



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-05L-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-5W-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2834
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2048
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2048
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	4 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	92 (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)	158.8	N.A.	5.6
FM - Front-Medium (30-60)	1280.4	N.A.	45.2
FH - Front-High (60-80)	832.9	N.A.	29.4
FVH - Front-Very High (80-90)	10.2	N.A.	0.4
BL - Back-Low (0-30)	90.2	N.A.	3.2
BM - Back-Medium (30-60)	334.6	N.A.	11.8
BH - Back-High (60-80)	118.7	N.A.	4.2
BVH - Back-Very High (80-90)	2.0	N.A.	0.1
UL - Uplight-Low (90-100)	1.5	N.A.	0.1
UH - Uplight-High (100-180)	4.8	N.A.	0.2
Total	2834.1	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	167	167	167	167	167	167	167	167	167	167
2.5	172	171	173	173	173	172	171	172	169	167
5.0	173	174	176	175	179	170	168	169	167	163
7.5	177	182	188	174	177	170	172	172	178	177
10.0	196	196	204	185	193	194	199	195	187	190
12.5	224	236	221	217	226	220	224	220	212	210
15.0	252	269	259	269	273	261	263	260	250	241
17.5	288	299	294	306	314	320	321	302	295	287
20.0	350	352	352	358	368	372	372	367	341	328
22.5	395	395	410	426	425	435	445	440	400	383
25.0	453	440	468	492	511	509	511	516	474	432
27.5	523	545	568	559	593	602	605	589	545	501
30.0	617	603	616	652	658	701	709	682	630	572
32.5	739	740	714	718	769	786	787	791	734	652
35.0	850	824	812	827	850	895	877	894	818	750
37.5	958	950	915	912	942	984	962	985	911	802
40.0	1022	1036	1014	1013	1040	1057	1057	1062	998	887
42.5	1078	1093	1083	1082	1115	1117	1117	1132	1059	945
45.0	1135	1145	1132	1151	1175	1191	1192	1180	1109	992
47.5	1179	1194	1194	1200	1226	1238	1240	1228	1158	1045
50.0	1222	1237	1246	1235	1265	1276	1284	1277	1211	1118
52.5	1267	1281	1290	1276	1317	1331	1338	1339	1274	1172
55.0	1307	1322	1345	1342	1375	1418	1433	1429	1357	1253
57.5	1361	1387	1413	1419	1479	1548	1571	1556	1421	1293
60.0	1356	1372	1445	1470	1579	1687	1691	1651	1452	1304
62.5	1235	1255	1361	1454	1640	1801	1800	1731	1466	1294
65.0	996	1004	1142	1306	1636	1923	1913	1795	1450	1268
67.5	569	578	724	991	1454	2023	2048	1872	1463	1202
70.0	122	119	183	484	1030	1811	1910	1762	1243	902
72.5	52	53	66	110	404	1173	1285	1224	803	541
75.0	31	33	36	49	100	406	539	593	397	244
77.5	16	16	19	24	41	80	106	196	184	115
80.0	12	12	13	14	20	31	34	56	92	62
82.5	11	11	11	12	14	17	18	26	47	51
85.0	8	8	9	10	12	14	15	18	26	41
87.5	5	5	6	6	8	10	11	13	19	24
90.0	3	3	3	3	3	3	3	2	3	3
92.5	1	1	1	1	1	1	1	1	1	1
95.0	0	0	0	0	1	1	1	1	1	1
97.5	0	0	0	0	0	1	1	1	1	1
100.0	0	0	0	0	0	1	1	1	1	1
102.5	0	0	0	0	1	1	1	1	1	1
105.0	1	0	0	0	1	1	1	1	1	1
107.5	1	1	0	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1	1	1	1
115.0	1	1	1	1	1	1	1	1	1	1
117.5	1	1	1	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	2	2	1	1	1	1	1	1	1	1
127.5	2	2	2	1	1	1	1	1	1	1
130.0	2	2	2	1	1	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

132.5	2	2	2	1	1	1	1	1	1	1
135.0	2	2	1	1	1	1	1	1	1	1
137.5	1	1	1	1	1	1	1	1	1	1
140.0	0	0	0	0	0	0	0	0	0	1
142.5	0	0	0	0	0	0	0	0	0	1
145.0	0	0	0	0	0	0	0	0	0	1
147.5	0	0	0	0	0	0	0	0	0	1
150.0	0	0	0	0	0	0	0	0	0	1
152.5	0	0	0	0	0	0	0	0	0	1
155.0	0	0	0	0	0	0	0	0	0	1
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
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	167	167	167	167	167	167	167	167	167	167
2.5	167	167	167	166	165	164	164	165	164	162
5.0	161	161	157	155	158	156	152	153	150	148
7.5	167	167	165	165	157	147	139	140	136	138
10.0	177	172	170	175	152	148	141	135	131	133
12.5	197	194	188	177	158	150	144	147	146	150
15.0	219	212	205	185	166	163	165	167	165	161
17.5	253	242	228	203	180	184	190	184	176	174
20.0	294	282	263	226	205	211	207	201	195	186
22.5	349	320	301	260	240	243	232	223	205	196
25.0	389	367	339	287	288	278	261	237	217	186
27.5	442	412	387	331	340	313	283	250	201	154
30.0	511	463	436	387	400	364	324	235	152	106
32.5	559	518	482	452	458	418	327	178	101	72
35.0	636	579	539	526	522	475	292	119	68	54
37.5	702	647	603	604	585	492	211	79	52	44
40.0	750	700	652	682	654	445	132	58	43	38
42.5	802	750	701	738	704	349	82	47	36	33
45.0	863	808	762	805	724	230	61	39	32	28
47.5	915	864	818	879	683	140	47	33	26	22
50.0	978	932	888	959	575	91	37	27	21	17
52.5	1046	1001	962	1037	421	64	31	22	16	12
55.0	1115	1070	1059	1111	262	45	25	17	12	8
57.5	1163	1105	1132	1112	177	33	20	12	8	5
60.0	1177	1116	1151	978	145	26	15	8	5	2
62.5	1162	1102	1150	757	137	24	11	5	3	1
65.0	1123	1058	1119	500	138	30	7	3	2	1
67.5	1023	971	1037	289	136	43	5	2	2	1
70.0	732	699	750	147	108	56	5	2	2	1
72.5	420	399	418	52	48	55	5	3	2	1
75.0	182	170	177	28	19	23	4	2	1	0
77.5	83	75	72	17	9	11	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	49	43	34	10	6	5	2	1	0	0
82.5	36	31	23	6	5	4	2	2	0	0
85.0	25	20	12	4	4	4	3	2	0	0
87.5	14	7	4	3	4	3	3	2	0	0
90.0	3	1	2	3	4	4	3	2	0	0
92.5	1	1	2	3	4	4	3	2	0	1
95.0	1	1	2	3	4	4	3	2	0	1
97.5	1	1	2	2	3	3	2	1	0	0
100.0	1	1	1	2	2	2	2	1	1	0
102.5	1	1	1	2	2	2	2	1	1	0
105.0	1	1	1	1	2	2	2	1	1	0
107.5	1	1	1	1	2	2	1	1	1	1
110.0	1	1	1	1	2	2	1	1	1	1
112.5	1	1	1	1	2	2	1	1	1	1
115.0	1	1	1	2	2	2	1	1	1	1
117.5	1	1	1	2	2	2	1	1	1	1
120.0	1	1	1	2	2	2	2	1	1	1
122.5	1	1	2	2	2	2	2	1	1	1
125.0	1	2	2	2	2	2	2	1	1	1
127.5	2	2	2	2	2	2	2	1	1	1
130.0	2	2	2	2	2	2	2	1	1	1
132.5	2	2	2	2	2	2	2	1	1	1
135.0	1	1	2	2	2	2	2	1	1	1
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	0
142.5	1	1	1	1	1	1	1	1	1	0
145.0	1	1	1	1	1	1	1	1	0	0
147.5	1	1	1	1	1	1	1	1	0	0
150.0	1	1	1	1	1	1	1	1	0	0
152.5	1	1	1	1	1	1	1	1	0	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	0	1	1	1	1	1	1	0	0	0
162.5	0	1	1	1	1	1	1	0	0	0
165.0	0	1	1	1	1	1	1	0	0	0
167.5	0	0	0	1	1	1	0	0	0	0
170.0	0	0	0	0	1	1	0	0	0	0
172.5	0	0	0	0	0	1	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. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	167	167
2.5	158	158
5.0	144	143
7.5	135	133
10.0	136	130
12.5	152	146
15.0	165	158
17.5	175	166
20.0	186	177
22.5	186	179
25.0	168	167

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CANDELA TABULATION - (Cont.)

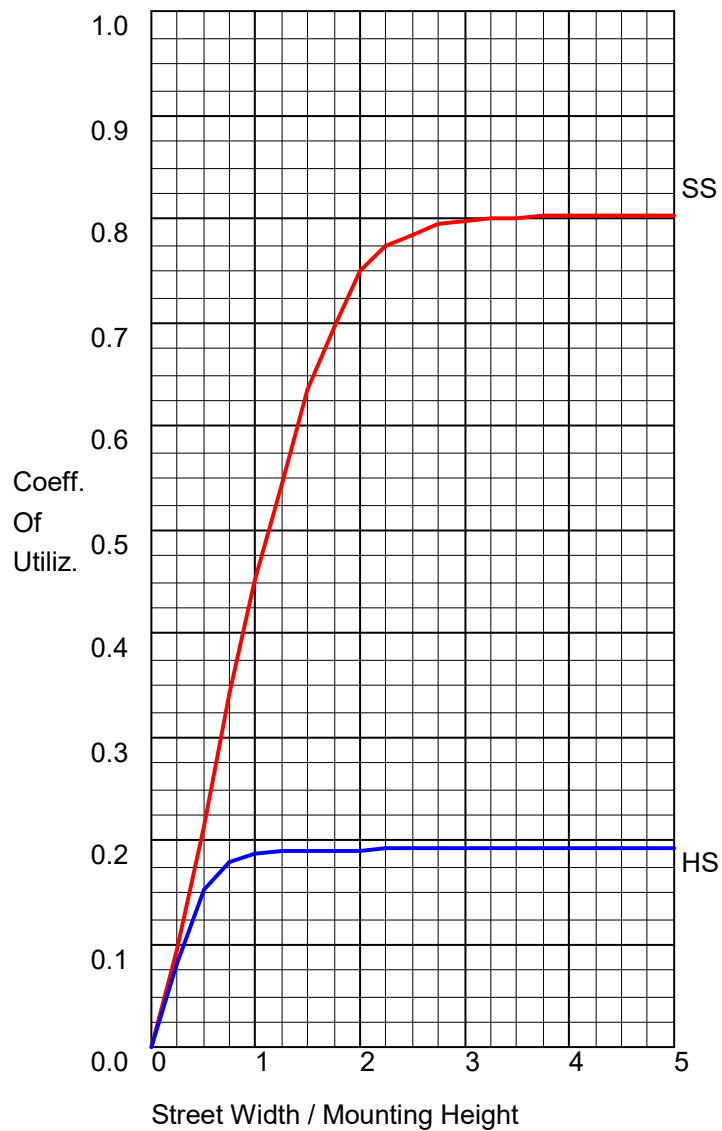
27.5	131	128
30.0	90	84
32.5	62	61
35.0	50	50
37.5	43	43
40.0	36	37
42.5	32	32
45.0	26	26
47.5	21	20
50.0	15	15
52.5	10	10
55.0	6	6
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	0	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	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

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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	0	0

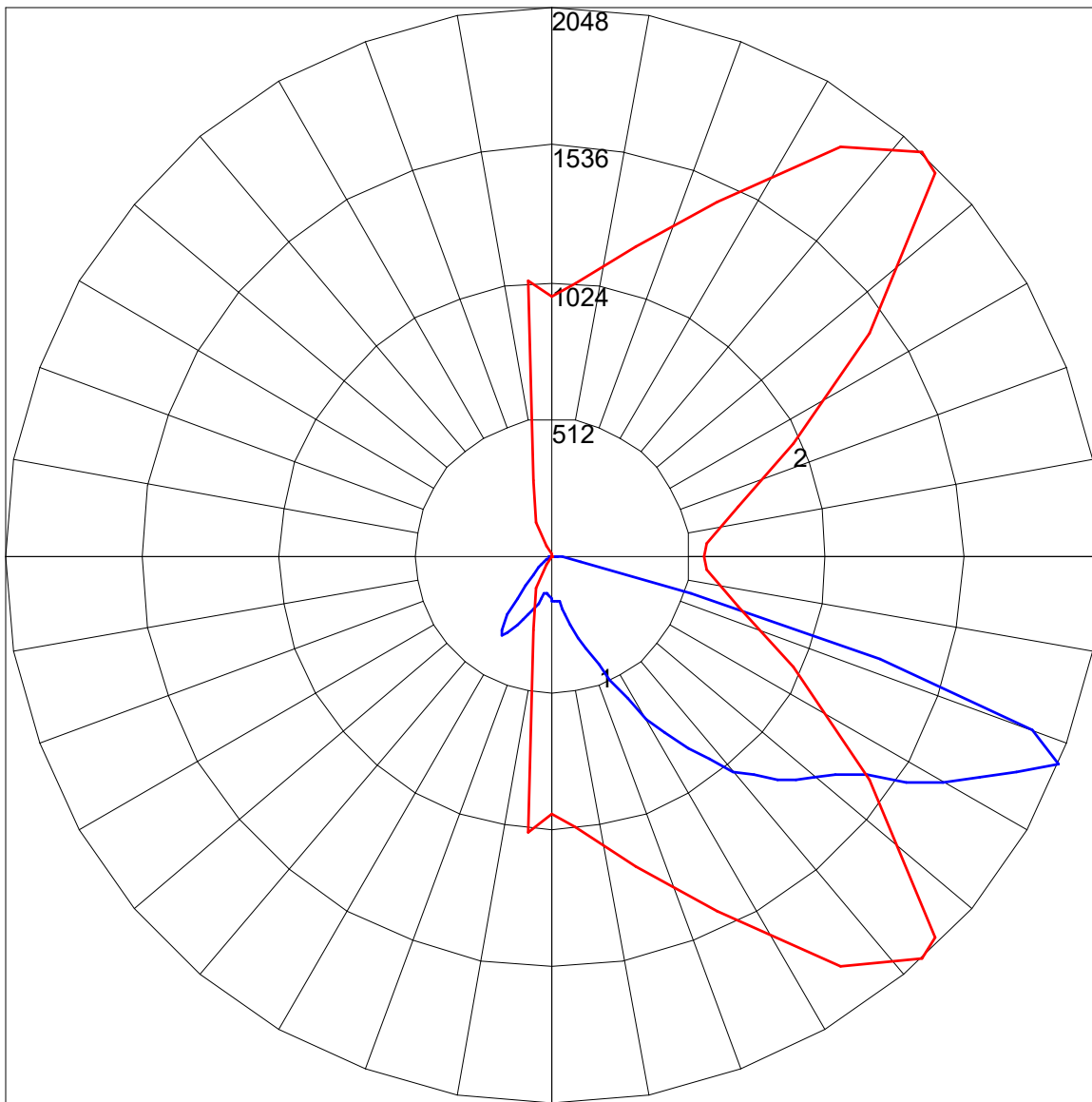
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

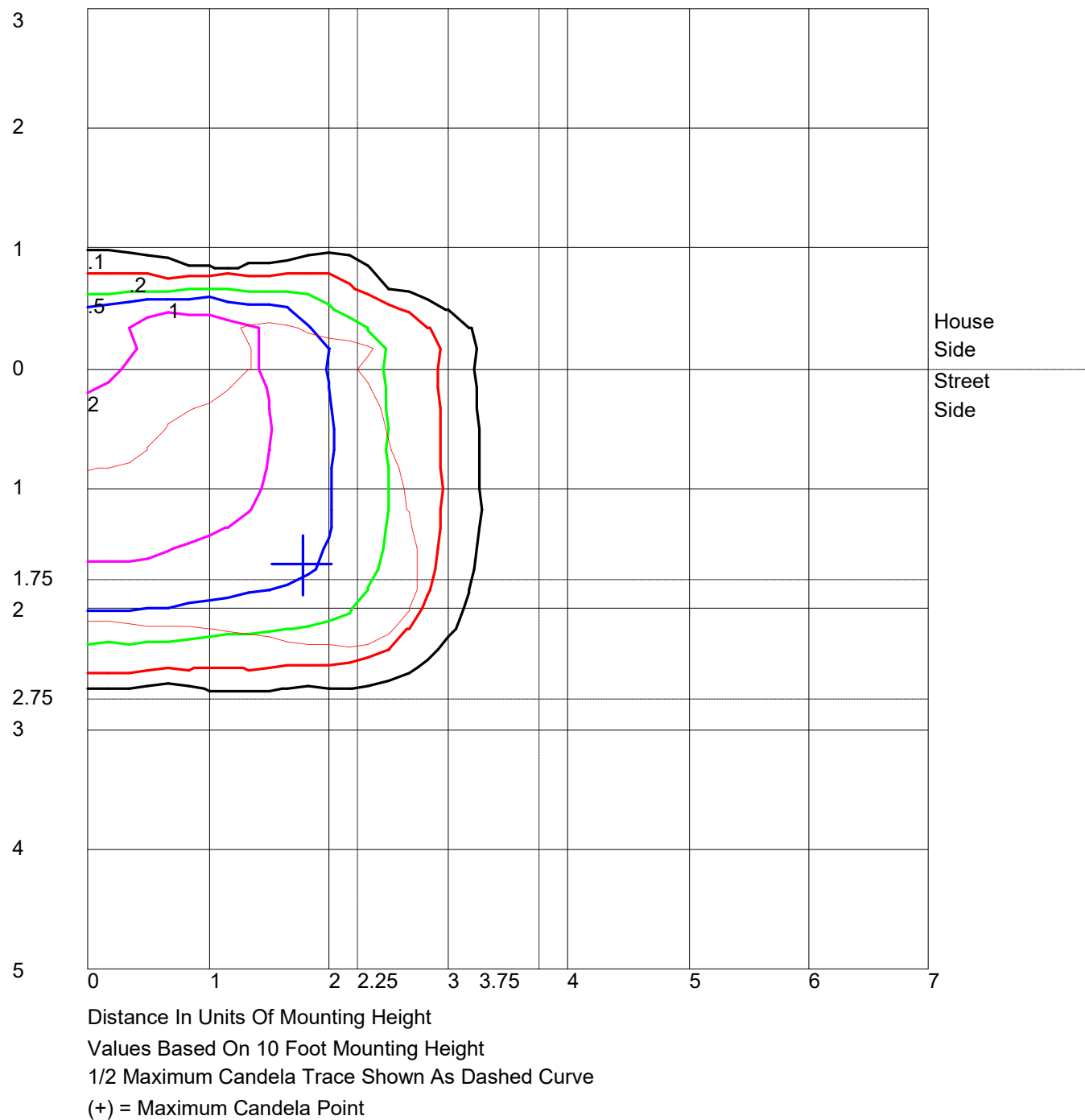
	Lumens	Percent Of Luminaire
Downward Street Side	2282.3	80.5
Downward House Side	545.6	19.2
Downward Total	2827.9	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	2834.3	100.0

POLAR GRAPH

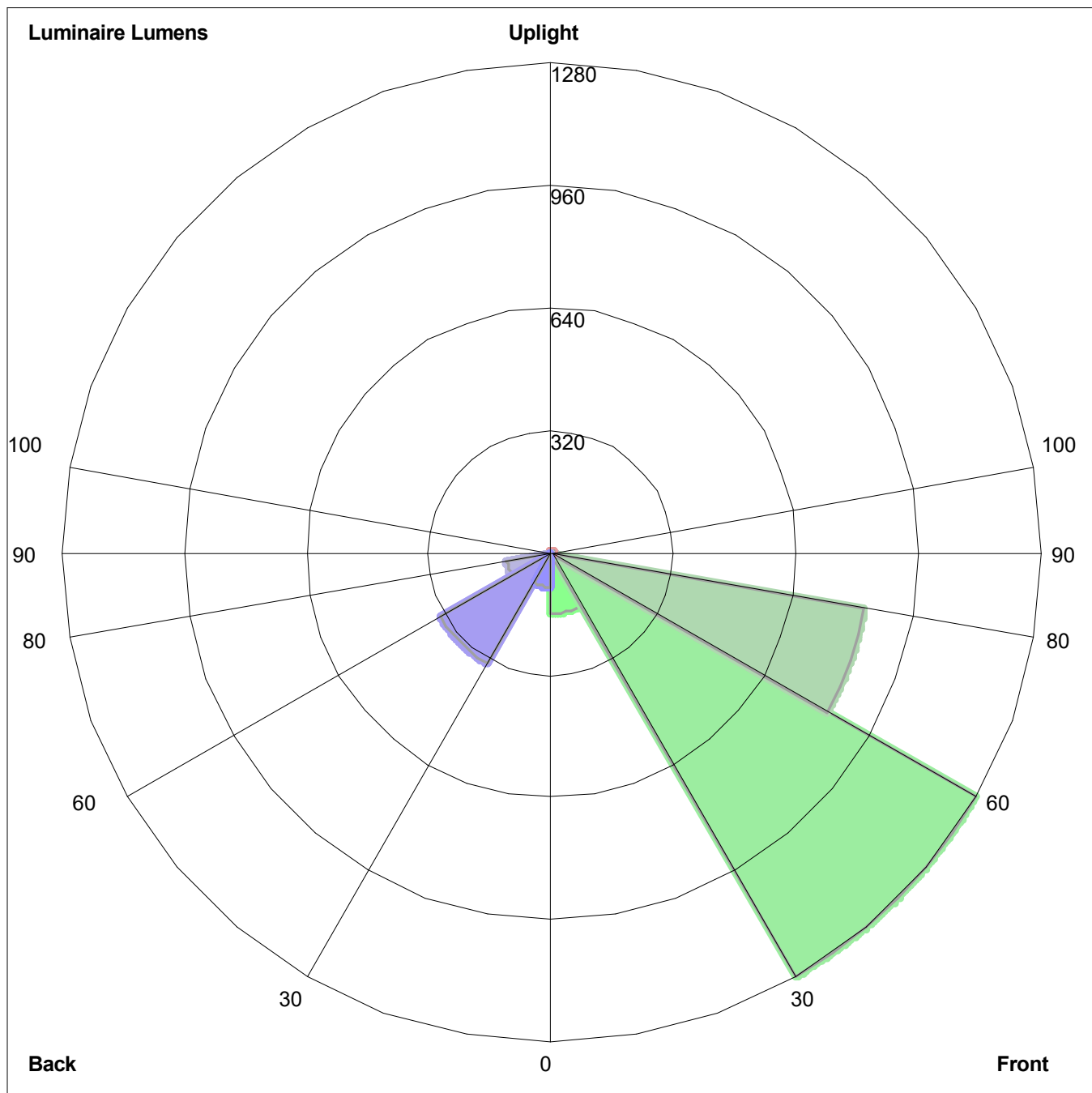


Maximum Candela = 2048 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=158.8, Medium=1280.4, High=832.9, Very High=10.2
Back: Low=90.2, Medium=334.6, High=118.7, Very High=2.0
Uplight: Low=1.5, High=4.8

BUG Rating : B1-U1-G1