



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7711
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8421
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	8421
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	20 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	359 (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)	286.6	N.A.	3.7
FM - Front-Medium (30-60)	4569.4	N.A.	59.3
FH - Front-High (60-80)	2008.0	N.A.	26.0
FVH - Front-Very High (80-90)	47.8	N.A.	0.6
BL - Back-Low (0-30)	138.7	N.A.	1.8
BM - Back-Medium (30-60)	522.8	N.A.	6.8
BH - Back-High (60-80)	103.4	N.A.	1.3
BVH - Back-Very High (80-90)	11.4	N.A.	0.1
UL - Uplight-Low (90-100)	5.4	N.A.	0.1
UH - Uplight-High (100-180)	17.3	N.A.	0.2
Total	7710.7	N.A.	100.0
BUG Rating	B1-U2-G2		

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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	374	374	374	374	374	374	374	374	374	374
2.5	368	367	366	364	371	370	369	368	370	367
5.0	376	366	370	370	368	359	354	354	352	351
7.5	361	358	364	362	356	352	358	358	358	359
10.0	358	358	368	349	365	364	380	378	378	376
12.5	392	391	384	379	388	385	398	399	404	396
15.0	420	415	416	423	438	434	434	433	436	440
17.5	444	453	444	460	481	501	478	476	475	481
20.0	515	530	525	520	538	561	564	567	542	539
22.5	596	593	616	622	649	670	702	702	669	645
25.0	751	740	757	786	820	845	901	902	874	798
27.5	1043	1046	1055	1029	1067	1123	1173	1167	1189	1052
30.0	1371	1359	1343	1374	1402	1492	1536	1547	1538	1369
32.5	1771	1774	1695	1671	1762	1856	1956	1961	1970	1691
35.0	2147	2132	2086	2133	2106	2301	2382	2405	2336	2020
37.5	2687	2677	2543	2519	2565	2654	2770	2763	2670	2225
40.0	3167	3170	3099	3003	2976	3057	3137	3093	2934	2461
42.5	3730	3780	3673	3511	3433	3458	3409	3404	3139	2668
45.0	4350	4411	4355	4130	3962	3897	3719	3693	3371	2915
47.5	4966	5015	4988	4809	4632	4412	4094	4065	3708	3308
50.0	5425	5479	5619	5527	5281	5019	4684	4618	4230	3806
52.5	5395	5505	5864	6119	6157	5812	5492	5431	5011	4381
55.0	5039	5094	5542	6176	6632	6687	6768	6738	6080	4839
57.5	4065	4168	4801	5710	6704	7332	7961	7976	6850	4982
60.0	2614	2743	3482	4698	6226	7462	8392	8421	7007	4759
62.5	1389	1436	2012	3248	5124	6871	8076	8097	6727	4276
65.0	745	769	1028	1858	3568	5649	7247	7300	5903	3374
67.5	433	439	566	990	2145	3825	5652	5785	4526	2173
70.0	286	302	382	654	1192	2164	3809	3891	2981	1231
72.5	211	224	277	482	791	1085	2030	2201	1615	538
75.0	144	153	200	377	608	622	916	1016	683	263
77.5	102	108	149	311	479	411	408	449	352	165
80.0	79	83	116	244	359	269	213	224	215	123
82.5	62	64	92	195	240	161	129	127	141	97
85.0	45	46	69	141	146	80	79	78	81	64
87.5	27	29	48	81	53	30	29	28	30	31
90.0	6	6	11	20	11	6	5	5	5	5
92.5	2	2	4	5	4	4	5	4	4	4
95.0	2	1	2	3	4	4	4	4	4	3
97.5	1	1	2	3	3	4	4	3	3	3
100.0	1	1	2	3	3	4	3	3	3	3
102.5	2	1	2	3	4	4	3	3	3	3
105.0	2	1	2	3	4	4	3	3	3	3
107.5	2	2	2	3	4	4	3	3	3	3
110.0	2	2	2	3	4	4	3	3	3	3
112.5	2	2	3	4	4	4	3	3	3	3
115.0	2	2	3	4	4	4	4	3	3	3
117.5	3	3	3	4	4	4	4	3	3	4
120.0	3	3	3	4	4	4	4	4	3	4
122.5	3	3	4	4	4	4	4	4	4	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	5	4	4	4	4
130.0	4	4	4	4	5	5	4	4	4	4

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CANDELA TABULATION - (Cont.)

132.5	4	4	4	4	4	5	4	4	4	4
135.0	3	3	3	4	4	4	4	4	4	4
137.5	2	1	2	3	3	3	3	3	3	3
140.0	0	0	2	2	2	3	2	2	2	3
142.5	0	0	2	2	2	2	2	2	2	2
145.0	0	0	2	2	2	2	2	2	2	2
147.5	0	0	1	2	2	2	2	2	2	2
150.0	0	0	1	2	2	2	2	2	2	2
152.5	0	0	1	2	2	2	2	2	2	2
155.0	0	0	1	2	2	2	2	2	2	2
157.5	0	0	1	2	2	2	2	2	2	2
160.0	0	0	1	2	2	2	2	2	2	2
162.5	0	0	1	2	2	2	2	2	2	2
165.0	0	0	1	2	2	2	2	2	2	2
167.5	0	0	1	2	2	2	2	2	2	2
170.0	0	0	1	2	2	2	2	2	2	2
172.5	0	0	1	2	2	2	2	2	2	2
175.0	0	0	1	2	2	2	2	2	2	2
177.5	0	0	1	2	2	2	2	2	2	2
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	374	374	374	374	374	374	374	374	374	374
2.5	370	372	371	371	375	379	376	376	375	376
5.0	355	355	356	349	364	368	370	368	367	361
7.5	354	355	357	363	359	354	346	339	331	336
10.0	369	364	363	383	365	353	323	312	288	284
12.5	387	384	384	384	363	341	303	268	250	240
15.0	406	396	396	400	368	318	273	245	229	219
17.5	443	429	434	403	356	289	258	240	226	213
20.0	486	466	451	419	336	274	247	240	230	212
22.5	582	543	522	449	329	274	250	243	235	218
25.0	715	655	609	476	338	292	251	246	261	252
27.5	913	807	730	507	374	315	254	258	313	322
30.0	1143	993	854	531	393	329	270	280	385	406
32.5	1337	1148	956	549	397	339	280	310	454	517
35.0	1533	1275	1036	556	387	341	288	316	532	645
37.5	1702	1403	1103	565	371	336	286	321	641	807
40.0	1873	1518	1175	571	355	322	280	312	749	812
42.5	2064	1647	1247	581	339	305	264	290	809	643
45.0	2349	1867	1358	597	321	282	242	265	656	478
47.5	2745	2131	1494	618	301	250	212	240	429	356
50.0	3155	2414	1666	630	273	205	172	205	243	272
52.5	3515	2651	1753	618	223	148	125	155	159	218
55.0	3680	2707	1719	564	174	111	94	106	111	177
57.5	3628	2556	1528	479	142	93	77	75	78	142
60.0	3366	2250	1201	371	121	83	66	57	57	115
62.5	2816	1752	823	269	104	72	55	44	43	95
65.0	1869	1151	508	185	86	61	44	35	33	78
67.5	1071	673	300	127	72	48	34	27	24	63
70.0	486	340	171	91	57	38	25	21	18	48
72.5	208	177	119	75	45	31	21	17	12	36
75.0	130	121	100	68	37	26	18	13	8	27
77.5	99	95	84	62	33	24	16	11	5	20

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CANDELA TABULATION - (Cont.)

80.0	88	80	70	54	30	22	14	9	5	15
82.5	65	60	58	45	26	20	14	8	4	13
85.0	39	37	43	33	23	19	14	8	4	11
87.5	20	17	22	21	18	16	13	7	4	9
90.0	5	4	7	12	14	14	11	6	3	5
92.5	4	3	5	10	13	12	9	5	2	2
95.0	4	2	5	9	11	11	8	5	2	2
97.5	3	3	4	7	9	9	7	5	2	2
100.0	3	3	4	5	7	7	5	5	3	2
102.5	3	3	4	5	6	6	5	5	3	2
105.0	3	3	4	5	5	5	5	5	3	2
107.5	3	3	4	5	5	5	5	5	3	2
110.0	3	4	4	5	5	5	5	5	4	2
112.5	3	4	4	5	5	5	5	5	4	2
115.0	4	4	4	5	5	5	5	5	4	3
117.5	4	4	4	5	5	5	5	5	4	3
120.0	4	4	5	5	5	5	5	5	4	3
122.5	4	4	5	5	5	5	5	5	4	3
125.0	4	5	5	5	5	5	5	5	4	4
127.5	4	5	5	5	5	5	5	5	5	4
130.0	4	5	5	5	5	5	5	5	5	4
132.5	4	5	5	5	5	5	5	5	4	4
135.0	4	4	5	5	5	5	5	5	4	3
137.5	4	4	4	4	5	5	5	5	4	3
140.0	3	3	4	4	4	4	4	4	3	2
142.5	3	3	3	4	4	4	4	4	3	2
145.0	3	3	3	4	4	4	4	4	2	2
147.5	3	3	3	4	4	4	4	3	2	2
150.0	3	3	3	3	4	4	4	3	2	1
152.5	3	3	3	3	4	4	4	3	2	1
155.0	2	3	3	3	3	4	3	3	2	1
157.5	2	3	3	3	3	3	3	2	2	1
160.0	2	2	2	3	3	3	3	2	1	0
162.5	2	2	2	2	3	2	2	2	1	0
165.0	2	2	2	2	2	2	2	2	1	0
167.5	2	2	2	2	2	2	2	2	1	0
170.0	2	2	2	2	2	2	2	2	1	0
172.5	2	2	2	2	2	2	2	2	1	0
175.0	2	2	2	2	2	2	2	2	1	0
177.5	2	2	2	2	2	2	2	1	1	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	374	374
2.5	377	377
5.0	358	359
7.5	328	325
10.0	274	273
12.5	238	235
15.0	220	216
17.5	210	209
20.0	206	204
22.5	203	197
25.0	218	209

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

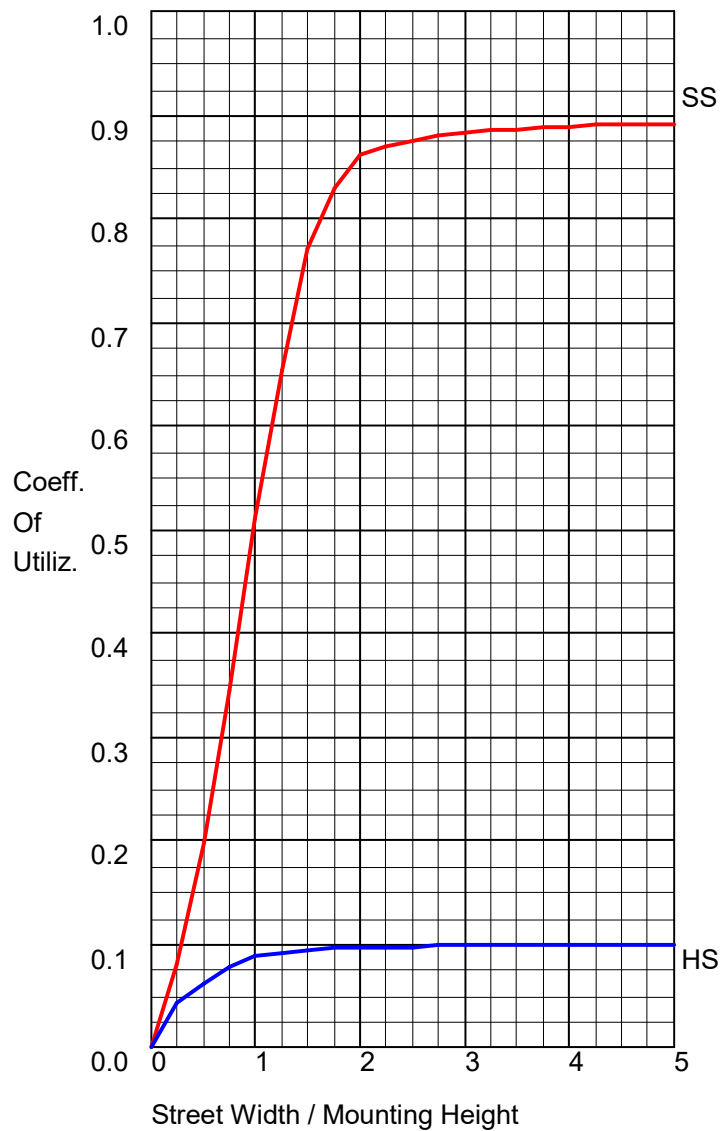
27.5	259	249
30.0	317	310
32.5	406	387
35.0	502	479
37.5	513	473
40.0	409	364
42.5	305	262
45.0	227	203
47.5	184	161
50.0	158	131
52.5	146	113
55.0	143	105
57.5	147	109
60.0	154	120
62.5	160	136
65.0	163	147
67.5	155	148
70.0	139	141
72.5	121	124
75.0	95	99
77.5	74	81
80.0	60	67
82.5	48	53
85.0	37	41
87.5	29	32
90.0	13	15
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	1	0
112.5	1	1
115.0	1	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	3	2
127.5	3	3
130.0	3	3
132.5	3	3
135.0	2	2
137.5	2	2
140.0	1	1
142.5	1	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

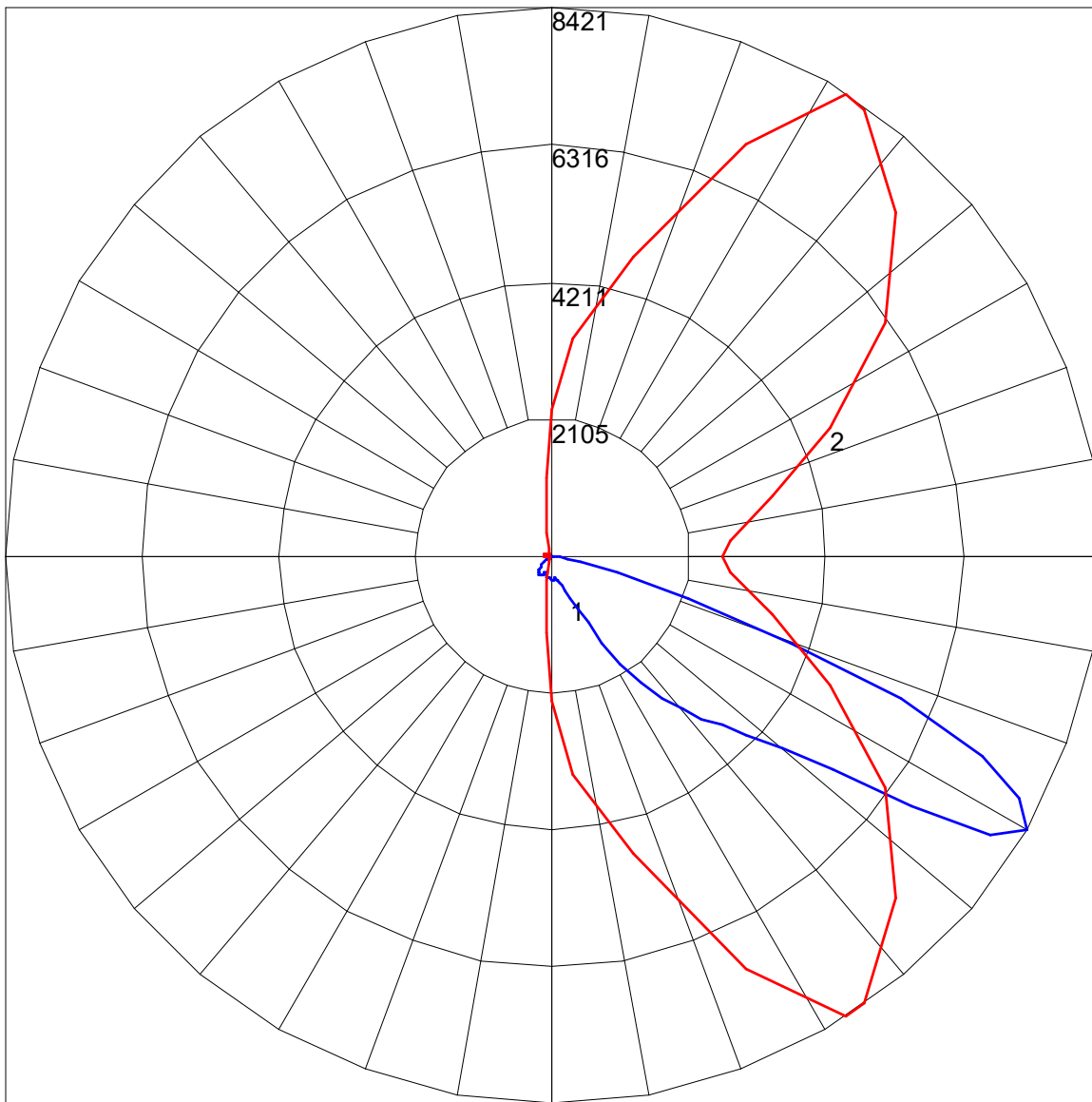
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

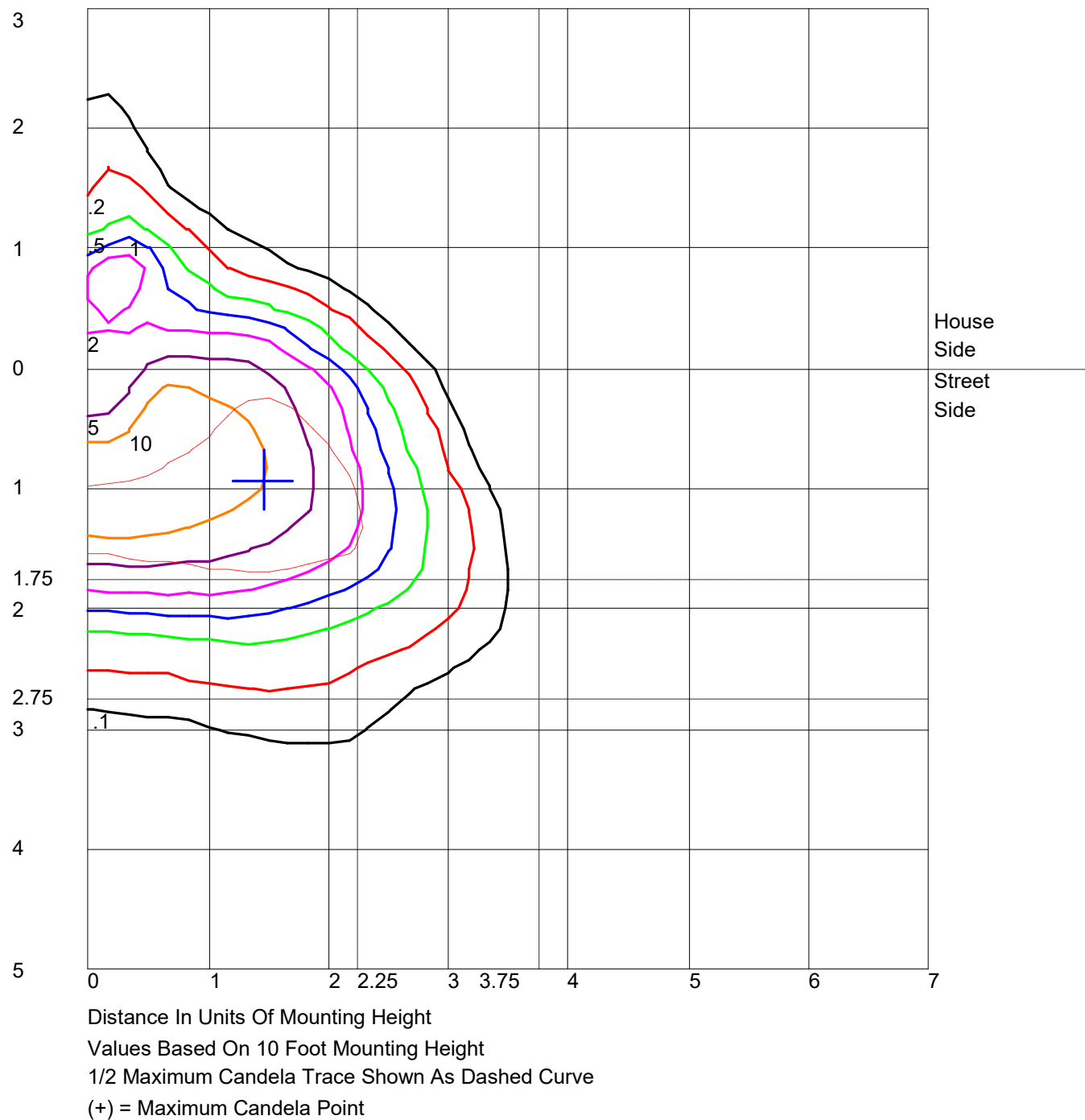
	Lumens	Percent Of Luminaire
Downward Street Side	6911.9	89.6
Downward House Side	776.3	10.1
Downward Total	7688.2	99.7
Upward Street Side	9.8	0.1
Upward House Side	12.8	0.2
Upward Total	22.6	0.3
Total Flux	7710.8	100.0

POLAR GRAPH

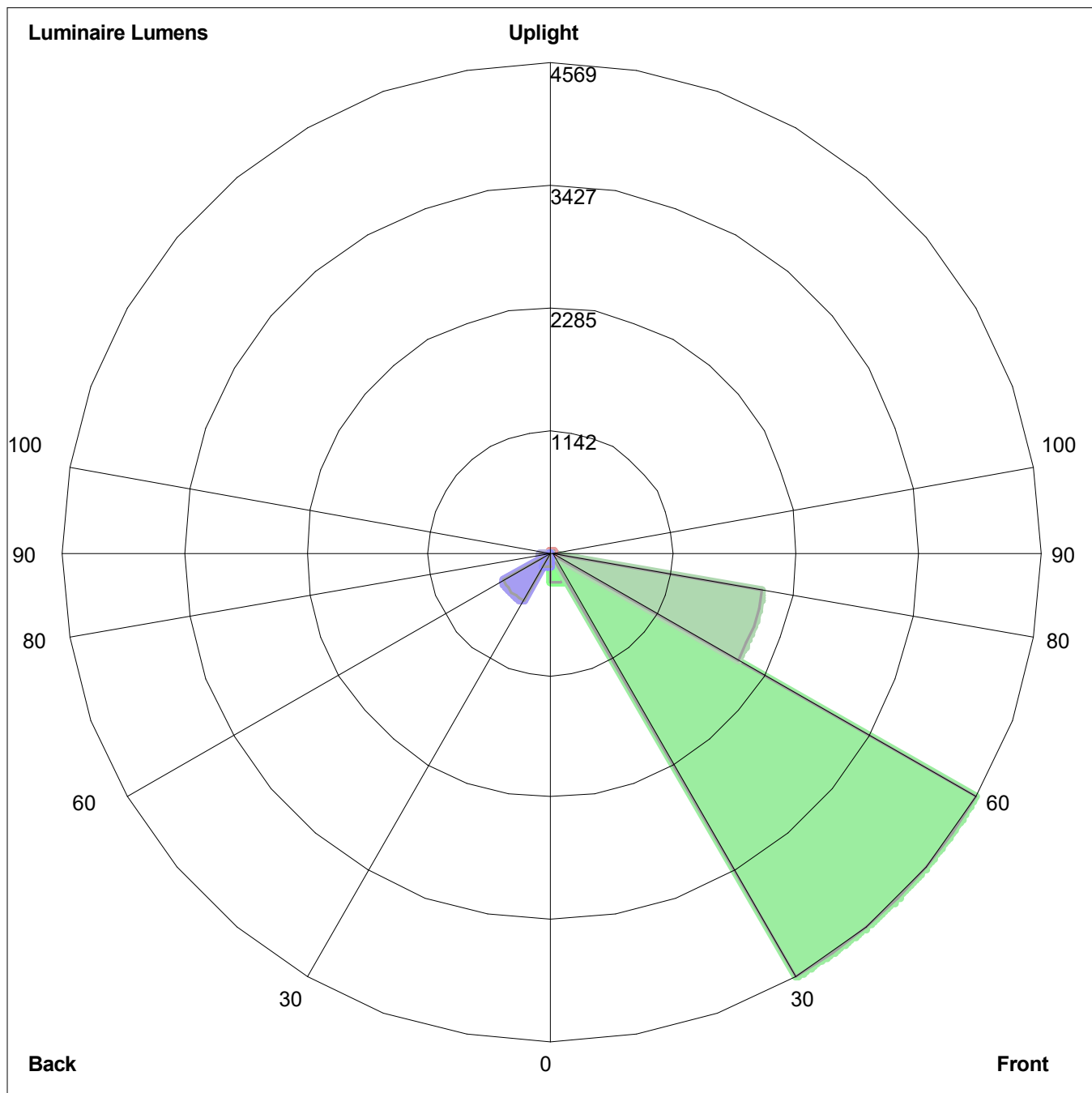


Maximum Candela = 8421 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=286.6, Medium=4569.4, High= 2008.0, Very High=47.8
Back: Low=138.7, Medium=522.8, High=103.4, Very High=11.4
Uplight: Low=5.4, High=17.3

BUG Rating : B1-U2-G2