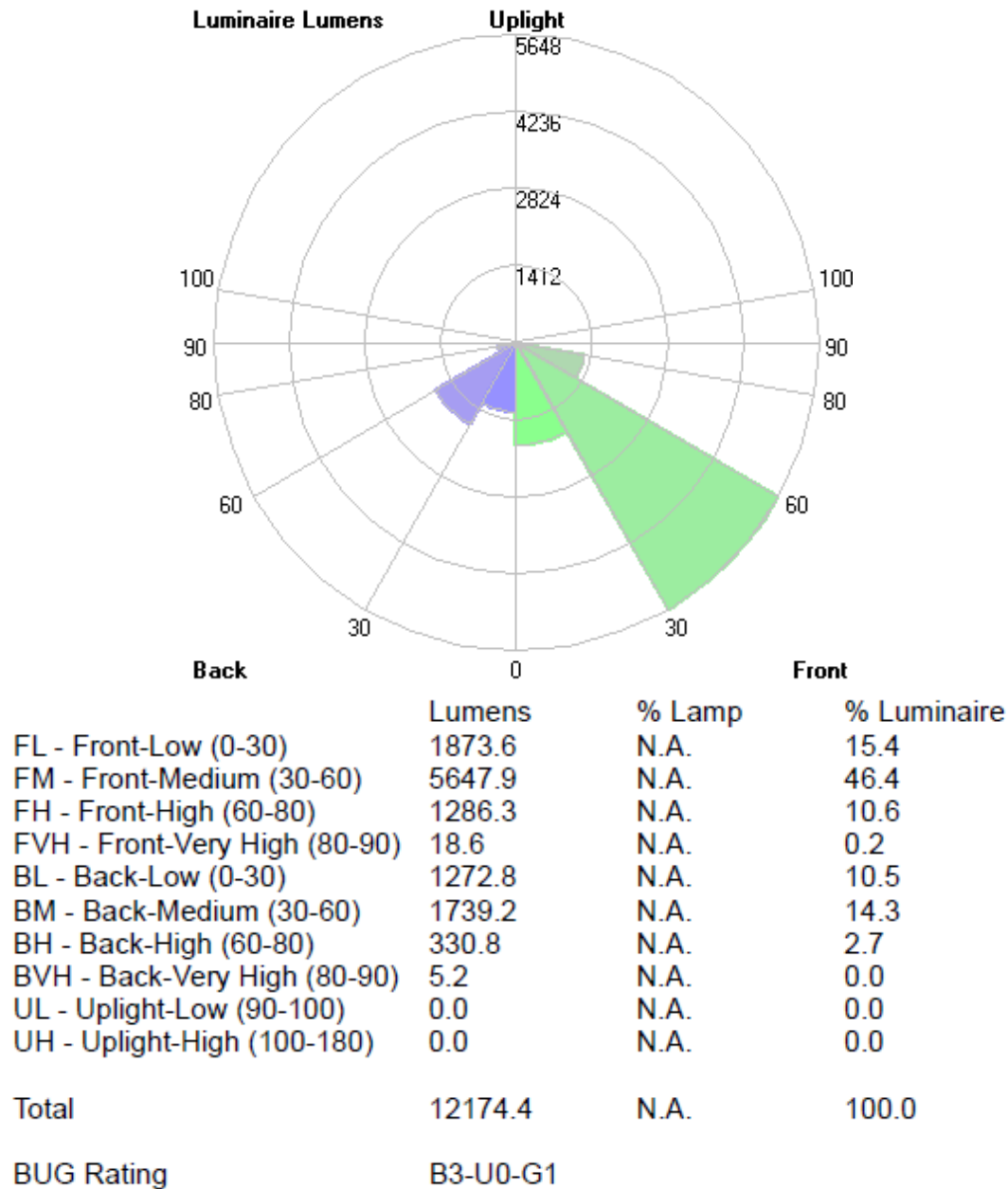
4.2 Goniophotometer Test

Zonal Lumen Summary

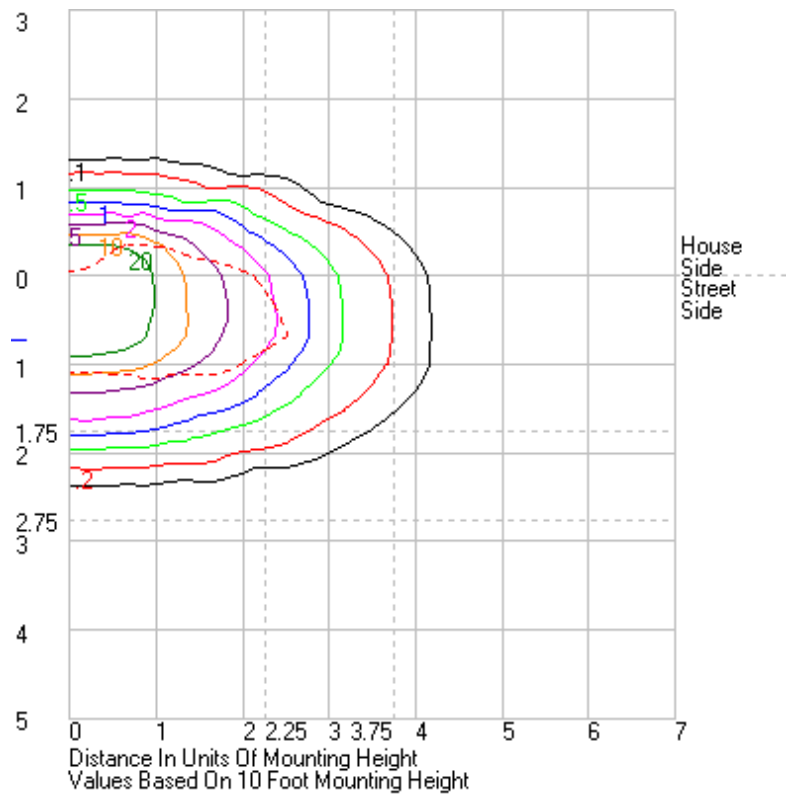
	Zonal (lm)		Total (lm)	Percent
0-10	341.84	0 - 10	341.84	2.81%
10-20	1059.42	0 - 20	1401.26	11.51%
20-30	1745.15	0 - 30	3146.41	25.84%
30-40	2451.57	0 - 40	5597.98	45.98%
40-50	2730.3	0 - 50	8328.28	68.41%
50-60	2205.23	0 - 60	10533.51	86.52%
60-70	1277.29	0 - 70	11810.80	97.01%
70-80	339.83	0 - 80	12150.63	99.80%
80-90	23.85	0 - 90	12174.48	100.00%
90-100	0.00	0 - 100	12174.48	100.00%
100-110	0.00	0 - 110	12174.48	100.00%
110-120	0.00	0 - 120	12174.48	100.00%
120-130	0.00	0 - 130	12174.48	100.00%
130-140	0.00	0 - 140	12174.48	100.00%
140-150	0.00	0 - 150	12174.48	100.00%
150-160	0.00	0 - 160	12174.48	100.00%
160-170	0.00	0 - 170	12174.48	100.00%
170-180	0.00	0 - 180	12174.48	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	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	3663.03	
1	3693.86	3686.49	3685.05	3681.75	3677.29	3671.16	3661.22	3650.16	3638.21	3626.7	3616.29	3608.39	3609.67	3608.39	3616.29	3626.7	3638.21	3650.16	3661.22	3671.16	3677.29	3681.75	3685.05	3686.49	3693.86
2	3706.64	3698.54	3697.65	3695.39	3691.62	3683.32	3666.75	3644.21	3615.01	3585.8	3560.77	3541.24	3536.12	3541.24	3560.77	3585.8	3615.01	3644.21	3666.75	3683.32	3691.62	3695.39	3697.65	3698.54	3706.64
3	3701.52	3694.19	3699.27	3705.62	3704.71	3696.5	3674.39	3636.65	3586.13	3533.09	3492.14	3465.55	3456.81	3465.55	3492.14	3533.09	3586.13	3636.65	3674.39	3696.5	3704.71	3705.62	3699.27	3694.19	3701.52
4	3696.12	3689.9	3694.04	3705.78	3717.48	3711.18	3685.62	3631.84	3555.6	3485.56	3426.75	3383.79	3370.91	3383.79	3426.75	3485.56	3555.6	3631.84	3685.62	3711.18	3717.48	3705.78	3694.04	3689.9	3696.12
5	3707.04	3700.8	3700.59	3706.78	3727.29	3730.35	3701.14	3628.8	3530.13	3435	3355.19	3304.35	3285.24	3304.35	3355.19	3435	3530.13	3628.8	3701.14	3730.35	3727.29	3706.78	3700.59	3700.8	3707.04
6	3725.5	3719.83	3718.1	3719.19	3735.14	3750.56	3718.89	3625.93	3503.18	3379.34	3281.73	3222.25	3203.98	3222.25	3281.73	3379.34	3503.18	3625.93	3718.89	3750.56	3735.14	3719.19	3718.1	3719.83	3725.5
7	3758.12	3750.46	3741.19	3740.17	3749.04	3773.17	3739.89	3627.52	3477.1	3331.8	3221.76	3152.93	3135.91	3152.93	3221.76	3331.8	3477.1	3627.52	3739.89	3773.17	3749.04	3740.17	3741.19	3750.46	3758.12
8	3814.33	3803.3	3780.72	3766.14	3768.47	3796.93	3765.9	3629.41	3449.4	3280.93	3158.6	3101.7	3085.49	3101.7	3158.6	3280.93	3449.4	3629.41	3765.9	3796.93	3768.47	3766.14	3780.72	3803.3	3814.33
9	3871.79	3859.19	3834.2	3799.12	3794.52	3823.47	3792.88	3635.58	3425.51	3236.56	3120.66	3055.55	3042.22	3055.55	3120.66	3236.56	3425.51	3635.58	3792.88	3823.47	3794.52	3799.12	3834.2	3859.19	3871.79
10	3953.28	3934.96	3888.55	3843.51	3826.23	3849.98	3823.85	3641.9	3404.12	3201.01	3082.31	3024.41	3011.25	3024.41	3082.31	3201.01	3404.12	3641.9	3823.85	3849.98	3826.23	3843.51	3888.55	3934.96	3953.28
11	4059.44	4033.42	3965	3899.4	3860.87	3878.45	3855.42	3650.05	3380.31	3173.78	3054.91	3003.09	2996.27	3003.09	3054.91	3173.78	3380.31	3650.05	3855.42	3878.45	3860.87	3899.4	3965	4033.42	4059.44
12	4163.51	4139.88	4048.94	3955.59	3900.91	3910.75	3891.11	3661.18	3364.07	3151.39	3038.6	2992.16	2980.57	2992.16	3038.6	3151.39	3364.07	3661.18	3891.11	3910.75	3900.91	3955.59	4048.94	4139.88	4163.51
13	4271.99	4244.63	4152.84	4025.07	3945.56	3946.68	3931.12	3671.96	3349.08	3135.25	3031.01	2974.54	2960.78	2974.54	3031.01	3135.25	3349.08	3671.96	3931.12	3946.68	3945.56	4025.07	4152.84	4244.63	4271.99
14	4366.93	4344.41	4254.63	4104.75	3996.52	3986.75	3972.88	3688.43	3339.28	3125.19	3020.01	2955.66	2936.55	2955.66	3020.01	3125.19	3339.28	3688.43	3972.88	3986.75	3996.52	4104.75	4254.63	4344.41	4366.93
15	4436.95	4422.4	4347.11	4192.22	4053.81	4028.52	4016.11	3704.81	3338.88	3125.43	3008.01	2928.36	2899.14	2928.36	3008.01	3125.43	3338.88	3704.81	4016.11	4028.52	4053.81	4192.22	4347.11	4422.4	4436.95
16	4507.79	4493.34	4439.76	4291.16	4117.88	4074.66	4061.01	3721.01	3338.96	3128.97	2990.11	2884.95	2845.16	2884.95	2990.11	3128.97	3338.96	3721.01	4061.01	4074.66	4117.88	4291.16	4439.76	4493.34	4507.79
17	4521.93	4535.62	4511.49	4383.22	4185.32	4121.97	4108.39	3739.9	3344.43	3132.75	2965.79	2828.44	2765.94	2828.44	2965.79	3132.75	3344.43	3739.9	4108.39	4121.97	4185.32	4383.22	4511.49	4535.62	4521.93
18	4531.76	4537.42	4573.59	4477.49	4258.55	4174.01	4158.52	3759.71	3353.9	3134.59	2929.11	2738.23	2657.89	2738.23	2929.11	3134.59	3353.9	3759.71	4158.52	4174.01	4258.55	4477.49	4573.59	4537.42	4531.76
19	4495.25	4533.78	4608.07	4567.75	4337.42	4228.61	4210.33	3781.99	3367.7	3135.15	2872.54	2624.89	2516.96	2624.89	2872.54	3135.15	3367.7	3781.99	4210.33	4228.61	4337.42	4567.75	4608.07	4533.78	4495.25
20	4463.86	4499.08	4623.1	4643.86	4424.92	4289.17	4265.87	3807.78	3391.65	3132.21	2800.86	2486.15	2356.36	2486.15	2800.86	3132.21	3391.65	3807.78	4265.87	4289.17	4424.92	4643.86	4623.1	4499.08	4463.86
21	4405.18	4459.17	4621.74	4720.89	4518.18	4352.56	4325.3	3832.83	3414.33	3120.59	2694.79	2312.54	2159.7	2312.54	2694.79	3120.59	3414.33	3832.83	4325.3	4352.56	4518.18	4720.89	4621.74	4459.17	4405.18
22	4367.77	4419.42	4603.03	4777.64	4609.35	4420.1	4387.42	3864.19	3443.2	3102.46	2576.27	2130.37	1963.38	2130.37	2576.27	3102.46	3443.2	3864.19	4387.42	4420.1	4609.35	4777.64	4603.03	4419.42	4367.77
23	4370.75	4393.09	4577.65	4822.18	4713.56	4493.1	4455.08	3901.38	3476.42	3068.94	2432.12	1927.67	1747.88	1927.67	2432.12	3068.94	3476.42	3901.38	4455.08	4493.1	4713.56	4822.18	4577.65	4393.09	4370.75
24	4409.97	4404.45	4550.38	4856.34	4810.65	4568.57	4523.17	3944.4	3508.9	3019.23	2263.08	1714.87	1532.87	1714.87	2263.08	3019.23	3508.9	3944.4	4523.17	4568.57	4810.65	4856.34	4550.38	4404.45	4409.97
25	4495.66	4462.45	4540.32	4872.8	4902.93	4647.89	4595.17	3989.37	3544.01	2957.43	2100.4	1520.37	1332.88	1520.37	2100.4	2957.43	3544.01	3989.37	4595.17	4647.89	4902.93	4872.8	4540.32	4462.45	4495.66
26	4613.03	4560.59	4545.39	4894.26	5000.75	4729.82	4671.59	4035.67	3575.94	2869.59	1905.43	1311.4	1127.01	1311.4	1905.43	2869.59	3575.94	4035.67	4671.59	4729.82	5000.75	4894.26	4545.39	4560.59	4613.03
27	4750.32	4685.46	4593.89	4891.1	5090.43	4816.96	4748.03	4085.74	3605.67	2770.39	1722.3	1120.99	965.198	1120.99	1722.3	2770.39	3605.67	4085.74	4748.03	4816.96	5090.43	4891.1	4593.89	4685.46	4750.32
28	4899.92	4821.56	4681.38	4904.95	5180.5	4911.25	4828.44	4139.27	3629.5	2657.16	1540	955.653	803.392	955.653	1540	2657.16	3629.5	4139.27	4828.44	4911.25	5180.5	4904.95	4681.38	4821.56	4899.92
29	5079.4	4986.47	4800.26	4910.02	5257.9	5008.86	4908.82	4198.14	3645.75	2522.97	1344.67	794.045	659.635	794.045	1344.67	2522.97	3645.75	4198.14	4908.82	5008.86	5257.9	4910.02	4800.26	4986.47	5079.4
30	5241.66	5150.22	4933.19	4939.3	5327.95	5109.06	4992.27	4258.33	3656.86	2387.49	1175.12	666.224	563.207	666.224	1175.12	2387.49	3656.86	4258.33	4992.27	5109.06	5327.95	4939.3	4933.19	5150.22	5241.66
31	5410.01	5314.77	5088.28	4971.1	5407.32	5209.18	5071.83	4316.49	3655.93	2235.78	1009.92	566.011	485.121	566.011	1009.92	2235.78	3655.93	4316.49	5071.83	5209.18	5407.32	4971.1	5088.28	5314.77	5410.01
32	5566.76	5480.4	5250.95	5049.43	5463.52	5306.45	5147.89	4374.92	3644.33	2076.76	863.216	490.643	434.75	490.643	863.216	2076.76	3644.33	4374.92	5147.89	5306.45	5463.52	5049.43	5250.95	5480.4	5566.76
33	5700.01	5625.41	5415.34	5138.35	5510.26	5405.31	5221.14	4430.72	3620.09	1916.19	733.466	440.769	397.536	440.769	733.466	1916.19	3620.09	4430.72	5221.14	5405.31	5510.26	5138.35	5415.34	5625.41	5700.01
34	5816.31	5759.31	5583.74	5266.38	5562.12	5498.27	5283.94	4481.46	3575.74	1740.25	625.179	402.806	365.016	402.806	625.179	1740.25	3575.74	4481.46	5283.94	5498.27	5562.12	5266.38	5583.74	5759.31	5816.31
35	5855.74	5856.4	5741.95	5405.36	5607.83	5586.15	5430.4	4528.91	3522.46	1568.6	546.139	369.079	338.68	369.079	546.139	1568.6	3522.46	4528.91	5340.7	5586.15	5607.83	5405.36	5741.95	5856.4	5855.74
36	5843.15	5891.18	5892.62	5565.95	5638.99	5667.35	5390.76	4567.52	3450.19	1389.3	485.619	339.535	311.642	339.535	485.619	1389.3	3450.19	4567.52	5390.76	5667.35	5638.99	5565.95	5892.62	5891.18	5843.15
37	5771.4	5866.66	6028.15	5728.96	5674	5740.2	5429.04	4597.65	3357.69	1207.74	439.436	311.522	283.675	311.522	439.436	1207.74	3357.69	4597.65	5429.04	5740.2	5674	5728.96	6028.15	5866.66	5771.4
38	5667.82	5801.54	6123.06	5901.04	5719.67	5802.64	5455.17	4617.24	3250.97	1052.05	402.574	285.949	258.36	285.949	402.574	1052.05	3250.97								

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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.	ALEDM2TY/480	Sample ID.	Y1
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	0.212	91.8	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*****