

# Photometric Test Report

## Relevant Standards

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

## Prepared For

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## Project Number

**DLF2301106**

## Report Number

**DLF2301106-7aMOD90W**

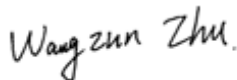
## Test Date

**2023/1/11**

## Issue Date

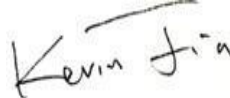
**2023/1/16**

## 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		12360
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	132.2
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		93.5
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.26%
		20.00%	277V	11.71%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.998
		0.9	277V	0.902
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%		0.21%
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		0.781
(Goniophotometer - Section 4.2)		Non-Worst Case		0.367
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		93.5
(Goniophotometer - Section 4.2)		Non-Worst Case		91.7

## 2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2023/1/11	ALEDM2TY	G1
2	Goniophotometer Test	2023/1/11	ALEDM2TY	G1
3	THD and PF Test	2023/1/11	ALEDM2TY	G1

### 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.

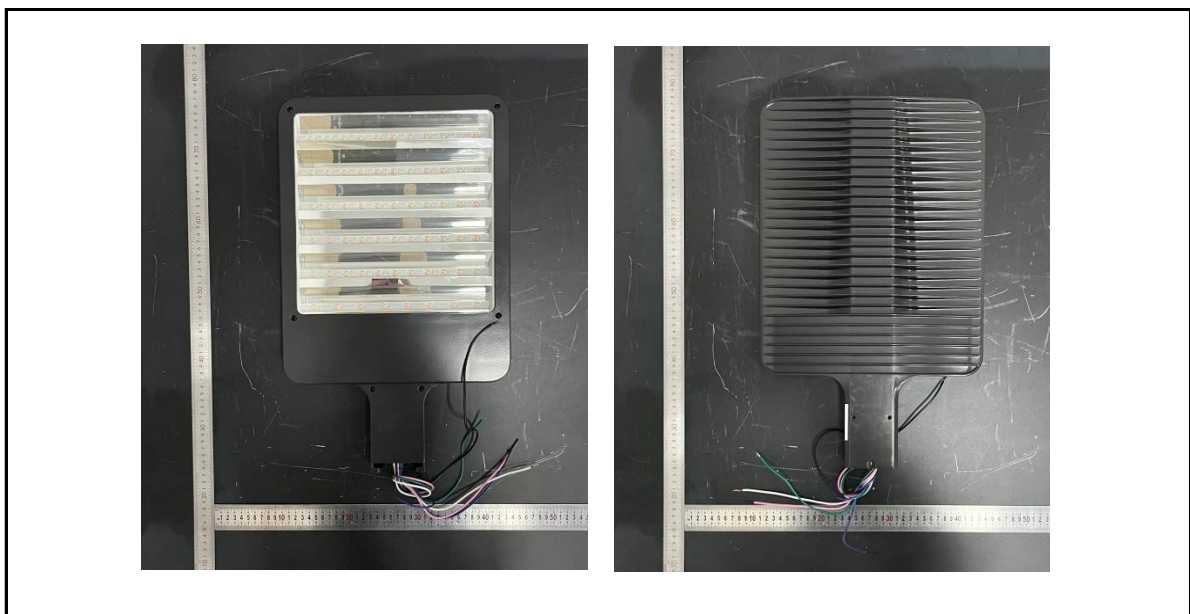
## 3.0 Production Description

**Luminaire Description:** ALEDM2TY

**Description:** 90W @ 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.	ALEDM2TY	Sample ID.	G1
Opreate 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 paramters 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
120.00	60	0.781	93.5	0.998
277.00	60	0.367	91.7	0.902

#### Test Result

CCT (K)	CRI	R9	Duv
2942	82	3	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	Sample ID.	G1
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  $\pm 0.2$  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	120.00	60	0.781	93.5	0.998
NON-WROST CASE	277.00	60	0.367	91.7	0.902

#### Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
12360	91.8	157.9	61.9	144.0	132.2

Zonal Lumen Requirement ( $0^{\circ}$ - $90^{\circ}$ )	Zonal Lumen Requirement ( $80^{\circ}$ - $90^{\circ}$ )	BUG rating
100.00%	0.21%	B3-U0-G1

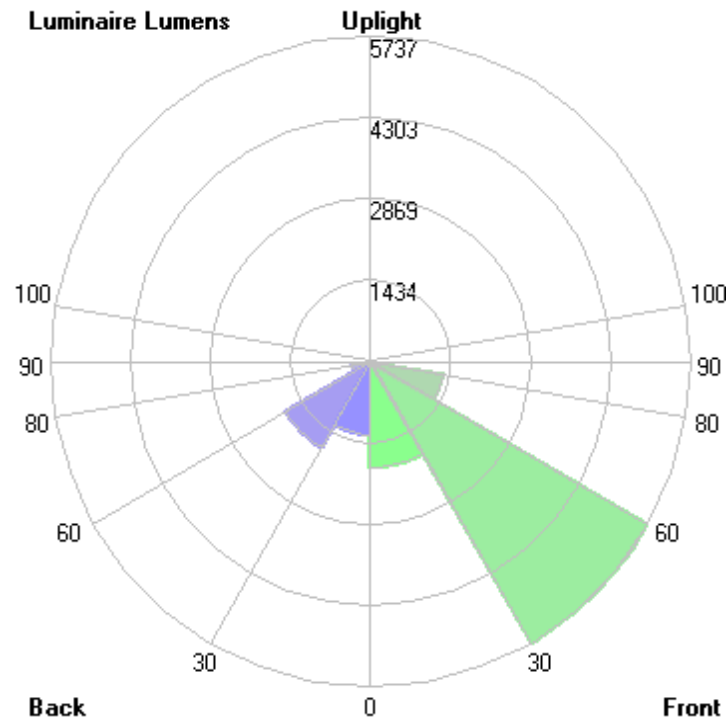
## 4.2 Goniophotometer Test

### Zonal Lumen Summary

	Zonal (lm)		Total (lm)	Percent
0-10	345.27	0 - 10	345.27	2.79%
10-20	1064.84	0 - 20	1410.11	11.41%
20-30	1766.88	0 - 30	3176.99	25.70%
30-40	2486.11	0 - 40	5663.10	45.82%
40-50	2776.77	0 - 50	8439.87	68.28%
50-60	2237.21	0 - 60	10677.08	86.38%
60-70	1304.83	0 - 70	11981.91	96.94%
70-80	352.63	0 - 80	12334.54	99.79%
80-90	25.78	0 - 90	12360.32	100.00%
90-100	0.00	0 - 100	12360.32	100.00%
100-110	0.00	0 - 110	12360.32	100.00%
110-120	0.00	0 - 120	12360.32	100.00%
120-130	0.00	0 - 130	12360.32	100.00%
130-140	0.00	0 - 140	12360.32	100.00%
140-150	0.00	0 - 150	12360.32	100.00%
150-160	0.00	0 - 160	12360.32	100.00%
160-170	0.00	0 - 170	12360.32	100.00%
170-180	0.00	0 - 180	12360.32	100.00%

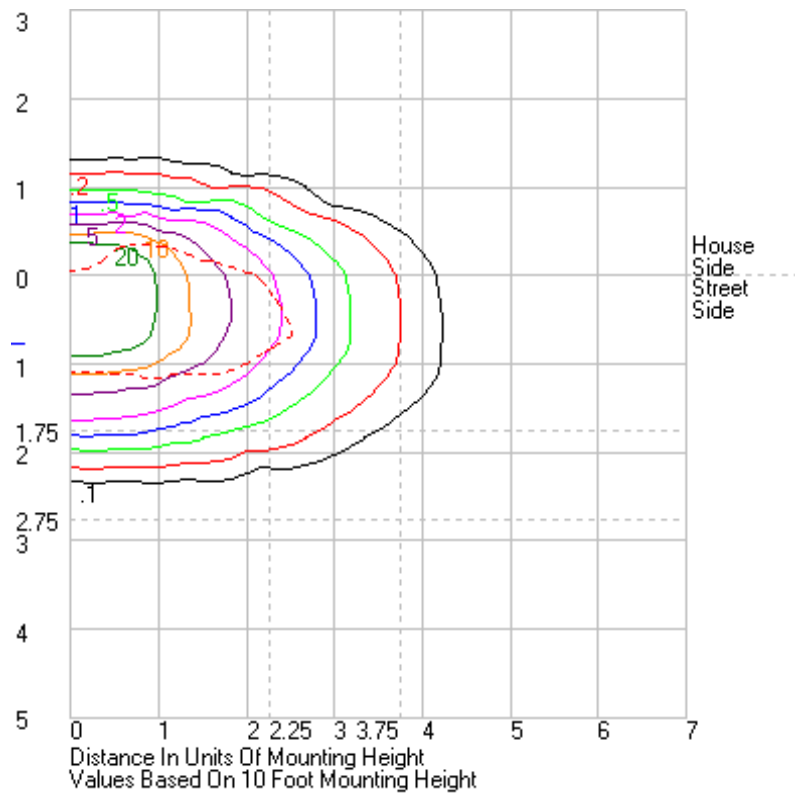
## 4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1885.3	N.A.	15.3
FM - Front-Medium (30-60)	5737.2	N.A.	46.4
FH - Front-High (60-80)	1323.2	N.A.	10.7
FVH - Front-Very High (80-90)	20.1	N.A.	0.2
BL - Back-Low (0-30)	1291.6	N.A.	10.4
BM - Back-Medium (30-60)	1762.9	N.A.	14.3
BH - Back-High (60-80)	334.3	N.A.	2.7
BVH - Back-Very High (80-90)	5.7	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
<b>Total</b>	<b>12360.3</b>	<b>N.A.</b>	<b>100.0</b>
<b>BUG Rating</b>	<b>B3-U0-G1</b>		

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	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07	3736.07
1	3753.21	3750.82	3748.31	3745.42	3741.35	3735.55	3730.28	3724.72	3716.74	3706.93	3697.83	3692.18	3689.49	3692.18	3697.83	3706.93	3716.74	3724.72	3730.28	3735.55	3741.35	3745.42	3748.31	3750.82	3753.21
2	3767.98	3764.19	3763.82	3761.96	3756.51	3746.94	3735.58	3720.71	3697.17	3669.66	3647.05	3629.96	3623.01	3629.96	3647.05	3669.66	3697.17	3720.71	3735.58	3746.94	3756.51	3761.96	3763.82	3764.19	3767.98
3	3767.45	3764.77	3767.15	3771.05	3770.04	3759.44	3742.46	3715.93	3672.19	3622.43	3571.04	3532.91	3523.28	3532.91	3571.04	3622.43	3672.19	3715.93	3742.46	3759.44	3770.04	3771.05	3767.15	3764.77	3767.45
4	3759.27	3758.14	3766.68	3775.11	3781.84	3774.02	3752.44	3711.02	3641.78	3558.17	3480.45	3432.02	3409.03	3432.02	3480.45	3558.17	3641.78	3711.02	3752.44	3774.02	3781.84	3775.11	3766.68	3758.14	3759.27
5	3755.55	3755.37	3762.16	3777.67	3789.86	3790.32	3765.2	3707.92	3607.59	3486.15	3389.23	3329.97	3312.91	3329.97	3389.23	3486.15	3607.59	3707.92	3765.2	3790.32	3789.86	3777.67	3762.16	3755.37	3755.55
6	3749.83	3751.1	3764.04	3779.19	3801.21	3809.47	3781.7	3705.29	3566.05	3414.66	3303.65	3230.92	3207.36	3230.92	3303.65	3414.66	3566.05	3705.29	3781.7	3809.47	3801.21	3779.19	3764.04	3751.1	3749.83
7	3756.29	3755.83	3764.66	3786.63	3813.02	3830.38	3802.32	3703.99	3523.1	3351.47	3223.49	3152.94	3127.93	3152.94	3223.49	3351.47	3523.1	3703.99	3802.32	3830.38	3813.02	3786.63	3764.66	3755.83	3756.29
8	3771.45	3770.25	3775.6	3793.46	3826.22	3854.12	3826.4	3705.64	3483.48	3289.51	3153.4	3088.86	3079.34	3088.86	3153.4	3289.51	3483.48	3705.64	3826.4	3854.12	3826.22	3793.46	3775.6	3770.25	3771.45
9	3807.8	3802.16	3793.5	3806.04	3844.33	3880.75	3856.32	3707.73	3447.4	3232.39	3106.67	3064.02	3050.55	3064.02	3106.67	3232.39	3447.4	3707.73	3856.32	3880.75	3844.33	3806.04	3793.5	3802.16	3807.8
10	3888.41	3863.7	3826.41	3825.65	3864.71	3911.43	3888.84	3711.7	3416.82	3185.29	3086.79	3031.39	3015.5	3031.39	3086.79	3185.29	3416.82	3711.7	3888.84	3911.43	3864.71	3825.65	3826.41	3863.7	3888.41
11	3982.28	3959.96	3890.4	3851.23	3889.24	3944.5	3925.82	3715.79	3388.09	3156.53	3058.77	3004.92	2994.53	3004.92	3058.77	3156.53	3388.09	3715.79	3925.82	3944.5	3889.24	3851.23	3890.4	3959.96	3982.28
12	4091.94	4056.16	3972.62	3888.95	3916.42	3979.17	3963.62	3718.97	3362.75	3144.71	3037.13	2990.11	2976.83	2990.11	3037.13	3144.71	3362.75	3718.97	3963.62	3979.17	3916.42	3888.95	3972.62	4056.16	4091.94
13	4222.98	4184.16	4067.89	3948.87	3948.97	4015.38	4003.65	3725.63	3342.06	3133.22	3025.01	2971.2	2958.09	2971.2	3025.01	3133.22	3342.06	3725.63	4003.65	4015.38	3948.97	3948.87	4067.89	4184.16	4222.98
14	4363.98	4320.95	4179.7	4028.03	3985.35	4054.4	4046.67	3732.48	3328.64	3121.6	3013.1	2957.07	2944.66	2957.07	3013.1	3121.6	3328.64	3732.48	4046.67	4054.4	3985.35	4028.03	4179.7	4320.95	4363.98
15	4491.46	4448.28	4297.53	4115.86	4024.78	4094.74	4091.65	3741.72	3323.45	3118.9	3001.75	2946.71	2935.32	2946.71	3001.75	3118.9	3323.45	3741.72	4091.65	4094.74	4024.78	4115.86	4297.53	4448.28	4491.46
16	4586.4	4561.78	4430.24	4214	4072.92	4138.3	4140.88	3754.3	3328.8	3122.01	2992.97	2933.76	2915.45	2933.76	2992.97	3122.01	3328.8	3754.3	4140.88	4138.3	4072.92	4214	4430.24	4561.78	4586.4
17	4629.28	4626.23	4543.67	4319.76	4129.11	4182.97	4192.34	3767.81	3338.57	3124.34	2987.72	2909.23	2873.84	2909.23	2987.72	3124.34	3338.57	3767.81	4192.34	4182.97	4129.11	4319.76	4543.67	4626.23	4629.28
18	4607.64	4634.39	4637.4	4437.49	4198.67	4229.92	4245.08	3783.82	3351.28	3127.82	2978.43	2852.01	2787.62	2852.01	2978.43	3127.82	3351.28	3783.82	4245.08	4229.92	4198.67	4437.49	4637.4	4634.39	4607.64
19	4580.25	4613.95	4693.82	4553.16	4274.62	4278.86	4299.3	3801.27	3366.91	3134.72	2954.48	2748.53	2654.62	2748.53	2954.48	3134.72	3366.91	3801.27	4299.3	4278.86	4274.62	4553.16	4693.82	4613.95	4580.25
20	4493.21	4569.23	4705.15	4668.18	4360.8	4329.86	4356.77	3822.94	3387.53	3142.93	2906.24	2618.35	2483.64	2618.35	2906.24	3142.93	3387.53	3822.94	4356.77	4329.86	4360.8	4668.18	4705.15	4569.23	4493.21
21	4437.22	4477.11	4691.13	4771.85	4454.38	4385.25	4417.73	3849.06	3410.57	3154.12	2813.33	2423.96	2277.84	2423.96	2813.33	3154.12	3410.57	3849.06	4417.73	4385.25	4454.38	4771.85	4691.13	4477.11	4437.22
22	4425.5	4446.52	4656.76	4851.33	4555.24	4444.42	4482.88	3874.73	3439.29	3159.64	2699.31	2235.85	2055.09	2235.85	2699.31	3159.64	3439.29	3874.73	4482.88	4444.42	4555.24	4851.33	4656.76	4446.52	4425.5
23	4426.25	4449.84	4603.9	4902.85	4659.89	4507.22	4551.96	3905.02	3470.45	3152.28	2546.77	2013.04	1833.54	2013.04	2546.77	3152.28	3470.45	3905.02	4551.96	4507.22	4659.89	4902.85	4603.9	4449.84	4426.25
24	4490.92	4467.73	4570	4940.08	4769.32	4573.4	4624.1	3940.32	3503.1	3124.11	2367.38	1786.78	1601.84	1786.78	2367.38	3124.11	3503.1	3940.32	4624.1	4573.4	4769.32	4940.08	4570	4467.73	4490.92
25	4566.65	4534.99	4574.93	4950.78	4889.32	4644.83	4697.81	3981.6	3539.47	3070.84	2191.36	1581.72	1393.42	1581.72	2191.36	3070.84	3539.47	3981.6	4697.81	4644.83	4889.32	4950.78	4574.93	4534.99	4566.65
26	4671.45	4622.7	4607.85	4946.37	4999.58	4721.24	4777.44	4031.07	3577.41	2993.95	1986.51	1357.28	1181.38	1357.28	1986.51	2993.95	3577.41	4031.07	4777.44	4721.24	4999.58	4946.37	4607.85	4622.7	4671.45
27	4788.33	4727.61	4663.44	4945.91	5111.92	4804	4859.08	4082.57	3617.01	2894.17	1792.46	1165.67	1002.95	1165.67	1792.46	2894.17	3617.01	4082.57	4859.08	4804	5111.92	4945.91	4663.44	4727.61	4788.33
28	4946.25	4851.99	4753.78	4937.49	5223.64	4892.11	4942.69	4138.55	3655.23	2768.99	1601.25	975.845	824.513	975.845	1601.25	2768.99	3655.23	4138.55	4942.69	4892.11	5223.64	4937.49	4753.78	4851.99	4946.25
29	5118.56	5015.66	4859.79	4959.38	5320.98	4988.05	5031.05	4194.6	3690.94	2635.56	1401.54	802.483	662.379	802.483	1401.54	2635.56	3690.94	4194.6	5031.05	4988.05	5320.98	4959.38	4859.79	5015.66	5118.56
30	5300.01	5177.72	4980.47	4992.06	5401.32	5087.33	5116.95	4253.16	3717.42	2485.75	1220.8	660.946	547.157	660.946	1220.8	2485.75	3717.42	4253.16	5116.95	5087.33	5401.32	4992.06	4980.47	5177.72	5300.01
31	5500.79	5367.12	5131.21	5063.47	5478.4	5186.57	5200.71	4312.28	3732.54	2328.44	1034.37	546.566	476.658	546.566	1034.37	2328.44	3732.54	4312.28	5200.71	5186.57	5478.4	5063.47	5131.21	5367.12	5500.79
32	5661.85	5552.76	5290.58	5144.88	5554.54	5286.76	5281.12	4368.95	3736.05	2165.67	879.662	476.928	425.283	476.928	879.662	2165.67	3736.05	4368.95	5281.12	5286.76	5554.54	5144.88	5290.58	5552.76	5661.85
33	5794.73	5704.48	5467.29	5248.22	5613.07	5384.86	5358.02	4428.36	3718.43	1992.46	732.037	431.995	395.614	431.995	732.037	1992.46	3718.43	4428.36	5358.02	5384.86	5613.07	5248.22	5467.29	5704.48	5794.73
34	5891.92	5836.78	5652.59	5370.17	5643.86	5477.03	5426.04	4483.05	3684.16	1823.28	609.051	399.828	372.954	399.828	609.051	1823.28	3684.16	4483.05	5426.06	5477.03	5643.86	5370.17	5652.59	5836.78	5891.92
35	5922.72	5918.17	5817.68	5513.84	5695.48	5565.57	5483.41	4530.46	3626.57	1639.69	529.296	375.945	348.867	375.945	529.296	1639.69	3626.57	4530.46	5513.84	5695.48	5565.57	5817.68	5918.17	5922.72	
36	5903.75	5947.06	5975.09	5668.01	5748.94	5650.58	5528.86	4570.07	3550.22	1451.92	472.957	350.109	323.386	350.109	472.957	1451.92	3550.22	4570.07	5528.86	5650.58	5748.94	5668.01	5975.09	5947.06	5903.75
37	5857.65	5929.45	6099.68	5837.26	5802.41	5726.35	5562.13	4597.68	3454.06	1265.12	433.263	324.077	296.926	324.077	433.263	1265.12	3454.06	4597.68	5562.13	5726.35	5802.41	5837.26	6099.68	5929.45	5857.65
38	5775.49	5885.13	6185.12	6013.87	5844.49	5791.91	5578.46	4615.81	3336.92	1075.32	404.995	297.938	269.414	297.93											

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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	Sample ID.	G1
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	0.781	93.5	0.998	5.26%
277.00	60	0.367	91.7	0.902	11.71%

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