



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11759  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/26/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-3-LED-05L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3870
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4225
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	4225
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	10 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	180 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	143.8	N.A.	3.7
FM - Front-Medium (30-60)	2293.1	N.A.	59.3
FH - Front-High (60-80)	1007.6	N.A.	26.0
FVH - Front-Very High (80-90)	24.0	N.A.	0.6
BL - Back-Low (0-30)	69.6	N.A.	1.8
BM - Back-Medium (30-60)	262.3	N.A.	6.8
BH - Back-High (60-80)	51.8	N.A.	1.3
BVH - Back-Very High (80-90)	5.7	N.A.	0.1
UL - Uplight-Low (90-100)	2.8	N.A.	0.1
UH - Uplight-High (100-180)	9.0	N.A.	0.2
Total	3869.7	N.A.	100.0
BUG Rating	B1-U1-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	187	187	187	187	187	187	187	187	187	187
2.5	185	184	184	183	186	186	186	185	186	184
5.0	188	184	186	186	185	180	177	177	177	177
7.5	181	179	183	182	178	177	180	179	180	180
10.0	179	179	185	175	183	183	191	190	190	188
12.5	196	196	193	190	195	193	200	200	203	199
15.0	211	208	209	212	220	217	217	217	219	221
17.5	223	227	223	231	241	252	240	239	239	241
20.0	258	266	263	262	270	282	283	284	272	271
22.5	299	298	309	312	326	336	352	352	336	323
25.0	377	371	379	394	411	424	453	453	439	400
27.5	523	525	530	516	536	564	588	586	597	528
30.0	688	682	674	690	703	749	770	777	771	687
32.5	889	890	851	839	884	931	981	984	988	848
35.0	1077	1070	1047	1070	1057	1155	1196	1207	1172	1014
37.5	1348	1343	1275	1264	1287	1332	1389	1386	1340	1117
40.0	1590	1590	1555	1507	1494	1534	1574	1552	1472	1235
42.5	1872	1897	1843	1762	1723	1735	1711	1708	1575	1339
45.0	2183	2214	2185	2073	1988	1955	1867	1853	1692	1463
47.5	2492	2516	2503	2413	2325	2214	2055	2040	1861	1660
50.0	2722	2749	2820	2774	2650	2518	2351	2317	2123	1910
52.5	2707	2762	2943	3070	3089	2917	2755	2726	2515	2199
55.0	2529	2556	2781	3099	3328	3356	3396	3382	3051	2429
57.5	2040	2092	2410	2865	3364	3680	3996	4003	3438	2500
60.0	1312	1377	1748	2358	3125	3745	4211	4225	3517	2388
62.5	697	721	1009	1629	2572	3448	4053	4063	3376	2146
65.0	374	386	516	932	1790	2835	3637	3663	2962	1693
67.5	217	220	284	497	1076	1920	2836	2903	2271	1091
70.0	143	152	192	328	598	1086	1912	1953	1496	618
72.5	106	112	138	242	397	545	1019	1104	810	270
75.0	72	77	100	189	305	312	460	510	343	131
77.5	52	54	75	156	240	206	205	225	177	82
80.0	40	42	58	123	180	135	107	113	108	62
82.5	31	33	46	98	120	81	64	63	71	48
85.0	23	24	34	71	73	40	40	39	41	33
87.5	14	14	24	41	27	14	14	14	15	15
90.0	3	4	5	10	5	4	3	3	3	2
92.5	1	1	2	2	2	2	2	2	2	2
95.0	1	1	1	2	2	2	2	2	2	2
97.5	1	1	1	2	2	2	2	2	1	1
100.0	1	1	1	2	2	2	2	2	1	1
102.5	1	1	1	2	2	2	2	2	1	1
105.0	1	1	1	2	2	2	2	2	1	1
107.5	1	1	1	2	2	2	2	1	1	1
110.0	1	1	1	2	2	2	2	2	1	1
112.5	1	1	1	2	2	2	2	2	2	2
115.0	1	1	1	2	2	2	2	2	2	2
117.5	1	1	1	2	2	2	2	2	2	2
120.0	1	1	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	1	1	1	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	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	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	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85.0</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	187	187	187	187	187	187	187	187	187	187
2.5	186	186	186	186	188	190	188	188	188	188
5.0	178	178	178	176	183	185	186	185	184	181
7.5	177	178	179	182	180	177	174	170	167	168
10.0	186	183	182	192	183	177	162	157	145	143
12.5	194	193	193	193	182	171	152	134	126	120
15.0	204	199	199	201	185	159	137	123	115	110
17.5	222	215	217	202	178	145	129	120	113	107
20.0	243	234	226	210	168	138	124	120	115	106
22.5	292	272	262	225	165	138	126	122	119	110
25.0	358	329	306	239	169	147	126	123	131	127
27.5	458	405	367	254	187	158	128	129	158	162
30.0	574	499	428	267	197	166	136	140	193	204
32.5	671	576	480	275	199	170	140	156	228	259
35.0	769	639	520	279	195	171	145	158	267	323
37.5	855	704	553	283	186	168	143	161	321	406
40.0	940	762	589	287	178	162	140	157	376	407
42.5	1036	826	626	291	170	153	133	146	406	322
45.0	1179	937	682	300	161	142	121	133	329	240
47.5	1378	1069	750	310	151	126	107	120	215	178
50.0	1583	1212	835	316	137	102	86	102	122	137
52.5	1764	1331	880	310	112	74	62	78	80	110
55.0	1847	1359	863	283	87	56	47	53	56	89
57.5	1820	1283	767	240	72	47	39	37	39	72
60.0	1689	1129	603	186	61	42	33	29	29	58
62.5	1413	879	413	135	52	36	27	23	22	47
65.0	938	578	254	92	43	30	23	17	16	39
67.5	538	338	150	63	35	24	17	14	13	32
70.0	243	171	86	45	29	19	13	11	9	24
72.5	105	89	60	37	23	15	11	9	6	18
75.0	65	61	51	33	19	14	9	6	4	14
77.5	49	47	43	31	16	12	8	5	3	10

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**CANDELA TABULATION - (Cont.)**

80.0	44	40	35	27	14	11	7	5	2	8
82.5	33	30	29	23	13	10	7	5	2	6
85.0	20	19	21	16	11	9	7	4	2	5
87.5	10	9	11	10	9	8	6	4	2	5
90.0	2	2	4	6	7	7	5	4	1	3
92.5	2	1	3	5	6	6	5	3	1	1
95.0	2	1	3	5	5	5	5	3	1	1
97.5	2	1	2	4	5	5	4	3	1	1
100.0	2	1	2	3	4	4	3	2	1	1
102.5	2	1	2	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	2	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	2	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	2	3	3	3	3	2	2	1
117.5	2	2	2	3	3	3	3	3	2	1
120.0	2	2	2	3	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	2	2
127.5	2	2	3	3	3	3	3	3	2	2
130.0	2	2	3	3	3	3	3	3	2	2
132.5	2	2	2	3	3	3	3	3	2	2
135.0	2	2	2	3	3	3	3	3	2	2
137.5	2	2	2	2	3	3	3	2	2	1
140.0	2	2	2	2	2	2	2	2	2	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	1	2	2	2	2	2	2	1	1
147.5	1	1	2	2	2	2	2	2	1	1
150.0	1	1	2	2	2	2	2	2	1	1
152.5	1	1	1	2	2	2	2	1	1	1
155.0	1	1	1	2	2	2	2	1	1	0
157.5	1	1	1	1	2	2	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	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	1	0	0
172.5	1	1	1	1	1	1	1	1	0	0
175.0	1	1	1	1	1	1	1	1	0	0
177.5	1	1	1	1	1	1	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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

	<u>175.0</u>	<u>180.0</u>
0.0	187	187
2.5	189	189
5.0	179	180
7.5	165	163
10.0	138	138
12.5	119	119
15.0	110	109
17.5	105	105
20.0	104	102
22.5	101	100
25.0	110	105

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

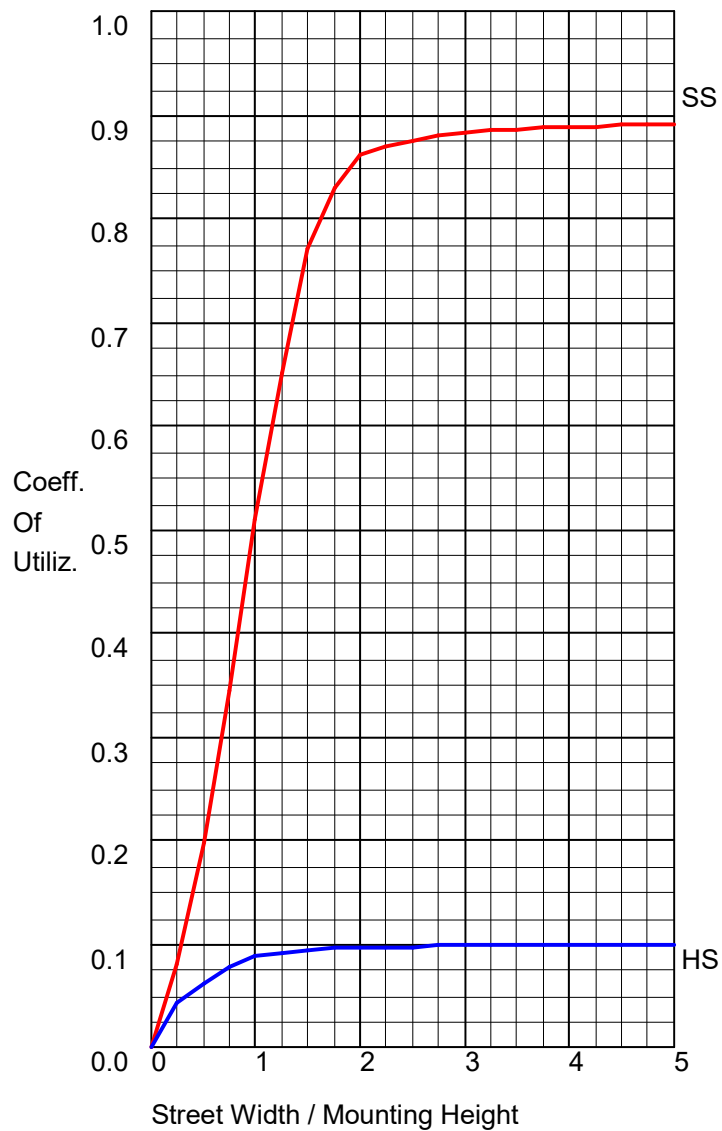
27.5	129	125
30.0	159	156
32.5	204	195
35.0	252	241
37.5	257	237
40.0	205	183
42.5	153	131
45.0	114	101
47.5	92	81
50.0	79	66
52.5	73	57
55.0	72	53
57.5	73	54
60.0	77	61
62.5	81	68
65.0	81	73
67.5	78	74
70.0	70	71
72.5	61	62
75.0	47	50
77.5	37	41
80.0	30	33
82.5	24	27
85.0	19	21
87.5	14	15
90.0	6	8
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	1	0
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	2	1
130.0	2	2
132.5	2	1
135.0	1	1
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>	1	1

### COEFFICIENTS OF UTILIZATION

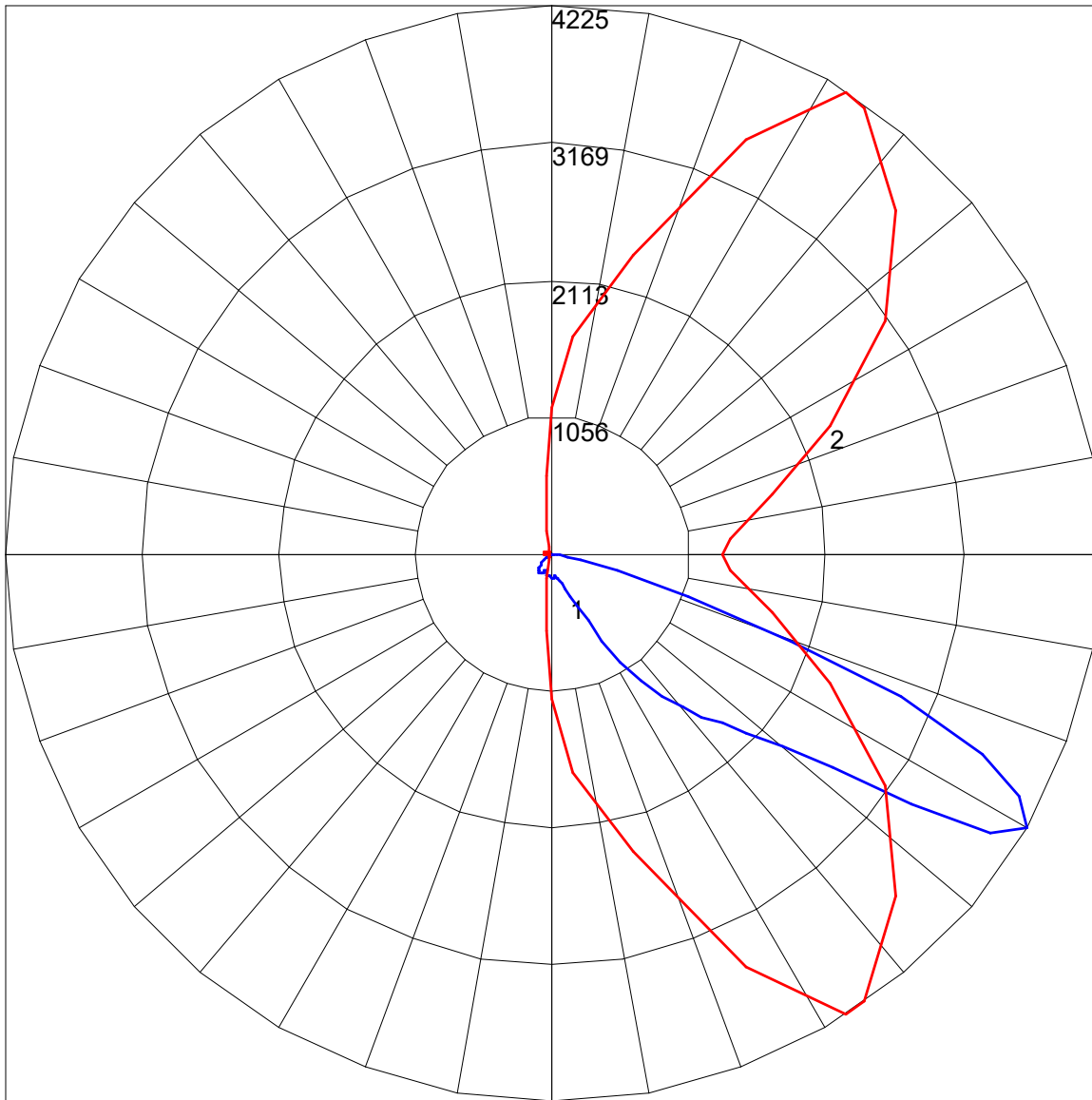


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3468.6	89.6
Downward House Side	389.5	10.1
Downward Total	3858.1	99.7
Upward Street Side	5.0	0.1
Upward House Side	6.8	0.2
Upward Total	11.8	0.3
Total Flux	3869.9	100.0

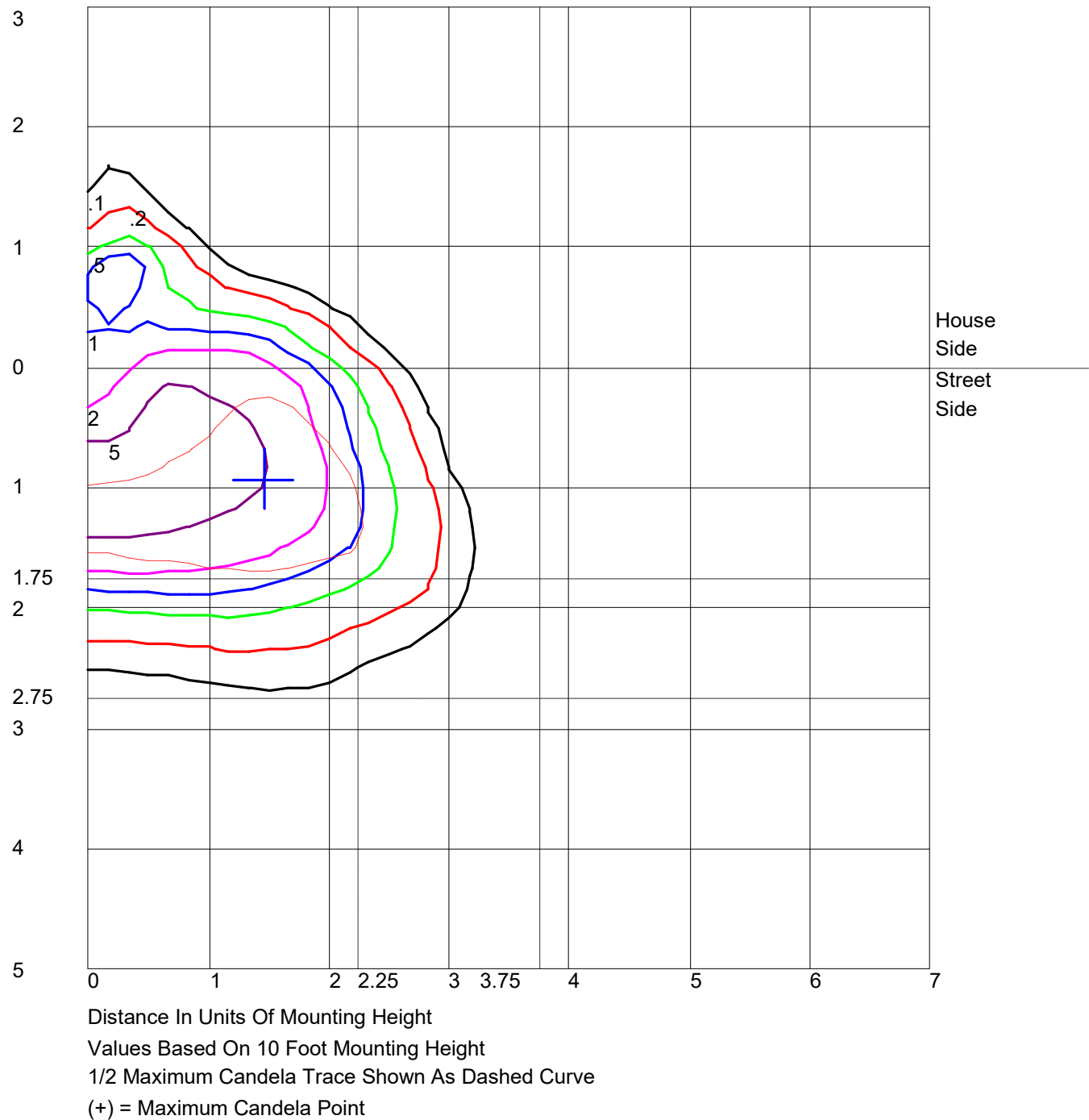


POLAR GRAPH

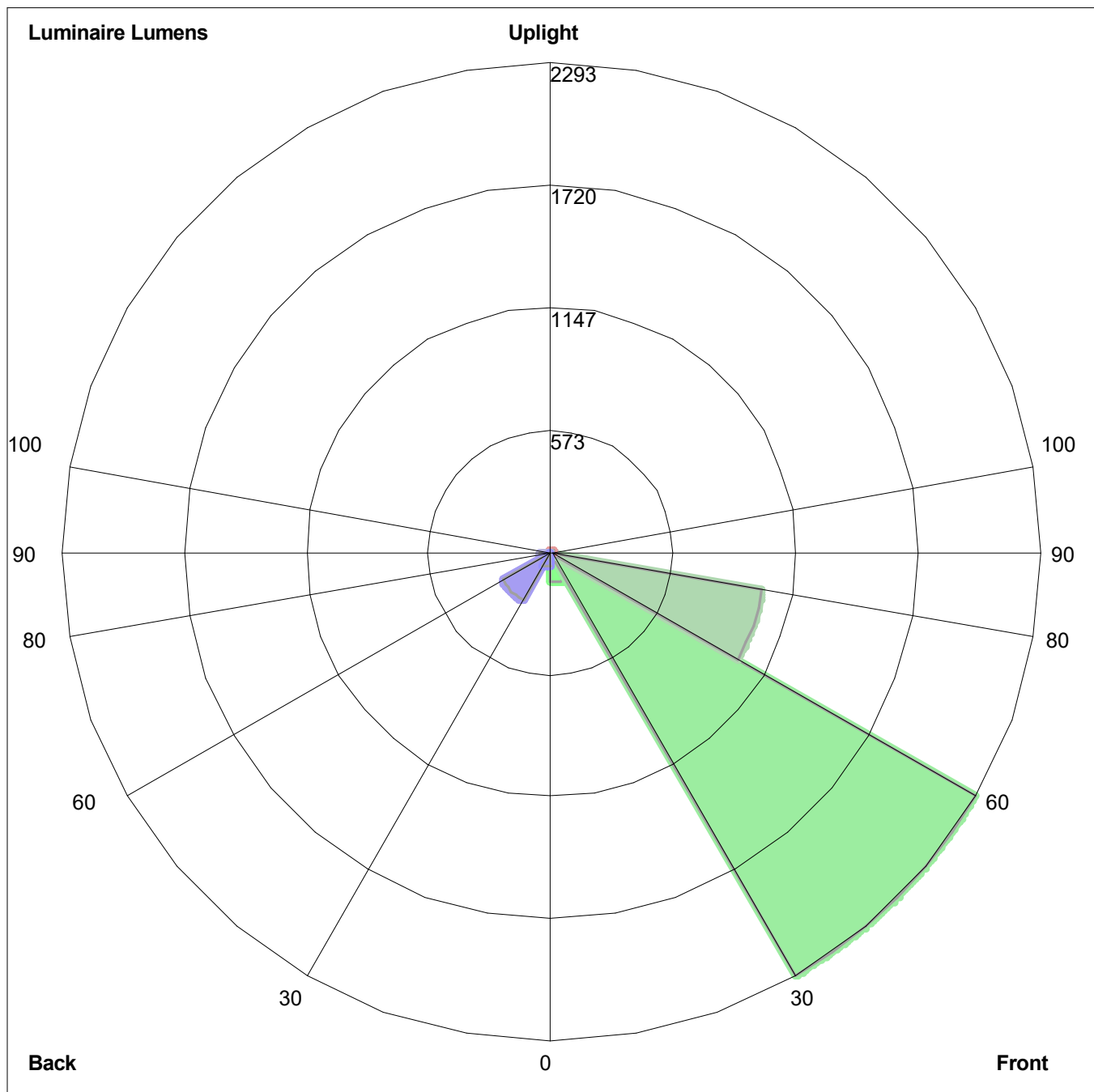


Maximum Candela = 4225 Located At Horizontal Angle = 57.5, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=143.8, Medium=2293.1, High=1007.6, Very High=24.0  
Back: Low=69.6, Medium=262.3, High=51.8, Very High=5.7  
Uplight: Low=2.8, High=9.0

BUG Rating : B1-U1-G1