



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11761

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-FT-LED-05L-50-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	3987
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2810
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	2810
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	12 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	354 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	223.0	N.A.	5.6
FM - Front-Medium (30-60)	1814.0	N.A.	45.5
FH - Front-High (60-80)	1316.1	N.A.	33.0
FVH - Front-Very High (80-90)	47.8	N.A.	1.2
BL - Back-Low (0-30)	151.7	N.A.	3.8
BM - Back-Medium (30-60)	357.4	N.A.	9.0
BH - Back-High (60-80)	62.4	N.A.	1.6
BVH - Back-Very High (80-90)	3.1	N.A.	0.1
UL - Uplight-Low (90-100)	2.8	N.A.	0.1
UH - Uplight-High (100-180)	8.5	N.A.	0.2
Total	3986.8	N.A.	100.0
BUG Rating	B1-U1-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	396	396	396	396	396	396	396	396	396	396
2.5	387	390	393	390	394	393	398	398	395	394
5.0	362	361	371	379	380	375	378	367	365	361
7.5	343	351	360	353	339	344	341	361	381	381
10.0	341	345	344	336	340	347	357	366	372	382
12.5	371	362	360	346	354	358	362	372	394	401
15.0	392	383	387	388	392	385	383	396	414	426
17.5	418	410	408	418	429	425	433	427	437	460
20.0	463	463	467	468	465	469	478	479	472	500
22.5	510	519	531	550	536	531	537	539	524	555
25.0	590	587	596	615	647	642	622	628	605	605
27.5	721	704	716	712	729	746	742	724	696	670
30.0	818	831	832	845	837	851	855	850	786	741
32.5	1030	1006	974	970	980	986	980	978	893	826
35.0	1141	1152	1122	1131	1114	1131	1112	1108	1014	906
37.5	1320	1314	1266	1273	1283	1284	1249	1244	1138	1016
40.0	1434	1430	1440	1429	1433	1427	1418	1370	1277	1106
42.5	1519	1523	1530	1549	1578	1559	1549	1522	1411	1187
45.0	1601	1620	1624	1651	1719	1700	1710	1645	1535	1274
47.5	1699	1722	1736	1769	1844	1837	1858	1779	1654	1376
50.0	1807	1827	1849	1905	1982	1996	2017	1942	1805	1476
52.5	1885	1905	1945	2017	2136	2202	2178	2111	1926	1540
55.0	1952	1969	2025	2126	2308	2364	2351	2268	2014	1587
57.5	2024	2043	2111	2240	2457	2503	2498	2387	2068	1588
60.0	2077	2095	2187	2360	2580	2648	2640	2461	2064	1531
62.5	2090	2108	2247	2478	2691	2758	2729	2459	2001	1421
65.0	1920	1954	2153	2479	2750	2810	2775	2378	1842	1234
67.5	1618	1639	1878	2265	2630	2708	2634	2199	1601	1003
70.0	889	968	1286	1835	2262	2384	2313	1883	1279	707
72.5	387	420	591	1018	1614	1800	1845	1429	889	443
75.0	292	310	398	556	814	933	1050	932	547	294
77.5	234	249	331	438	508	517	530	523	350	209
80.0	187	203	277	343	354	336	314	257	221	140
82.5	140	152	199	225	185	171	143	108	108	91
85.0	78	81	102	101	73	69	58	48	50	51
87.5	26	29	35	33	23	21	17	16	16	20
90.0	9	9	12	9	7	5	4	3	2	2
92.5	4	4	3	2	2	2	2	2	2	2
95.0	1	1	1	1	2	2	2	2	2	2
97.5	1	1	1	1	1	2	2	2	2	2
100.0	1	1	1	1	1	2	2	2	2	2
102.5	1	1	1	1	1	1	2	2	2	2
105.0	1	1	1	1	1	1	2	1	1	2
107.5	1	1	1	1	1	1	2	2	2	2
110.0	1	1	1	1	1	2	2	2	2	2
112.5	1	1	1	1	2	2	2	2	2	2
115.0	1	1	1	1	2	2	2	2	2	2
117.5	1	1	1	1	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

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**CANDELA TABULATION - (Cont.)**

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

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	396	396	396	396	396	396	396	396	396	396
2.5	397	398	394	394	394	396	398	399	393	386
5.0	368	369	367	374	377	381	385	387	384	372
7.5	378	385	384	396	383	364	350	357	358	369
10.0	385	380	383	387	372	368	360	357	342	358
12.5	398	404	412	409	387	363	362	375	362	364
15.0	438	433	435	416	388	395	389	365	338	310
17.5	458	462	458	447	409	409	386	327	272	239
20.0	512	503	502	454	426	416	339	272	230	217
22.5	557	551	550	501	452	394	294	240	220	215
25.0	616	608	597	534	475	361	261	232	224	225
27.5	670	657	639	585	489	325	256	235	241	249
30.0	715	714	679	607	470	319	261	246	262	275
32.5	779	747	706	615	452	319	271	259	284	318
35.0	830	811	744	620	424	325	277	269	312	355
37.5	906	867	796	607	406	326	278	278	329	373
40.0	955	890	810	592	395	324	274	276	331	339
42.5	999	914	818	570	377	317	262	257	291	255
45.0	1055	940	832	545	359	302	241	215	212	181
47.5	1102	966	844	520	338	276	206	167	146	126
50.0	1140	974	840	499	308	238	167	126	102	92
52.5	1165	979	826	483	269	185	124	91	73	69
55.0	1176	973	803	459	217	130	85	64	54	52
57.5	1147	944	766	419	163	87	59	45	39	39
60.0	1073	882	706	354	112	65	45	34	27	27
62.5	962	777	610	283	81	52	36	25	19	19
65.0	820	632	478	210	65	43	28	19	14	14
67.5	612	468	312	130	52	35	22	15	10	9
70.0	401	305	183	76	39	26	18	13	8	7
72.5	234	175	112	49	26	19	14	9	6	4
75.0	167	120	77	35	19	14	10	7	3	2
77.5	118	83	52	25	15	12	8	4	2	1

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**CANDELA TABULATION - (Cont.)**

80.0	72	52	37	19	12	9	6	3	1	1
82.5	48	36	25	14	9	8	6	3	1	1
85.0	33	22	15	8	7	7	5	3	1	1
87.5	15	9	6	5	5	5	4	2	1	1
90.0	3	2	3	5	5	5	4	2	1	1
92.5	2	2	3	5	6	5	4	2	1	1
95.0	2	2	3	5	5	5	4	3	1	1
97.5	2	1	3	4	4	4	3	3	1	1
100.0	2	2	2	3	4	4	3	2	2	1
102.5	2	2	2	2	3	3	3	2	2	1
105.0	2	2	2	2	2	3	2	2	2	1
107.5	2	2	2	2	2	2	2	2	2	1
110.0	2	2	2	2	2	2	2	2	2	1
112.5	2	2	2	2	2	2	2	2	2	2
115.0	2	2	2	2	2	2	2	2	2	2
117.5	2	2	2	2	3	3	3	2	2	2
120.0	2	2	2	2	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	2	3	3	3	3	3	3	2
127.5	2	2	3	3	3	3	3	3	3	2
130.0	2	3	2	3	3	3	3	3	3	2
132.5	2	3	3	3	3	3	3	3	3	2
135.0	2	2	2	3	2	2	2	2	2	2
137.5	2	2	2	2	2	2	2	2	1	1
140.0	1	2	2	2	2	2	1	1	1	1
142.5	1	1	1	2	2	1	1	1	1	0
145.0	1	1	1	1	1	1	1	1	1	0
147.5	1	1	1	1	1	1	1	1	1	0
150.0	1	1	1	1	1	1	1	1	1	0
152.5	1	1	1	1	1	1	1	1	1	0
155.0	1	1	1	1	1	1	1	1	0	0
157.5	1	1	1	1	1	1	1	1	0	0
160.0	1	1	1	1	1	1	1	1	0	0
162.5	1	1	1	1	1	1	1	0	0	0
165.0	1	1	1	1	1	1	1	0	0	0
167.5	1	1	1	1	1	1	1	0	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	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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

	<u>175</u>	<u>180</u>
0.0	396	396
2.5	387	390
5.0	368	373
7.5	365	362
10.0	368	360
12.5	363	358
15.0	311	310
17.5	236	235
20.0	220	220
22.5	220	225
25.0	237	245

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50-IL.IES**

**CANDELA TABULATION - (Cont.)**

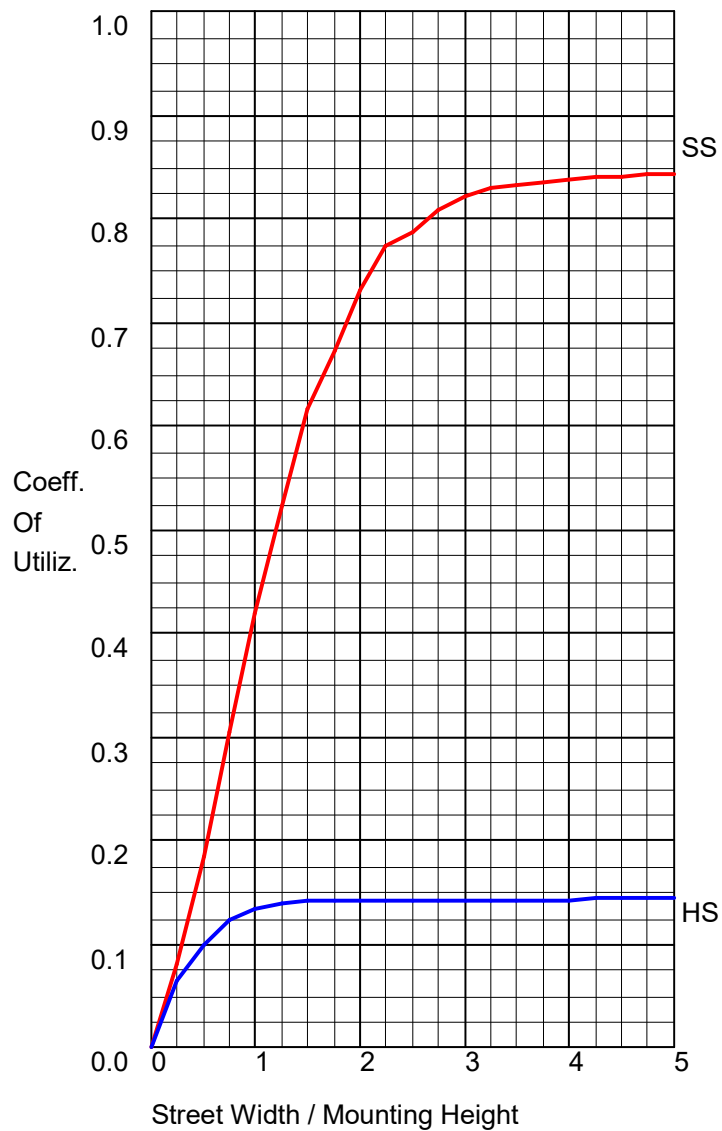
27.5	262	275
30.0	297	300
32.5	348	351
35.0	371	375
37.5	365	361
40.0	301	295
42.5	224	220
45.0	168	167
47.5	127	128
50.0	98	97
52.5	76	75
55.0	58	58
57.5	44	44
60.0	34	34
62.5	25	26
65.0	19	19
67.5	14	14
70.0	9	10
72.5	5	5
75.0	2	2
77.5	0	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	2
120.0	2	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

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**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50-IL.IES**

**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>	1	1

### COEFFICIENTS OF UTILIZATION

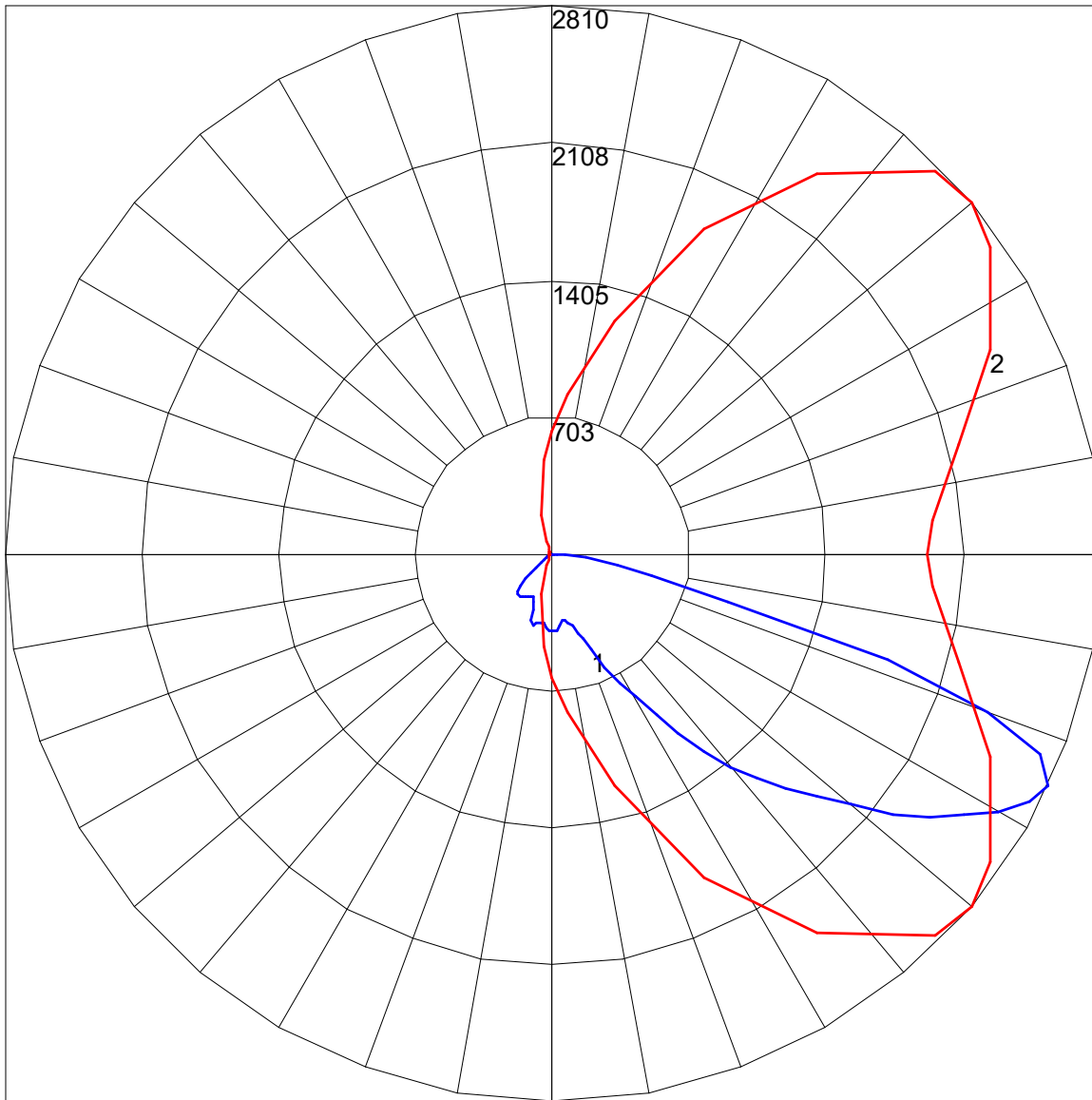


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3400.9	85.3
Downward House Side	574.6	14.4
Downward Total	3975.5	99.7
Upward Street Side	5.1	0.1
Upward House Side	6.2	0.2
Upward Total	11.3	0.3
Total Flux	3986.8	100.0

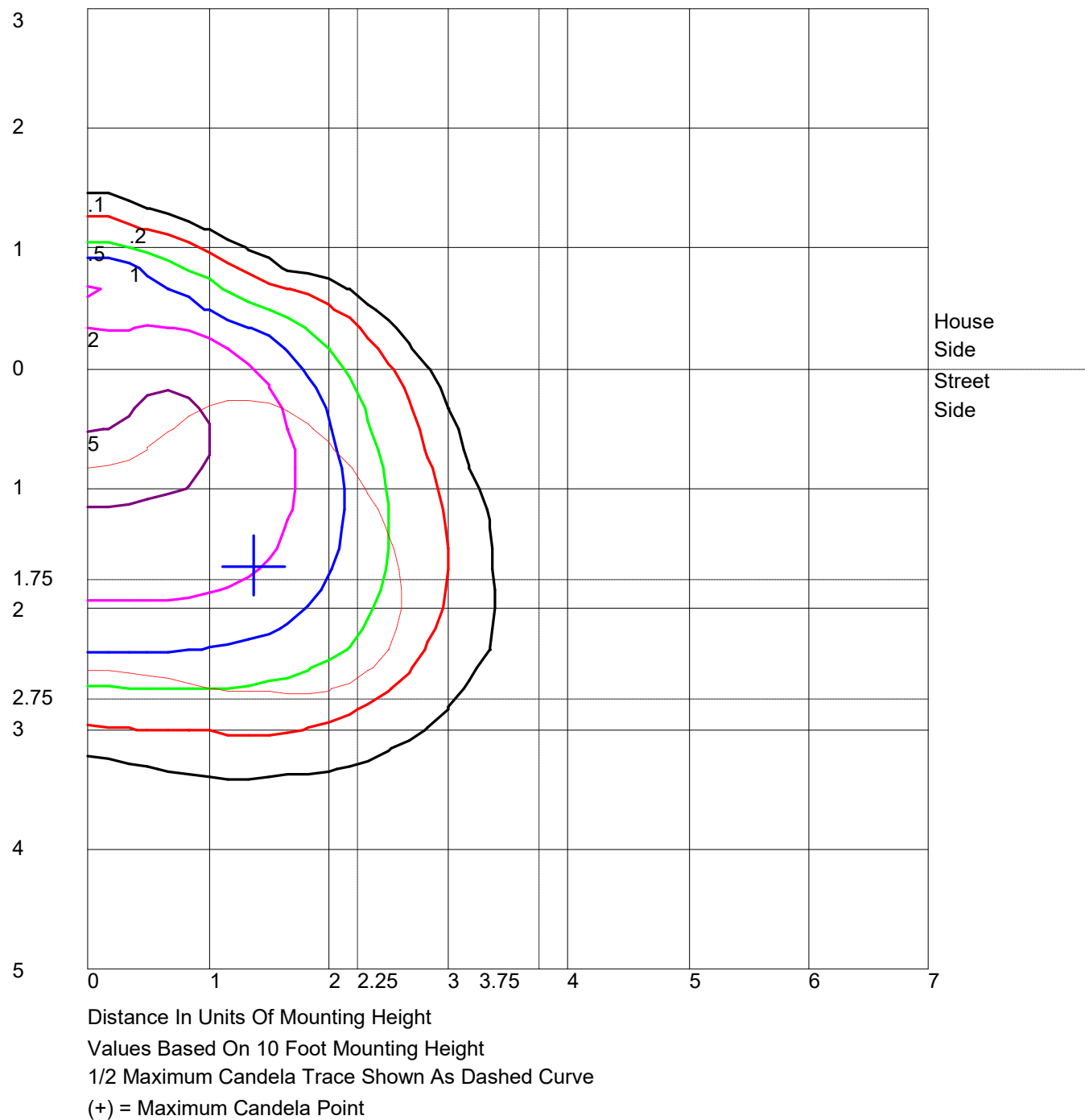


POLAR GRAPH

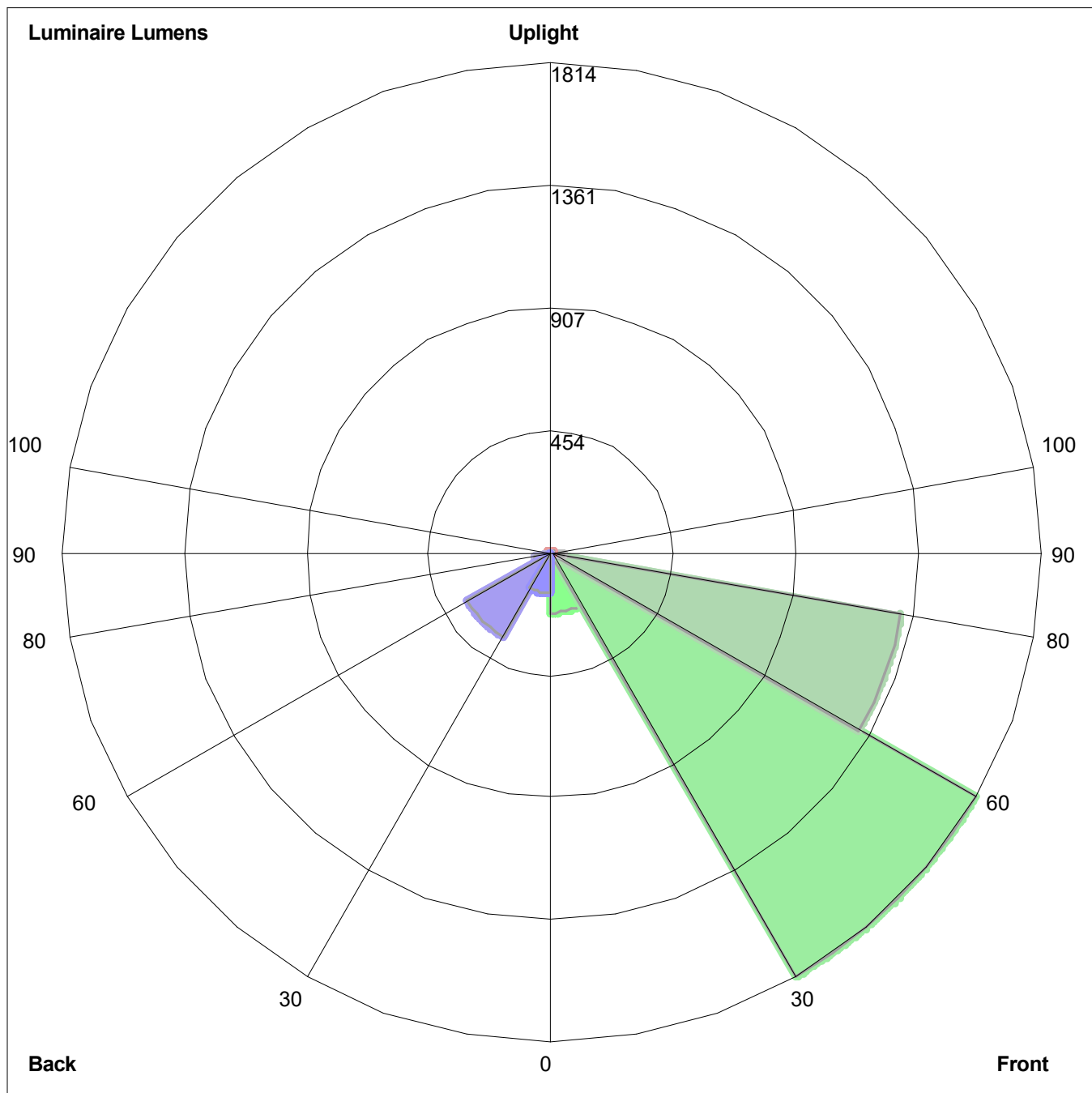


Maximum Candela = 2810 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=223.0, Medium= 1814.0, High=1361.1, Very High=47.8  
Back: Low=151.7, Medium=357.4, High=62.4, Very High=3.1  
Uplight: Low=2.8, High=8.5

BUG Rating : B1-U1-G1