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

Project Number
DLF2111105

Report Number
DLF2111105-24a

Test Date
2021/11/9

Issue Date
2021/11/12

Prepared By	**Approved By**
Wangzun Zhu	Kevin Jia

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		49627
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		355.9
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	20.00%		5.70%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9		0.934
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	5029±355	5057
		4 step	5029±220	
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	⩾70		85
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	⩾-40		16
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
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%		0.71%
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		0.796

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2021/11/9	ALEDXL4T/480	X1
2	Goniophotometer Test	2021/11/9	ALEDXL4T/480	X1
3	THD and PF Test	2021/11/9	ALEDXL4T/480	X1

Remark(If any)
1、This report shall not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the US government.
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.

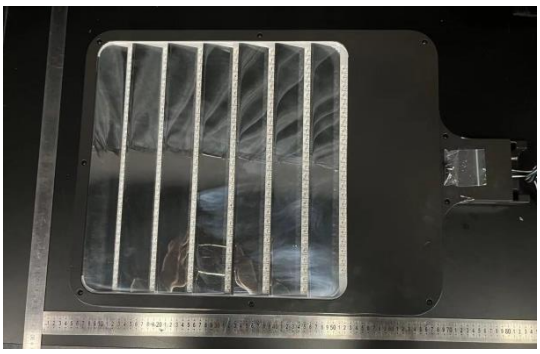
3.0 Production Description

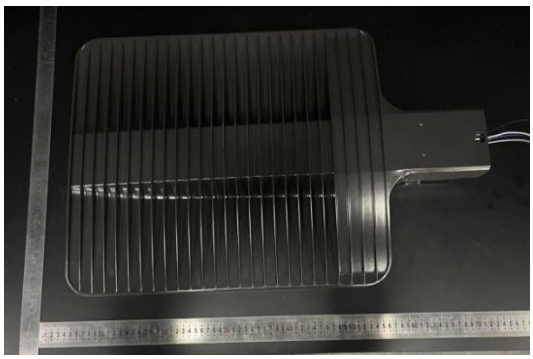
Luminaire Description: ALEDXL4T/480

Description: 385W/50,000 lm @ 5000K

Electrical Specification: 480V,50/60HZ

Photos of Luminaire Characteristics





4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	ALEDXL4T/480	Sample ID.	X1
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 25º C ± 1º 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
479.97	60	0.795	356.3	0.934

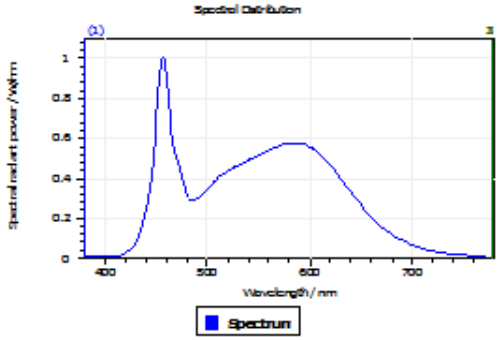
Test Result

CCT (K)	CRI	R9	Duv
5057	85	16	0.00059

Rf	Rg	IES Rcs,h1
83	93	-12%

4.1 Integrating Sphere Test

Results



Spectral Distribution

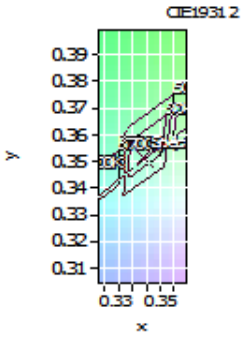
Spectral values

DominantWavelength	571.31 nm
Purity	0.086
PeakWavelength	456.82 nm
Radiant Power	113.5 W
Width50%:	

Color Coordinates

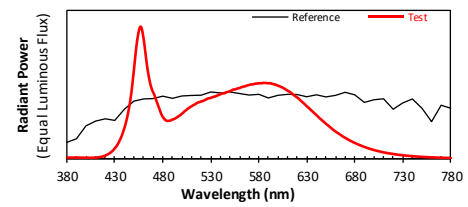
Correlated Color Temperat		5057 K			
x:	0.3436	u:	0.2104	u':	0.2104
y:	0.3516	v:	0.3230	v':	0.4845

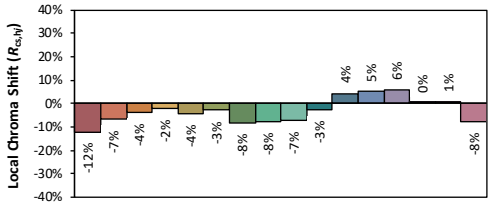
CRI01	84.5	CRI09	16.3
CRI02	93.7	CRI10	83.1
CRI03	94.9	CRI11	80.3
CRI04	81.1	CRI12	62.8
CRI05	83.7	CRI13	87.8
CRI06	88.1	CRI14	98.1
CRI07	85.5	CRI15	79.9
CRI08	68.0	CRI16	75.1
ResultsCRI	85.0		

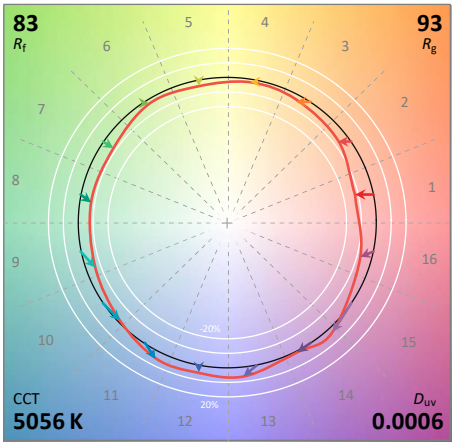


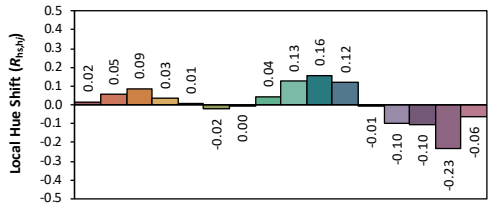
PlanckDistance 5.9E-004

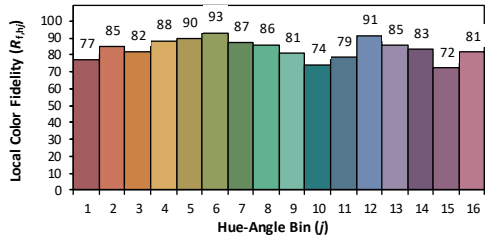
4.1 Integrating Sphere Test

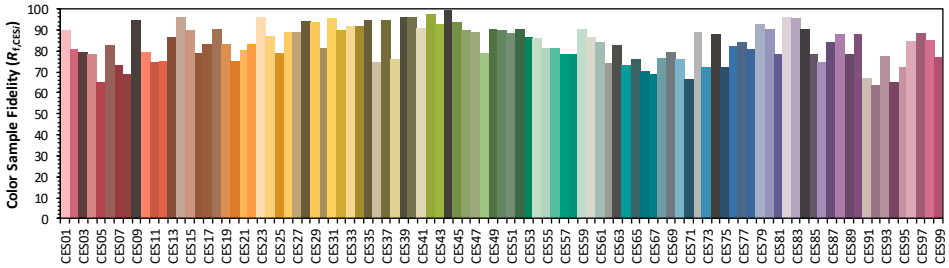












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3436
y	0.3516
u'	0.2104
v'	0.4845

CIE 13.3-1995 (CRI)

R_a	85
R_9	14

lors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.0

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	ALEDXL4T/480	Sample ID.	X1
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° C ± 1° 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^{o} vertical intervals and 10^{o} horizontal intervals.

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	479.90	60	0.796	355.9	0.931

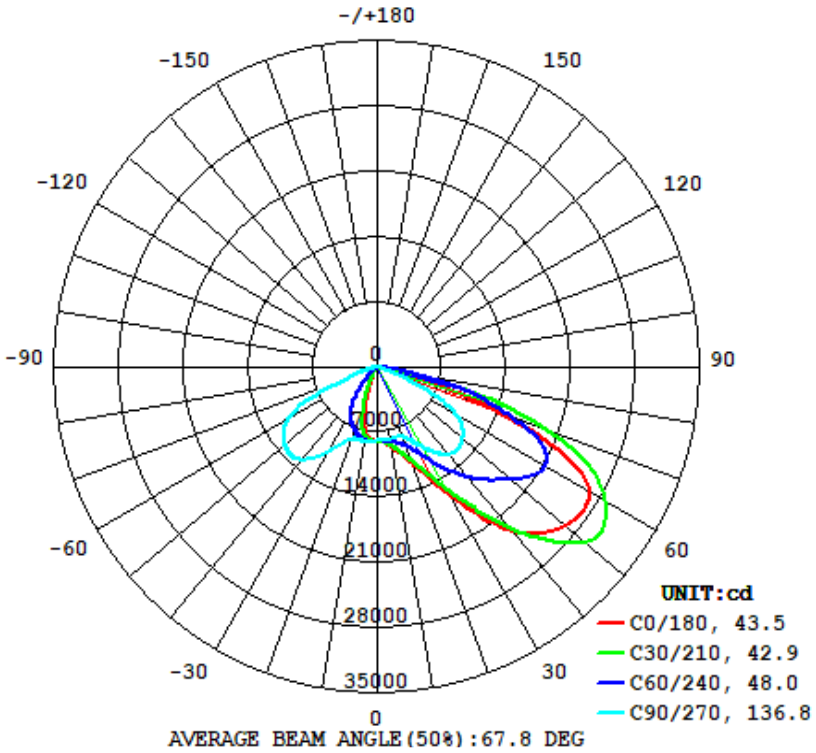
Test Result

Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
49627	98.4	150.7	43.5	136.8	139.5

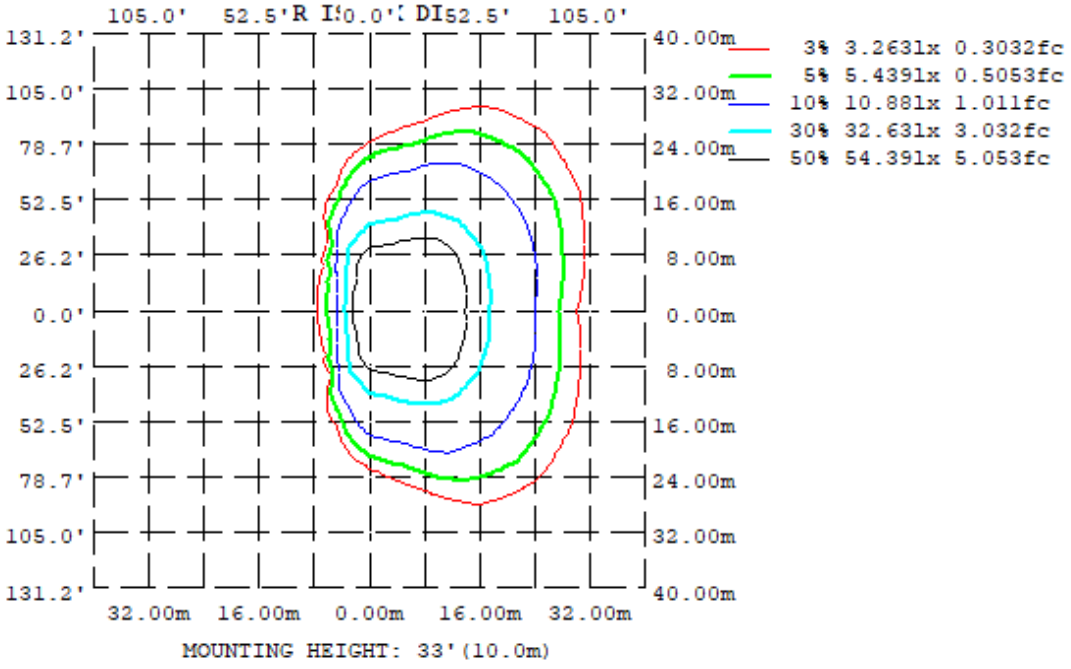
Zonal Lumen Requirement (0°-90°)	Zonal Lumen Requirement (80°-90°)	BUG rating
100.00%	0.71%	B3-U0-G5

4.2 Goniophotometer Test

Light Distrubtion Curve



Isolux Plot



4.2 Goniophotometer Test

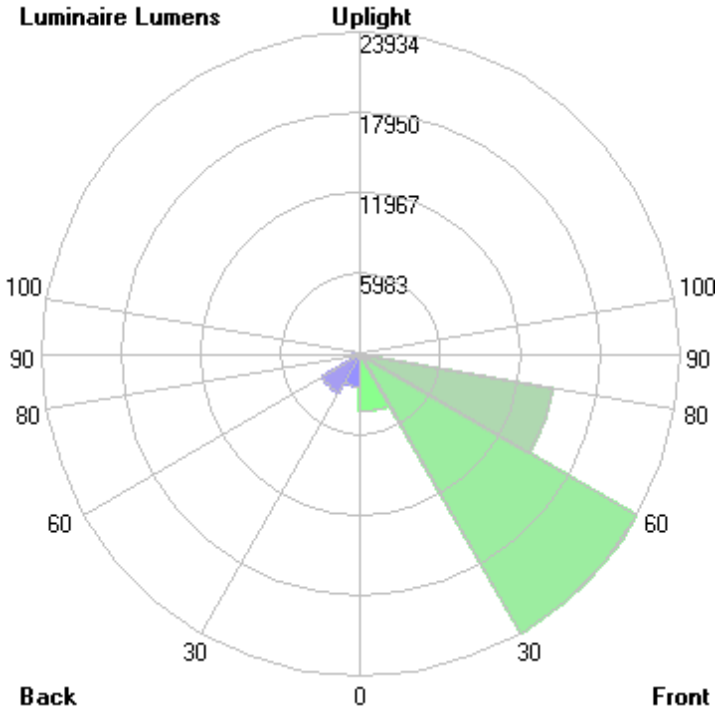
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315
10	865.3	840.1	797.3	767.5	731.9	786.8	817.5	842.5
20	1089	986.9	804.8	557.9	325.9	587.8	828.0	1011
30	1578	1338	1001	236.7	91.82	259.8	1038	1377
40	2303	1903	1227	83.69	53.61	93.38	1306	1964
50	2655	2562	1216	49.18	21.81	56.48	1310	2672
60	2662	2682	972.4	20.80	9.991	25.70	1113	2935
70	1338	2000	206.1	11.89	6.773	13.74	360.3	2274
80	86.88	355.7	40.61	5.898	3.645	7.348	55.20	587.5
90	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0
DEG	LUMINOUS INTENSITY:×10cd							

	Zonal (lm)		Total (lm)	Percent
0-10	766.43	0 - 10	766.43	1.54%
10-20	2236.30	0 - 20	3002.73	6.05%
20-30	3740.37	0 - 30	6743.10	13.59%
30-40	6299.48	0 - 40	13042.58	26.28%
40-50	9403.34	0 - 50	22445.92	45.23%
50-60	11558.73	0 - 60	34004.65	68.52%
60-70	10515.16	0 - 70	44519.81	89.71%
70-80	4752.67	0 - 80	49272.48	99.29%
80-90	354.31	0 - 90	49626.79	100.00%
90-100	0.00	0 - 100	49626.79	100.00%
100-110	0.00	0 - 110	49626.79	100.00%
110-120	0.00	0 - 120	49626.79	100.00%
120-130	0.00	0 - 130	49626.79	100.00%
130-140	0.00	0 - 140	49626.79	100.00%
140-150	0.00	0 - 150	49626.79	100.00%
150-160	0.00	0 - 160	49626.79	100.00%
160-170	0.00	0 - 170	49626.79	100.00%
170-180	0.00	0 - 180	49626.79	100.00%

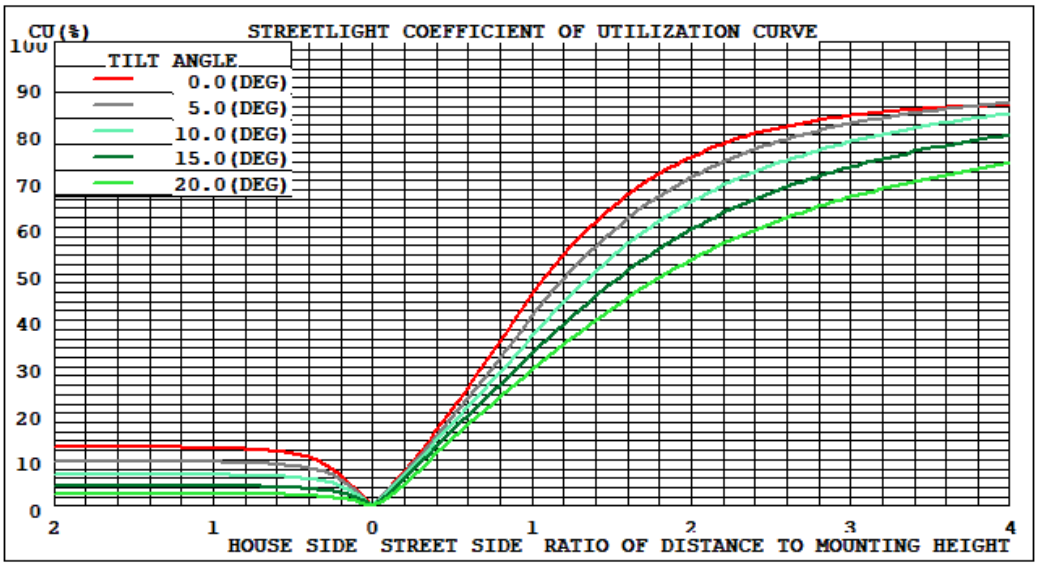
4.2 Goniophotometer Test

LCS/BUG

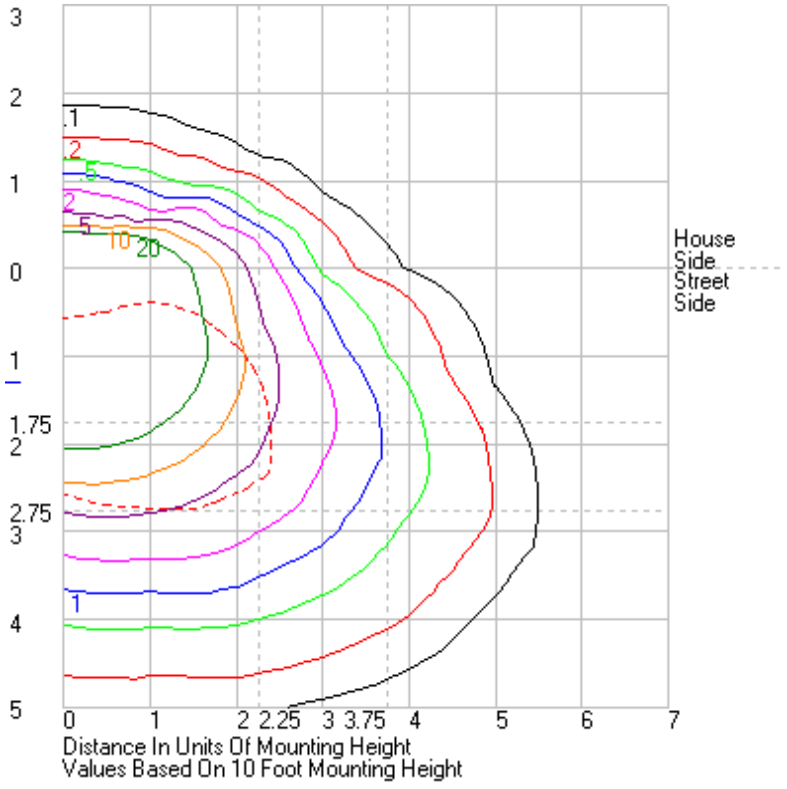


	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4316.2	N.A.	8.7
FM - Front-Medium (30-60)	23933.9	N.A.	48.2
FH - Front-High (60-80)	14667.7	N.A.	29.6
FVH - Front-Very High (80-90)	325.2	N.A.	0.7
BL - Back-Low (0-30)	2426.9	N.A.	4.9
BM - Back-Medium (30-60)	3327.7	N.A.	6.7
BH - Back-High (60-80)	600.1	N.A.	1.2
BVH - Back-Very High (80-90)	29.1	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	49626.8	N.A.	100.0
BUG Rating	B3-U0-G5		

Coefficients of Utilization



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	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27	7985.27
1	7978.51	7975.6	7973.07	7971.01	7970.2	7971.16	7971.84	7930.97	7928.75	7931.03	7935.01	7935.39	8000.93	7999.42	7997.34	7992.49	7989.89	7985.23	7981.52	7933.34	7926.63	7919.85	7917.68	7917.6	7978.51
2	7982.19	7978.99	7975.75	7972.5	7970.69	7970.25	7972.04	7933.33	7937.78	7942.18	7948.99	7951.05	8018.87	8018.78	8018.79	8014.25	8008.25	8001.92	7994.12	7942.43	7933.66	7926.59	7922.31	7920.03	7982.19
3	8001.15	7995.08	7988.72	7980.95	7976.62	7974.43	7975.57	7937.8	7946.65	7947.93	7953.56	7953.57	8024.51	8027.59	8032.99	8034.56	8031.32	8022.41	8012.72	7958.31	7947.19	7940.09	7938.15	7936.36	8001.15
4	8044.02	8036.17	8021.94	8002.57	7988.47	7982.16	7980.58	7944.29	7953.5	7946.29	7947.11	7942.77	8014.33	8023.5	8036.76	8050.21	8055.21	8046	8034.96	7978.3	7972.1	7967.94	7970.51	7974.57	8044.02
5	8104.89	8093.23	8072.12	8040.67	8009.13	7992.58	7987.04	7953.47	7955.8	7944.66	7927.08	7904.44	7976.21	7994.75	8027.61	8057.61	8075.83	8072.44	8059.9	8001.39	7997.27	8006.38	8019.47	8023.73	8104.89
6	8184.08	8170.8	8139.89	8091.84	8036.38	8004.61	7991.41	7955.72	7951.41	7924.53	7878.05	7839.41	7910.75	7938.32	7992.9	8053.63	8090.84	8098.39	8087.13	8035	8039.78	8068.07	8086.73	8100.09	8184.08
7	8275.74	8262.77	8224.55	8153.91	8072.58	8014.39	7992.57	7958.05	7942.61	7886.4	7811.41	7748.58	7816.17	7855.78	7939.34	8033.11	8100.85	8121.19	8113.91	8069.17	8094.29	8137.98	8174.47	8189.39	8275.74
8	8385.58	8367.35	8319.18	8229.26	8111.94	8022.61	7990.83	7951.37	7922.11	7830.48	7720.73	7631.23	7690.96	7741.95	7860.84	7995.44	8102.6	8141.77	8138.25	8104.3	8154.24	8221.46	8272.89	8292.9	8385.58
9	8510	8492.98	8430.92	8314.2	8153.94	8030.17	7983.45	7940.37	7888.5	7763	7605.27	7479.45	7523.58	7592.8	7753.95	7941.61	8091.86	8156.16	8159.49	8137.92	8220.45	8320.51	8380.72	8415.96	8510
10	8652.76	8630.76	8554.76	8401.07	8198.95	8034.05	7972.97	7922.46	7842.17	7674.67	7458.05	7289.92	7318.6	7405.08	7622.68	7868.15	8067.53	8163.02	8174.73	8172.43	8290.43	8424.51	8514.26	8551.51	8652.76
11	8811.26	8791.61	8698.46	8500.34	8249.56	8036.18	7957.48	7899.62	7783.75	7560.27	7280.09	7051.76	7072.73	7183.07	7450.43	7772.98	8031.13	8161.58	8183.59	8203.67	8363.42	8543.36	8657.2	8708.18	8811.26
12	8980.97	8955.78	8851.28	8608.74	8300.53	8039.5	7941.07	7873.27	7717.76	7426.68	7075.42	6793.08	6789.19	6919.36	7250.32	7655.87	7983.71	8154.61	8188.74	8229.99	8442.56	8666.77	8821.55	8875.02	8980.97
13	9164.75	9138.95	9019.43	8726.71	8354.15	8045.45	7926.74	7844.19	7643.99	7272.39	6834.75	6472.1	6437.17	6604.67	7016.26	7510.44	7926.06	8141.5	8187.36	8255.25	8522.36	8805.81	8997.98	9059.36	9164.75
14	9352.37	9330.77	9197.01	8857.28	8414.34	8052.53	7910.82	7816.76	7553.7	7091.05	6546.01	6095.73	6034.94	6237.34	6749.22	7350.01	7859.47	8122.07	8182.07	8284.48	8601.99	8956.64	9188.63	9254.97	9352.37
15	9556.32	9532.65	9383.64	8992.61	8478.96	8061.2	7898.26	7789.91	7467.29	6893.15	6226.08	5719.37	5593.53	5834.34	6437.52	7166.38	7778.06	8099.95	8176.89	8306.93	8686.78	9113.87	9396.19	9463.49	9556.32
16	9778.33	9754.66	9591.84	9139.51	8552.9	8078.62	7898.02	7767.53	7368.8	6674.96	5906.15	5271.73	5121.68	5380	6079.88	6954.9	7684.82	8078.24	8174.75	8335.65	8777.59	9290.92	9619.79	9692.87	9778.33
17	10018.1	9993.22	9808.22	9298.83	8635.32	8111.09	7913.02	7756.04	7262.2	6425.97	5510.43	4817.6	4657.21	4930.12	5696.28	6737.87	7585.79	8061.35	8179.3	8369.77	8879.9	9472.88	9854.35	9935.19	10018.1
18	10287.3	10256	10047	9476.32	8733.68	8158.09	7940.14	7753.54	7152.25	6176.46	5092.18	4362.47	4180.21	4470.15	5286.91	6478.75	7480.06	8050.11	8193.14	8418.87	8996.85	9668.08	10104.8	10208.2	10287.3
19	10581	10543	10302.2	9663.9	8850	8224.1	7984.5	7760.07	7040.47	5899.13	4671.94	3899.13	3706.96	4000.56	4868.57	6187.56	7365.94	8050.41	8225.88	8480.23	9119.83	9878.22	10376.2	10500.9	10581
20	10893.3	10861.3	10582.2	9868.71	8985.91	8309.73	8048.05	7782.51	6925.55	5579.1	4249.58	3449.88	3259.26	3549.87	4457.54	5877.68	7254.42	8066.47	8279.6	8560.88	9264.13	10105.5	10673.5	10827.1	10893.3
21	11237	11207.9	10888.8	10101.6	9146.41	8419.81	8136.35	7823.05	6809.67	5238.9	3825.65	3029.71	2835.37	3134.17	4032.37	5552.74	7139.62	8099	8359.28	8669.22	9434.55	10349.1	11004.3	11170.2	11237
22	11609.4	11575.5	11221	10352.9	9326.14	8554.46	8252.22	7885.42	6695.93	4901.61	3428.63	2623.93	2437.56	2721.48	3620.01	5207.77	7019.49	8154.55	8469.24	8807.79	9627.48	10618.6	11349.2	11542.6	11609.4
23	12013.9	11989	11590.7	10636.4	9532.65	8713.44	8401.05	7964.68	6686.42	4564.06	3047.67	2252.85	2080.67	2349.39	3230.17	4863.17	6903.43	8236.06	8606.34	8975	9849.63	10920.1	11737.1	11948.9	12013.9
24	12456.1	12435.6	12001.7	10948.5	9769.52	8902.82	8570.45	8058.47	6501.77	4225.93	2676.7	1920.3	1774.88	2018.15	2859.27	4518.31	6792.76	8334.63	8778.33	9166.75	10100.7	11247.4	12152.3	12390.1	12456.1
25	12927.7	12921	12443.9	11280	10022.7	9107.94	8758.47	8168.78	6335.39	3890	2338.1	1636.33	1544.21	1727.44	2499.15	4168.39	6663.07	8455.89	8983.62	9390.6	10373.1	11600.1	12595.3	12863.4	12927.7
26	13415.5	13414.3	12915.9	11642.4	10312.8	9343.28	8977.55	8286.8	6170.94	3554.61	2033.83	1402.69	1358.59	1508.41	2181.64	3825.6	6517.55	8599.41	9217.41	9640.09	10670.5	11987.8	13083.7	13378.4	13415.5
27	13953.9	13961.9	13409.9	12030.7	10622.9	9601.14	9212.33	8416.49	6000.28	3240.33	1757.15	1228.54	1174.09	1326.09	1890.77	3500.37	6366.82	8756.84	9474.48	9914.88	10994.1	12389.3	13597.2	13922.7	13953.9
28	14512.1	14531.9	13942.3	12456.3	10956.1	9882.21	9465.03	8550.78	5812.52	2935.63	1520.74	1097.42	1061.55	1171.26	1643.53	3190.43	6197.33	8928.43	9754.49	10216.9	11344	12820.1	14143	14523	14512.1
29	15126.7	15161.8	14486.7	12892.2	11302.2	10178.8	9734.63	8679.13	5612.42	2648.86	1331.98	999.06	974.65	1062.2	1474.25	2885.78	6017	9116.19	10055.7	10529	11705	13286.9	14726.5	15144	15126.7
30	15782.3	15830.2	15081.5	13375.4	11659.6	10492.3	10010.4	8813.26	5388.95	2366.66	1182.65	929.42	918.19	979.7	1304.97	2597.7	5831.2	9299.85	10380.8	10860.6	12097	13772.8	15340.4	15809.8	15782.3
31	16469.8	16544.9	15706.6	13851.9	12034.9	10812.3	10293.1	8934.53	5159.26	2112.53	1070.08	877.99	870.15	922.61	1162.73	2330.48	5621.98	9480.3	10707	11209.8	12492.5	14270.7	15975.4	16502.4	16469.8
32	17200.3	17305.4	16381.7	14318	12408.8	11136.2	10577.1	9047.12	4916.3	1869.03	980.3	834.31	828.83	875.13	1059.84	2077.41	5398.45	9654.09	11027.1	11554	12886.5	14801.8	16639.2	17256.6	17200.3
33	17957.5	18091.5	17068	14838	12797.5	11457.8	10851.3	9145.88	4662.89	1640.66	914.28	794.98	786.5	834.27	981.88	1838.97	5170.86	9805.03	11349.9	11908.5	13305.9	15337.2	17347.9	18030.2	17957.5
34	18735.4	18905.2	17789.4	15365.3	13203.8	11770.8	11115.1	9221.83	4407.24	1440.44	863.71	758.13	748.5	794.86	926.99	1625.39	4933.29	9936.87	11653.2	12254.9	13729.5	15893.8	18091.6	18828.7	18735.4
35	19519.8	19748.1	18543.1	15927	13584.8	12078.8	11365.1	9269.48	4139.17	1272.49	821.7	721.6	711.68	757.16	883.01	1470.11	4684.07	10047.8	11940.3	12592.3	14147.9	16475	18858.1	19658.7	19519.8
36	20279.2	20575.2	19326.4	16498.3	13964.8	12378.7	11596.4	9292.45	3871.93	1146.91	784.5	686.5	674.8	721.83	843.43	1314.82	4424.98	10127.2	12215.2	12919.4	14578.2	17067.6	19649.5	20503.9	20279.2
37	21030.5	21418.4	20141.5	17114.4	14366.9	12661.5	11811.4	9293.05	3596.97	1036.24	749.03	652.9	639.12	685.73	807.94	1178.91	4163.53	10176.2	12463.8	13232.3	14987.4	17687.4	20485.8	21340.3	21030.5
38	21748.5	22207.8	20949.3	17736.8	14775	12929.5	11995.3	9255.63	3317.75	951.32	714.45	619.8	604.61	650.4	772.7	1075.09	3894.57	10193.2	12689.7	13529.1	15414.3	18318.3	21331	22175.7	21748.5
39	22415	22997.4	21784.8	18369.3	15168.3	13168.1	12141.6	9191.25	3049.61	887.31	680.82	586.7	570.16	615.44	738.04	993.55	3610.67	10179.9	12891.5	13809.6	15827.9	18975.3	22178.6	22975.3	22415
40	23034.1	23743.4	22605.7	19031.6	15575.6	13385.6	12266.3	9086.39	2777.49	836.89	644.93	553.55	536.1	581.83	703.58	933.79	3328.06	10131	13057.4	14067.5	16235.8	19644.8	23046.2	23734.8	23034.1
41	23598.2	24445.1	23399.3	19692.3	15940.4	13533.7	12357.1	8944.62	2516.74	797.57	614.73	520.78	503.32	548.65	669.8	886.62	3035.57	10042	13191.1	14291.5	16640.5	20326.7	23888.6	24462.9	23598.2
42	24080.8	25095.8	24186.8	20386.3	16294.1	13679.9	12417	8760.9	2246.51	759.66	583.76	488.13	470.49	515.9	635.71	846.56	2749.47	9915.23	13294.5	14487.3	17034.9	21016.6	24709.2	25137.8	24080.8
43	24513.3	25678.3	24940.3	21065	16629.8	13804.1	12453.3	8543.82	1980.12	724.93	551.7	456.26	438.34	483.79	602.4	810.02	2472.07	9746.17	13355.9	14649.3	17411.5	21729.7	25498.2	25734.4	24513.3
44	24905.1	26195.9	25689.9	21767.3	16944.8	13911.4	12466.1	8297.27	1720.95	689.31	520.6	425.28	406.77	452.45	569.76	774.87	2193.72	9530.16	13383.7	14782.9	17781.3	22442	26256.1	26295.1	24905.1
45	25246.7	26662.9	26397	22474.6	17250.2	14007.8	12461.9	8008.52	1471.37	655.54	488.99	393.99	375.54	420.82	537.93	739.56	1911.72	9278.74	13382.9	14887.7	18136.6	23174.2	27000.1	26808.7	25246.7
46	25557.1	27079.1	27073.6	23142.4	17558.5	14098.6	12443.5	7707.14	1267.08	622.24	458.23	363.26	344.02	390.09	506.61	704.29	1652.57	8993.36	13355.7	14972.9	18474.2	23890.5	27707.6	27282.5	25557.1
47	25851.2	27447.5	27709.9	23820	17874.8	14184.1	12402.2	7372.75	1096.21	588.94	426.55	332.48	312.62	359.05	475.61	668.93	1461.17	8673.56	13310.4	15049	18802.8	24612.4	28378.3	27693.7	25851.2
48	26133.7	27776	28293.5	24451.8	18196.5	14255	12341.4	7035.42	975.19	556.35	396.03	301.21	280.29	328.02	444.13	632.95	1269.77	8331.83	13248.7	15111.6	19128	25337.3	28998	28071.3	26133.7
49	26367.8	28061.4	28806.9	25050.9	18527	14311.1	12260.4	6681.15	882.72	523.83	365.38	268.92	247.61	295.92	412.72	598.42	1105.73	7964.4	13183.1	15169.2	19466.3	26046.9	29568.8	28409.9	26367.8
50	26550.9	28275.6	29253.4	25616.2	18872.6	14349.3	12162.9	6323.82	813.99	491.8	334.8	238.07	218.12	263.47	382.48	564.78	997.21	7589.79	13101	15220.2	19799.1	26720.5	30088.6	28682.1	26550.9

51	26716.6	28409.3	29619	26135.3	19200.3	14382.8	12062.4	5966.32	762.47	460.46	304.53	209.91	192.8	233.66	351.08	532.51	910.98	7209.09	13001.1	15265.2	20145.4	27372.7	30543.9	28875.5	26716.6
52	26883	28511.6	29887.7	26596.7	19523.6	14414.5	11938.1	5595.22	718.88	428.48	272.51	185.65	172.51	207.35	319.12	500.44	845.06	6818.17	12883.5	15300.7	20499.8	27986.6	30933.2	29021	26883
53	27007	28604.2	30042.9	27017.9	19834.9	14434.7	11796.6	5233.72	681.42	397.71	243.18	166.89	156.46	185.89	287.46	468.68	795.03	6416.55	12748.8	15313.9	20843.7	28520.8	31198.2	29155.6	27007
54	27099.1	28653.6	30068	27373.6	20120.6	14441.8	11628.6	4855.76	641.22	367.57	216.59	150.6	140.42	167.71	257.61	436.57	752.66	6014.64	12595.9	15316	21184.2	28984.4	31367.8	29277.3	27099.1
55	27178.7	28685.1	29993.7	27602.5	20398.1	14410.9	11417.2	4481.05	607.87	337.96	192.57	136.16	127.01	153.45	230.59	405.87	713.12	5615.88	12435.3	15304.7	21498.8	29351.3	31450.4	29355.1	27178.7
56	27189.2	28681.6	29832.5	27707.1	20653.6	14338.1	11184.9	4122.72	573.27	308.5	173.67	125.99	117.97	139.26	205.6	375.07	675.22	5220.23	12246.8	15273.1	21776.4	29603.7	31454.2	29412.3	27189.2
57	27166.8	28631.1	29601.6	27699.3	20866.2	14199.5	10895.2	3759.81	535.33	279.8	159	119.03	112.08	130.3	186.15	344.46	636.32	4821.21	12027.9	15210.4	22027.5	29741.2	31387.2	29419.6	27166.8
58	27116	28560.2	29315.6	27554.9	21022.4	14015.8	10559.7	3405.17	500.98	253.62	146.86	114.27	107.46	124.03	170.61	313.39	596.32	4422.89	11776.3	15104.4	22251.6	29748.5	31265.3	29364.5	27116
59	26924.7	28390.7	28982.2	27254.2	21098.5	13754.7	10173.9	3047.14	467.11	229.18	138.71	110.32	103.52	119.25	158.44	283.58	558.22	4041.27	11478.8	14963.3	22423.6	29617	31063.6	29287.9	26924.7
60	26624.7	28129.8	28598.8	26823.6	21105.6	13433.9	9724.19	2711.06	436.07	207.97	133.31	106.82	99.91	115.34	151.05	257.03	521.66	3656.67	11129.5	14775.4	22543	29347.9	30767.9	29084.8	26624.7
61	26183	27762.6	28127	26258.8	21042.1	13027.8	9182.06	2379.22	405.42	188.35	128.92	103.61	96.45	111.53	143.71	232.65	486.99	3276.14	10720.6	14507.1	22593.4	28959	30422.6	28769.5	26183
62	25488.1	27235.3	27566.7	25675.2	20886.8	12523	8564.59	2049.03	374.91	173.11	124.92	100.38	93.1	107.94	138.65	211.57	454.89	2922.44	10250.2	14159.9	22592.4	28455.1	29976.7	28338.2	25488.1
63	24600.7	26495.3	26953.8	25059.3	20647.2	11935.5	7852.13	1761.63	345.43	161.89	121.1	97.19	89.8	104.54	134.4	193.92	422.68	2565.79	9702.32	13762	22510.4	27903.9	29388.1	27648.4	24600.7
64	23553.1	25602.3	26270.2	24425.2	20279.7	11246	7020.96	1484.66	316.7	154.01	117.31	94.03	86.66	101.12	130.27	180.95	390.7	2225.6	9056.75	13306.6	22290.8	27279	28766	26779	23553.1
65	22322.4	24538.5	25419.1	23817.1	19801.9	10464.4	6114.97	1234.88	289.49	147.64	113.55	90.84	83.38	97.63	126.01	170.45	360.24	1900.42	8284.88	12760.9	21933.6	26602.1	28038.6	25762.3	22322.4
66	20875.5	23294.2	24437.9	23158.1	19152.3	9672.5	5168	1017.9	263.44	141.64	109.73	87.62	80.25	94.21	121.92	163	329.78	1624.08	7414.9	12059.4	21458.1	25946.3	27103	24580.8	20875.5
67	19209.1	21871.5	23386.6	22524.3	18341	8915.54	4253.29	830.21	240.8	135.96	106.07	84.53	77.21	90.9	117.77	156.43	301.13	1368.98	6429.93	11276.3	20838.5	25217.1	26094.3	23211.4	19209.1
68	17350.6	20237.7	22203.3	21838.5	17322.8	8153.07	3458.03	679.38	219.73	130.26	102.29	81.34	74.11	87.52	113.62	150.01	274.66	1114.85	5403.75	10438.6	20090.2	24447.2	24980.3	21653.5	17350.6
69	15371.2	18429.5	20932.4	21012.7	16230.8	7366.3	2710.59	593.15	200.95	124.61	98.52	78.19	70.97	84.1	109.51	143.6	250.96	915.92	4473.65	9640.79	19239.2	23672.3	23765	19861.8	15371.2
70	13383.7	16510.8	19537.5	19999	15133.5	6528.28	2061.38	507.33	184.57	118.94	94.66	75.02	67.73	80.66	105.32	137.41	228.66	748.26	3602.8	8771.53	18233.5	22743.9	22441.1	17872.6	13383.7
71	11427.4	14528.8	17981.9	18842.3	14068.4	5741.37	1517.7	437.1	169.66	113.39	90.68	71.79	64.55	77.19	101.08	131.31	208.87	617.82	2800.2	7871.14	17128.8	21658.6	20946.6	15864.5	11427.4
72	9622.76	12587.4	16382.4	17596.6	13152.1	4954.6	1149.16	387.79	158.27	107.91	86.63	68.52	61.25	73.68	96.79	125.4	191.77	522.86	2108.41	6956.68	16059.6	20470.2	19295.8	13867.6	9622.76
73	7924.29	10609.8	14756.5	16215.7	12276.6	4350.61	929.41	342.05	147.53	102.18	82.39	65.3	58.02	69.67	92.3	119.38	176.67	455.7	1695.2	6067.45	14966.8	19147.4	17527.3	11870.6	7924.29
74	6288.23	8584.06	13060.3	14736.2	11370.7	3879.92	806.98	299.97	136.97	96.55	78.21	62.05	54.82	65.04	87.84	113.01	164.38	402.09	1282	5273.6	14000.8	17739.8	15705	9780.5	6288.23
75	5033.43	6481.19	11136.9	12988.5	10391	3448.2	722.61	263.85	126.84	90.38	73.83	58.8	51.77	60.82	83.14	106.58	153.06	354.83	983.31	4662.17	13034.9	16161.9	13730.7	7574.18	5033.43
76	3782.61	5054.88	8829.6	11034.6	9298.9	3004.97	649.94	232	116.86	84.24	68.99	55.84	48.67	56.94	78.61	100.35	141.73	313	857.75	4152.05	12008.4	14234.7	11752.6	5616.87	3782.61
77	2800.13	3647.36	6426.34	9044.4	8138.36	2487.01	588.31	203.83	107.18	78.07	64.56	52.74	45.53	54.14	73.97	93.6	130.85	274.7	764	3698.08	10822.6	12307.6	9210.3	4102.3	2800.13
78	1973.95	2469.35	4827.18	6879.7	6794.39	1908.7	526.68	177.9	97.19	71.29	60.06	49.47	42.43	50.52	69.34	86.45	120.11	241.49	688.7	3193.95	9539.28	10303	6685.79	2974.09	1973.95
79	1322.06	1679.06	3237.99	5218.23	5367.95	1428.08	467.57	154.1	87.45	65.16	55.56	46.26	39.52	47.49	64.58	79.99	109.8	212.94	618.91	2591.86	8171.96	8069.58	4630.1	2185.07	1322.06
80	868.75	1079.62	1936.27	3556.87	3939.62	1066.86	406.11	133.47	77.68	58.98	51.07	42.92	36.45	44.18	59.95	73.48	99.17	186.04	552	1954.23	6704.64	5874.74	3128.54	1534.06	868.75
81	619.34	680.86	1145.36	2122.32	2497.84	770.53	341.75	113.42	68.66	52.8	44.46	39.29	33.19	39.45	54.95	66.98	88.51	163.25	489.55	1514.34	5116.86	4025.15	2147.66	883.21	619.34
82	442.37	496.52	660.7	1208.83	1364.14	553.4	274.36	95.78	60.8	47.58	41.53	35.74	30.13	36.96	50.01	60.61	78.5	140.45	424.73	1076.72	3477.75	2597.81	1329.64	574	442.37
83	265.39	317.54	464.61	631.95	674.71	376.71	209.16	79.43	52.58	42.79	37.63	32.42	27.44	33.75	44.81	54.29	69.16	119.21	357.85	745.92	2271.09	1718.31	717.38	377.99	265.39
84	177.18	181.93	274.23	402.76	459.31	229.8	152.77	64.86	44.84	37.07	32.98	29.47	24.47	30.38	40.06	48	60.45	101.15	292.27	506.62	1263.45	844.89	423.06	265.29	177.18
85	103.34	102.82	128.72	177.72	247.48	146.75	105.13	52.05	37.57	31.46	28.76	25.02	21.18	26.97	35.4	42.12	52.36	84.96	224.7	338.44	547.81	436.22	275.79	172.88	103.34
86	50.14	47.51	52.56	76.7	94.77	81.12	64.65	39.28	30.74	26.83	25.26	21.7	18.73	23.4	30.71	36.46	44.73	69.8	167.1	235.36	306.42	260.3	167.14	82.38	50.14
87	5.54	5.13	18.07	28.49	40.24	42.56	42.65	27.83	24.03	22.04	21.16	19.51	15.89	20.07	26.06	31	37.04	54.94	109.61	155.54	189.94	135.57	60.8	49.57	5.54
88	3.32	2.38	0.91	3.69	2.79	16.54	20.72	17.47	17.08	17.18	17.71	16.14	12.88	16.38	21.46	25.27	29.5	40.18	65.3	76.65	75.36	55.64	30.3	16.75	3.32
89	1.36	0.44	0.61	2.19	1.6	2.72	4.91	10.43	11.91	13.46	14.41	13.45	9.87	12.58	16.43	19.42	21.86	27.15	38.65	46.34	37.64	18.23	0.45	0.39	1.36
90	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
91	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
92	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
93	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
94	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
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	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

106	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
107	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
108	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
109	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
110	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
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	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
119	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
120	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
121	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
122	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
123	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
124	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
125	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
126	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
127	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
128	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
129	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
130	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
131	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
132	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
133	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
134	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
135	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
136	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
137	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
138	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
139	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
140	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
141	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
142	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
143	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
144	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
145	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
146	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
147	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
148	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
149	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
150	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
151	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
152	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
153	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
154	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
155	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
156	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
157	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
158	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
159	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
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.	ALEDXL4T/480	Sample ID.	X1
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 25º C ± 1º 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
479.97	60	0.795	356.3	0.934	5.70%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2020/12/26	2021/12/25
DLF108	Auxiliary Lamp	2020/12/26	2021/12/25
DLF122	Measurement Standard Lamp Standard Lamp Type: 220 V, 0.4720 A, Tungsten, Omni-derectional	2020/12/26	2021/12/25
DLF116	AC Power Source	2020/12/26	2021/12/25
DLF113	Power Meter	2020/12/26	2021/12/25
DLF112	Temperature Recorder	2020/12/26	2021/12/25
DLF114	Temperature & Humidity Datalogger	2020/12/26	2021/12/25
DLF101	Goniophotometer	2020/12/26	2021/12/25
DLF125	Standard Lamp Standard Lamp Type: 76.58 V, 6.7875 A, Tungsten, Omni-derectional	2020/12/26	2021/12/25
DLF104	AC Power Source	2020/12/26	2021/12/25
DLF507	DC Power Source	2020/12/26	2021/12/25
DLF102	Power Meter	2020/12/26	2021/12/25
DLF111	Temperature & Humidity Datalogger	2020/12/26	2021/12/25
DLF119	Power Meter	2020/12/26	2021/12/25
DLF031	Temperature data logger	2020/12/26	2021/12/25
DLF022	Digital power meter	2020/12/26	2021/12/25
DLF003	Temperature & Humidity Datalogger	2020/12/26	2021/12/25

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