

Photometric Test Report

Relevant Standards

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

Prepared For

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Issue Date

2022/7/30

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		5719
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Standard 105	Premium 120	142.3
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.2
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%	120V	5.49%
		20.00%	277V	10.91%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	120V	0.995
		0.9	277V	0.878
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	5029±355	4794
		4 step	5029±220	
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		0
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%		0.79%
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		0.337
(Goniophotometer - Section 4.2)		Non-Worst Case		0.164
Power (Input Wattage - W)				
(Goniophotometer - Section 4.2)	IES LM-79-2008	Worst Case		40.2
(Goniophotometer - Section 4.2)		Non-Worst Case		39.8

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2022/7/29	ALEDS3T	G1
2	Goniophotometer Test	2022/7/29	ALEDS3T	G1
3	THD and PF Test	2022/7/29	ALEDS3T	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.

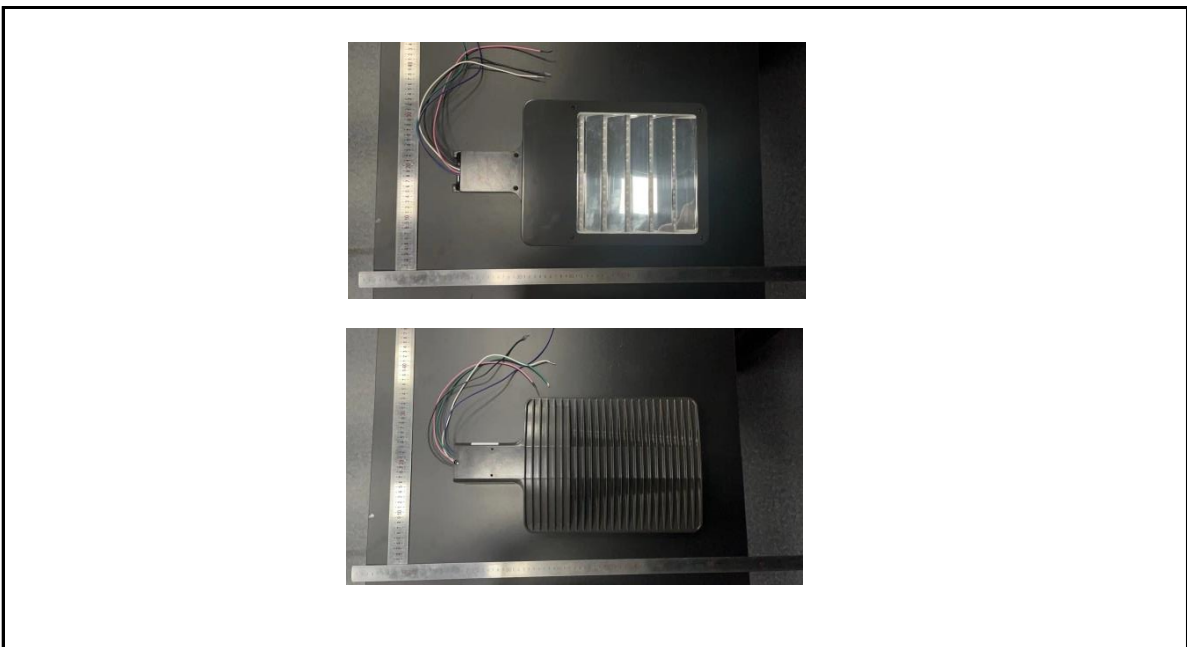
3.0 Production Description

Luminaire Description: ALEDS3T

Description: 40W @ 5000K

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.	ALEDS3T	Sample ID.	G1
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
120.00	60	0.337	40.2	0.995
277.00	60	0.164	39.8	0.878

Test Result

CCT (K)	CRI	R9	Duv
4794	82	0	0.0043

Rf	Rg	IES Rcs,h1
83	93	-13%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDS3T	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 ± 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	0.337	40.2	0.995
NON-WROST CASE	277.00	60	0.164	39.8	0.878

Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
5719	91.7	160.2	55.6	143.5	142.3

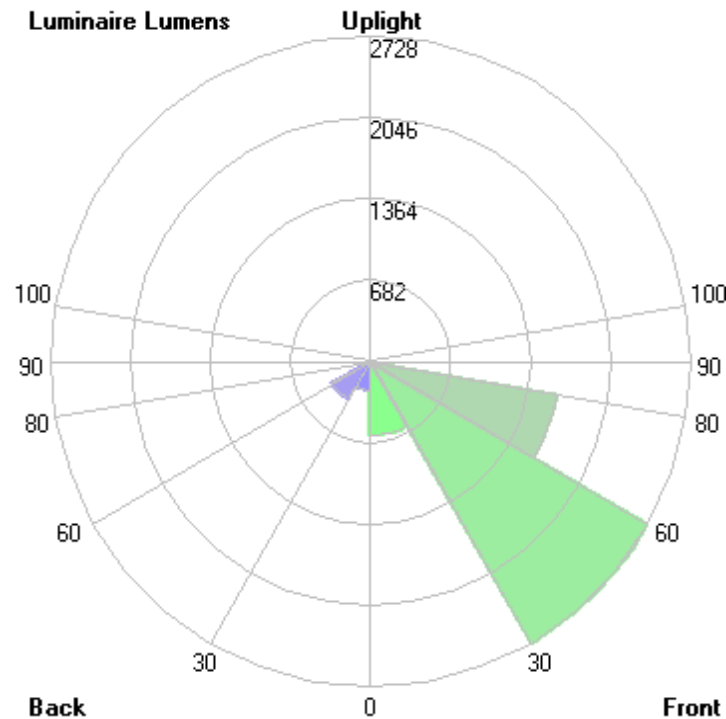
Zonal Lumen Requirement (0° - 90°)	Zonal Lumen Requirement (80° - 90°)	BUG rating
100.00%	0.79%	B1-U0-G1

4.2 Goniophotometer Test

	Zonal (lm)		Total (lm)	Percent
0-10	91.73	0 - 10	91.73	1.60%
10-20	265.76	0 - 20	357.49	6.25%
20-30	504.08	0 - 30	861.57	15.06%
30-40	818.49	0 - 40	1680.06	29.38%
40-50	1076.9	0 - 50	2756.96	48.21%
50-60	1204.82	0 - 60	3961.78	69.27%
60-70	1133.25	0 - 70	5095.03	89.09%
70-80	578.77	0 - 80	5673.80	99.21%
80-90	45.40	0 - 90	5719.20	100.00%
90-100	0.00	0 - 100	5719.20	100.00%
100-110	0.00	0 - 110	5719.20	100.00%
110-120	0.00	0 - 120	5719.20	100.00%
120-130	0.00	0 - 130	5719.20	100.00%
130-140	0.00	0 - 140	5719.20	100.00%
140-150	0.00	0 - 150	5719.20	100.00%
150-160	0.00	0 - 160	5719.20	100.00%
160-170	0.00	0 - 170	5719.20	100.00%
170-180	0.00	0 - 180	5719.20	100.00%

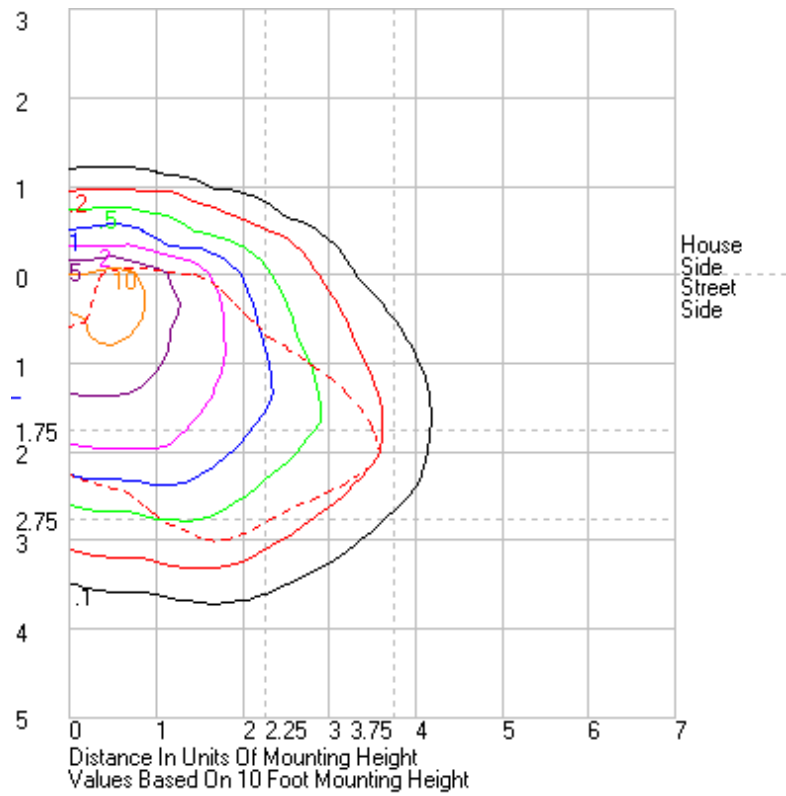
4.2 Goniophotometer Test

LCS/BUG



	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	620.0	N.A.	10.8
FM - Front-Medium (30-60)	2727.8	N.A.	47.7
FH - Front-High (60-80)	1609.0	N.A.	28.1
FVH - Front-Very High (80-90)	42.2	N.A.	0.7
BL - Back-Low (0-30)	241.6	N.A.	4.2
BM - Back-Medium (30-60)	372.4	N.A.	6.5
BH - Back-High (60-80)	103.1	N.A.	1.8
BVH - Back-Very High (80-90)	3.2	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	5719.3	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	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32	1007.32
1	1024.85	1024.32	1022.72	1020.52	1017.36	1013.47	1008.14	1002.49	996.994	991.053	986.66	983.588	982.268	983.588	986.66	991.053	996.994	1002.49	1008.14	1013.47	1017.36	1020.52	1022.72	1024.32	1024.85
2	1040.21	1038.21	1035.88	1031.5	1026.55	1019.35	1009.21	997.905	984.536	971.385	960.492	952.639	949.716	952.639	960.492	971.385	984.536	997.905	1009.21	1019.35	1026.55	1031.5	1035.88	1038.21	1040.21
3	1055.57	1053.56	1049.58	1043.38	1035.45	1025.89	1011.9	993.486	971.098	947.794	927.376	913.038	908.513	913.038	927.376	947.794	971.098	993.486	1011.9	1025.89	1035.45	1043.38	1049.58	1053.56	1055.57
4	1071.2	1068.78	1064.42	1056.85	1047.13	1034.03	1015.91	989.562	956.446	919.981	888.787	866.798	855.9	866.798	888.787	919.981	956.446	989.562	1015.91	1034.03	1047.13	1056.85	1064.42	1068.78	1071.2
5	1085.98	1083.25	1078.82	1071.37	1059.18	1042.48	1020.52	985.957	939.755	889.554	842.409	809.537	798.517	809.537	842.409	889.554	939.755	985.957	1020.52	1042.48	1059.18	1071.37	1078.82	1083.25	1085.98
6	1099.13	1096.94	1094.02	1086.85	1072.36	1051.92	1026.08	981.959	921.44	853.115	790.956	749.018	734.595	749.018	790.956	853.115	921.44	981.959	1026.08	1051.92	1072.36	1086.85	1094.02	1096.94	1099.13
7	1111.94	1109.67	1108.18	1101.97	1086.07	1063.05	1032.49	978.413	900.548	812.2	734.941	686.412	670.669	686.412	734.941	812.2	900.548	978.413	1032.49	1063.05	1086.07	1101.97	1108.18	1109.67	1111.94
8	1125.21	1123.01	1122.05	1116.74	1100.85	1074.87	1041.22	975.48	877.904	768.957	679.901	621.314	604.836	621.314	679.901	768.957	877.904	975.48	1041.22	1074.87	1100.85	1116.74	1122.05	1123.01	1125.21
9	1138.94	1137.4	1136.56	1131.08	1115.75	1091.35	1054.19	974.021	852.604	724.208	622.709	556.796	534.898	556.796	622.709	724.208	852.604	974.021	1054.19	1091.35	1115.75	1131.08	1136.56	1137.4	1138.94
10	1151.85	1151.44	1152.61	1147.2	1134.88	1112.47	1072.4	976.023	826.559	678.053	563.782	490.91	469.209	490.91	563.782	678.053	826.559	976.023	1072.4	1112.47	1134.88	1147.2	1152.61	1151.44	1151.85
11	1165.72	1165.55	1168.48	1164.23	1158.4	1139.79	1097.07	980.921	799.885	630.983	507.144	430.226	407.135	430.226	507.144	630.983	799.885	980.921	1097.07	1139.79	1158.4	1164.23	1168.48	1165.55	1165.72
12	1178.35	1179.19	1184.64	1184.32	1186.5	1174.01	1127.27	990.009	773.03	583.268	449.813	373.524	351.312	373.524	449.813	583.268	773.03	990.009	1127.27	1174.01	1186.5	1184.32	1184.64	1179.19	1178.35
13	1189.44	1191.54	1201.69	1209.04	1219.71	1211.79	1158.94	999.065	747.756	536.006	397.632	326.885	308.272	326.885	397.632	536.006	747.756	999.065	1158.94	1211.79	1219.71	1209.04	1201.69	1191.54	1189.44
14	1198.74	1202.62	1218.07	1236.38	1257.59	1253.04	1197.05	1008.57	721.524	489.638	351.828	290.191	271.818	290.191	351.828	489.638	721.524	1008.57	1197.05	1253.04	1257.59	1236.38	1218.07	1202.62	1198.74
15	1209.21	1212.82	1233.59	1268.27	1298.65	1301.77	1243.73	1022.58	694.542	445.075	317.834	259.306	245.649	259.306	317.834	445.075	694.542	1022.58	1243.73	1301.77	1298.65	1268.27	1233.59	1212.82	1209.21
16	1218.96	1225.46	1249.04	1302.93	1345.57	1360.77	1298.41	1040.53	668.597	405.213	286.693	237.552	227.42	237.552	286.693	405.213	668.597	1040.53	1298.41	1360.77	1345.57	1302.93	1249.04	1225.46	1218.96
17	1228.99	1236.48	1267.61	1338.69	1400.27	1426.25	1355.72	1061.56	643.723	368.866	261.052	223.916	215.84	223.916	261.052	368.866	643.723	1061.56	1355.72	1426.25	1400.27	1338.69	1267.61	1236.48	1228.99
18	1237.54	1247.73	1288.2	1375.81	1461.97	1488.43	1409.94	1078.96	616.139	342.82	244.782	214.743	207.369	214.743	244.782	342.82	616.139	1078.96	1409.94	1488.43	1461.97	1375.81	1288.2	1247.73	1237.54
19	1244.86	1258.68	1310.87	1416.25	1527.89	1549.74	1461.98	1091.4	587.57	316.332	234.458	207.481	199.974	207.481	234.458	316.332	587.57	1091.4	1461.98	1549.74	1527.89	1416.25	1310.87	1258.68	1244.86
20	1247.48	1266.15	1334.85	1463.94	1593.66	1608.15	1511.52	1100.38	557.574	294.717	227.526	200.693	192.941	200.693	227.526	294.717	557.574	1100.38	1511.52	1608.15	1593.66	1463.94	1334.85	1266.15	1247.48
21	1249.86	1272.81	1360.52	1519.43	1656.6	1664.03	1559.27	1103.31	524.708	279.165	222.777	194.128	186.168	194.128	222.777	279.165	524.708	1103.31	1559.27	1664.03	1656.6	1519.43	1360.52	1272.81	1249.86
22	1257.5	1279.38	1386.79	1578.84	1720.73	1718.97	1604.87	1103.53	493.407	269.906	217.496	187.34	178.661	187.34	217.496	269.906	493.407	1103.53	1604.87	1718.97	1720.73	1578.84	1386.79	1279.38	1257.5
23	1269.68	1292.75	1413.79	1642.67	1783.03	1772.71	1651.71	1100.92	463.331	264.279	212.784	180.173	171.532	180.173	212.784	264.279	463.331	1100.92	1651.71	1772.71	1783.03	1642.67	1413.79	1292.75	1269.68
24	1283.73	1309.48	1442.3	1701.89	1844.21	1828.25	1699.7	1094.6	434.581	261.047	207.582	173.364	163.445	173.364	207.582	261.047	434.581	1094.6	1699.7	1828.25	1844.21	1701.89	1442.3	1309.48	1283.73
25	1302.77	1328.66	1476.66	1759.36	1902.5	1888.09	1748.06	1085.58	407.508	258.576	201.965	165.255	155.267	165.255	201.965	258.576	407.508	1085.58	1748.06	1888.09	1902.5	1759.36	1476.66	1328.66	1302.77
26	1321.69	1352.36	1517.84	1814.88	1961.19	1947.43	1799.26	1073.75	382.538	256.564	196.801	157.605	147.925	157.605	196.801	256.564	382.538	1073.75	1799.26	1947.43	1961.19	1814.88	1517.84	1352.36	1321.69
27	1339.02	1375.79	1562	1869.49	2022.53	2008.99	1847.44	1058.89	361.864	254.509	190.3	150.827	141.749	150.827	190.3	254.509	361.864	1058.89	1847.44	2008.99	2022.53	1869.49	1562	1375.79	1339.02
28	1357.9	1400.75	1612.92	1928.18	2088.68	2072.22	1896.89	1040.98	345.658	251.895	183.73	144.97	136.297	144.97	183.73	251.895	345.658	1040.98	1896.89	2072.22	2088.68	1928.18	1612.92	1400.75	1357.9
29	1377.91	1427.53	1665.92	1990.33	2157.86	2137.63	1942.85	1018.73	330.511	248.455	178.118	140.072	131.91	140.072	178.118	248.455	330.511	1018.73	1942.85	2137.63	2157.86	1990.33	1665.92	1427.53	1377.91
30	1410.36	1461.28	1717.85	2051.21	2227.81	2200.19	1981.16	992.666	319.426	244.803	172.842	136.148	128.673	136.148	172.842	244.803	319.426	992.666	1981.16	2200.19	2227.81	2051.21	1717.85	1461.28	1410.36
31	1459.55	1504.44	1767.26	2113.52	2298.83	2258.04	2015.8	960.359	312.472	240.831	169.169	133.417	125.415	133.417	169.169	240.831	312.472	960.359	2015.8	2258.04	2298.83	2113.52	1767.26	1504.44	1459.55
32	1520.22	1558.4	1814.04	2176.36	2369.14	2310.09	2041.76	922.292	310.178	236.013	165.926	130.515	122.37	130.515	165.926	236.013	310.178	922.292	2041.76	2310.09	2369.14	2176.36	1814.04	1558.4	1520.22
33	1595.89	1626.59	1863.5	2239.84	2438.08	2354.87	2061.2	879.747	310.023	230.092	164.286	127.624	119.058	127.624	164.286	230.092	310.023	879.747	2061.2	2354.87	2438.08	2239.84	1863.5	1626.59	1595.89
34	1674	1702.33	1913.43	2303.93	2499.85	2392.3	2070.17	834.204	310.151	224.603	163.227	123.977	112.674	123.977	163.227	224.603	310.151	834.204	2070.17	2392.3	2499.85	2303.93	1913.43	1702.33	1674
35	1755.07	1784.25	1970.13	2364.38	2555.38	2420.42	2068.62	788.108	310.151	219.093	161.874	118.132	104.779	118.132	161.874	219.093	310.151	788.108	2068.62	2420.42	2555.38	2364.38	1970.13	1784.25	1755.07
36	1837.85	1862.63	2031.84	2419.17	2606.89	2437.83	2057.99	741.825	309.981	214.855	160.389	110.342	95.882	110.342	160.389	214.855	309.981	741.825	2057.99	2437.83	2606.89	2419.17	2031.84	1862.63	1837.85
37	1904.99	1939.9	2101.04	2466.31	2653.04	2448.84	2039.2	694.393	309.193	211.554	156.833	101.35	86.373	101.35	156.833	211.554	309.193	694.393	2039.2	2448.84	2653.04	2466.31	2101.04	1939.9	1904.99
38	1969.13	2011.43	2178.78	2507.51	2693.87	2453.3	2014.31	649.329	307.436	209.584	150.353	91.756	76.923	91.756											

Page 10 of 14

Page 11 of 14

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
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.	ALEDS3T	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	0.337	40.2	0.995	5.49%
277.00	60	0.164	39.8	0.878	10.91%

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*****