



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11768

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-05L-30

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4698
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4255
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4255
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	26 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	513 (10.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	136.7	N.A.	2.9
FM - Front-Medium (30-60)	1842.8	N.A.	39.2
FH - Front-High (60-80)	1641.6	N.A.	34.9
FVH - Front-Very High (80-90)	45.9	N.A.	1.0
BL - Back-Low (0-30)	132.8	N.A.	2.8
BM - Back-Medium (30-60)	593.2	N.A.	12.6
BH - Back-High (60-80)	266.9	N.A.	5.7
BVH - Back-Very High (80-90)	25.7	N.A.	0.5
UL - Uplight-Low (90-100)	4.1	N.A.	0.1
UH - Uplight-High (100-180)	8.4	N.A.	0.2
Total	4698.1	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	217	217	217	217	217	217	217	217	217	217
2.5	215	214	211	212	213	214	215	215	215	215
5.0	196	196	202	205	209	201	201	201	200	200
7.5	190	196	201	195	193	194	198	200	208	205
10.0	195	196	200	194	197	207	207	208	208	209
12.5	203	215	208	204	212	216	215	216	216	223
15.0	224	230	230	233	237	231	236	237	235	233
17.5	244	247	246	250	255	262	256	255	256	256
20.0	285	281	279	280	287	291	293	291	284	279
22.5	310	320	320	329	329	329	344	335	323	311
25.0	357	357	366	381	397	394	406	405	387	360
27.5	436	456	458	458	472	498	495	488	477	443
30.0	537	524	544	569	580	638	617	616	599	542
32.5	693	698	673	692	751	774	778	759	739	639
35.0	875	864	853	864	902	957	955	936	874	765
37.5	1031	1029	1025	1048	1094	1139	1136	1100	1022	858
40.0	1185	1202	1224	1242	1318	1338	1303	1275	1161	965
42.5	1336	1343	1380	1485	1513	1542	1457	1434	1284	1038
45.0	1515	1523	1584	1695	1740	1735	1616	1562	1385	1109
47.5	1752	1762	1837	1939	1958	1905	1755	1687	1488	1188
50.0	2029	2058	2114	2191	2191	2081	1886	1813	1599	1279
52.5	2353	2383	2436	2456	2402	2242	2019	1951	1730	1408
55.0	2647	2681	2747	2744	2622	2390	2167	2111	1896	1589
57.5	2892	2931	3026	3013	2912	2571	2375	2333	2134	1848
60.0	2868	2906	3088	3202	3270	2891	2686	2674	2459	2176
62.5	2348	2346	2622	3011	3476	3325	3120	3098	2822	2487
65.0	1380	1368	1682	2279	3207	3680	3661	3624	3163	2630
67.5	606	640	795	1309	2382	3563	4186	4101	3377	2521
70.0	331	349	430	643	1346	2906	4255	4244	3199	1971
72.5	196	203	267	415	724	1775	3477	3527	2415	1081
75.0	130	137	178	287	491	937	2211	2148	1318	418
77.5	91	96	130	224	359	544	1084	1069	549	190
80.0	64	67	97	177	282	321	513	508	277	102
82.5	40	44	73	126	204	191	208	224	138	64
85.0	31	33	53	91	113	103	87	91	72	39
87.5	26	27	41	69	62	31	26	26	26	21
90.0	14	16	24	26	20	6	5	5	5	4
92.5	4	4	5	5	3	3	3	3	3	3
95.0	2	2	2	2	2	2	3	3	2	2
97.5	2	2	2	2	1	2	2	2	2	2
100.0	1	1	1	1	2	2	2	2	2	2
102.5	2	1	1	1	1	2	2	2	2	2
105.0	1	1	1	1	1	1	2	1	1	2
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	2
112.5	1	1	1	2	2	1	1	1	1	2
115.0	1	1	2	2	1	2	1	1	2	2
117.5	2	2	2	2	2	2	1	1	1	2
120.0	2	2	2	2	2	2	2	1	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	1	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	1	1	2	2
137.5	1	1	1	1	1	1	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	0	1	0	0	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	0	1	0	1	1	1	1	1
157.5	0	0	1	1	1	0	1	1	1	1
160.0	0	0	0	0	0	0	1	1	1	1
162.5	0	0	0	1	1	1	1	1	1	1
165.0	0	0	0	1	0	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	0	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	217	217	217	217	217	217	217	217	217	217
2.5	218	218	218	217	221	222	224	224	220	218
5.0	200	201	204	211	216	218	221	224	224	222
7.5	207	207	213	224	221	216	215	223	224	230
10.0	206	209	213	222	219	230	230	231	231	235
12.5	220	220	230	231	234	234	243	260	260	272
15.0	232	232	234	236	238	260	269	285	293	288
17.5	247	241	241	251	256	284	303	310	315	316
20.0	263	257	257	255	275	307	314	333	339	339
22.5	295	277	275	276	306	335	346	354	354	362
25.0	329	316	304	290	353	364	367	368	378	390
27.5	388	349	339	317	379	385	386	396	406	417
30.0	446	396	369	340	399	422	412	425	428	445
32.5	511	449	397	365	423	449	446	457	483	509
35.0	587	502	434	386	434	469	483	489	559	591
37.5	658	559	463	397	443	483	493	539	616	701
40.0	704	587	473	404	445	489	497	552	732	801
42.5	740	614	482	395	434	484	491	575	851	783
45.0	788	645	493	388	418	471	482	570	974	713
47.5	844	681	511	386	401	454	467	553	1018	678
50.0	916	726	534	386	384	436	452	529	986	662
52.5	1000	774	558	387	367	420	434	497	919	648
55.0	1097	828	583	387	349	400	415	455	827	631
57.5	1237	911	607	376	329	376	393	415	701	599
60.0	1437	1017	588	349	305	343	366	375	562	578
62.5	1662	1049	511	310	281	308	327	331	444	551
65.0	1743	947	388	268	258	273	289	302	349	513
67.5	1531	721	289	238	233	246	260	279	289	450
70.0	964	430	205	205	203	213	229	254	251	370
72.5	425	212	139	161	171	179	195	226	209	280
75.0	173	101	100	129	141	153	165	184	142	168
77.5	84	62	73	106	119	131	128	105	81	116

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CANDELA TABULATION - (Cont.)

80.0	55	43	60	88	101	95	71	80	60	81
82.5	38	31	47	72	81	58	53	61	37	58
85.0	23	18	35	56	46	41	37	29	19	37
87.5	11	8	24	33	27	24	16	14	8	19
90.0	3	3	8	9	10	9	6	4	2	3
92.5	2	2	5	7	9	8	6	3	1	0
95.0	2	2	4	6	8	8	5	3	1	0
97.5	2	3	4	5	7	7	5	3	1	0
100.0	2	2	3	5	6	5	5	3	1	0
102.5	2	2	3	4	5	5	4	3	1	1
105.0	2	2	3	3	4	4	3	2	1	1
107.5	2	2	3	3	3	3	3	2	1	1
110.0	2	2	3	3	3	3	3	2	1	1
112.5	2	2	3	3	3	3	3	2	1	1
115.0	2	2	2	3	3	3	3	2	1	1
117.5	2	2	3	3	3	3	3	2	1	1
120.0	2	2	3	3	4	4	3	2	2	1
122.5	2	2	3	3	4	4	3	3	2	1
125.0	2	2	3	3	3	3	3	3	2	1
127.5	2	2	3	3	3	3	3	3	2	1
130.0	2	3	3	3	3	3	3	3	2	1
132.5	2	2	3	3	3	3	3	2	2	1
135.0	2	2	2	3	3	3	2	2	1	1
137.5	2	2	2	2	3	2	2	1	1	1
140.0	1	2	2	2	2	2	1	1	0	0
142.5	1	1	2	2	2	2	1	1	0	0
145.0	1	1	1	2	2	1	1	1	0	0
147.5	1	2	1	2	2	2	1	1	0	0
150.0	1	1	1	2	2	1	1	0	0	0
152.5	1	1	1	1	2	1	1	0	0	0
155.0	1	1	1	1	1	1	1	0	0	0
157.5	1	1	1	1	1	1	1	0	0	0
160.0	1	1	1	1	1	1	0	0	0	0
162.5	1	1	1	1	1	1	0	0	0	0
165.0	1	1	1	1	1	1	0	0	0	0
167.5	1	1	1	1	1	1	1	0	0	0
170.0	1	1	1	1	1	1	0	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>175.0</u>	<u>180.0</u>
0.0	217	217
2.5	215	214
5.0	220	222
7.5	230	230
10.0	244	243
12.5	273	274
15.0	301	309
17.5	329	333
20.0	352	358
22.5	363	383
25.0	396	414

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CANDELA TABULATION - (Cont.)

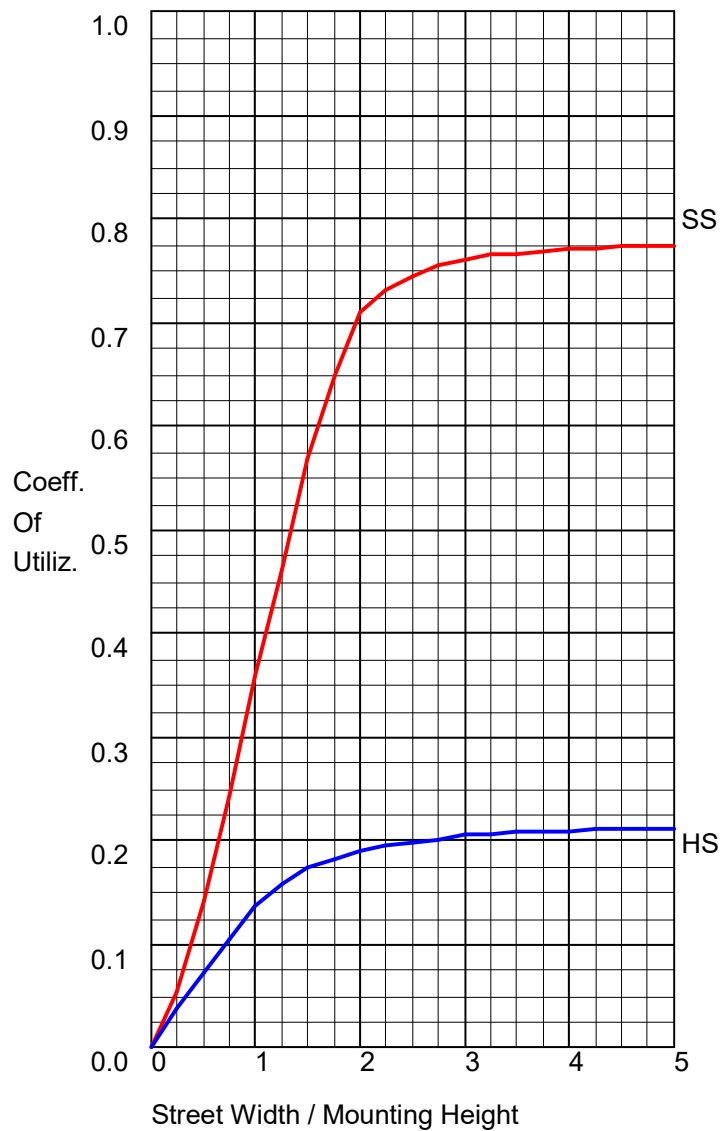
27.5	418	453
30.0	450	488
32.5	522	549
35.0	593	632
37.5	656	692
40.0	615	637
42.5	534	556
45.0	497	511
47.5	466	474
50.0	443	445
52.5	421	416
55.0	401	387
57.5	377	353
60.0	377	336
62.5	393	330
65.0	417	343
67.5	441	390
70.0	445	434
72.5	394	422
75.0	310	386
77.5	261	320
80.0	201	229
82.5	145	155
85.0	105	107
87.5	75	91
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	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	1	1
122.5	1	0
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	0	0
137.5	0	0
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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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

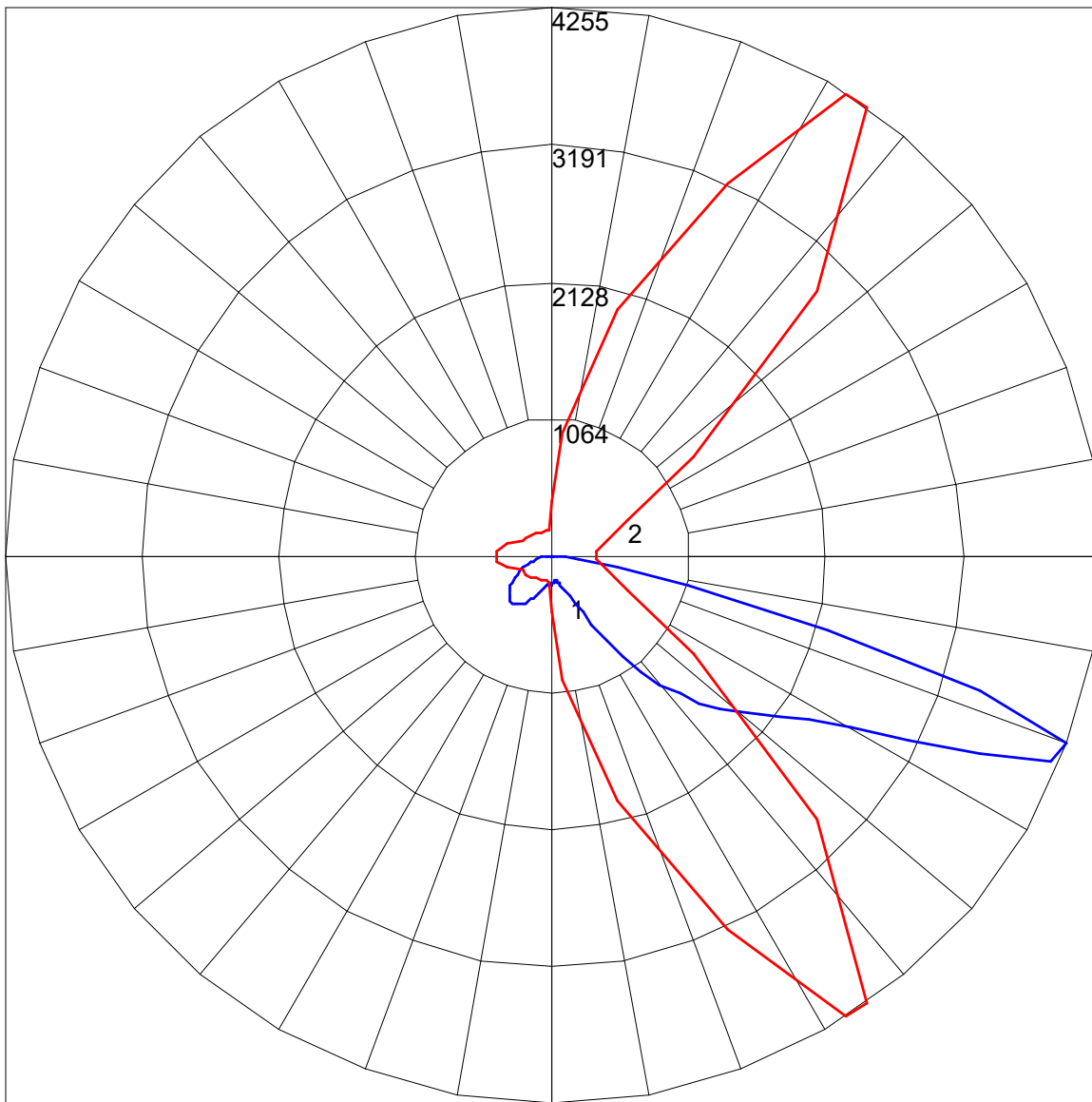
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

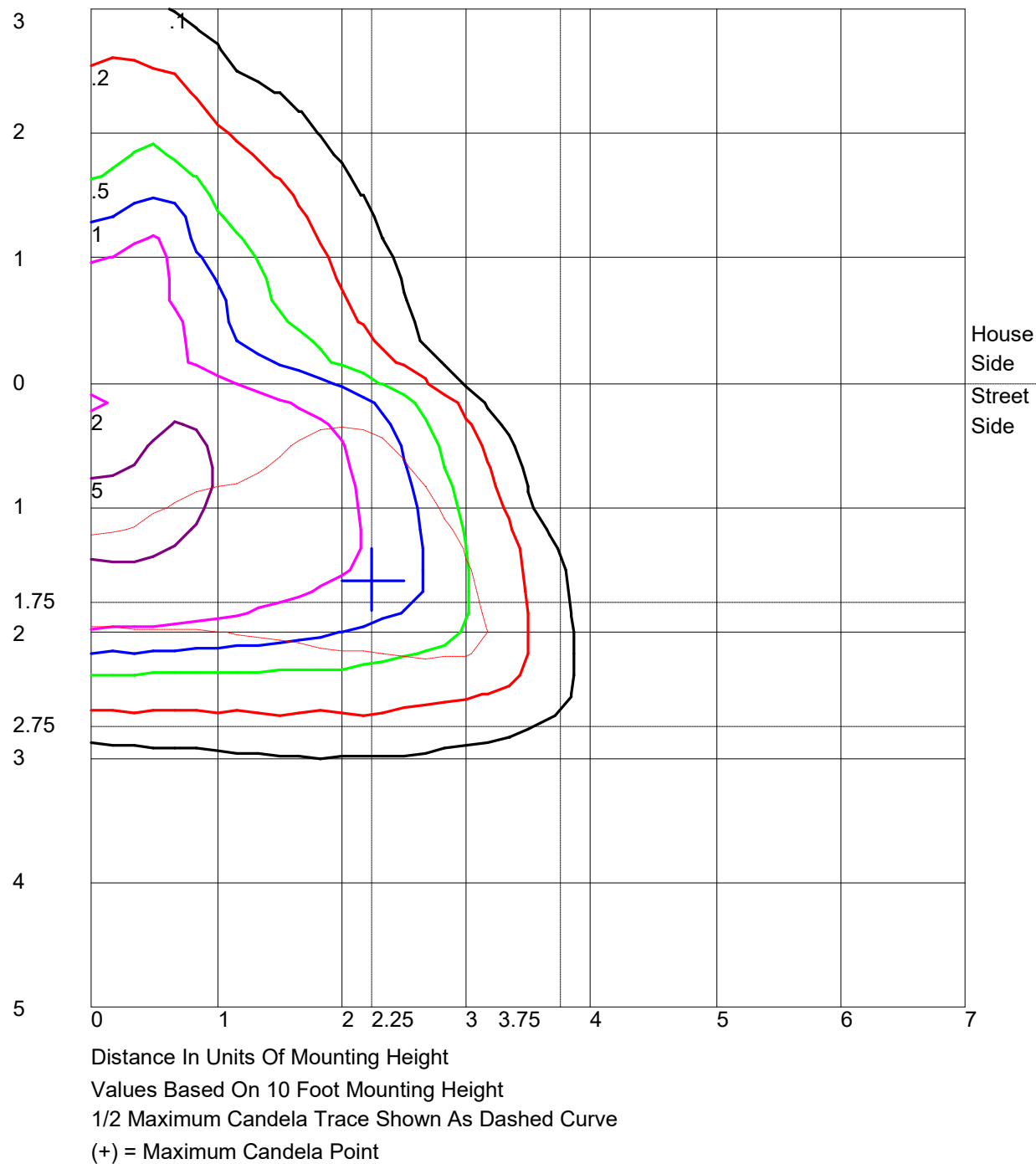
	Lumens	Percent Of Luminaire
Downward Street Side	3667.1	78.1
Downward House Side	1018.5	21.7
Downward Total	4685.6	99.7
Upward Street Side	5.6	0.1
Upward House Side	6.9	0.1
Upward Total	12.5	0.3
Total Flux	4698.1	100.0

POLAR GRAPH

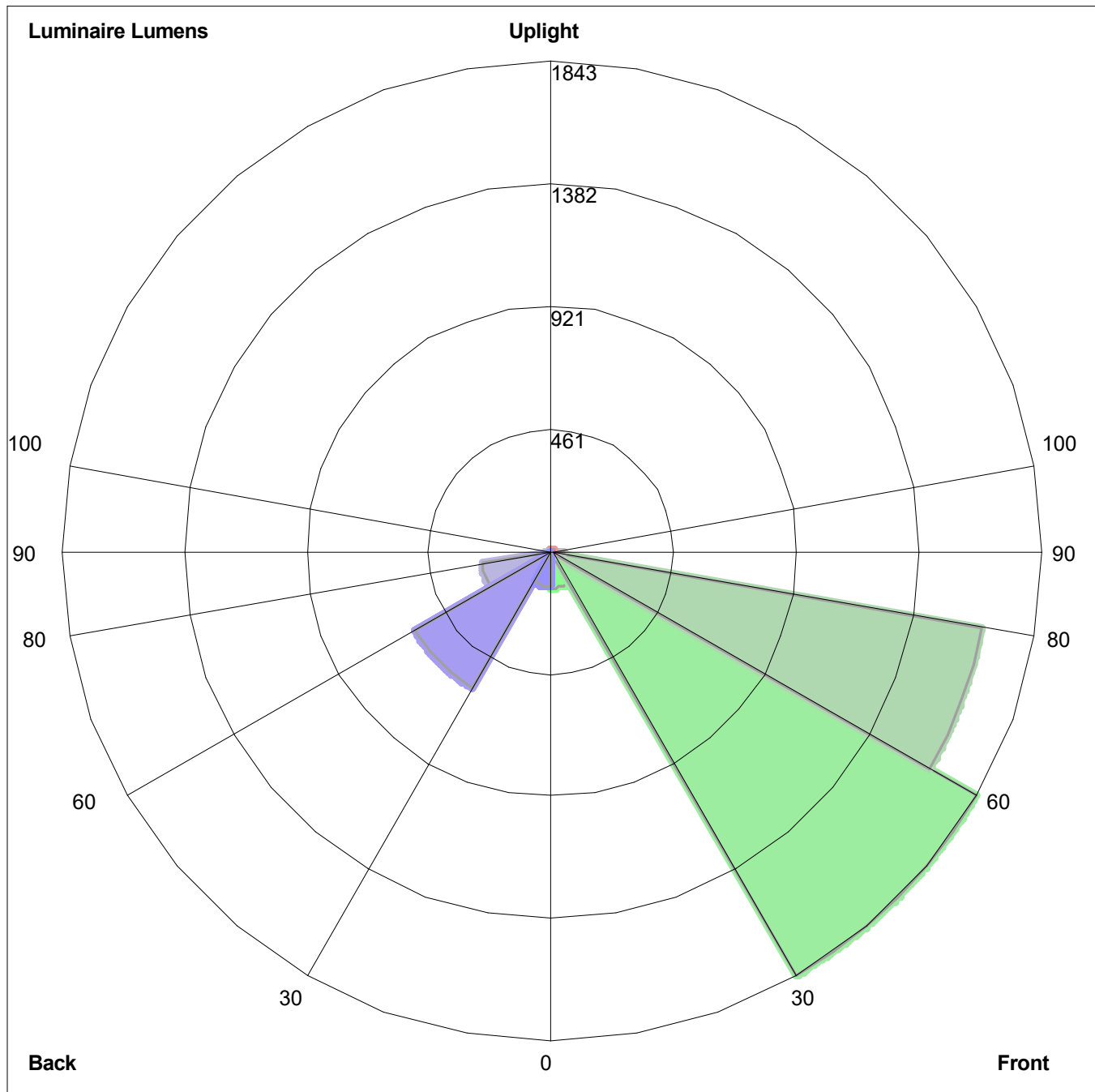


Maximum Candela = 4255 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=136.7, Medium=1842.8, High=1641.6, Very High=45.9
Back: Low=132.8, Medium=593.2, High=266.9, Very High=25.7
Uplight: Low=4.1, High=8.4

BUG Rating : B1-U1-G1