



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-10L-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11751  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/24/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-5W-LED-10L-30-IL  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5635
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4073
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	4073
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	7 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	183 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	315.9	N.A.	5.6
FM - Front-Medium (30-60)	2546.0	N.A.	45.2
FH - Front-High (60-80)	1656.3	N.A.	29.4
FVH - Front-Very High (80-90)	20.3	N.A.	0.4
BL - Back-Low (0-30)	179.4	N.A.	3.2
BM - Back-Medium (30-60)	665.4	N.A.	11.8
BH - Back-High (60-80)	235.9	N.A.	4.2
BVH - Back-Very High (80-90)	3.9	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.1
UH - Uplight-High (100-180)	9.0	N.A.	0.2
Total	5635.0	N.A.	100.0
BUG Rating	B1-U1-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	332	332	332	332	332	332	332	332	332	332
<b>2.5</b>	343	340	343	344	344	342	341	342	336	333
<b>5.0</b>	343	346	349	347	357	338	335	336	331	323
<b>7.5</b>	353	361	374	345	351	339	343	341	354	353
<b>10.0</b>	390	390	406	366	383	385	396	387	373	377
<b>12.5</b>	446	469	439	432	450	438	446	438	421	417
<b>15.0</b>	501	535	514	534	543	519	522	517	496	480
<b>17.5</b>	573	593	585	609	624	638	638	601	586	572
<b>20.0</b>	697	700	701	713	730	741	740	728	679	652
<b>22.5</b>	784	786	816	848	844	866	885	875	796	762
<b>25.0</b>	900	874	930	978	1016	1012	1018	1025	943	859
<b>27.5</b>	1039	1083	1131	1111	1179	1197	1203	1172	1083	997
<b>30.0</b>	1228	1199	1225	1295	1309	1393	1409	1356	1253	1138
<b>32.5</b>	1469	1471	1419	1427	1528	1563	1565	1573	1460	1295
<b>35.0</b>	1690	1638	1614	1645	1690	1779	1744	1778	1627	1492
<b>37.5</b>	1904	1891	1820	1814	1873	1957	1913	1958	1811	1594
<b>40.0</b>	2033	2060	2016	2014	2069	2102	2103	2111	1986	1764
<b>42.5</b>	2143	2172	2152	2151	2218	2222	2221	2251	2106	1879
<b>45.0</b>	2257	2277	2251	2289	2337	2368	2371	2347	2206	1972
<b>47.5</b>	2346	2373	2374	2386	2437	2463	2465	2442	2302	2076
<b>50.0</b>	2430	2461	2477	2456	2516	2538	2554	2540	2409	2222
<b>52.5</b>	2520	2547	2565	2538	2619	2646	2661	2662	2532	2331
<b>55.0</b>	2599	2630	2674	2669	2734	2821	2849	2843	2699	2491
<b>57.5</b>	2705	2757	2810	2821	2941	3078	3124	3094	2826	2569
<b>60.0</b>	2697	2728	2873	2923	3139	3355	3362	3284	2887	2594
<b>62.5</b>	2454	2495	2705	2891	3261	3581	3579	3442	2916	2574
<b>65.0</b>	1980	1997	2273	2598	3252	3823	3803	3570	2884	2521
<b>67.5</b>	1132	1147	1440	1970	2892	4023	4073	3723	2908	2389
<b>70.0</b>	244	237	364	963	2049	3601	3799	3504	2472	1794
<b>72.5</b>	103	107	131	220	803	2332	2557	2433	1597	1077
<b>75.0</b>	62	65	73	98	197	807	1072	1179	791	487
<b>77.5</b>	32	33	38	49	81	159	210	388	365	228
<b>80.0</b>	24	24	25	28	39	60	69	111	183	124
<b>82.5</b>	21	21	22	25	28	35	37	52	94	100
<b>85.0</b>	16	16	17	20	25	29	30	37	51	81
<b>87.5</b>	12	11	12	13	16	19	21	26	37	47
<b>90.0</b>	5	5	5	5	5	5	5	4	5	5
<b>92.5</b>	2	2	1	2	2	2	2	2	2	2
<b>95.0</b>	1	1	1	1	1	2	2	2	2	2
<b>97.5</b>	1	1	1	1	1	1	1	2	2	2
<b>100.0</b>	1	1	1	1	1	1	1	1	1	2
<b>102.5</b>	1	1	1	1	1	1	1	1	1	2
<b>105.0</b>	1	1	1	1	1	1	1	1	1	2
<b>107.5</b>	1	1	1	1	1	1	1	1	1	2
<b>110.0</b>	1	1	1	1	1	1	1	1	1	2
<b>112.5</b>	2	2	1	1	1	1	1	1	2	2
<b>115.0</b>	2	2	2	2	2	2	2	2	2	2
<b>117.5</b>	2	2	2	2	2	2	2	2	2	2
<b>120.0</b>	2	2	2	2	2	2	2	2	2	2
<b>122.5</b>	3	3	2	2	2	2	2	2	2	2
<b>125.0</b>	3	3	3	2	2	2	2	2	2	3
<b>127.5</b>	3	3	3	2	2	2	2	2	2	3
<b>130.0</b>	3	3	3	3	2	2	2	2	2	3

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

132.5	3	3	3	3	2	2	2	2	2	3
135.0	3	3	3	2	2	2	2	2	2	2
137.5	2	2	1	1	1	1	1	1	2	2
140.0	0	0	0	0	1	1	1	1	1	1
142.5	0	0	0	0	1	1	1	1	1	1
145.0	0	0	0	0	0	1	0	1	1	1
147.5	0	0	0	0	1	1	1	1	1	1
150.0	0	0	0	0	1	1	0	1	1	1
152.5	0	0	0	0	1	0	1	1	1	1
155.0	0	0	0	0	0	0	0	1	1	1
157.5	0	0	0	0	0	0	0	1	1	1
160.0	0	0	0	0	0	0	0	0	1	1
162.5	0	0	0	0	0	0	0	0	0	1
165.0	0	0	0	0	0	0	0	0	0	1
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	332	332	332	332	332	332	332	332	332	332
2.5	332	332	332	330	327	325	325	328	326	322
5.0	321	321	311	309	313	310	301	305	299	293
7.5	332	333	328	329	311	291	277	280	270	275
10.0	352	343	339	347	302	294	281	269	260	266
12.5	392	385	375	351	316	300	287	291	290	298
15.0	437	421	406	368	331	323	328	332	327	321
17.5	504	480	454	403	358	365	378	365	349	345
20.0	585	562	523	450	408	419	413	400	387	371
22.5	695	637	597	516	477	485	460	443	407	388
25.0	775	729	674	571	572	553	519	471	433	370
27.5	879	818	769	659	676	623	564	496	400	305
30.0	1017	921	869	770	796	724	644	469	302	210
32.5	1110	1029	960	898	911	832	650	354	201	143
35.0	1266	1152	1072	1046	1039	944	582	238	135	108
37.5	1395	1287	1198	1199	1163	980	419	157	102	90
40.0	1492	1390	1295	1355	1299	886	262	114	85	77
42.5	1594	1490	1393	1468	1399	695	164	93	73	65
45.0	1715	1608	1515	1600	1440	458	120	77	62	55
47.5	1819	1718	1628	1748	1357	279	93	66	52	44
50.0	1944	1853	1767	1906	1143	180	74	55	42	34
52.5	2080	1990	1914	2063	837	128	61	44	32	24
55.0	2218	2128	2105	2210	521	90	50	34	24	16
57.5	2313	2198	2251	2210	350	65	40	25	16	9
60.0	2340	2219	2290	1944	288	51	30	16	9	4
62.5	2312	2190	2287	1504	272	47	22	9	5	2
65.0	2234	2104	2224	994	273	59	15	5	4	2
67.5	2033	1931	2063	575	270	86	10	4	4	2
70.0	1456	1389	1492	291	214	112	11	4	4	2
72.5	836	793	832	101	95	111	9	5	3	2
75.0	363	338	351	56	38	45	7	4	1	1
77.5	166	150	143	34	18	22	5	3	0	0

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**CANDELA TABULATION - (Cont.)**

80.0	98	84	69	20	12	11	5	3	0	0
82.5	72	60	45	13	10	7	5	3	0	0
85.0	50	38	24	8	7	6	5	3	0	0
87.5	29	15	6	5	6	6	5	3	0	1
90.0	5	2	5	6	7	6	5	4	0	1
92.5	3	2	5	6	7	7	5	4	1	1
95.0	2	2	4	5	6	6	5	3	1	1
97.5	2	2	3	5	5	5	4	3	1	1
100.0	2	2	3	3	5	4	3	3	1	1
102.5	2	2	3	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	1	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	3	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	3	3	3	3	3	2	2	1
117.5	2	3	3	3	3	3	3	2	2	1
120.0	2	3	3	3	3	3	3	2	2	2
122.5	2	3	3	3	3	3	3	3	2	2
125.0	3	3	3	3	3	3	3	3	2	2
127.5	3	3	3	3	3	3	3	3	3	2
130.0	3	3	3	3	3	3	3	3	3	2
132.5	3	3	3	3	3	3	3	3	3	2
135.0	3	3	3	3	3	3	3	3	2	2
137.5	2	2	2	2	3	3	2	2	2	1
140.0	2	2	2	2	2	2	2	2	1	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	2	2	2	2	2	2	1	1	1
147.5	1	2	2	2	2	2	2	1	1	1
150.0	1	2	2	2	2	2	2	1	1	0
152.5	1	2	2	2	2	2	2	1	1	0
155.0	1	1	2	2	2	2	2	1	1	0
157.5	1	1	1	2	2	2	1	1	1	0
160.0	1	1	1	1	1	2	1	1	0	0
162.5	1	1	1	1	1	1	1	1	0	0
165.0	1	1	1	1	1	1	1	1	0	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	0	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	332	332
2.5	316	316
5.0	287	284
7.5	269	264
10.0	270	259
12.5	302	290
15.0	327	314
17.5	348	330
20.0	371	352
22.5	369	355
25.0	335	331

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CANDELA TABULATION - (Cont.)

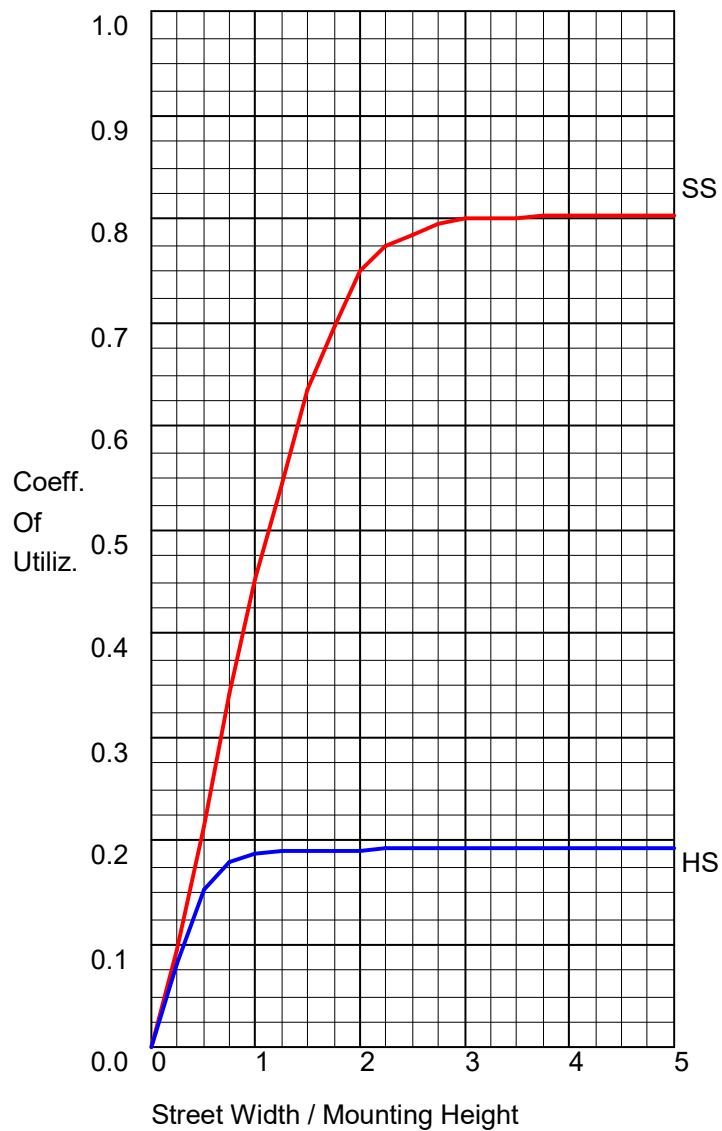
27.5	260	254
30.0	178	167
32.5	124	121
35.0	100	100
37.5	85	85
40.0	73	73
42.5	62	62
45.0	51	51
47.5	41	40
50.0	30	30
52.5	20	20
55.0	13	12
57.5	6	5
60.0	2	2
62.5	1	0
65.0	0	0
67.5	1	1
70.0	2	2
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

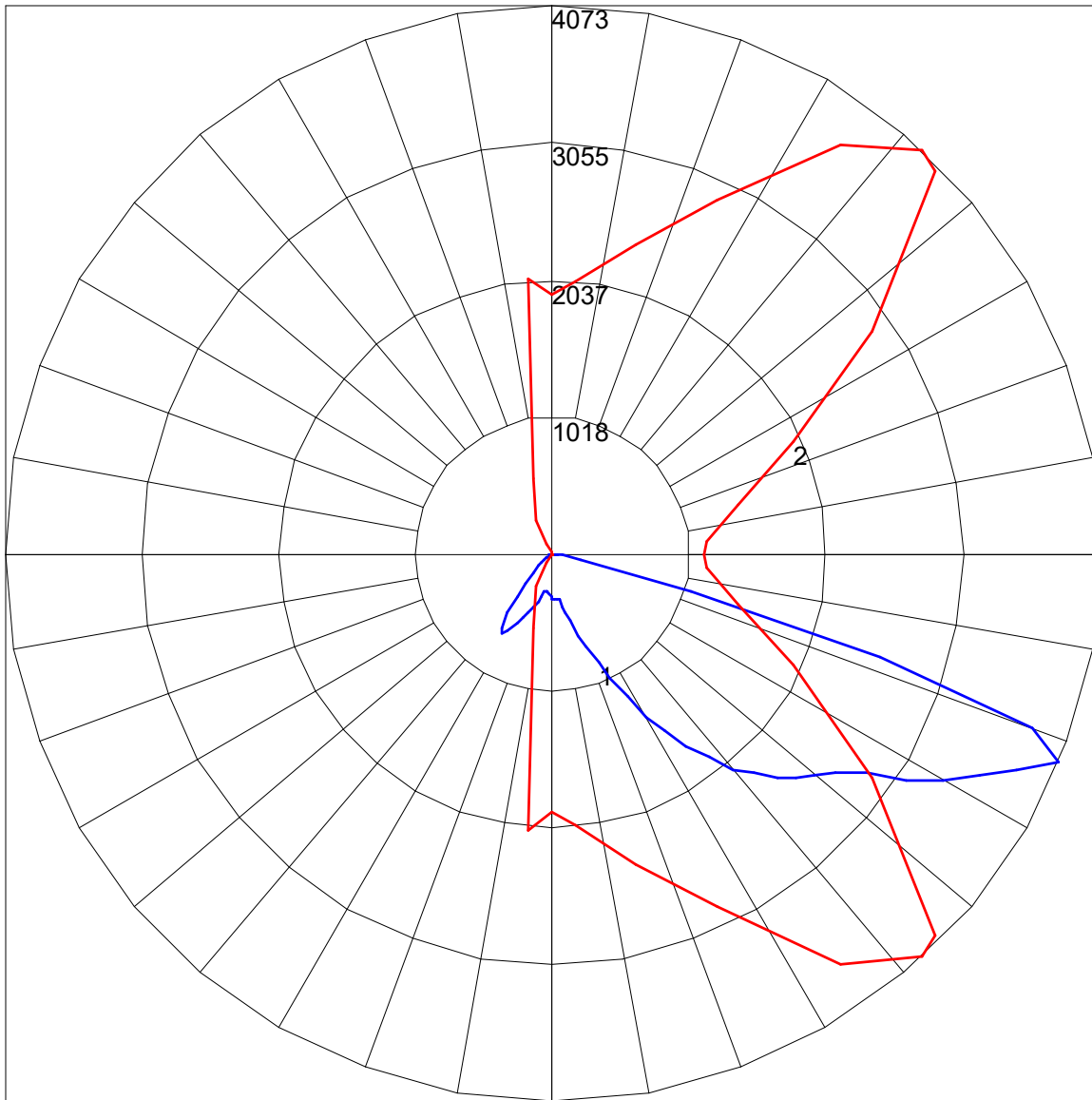


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4538.4	80.5
Downward House Side	1084.5	19.2
Downward Total	5622.9	99.8
Upward Street Side	4.8	0.1
Upward House Side	7.1	0.1
Upward Total	11.9	0.2
Total Flux	5634.8	100.0

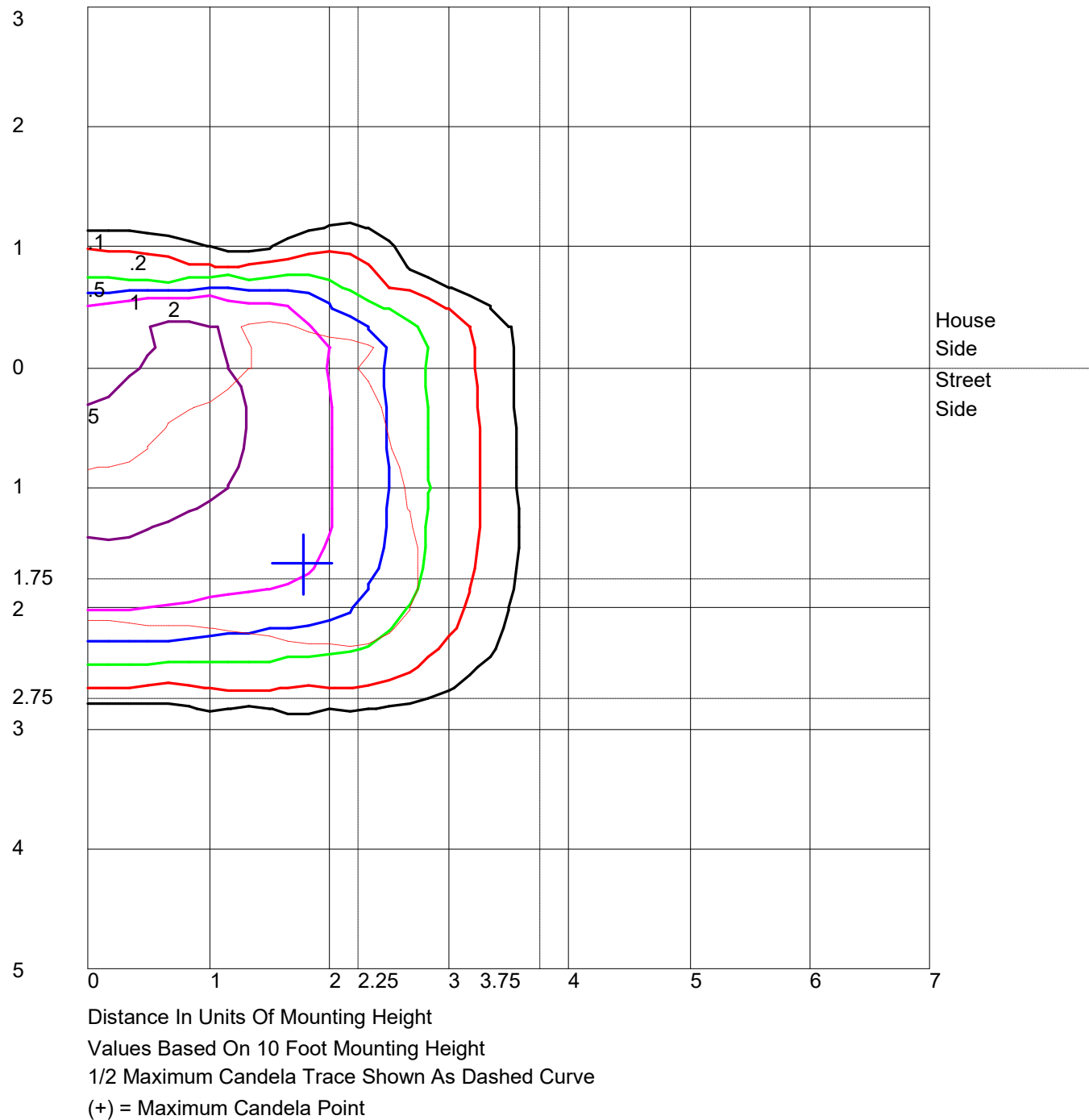


POLAR GRAPH

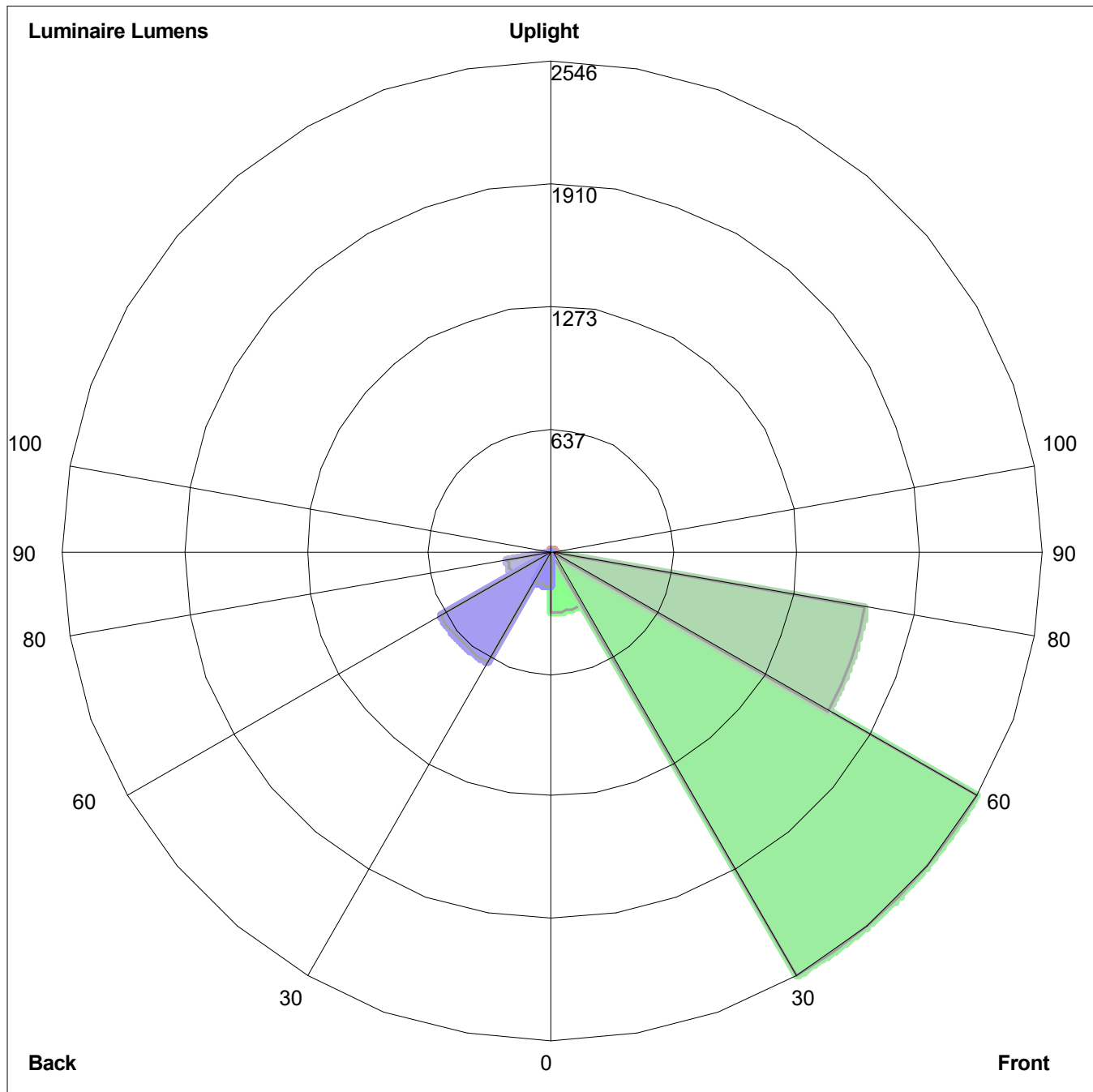


Maximum Candela = 4073 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=315.9, Medium= 2546.0, High=1656.3, Very High=20.3  
Back: Low=179.4, Medium=665.4, High=235.9, Very High=3.9  
Uplight: Low=2.9, High=9.0

BUG Rating : B1-U1-G1