

Photometric Test Report

Relevant Standards

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

Prepared For

RAB Lighting Inc.

Room 6A33, No.1388, Wuzhong road, Shanghai, China

Xiao Xiang, 15921313292, Gary.Xiao@rabweb.com

Prepared By

Deliver Co., Ltd.

Block 11, 78 Keling Road, SSTP, Suzhou, China

0512-66801950, kevin.jia@szdeliver.com

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Issue Date

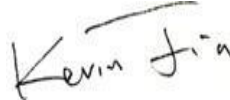
2022/7/30

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		5650
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	139.5
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.5
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.25%
		20.00%	277V	10.03%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.881
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3985±275	3799
		4 step	3985±154	
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		93
Minimum IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-18%≤IES Rcs,h1≤+23%		-13%
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%		0.83%
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		0.339
(Goniophotometer - Section 4.2)		Non-Worst Case		0.166
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.5
(Goniophotometer - Section 4.2)		Non-Worst Case		40.4

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2022/7/29	ALEDS3TN	E1
2	Goniophotometer Test	2022/7/29	ALEDS3TN	E1
3	THD and PF Test	2022/7/29	ALEDS3TN	E1

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.

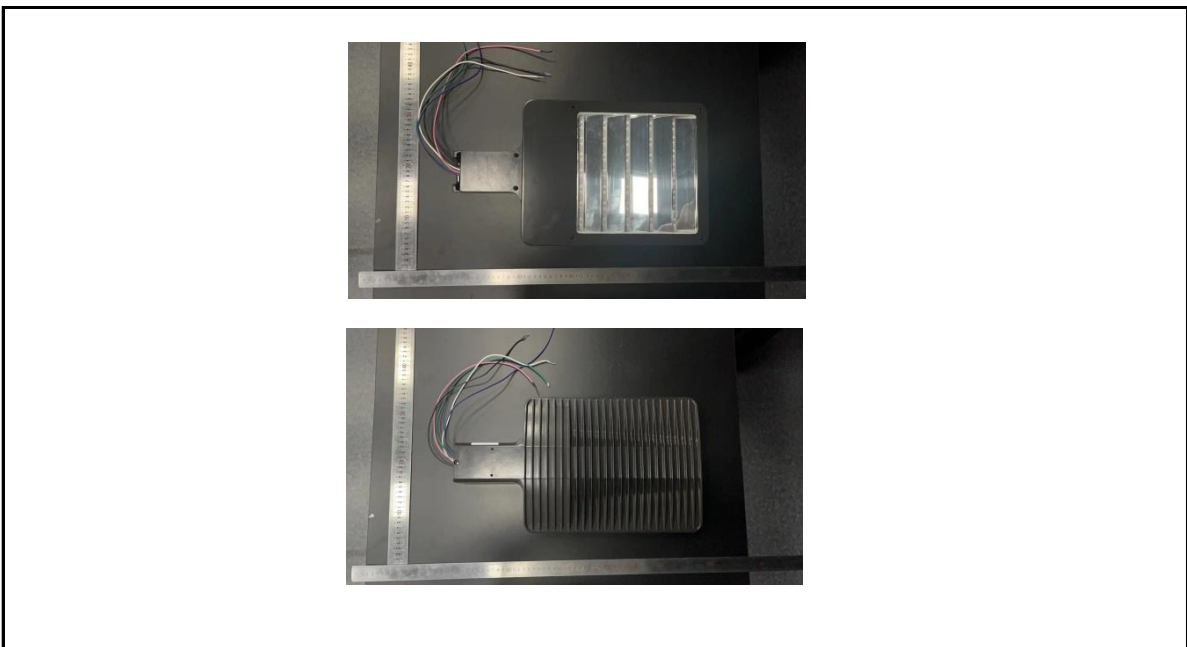
3.0 Production Description

Luminaire Description: ALEDS3TN

Description: 40W @ 4000K

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.	ALEDS3TN	Sample ID.	E1
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 ± 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	0.339	40.5	0.995
277.00	60	0.166	40.4	0.881

Test Result

CCT (K)	CRI	R9	Duv
3799	82	4	0.0012

Rf	Rg	IES Rcs,h1
83	93	-13%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDS3TN	Sample ID.	E1
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	0.339	40.5	0.995
NON-WROST CASE	277.00	60	0.166	40.4	0.881

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5650	91.3	159.7	55.5	141.4	139.5

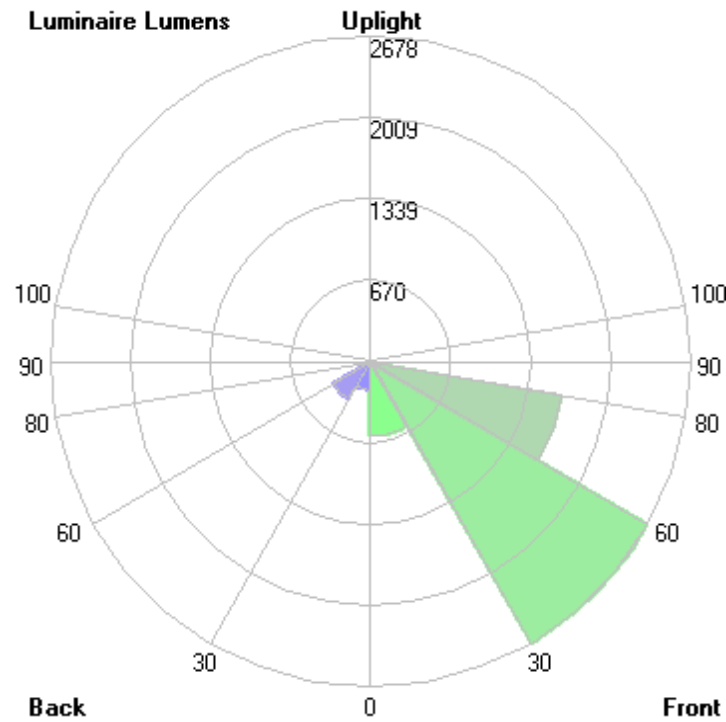
Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.83%	B1-U0-G1

4.2 Goniophotometer Test

	Zonal (lm)		Total (lm)	Percent
0-10	90.68	0 - 10	90.68	1.61%
10-20	260.77	0 - 20	351.45	6.22%
20-30	494.41	0 - 30	845.86	14.97%
30-40	804.78	0 - 40	1650.64	29.22%
40-50	1053.12	0 - 50	2703.76	47.86%
50-60	1182.53	0 - 60	3886.29	68.79%
60-70	1128.61	0 - 70	5014.90	88.76%
70-80	588.15	0 - 80	5603.05	99.17%
80-90	46.79	0 - 90	5649.84	100.00%
90-100	0.00	0 - 100	5649.84	100.00%
100-110	0.00	0 - 110	5649.84	100.00%
110-120	0.00	0 - 120	5649.84	100.00%
120-130	0.00	0 - 130	5649.84	100.00%
130-140	0.00	0 - 140	5649.84	100.00%
140-150	0.00	0 - 150	5649.84	100.00%
150-160	0.00	0 - 160	5649.84	100.00%
160-170	0.00	0 - 170	5649.84	100.00%
170-180	0.00	0 - 180	5649.84	100.00%

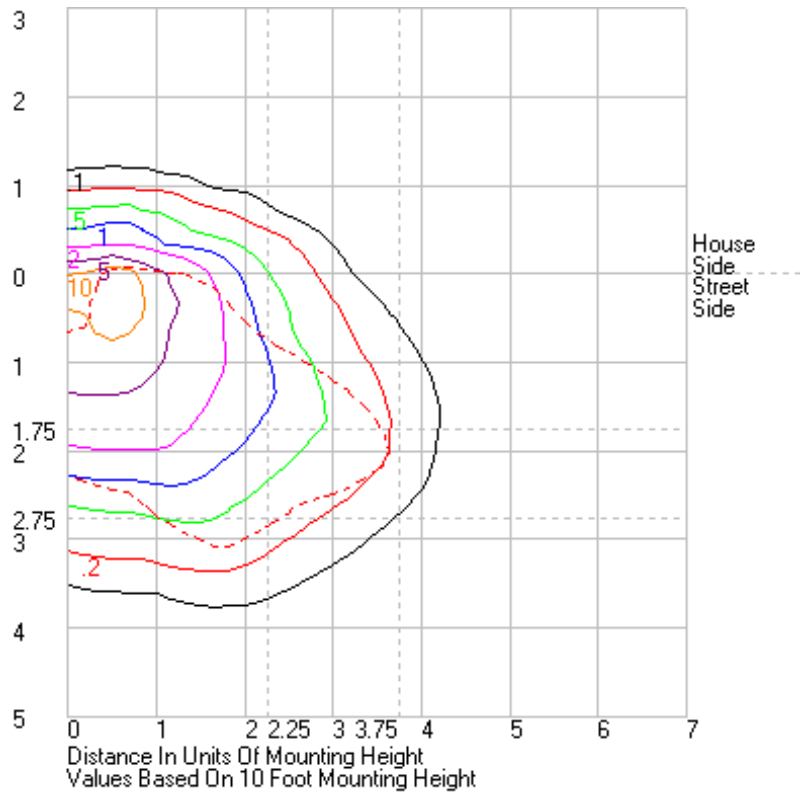
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	611.0	N.A.	10.8
FM - Front-Medium (30-60)	2678.0	N.A.	47.4
FH - Front-High (60-80)	1620.3	N.A.	28.7
FVH - Front-Very High (80-90)	43.8	N.A.	0.8
BL - Back-Low (0-30)	234.9	N.A.	4.2
BM - Back-Medium (30-60)	362.4	N.A.	6.4
BH - Back-High (60-80)	96.4	N.A.	1.7
BVH - Back-Very High (80-90)	3.0	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	5649.8	N.A.	100.0
BUG Rating	B1-U0-G1		

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	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919	995.919
1	1016.57	1015.42	1014.26	1011.34	1007.92	1003.53	998.366	992.181	986.633	980.215	975.229	971.366	970.302	971.366	975.229	980.215	986.633	992.181	998.366	1003.53	1007.92	1011.34	1014.26	1015.42	1016.57
2	1032.58	1030.77	1029.13	1025.53	1019.96	1011.48	1001.4	988.486	974.24	960.157	946.819	937.3	934.21	937.3	946.819	960.157	974.24	988.486	1001.4	1011.48	1019.96	1025.53	1029.13	1030.77	1032.58
3	1045.68	1045	1042.8	1038.15	1030.61	1020.88	1005.17	984.985	960.972	935.749	914.47	898.679	891.424	898.679	914.47	935.749	960.972	984.985	1005.17	1020.88	1030.61	1038.15	1042.8	1045	1045.68
4	1061.13	1059.48	1056.94	1050.88	1042.55	1029.47	1009.12	981.133	945.452	908.02	873.089	848.352	838.51	848.352	873.089	908.02	945.452	981.133	1009.12	1029.47	1042.55	1050.88	1056.94	1059.48	1061.13
5	1077.23	1075.03	1072.29	1065.19	1053.11	1038.08	1012.8	976.898	927.5	875.191	826.495	793.039	778.194	793.039	826.495	875.191	927.5	976.898	1012.8	1038.08	1053.11	1065.19	1072.29	1075.03	1077.23
6	1091.21	1090.56	1087.81	1079.46	1064.86	1046.93	1017.92	971.761	908.285	837.375	774.996	732.335	715.49	732.335	774.996	837.375	908.285	971.761	1017.92	1046.93	1064.86	1079.46	1087.81	1090.56	1091.21
7	1105.84	1105.68	1104.15	1094.97	1077.95	1057.27	1024.71	967.088	885.325	795.508	719.267	669.21	652.668	669.21	719.267	795.508	885.325	967.088	1024.71	1057.27	1077.95	1094.97	1104.15	1105.68	1105.84
8	1116.95	1118.53	1118.99	1111.33	1093.18	1068.98	1031.6	962.015	860.913	751.275	664.034	604.578	585.238	604.578	664.034	751.275	860.913	962.015	1031.6	1068.98	1093.18	1111.33	1118.99	1118.53	1116.95
9	1130.06	1132.38	1133.52	1126.42	1109.17	1080.95	1040.13	957.083	834.236	706.598	605.636	537.931	516.003	537.931	605.636	706.598	834.236	957.083	1040.13	1080.95	1109.17	1126.42	1133.52	1132.38	1130.06
10	1141.82	1145.99	1148.01	1143.56	1125.93	1095.93	1051.08	952.702	804.162	660.761	545.672	473.088	449.561	473.088	545.672	660.761	804.162	952.702	1051.08	1095.93	1125.93	1143.56	1148.01	1145.99	1141.82
11	1154.24	1158.8	1161.96	1159.51	1143.66	1115	1066.54	949.525	773.613	612.206	487.766	412.599	388.803	412.599	487.766	612.206	773.613	949.525	1066.54	1115	1143.66	1159.51	1161.96	1158.8	1154.24
12	1165.37	1170.98	1176.88	1176.17	1164.99	1140.32	1090.98	950.276	743.809	562.873	431.313	356.627	334.138	356.627	431.313	562.873	743.809	950.276	1090.98	1140.32	1164.99	1176.17	1176.88	1170.98	1165.37
13	1178.74	1185.59	1191	1194.18	1190.9	1176.25	1122.27	956.326	714.869	513.853	380.764	314.765	292.541	314.765	380.764	513.853	714.869	956.326	1122.27	1176.25	1190.9	1194.18	1191	1185.59	1178.74
14	1192.58	1200.07	1207.84	1214.72	1224.74	1221.79	1166.32	969.367	687.015	466.589	338.616	277.636	258.933	277.636	338.616	466.589	687.015	969.367	1166.32	1221.79	1224.74	1227.84	1207.84	1192.58	
15	1210.77	1216.46	1226.2	1237.68	1265.7	1280.15	1220.84	988.561	660.928	423.047	304.058	247.778	234.321	247.778	304.058	423.047	660.928	988.561	1220.84	1280.15	1265.7	1237.68	1226.2	1216.46	1210.77
16	1225.98	1234.59	1244.92	1266.08	1317.37	1345.02	1278.86	1012.49	636.413	383.157	272.482	227.46	217.639	227.46	272.482	383.157	636.413	1012.49	1278.86	1345.02	1317.37	1266.08	1244.92	1234.59	1225.98
17	1236.72	1246.15	1266.89	1300.62	1378.02	1411.76	1335.88	1034.54	612.805	349.674	249.863	215.338	207.731	215.338	249.863	349.674	612.805	1034.54	1335.88	1411.76	1378.02	1300.62	1266.89	1246.15	1236.72
18	1241.57	1257.24	1287.17	1341.12	1443.99	1475.91	1389.22	1051.27	588.241	323.619	234.656	207.067	199.92	207.067	234.656	323.619	588.241	1051.27	1389.22	1475.91	1443.99	1341.12	1287.17	1257.24	1241.57
19	1238.35	1260.53	1305.55	1389.6	1511.44	1537.6	1439.72	1062.62	561.252	300.109	225.364	200.228	193.329	200.228	225.364	300.109	561.252	1062.62	1439.72	1537.6	1511.44	1389.6	1305.55	1260.53	1238.35
20	1235.66	1257.96	1326.05	1447.65	1575.74	1593.14	1484.5	1068.02	532.091	282.217	218.411	194.064	187.03	194.064	218.411	282.217	532.091	1068.02	1484.5	1593.14	1575.74	1447.65	1326.05	1257.96	1235.66
21	1233.73	1257.72	1339.07	1512.28	1639.36	1644.94	1525.58	1068.6	501.86	268.452	213.204	188.316	180.769	188.316	213.204	268.452	501.86	1068.6	1525.58	1644.94	1639.36	1512.28	1339.07	1257.72	1233.73
22	1231.77	1259.12	1351.7	1577.29	1699.09	1693.39	1567.48	1064.33	471.64	260.468	208.493	182.152	173.535	182.152	208.493	260.468	471.64	1064.33	1567.48	1693.39	1699.09	1577.29	1351.7	1259.12	1231.77
23	1238.3	1263.65	1369.34	1644.97	1758.09	1745.85	1614.97	1060.19	442.614	256.081	204.252	175.177	165.81	175.177	204.252	256.081	442.614	1060.19	1614.97	1745.85	1758.09	1644.97	1369.34	1263.65	1238.3
24	1249.31	1274.65	1389.64	1711.1	1815.78	1802.91	1666.34	1055.86	415.354	253.137	199.936	168.203	158.225	168.203	199.936	253.137	415.354	1055.86	1666.34	1802.91	1815.78	1711.1	1389.64	1274.65	1249.31
25	1259.43	1288.65	1415.82	1767.2	1874.74	1862.43	1719.31	1051.12	389.148	251.284	195.014	161.094	150.705	161.094	195.014	251.284	389.148	1051.12	1719.31	1862.43	1874.74	1767.2	1415.82	1288.65	1259.43
26	1269.49	1303.49	1449.37	1815.83	1938.52	1929.21	1779.76	1044.58	365.443	249.76	189.531	154.303	143.785	154.303	189.531	249.76	365.443	1044.58	1779.76	1929.21	1938.52	1815.83	1449.37	1303.49	1269.49
27	1277.3	1318.96	1492.99	1861.8	2006.36	2001.41	1837.31	1034.58	346.73	248.567	183.864	148.021	138.442	148.021	183.864	248.567	346.73	1034.58	1837.31	2001.41	2006.36	1861.8	1492.99	1318.96	1277.3
28	1287.72	1331.38	1544.83	1908.03	2080.05	2074.93	1891.75	1020.34	329.567	246.67	178.797	143.277	133.937	143.277	178.797	246.67	329.567	1020.34	1891.75	2074.93	2080.05	1908.03	1544.83	1331.38	1287.72
29	1306.02	1348.82	1597.01	1954.21	2160.63	2143.81	1940.99	1001.9	314.614	244.002	173.632	139.388	130.496	139.388	173.632	244.002	314.614	1001.9	1940.99	2143.81	2160.63	1954.21	1597.01	1348.82	1306.02
30	1335.91	1375.29	1647.18	2004.09	2244.87	2211.63	1987.38	975.077	306.408	240.469	169.791	136.671	127.8	136.671	169.791	240.469	306.408	975.077	1987.38	2211.63	2244.87	2004.09	1647.18	1375.29	1335.91
31	1381.48	1412.41	1690.13	2057.77	2329.5	2274.93	2023.67	943.41	302.048	235.936	167.274	134.704	125.823	134.704	167.274	235.936	302.048	943.41	2023.67	2274.93	2329.5	2057.77	1690.13	1412.41	1381.48
32	1436.38	1463.32	1735.04	2116.87	2413.34	2330.62	2050	905.005	301.13	231.377	165.281	132.857	123.441	132.857	165.281	231.377	301.13	905.005	2050	2330.62	2413.34	2116.87	1735.04	1463.32	1436.38
33	1506.86	1526.68	1778.17	2188.27	2485.29	2376.23	2066.44	860.14	301.643	226.088	164.8	130.404	120.145	130.404	164.8	226.088	301.643	860.14	2066.44	2376.23	2485.29	2188.27	1778.17	1526.68	1506.86
34	1577.22	1601.49	1825.97	2257.6	2547.28	2410.76	2070.07	812.563	303.291	221.042	164.589	126.693	113.5	126.693	164.589	221.042	303.291	812.563	2070.07	2410.76	2547.28	2257.6	1825.97	1601.49	1577.22
35	1649.77	1679.76	1882.85	2322.17	2602.39	2440.42	2066.99	764.915	305.165	216.575	164.762	119.859	104.371	119.859	164.762	216.575	305.165	764.915	2066.99	2440.42	2602.39	2322.17	1882.85	1679.76	1649.77
36	1727.45	1758.5	1944.15	2381.89	2650.51	2457.06	2051.4	716.063	306.295	213.371	164.249	111.264	94.625	111.264	164.249	213.371	306.295	716.063	2051.4	2457.06	2650.51	2381.89	1944.15	1758.5	1727.45
37	1795.24	1837.67	2017.39	2430.96	2693.98	2463.47	2024.86	666.887	306.835	211.01	161.072	100.832	84.345	100.832	161.072	211.01	306.835	666.887	2024.86	2463.47	2693.98	2430.96	2017.39	1837.67	1795.24
38	1864.74	1905.07	2093.38	2470.73	2727.43	2459.21	1995.5	620.628	306.084	210.503	153.947	90.379	74.07	90.379	153.947	210.503									

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160	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
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.	ALEDS3TN	Sample ID.	E1
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	0.339	40.5	0.995	5.25%
277.00	60	0.166	40.4	0.881	10.03%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2021/12/26	2022/12/25
DLF108	Auxiliary Lamp	2021/12/26	2022/12/25
DLF122	Measurement Standard Lamp Standard Lamp Type: 220 V, 0.4720 A, Tungsten, Omni-derectional	2021/12/26	2022/12/25
DLF116	AC Power Source	2021/12/26	2022/12/25
DLF113	Power Meter	2021/12/26	2022/12/25
DLF112	Temperature Recorder	2021/12/26	2022/12/25
DLF114	Temperature & Humidity Datalogger	2021/12/26	2022/12/25
DLF101	Goniophotometer	2021/12/26	2022/12/25
DLF125	Standard Lamp Standard Lamp Type: 76.58 V, 6.7875 A, Tungsten, Omni-derectional	2021/12/26	2022/12/25
DLF104	AC Power Source	2021/12/26	2022/12/25
DLF507	DC Power Source	2021/12/26	2022/12/25
DLF102	Power Meter	2021/12/26	2022/12/25
DLF111	Temperature & Humidity Datalogger	2021/12/26	2022/12/25
DLF119	Power Meter	2021/12/26	2022/12/25
DLF031	Temperature data logger	2021/12/26	2022/12/25
DLF022	Digital power meter	2021/12/26	2022/12/25
DLF003	Temperature & Humidity Datalogger	2021/12/26	2022/12/25

***** End of Test Report*****