



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-05L-40-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-40-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	3130
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2263
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2263
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	102 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	175.5	N.A.	5.6
FM - Front-Medium (30-60)	1414.5	N.A.	45.2
FH - Front-High (60-80)	920.1	N.A.	29.4
FVH - Front-Very High (80-90)	11.3	N.A.	0.4
BL - Back-Low (0-30)	99.7	N.A.	3.2
BM - Back-Medium (30-60)	369.6	N.A.	11.8
BH - Back-High (60-80)	131.0	N.A.	4.2
BVH - Back-Very High (80-90)	2.1	N.A.	0.1
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	4.8	N.A.	0.2
Total	3130.1	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	185	185	185	185	185	185	185	185	185	185
2.5	190	189	191	191	191	190	189	190	187	185
5.0	191	192	194	193	198	188	186	187	184	180
7.5	196	201	208	192	195	188	190	190	197	196
10.0	217	217	225	204	213	214	220	215	207	210
12.5	248	261	244	240	250	243	247	243	234	232
15.0	278	297	286	297	302	288	290	287	276	266
17.5	318	330	325	338	347	354	355	334	326	317
20.0	387	389	389	396	406	411	411	405	377	362
22.5	436	436	453	471	469	481	492	486	442	423
25.0	500	486	517	544	564	562	565	570	524	477
27.5	578	602	628	617	655	665	668	651	602	553
30.0	682	666	680	720	727	774	783	753	696	632
32.5	816	818	789	793	849	868	869	874	811	720
35.0	939	910	897	914	939	989	969	988	904	829
37.5	1058	1050	1011	1008	1041	1087	1063	1088	1006	886
40.0	1129	1145	1120	1119	1149	1168	1168	1173	1103	980
42.5	1191	1207	1196	1195	1232	1234	1234	1251	1170	1044
45.0	1254	1265	1250	1271	1298	1316	1317	1304	1225	1096
47.5	1303	1319	1319	1326	1354	1368	1370	1357	1279	1154
50.0	1350	1367	1376	1364	1398	1410	1419	1411	1338	1235
52.5	1400	1415	1425	1410	1455	1470	1478	1479	1407	1295
55.0	1444	1461	1486	1483	1519	1567	1583	1579	1499	1384
57.5	1503	1532	1561	1568	1634	1710	1736	1719	1570	1428
60.0	1498	1516	1596	1624	1744	1864	1868	1824	1604	1441
62.5	1364	1386	1503	1606	1812	1990	1988	1912	1620	1430
65.0	1100	1109	1262	1443	1807	2124	2113	1983	1602	1401
67.5	629	638	800	1095	1606	2235	2263	2068	1616	1328
70.0	135	131	202	535	1138	2001	2110	1946	1373	997
72.5	57	59	73	122	446	1296	1420	1352	887	598
75.0	34	36	40	54	110	448	596	655	439	270
77.5	18	18	21	27	45	88	117	216	203	127
80.0	13	13	14	16	22	34	38	62	102	69
82.5	12	12	12	13	16	19	20	29	52	56
85.0	9	9	10	11	13	16	17	20	29	45
87.5	6	6	7	7	9	11	12	14	21	26
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	185	185	185	185	185	185	185	185	185	185
2.5	184	184	185	183	182	181	181	182	181	179
5.0	178	178	173	171	174	172	168	169	166	163
7.5	185	185	182	182	173	162	154	155	150	153
10.0	195	190	188	193	168	163	156	149	145	147
12.5	218	214	208	195	175	166	159	162	161	166
15.0	242	234	226	204	183	180	182	185	182	178
17.5	280	267	252	224	199	203	210	203	194	192
20.0	325	312	291	250	227	233	229	222	215	206
22.5	386	354	332	287	265	269	256	246	226	216
25.0	430	405	375	317	318	307	288	262	240	205
27.5	488	455	428	366	376	346	313	276	222	170
30.0	565	512	482	428	442	402	358	260	168	117
32.5	617	572	533	499	506	462	361	197	112	80
35.0	703	640	596	581	577	525	323	132	75	60
37.5	775	715	666	667	646	544	233	87	57	49
40.0	829	773	720	753	722	492	146	64	47	42
42.5	886	828	774	815	778	386	91	52	40	36
45.0	953	893	842	889	800	254	67	43	35	31
47.5	1011	955	904	971	754	155	52	36	29	24
50.0	1080	1030	981	1059	635	100	41	30	23	19
52.5	1155	1106	1063	1146	465	71	34	24	18	13
55.0	1232	1182	1170	1227	289	50	28	19	13	9
57.5	1285	1221	1250	1228	195	36	22	13	9	5
60.0	1300	1233	1272	1080	160	29	17	9	5	2
62.5	1284	1217	1270	836	151	26	12	5	3	1
65.0	1241	1169	1236	552	152	33	8	3	2	1
67.5	1130	1073	1146	319	150	48	6	2	2	1
70.0	809	772	829	162	119	62	6	2	2	1
72.5	464	441	462	57	53	61	5	3	2	1
75.0	201	188	195	31	21	25	4	2	1	0
77.5	92	83	80	19	10	12	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	54	47	38	11	7	6	2	1	0	0
82.5	40	34	25	7	5	4	2	2	0	0
85.0	28	22	13	4	4	4	3	2	0	0
87.5	16	8	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	185	185
2.5	175	175
5.0	159	158
7.5	149	147
10.0	150	144
12.5	168	161
15.0	182	174
17.5	193	183
20.0	206	196
22.5	205	198
25.0	186	184

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CANDELA TABULATION - (Cont.)

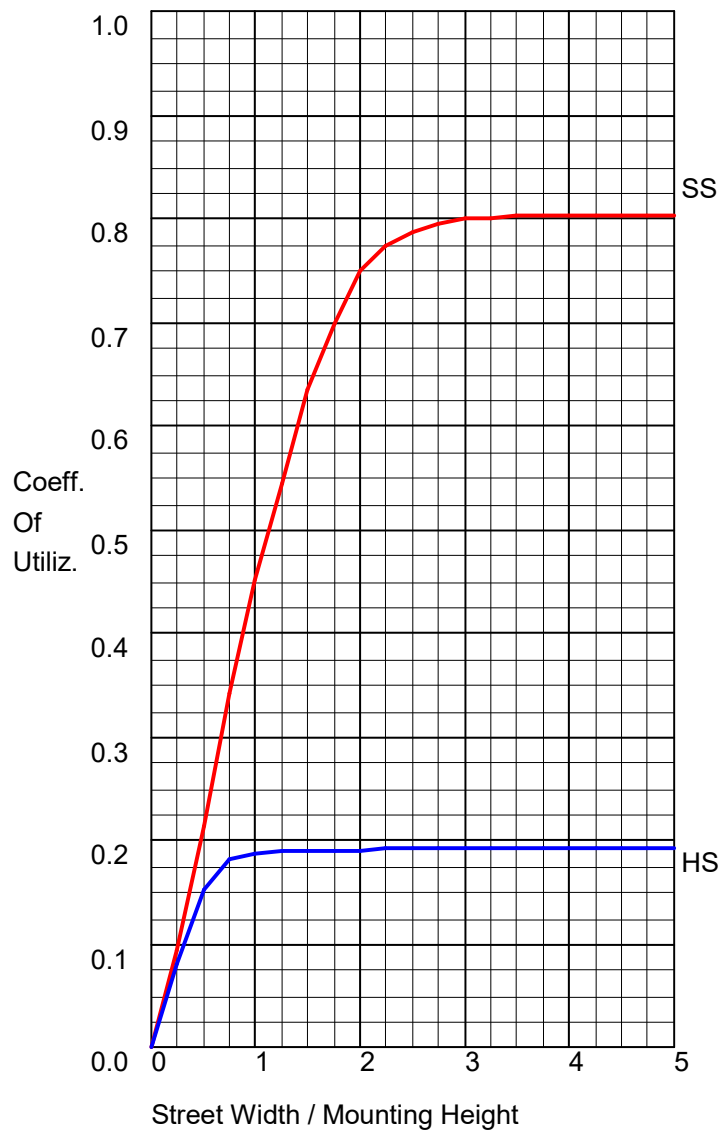
27.5	145	141
30.0	99	93
32.5	69	67
35.0	55	55
37.5	47	47
40.0	40	41
42.5	35	35
45.0	29	29
47.5	23	22
50.0	17	17
52.5	11	11
55.0	7	7
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	0	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	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

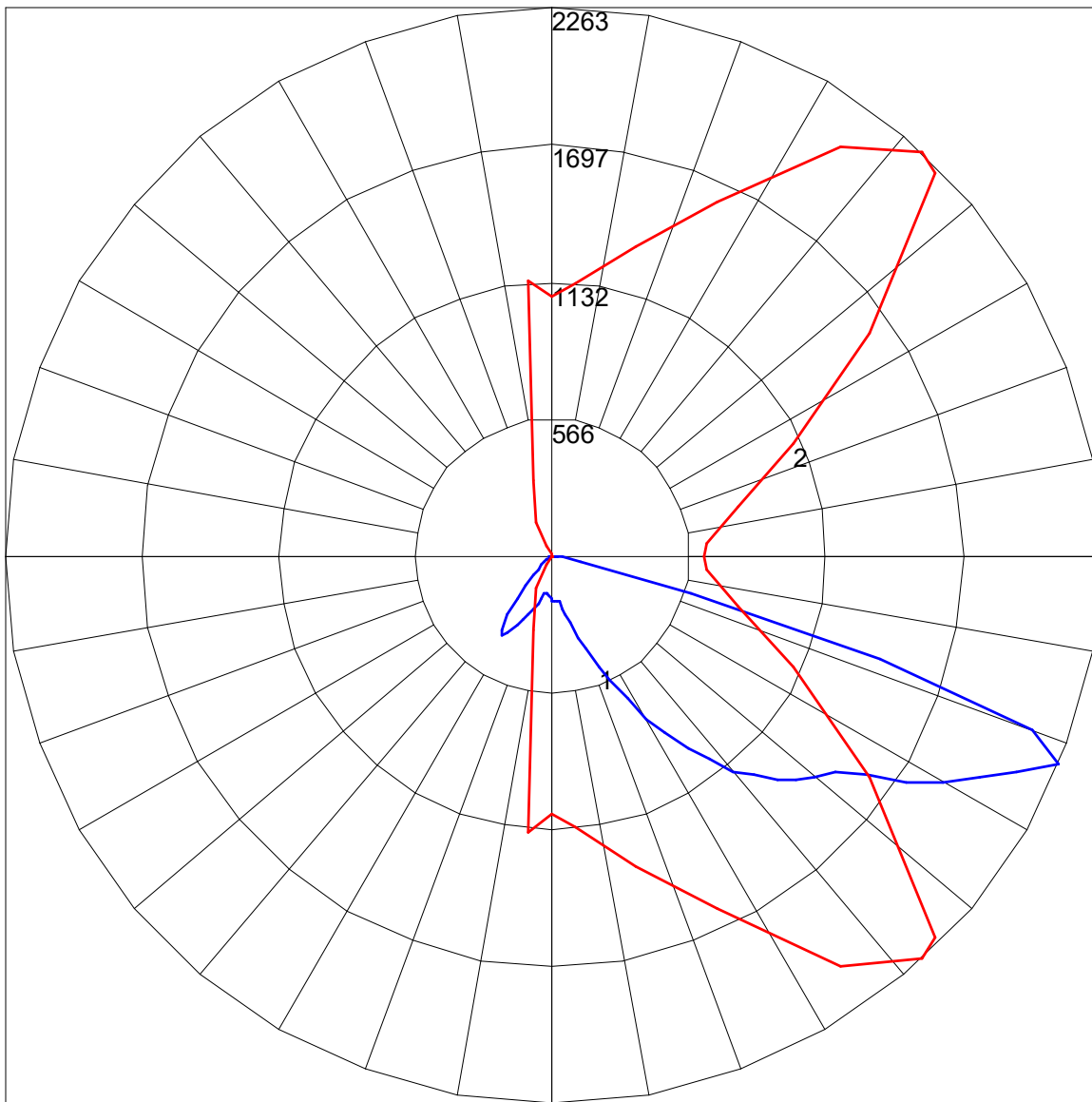
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

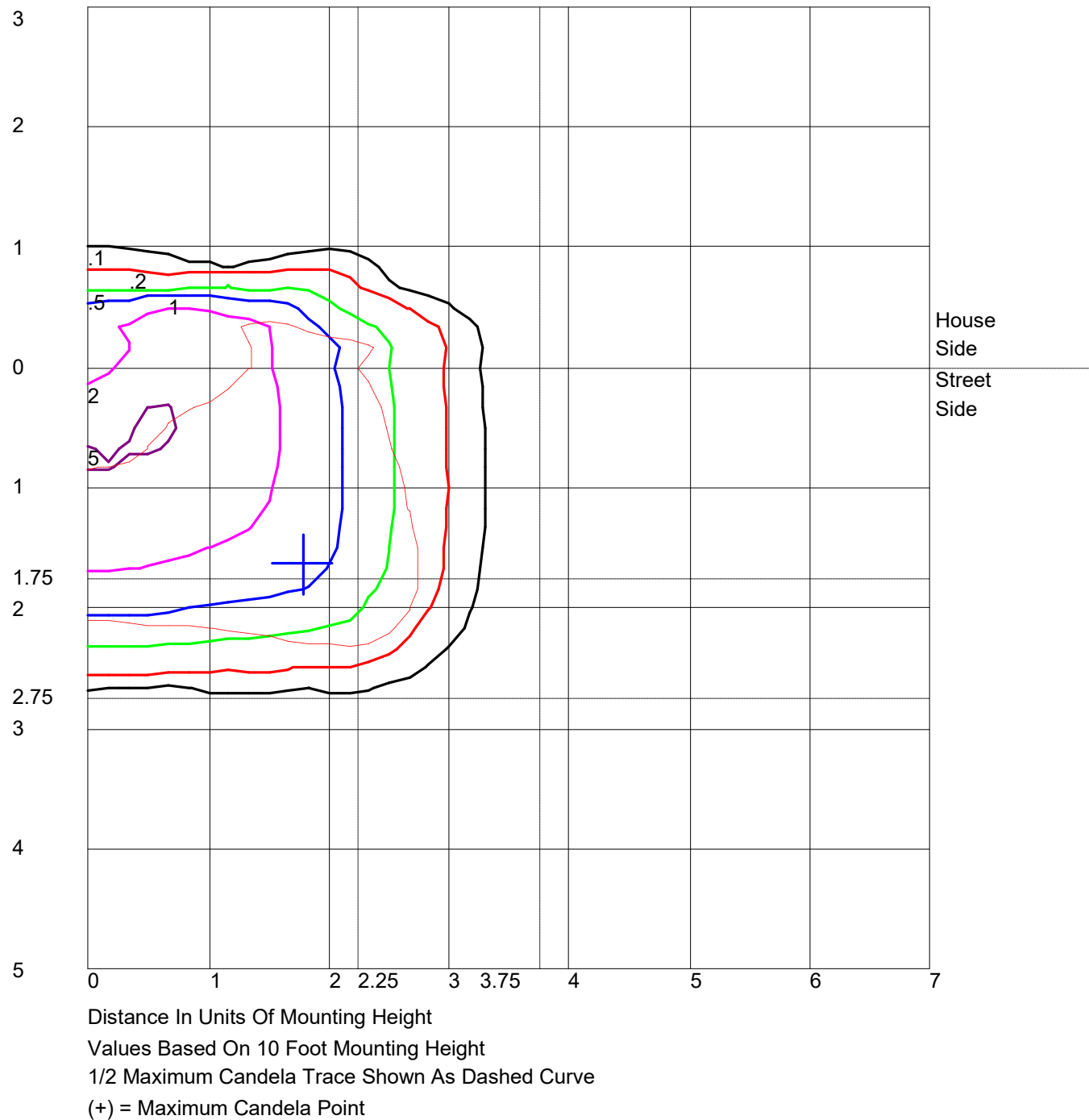
	Lumens	Percent Of Luminaire
Downward Street Side	2521.4	80.6
Downward House Side	602.5	19.2
Downward Total	3123.9	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	3130.3	100.0

POLAR GRAPH

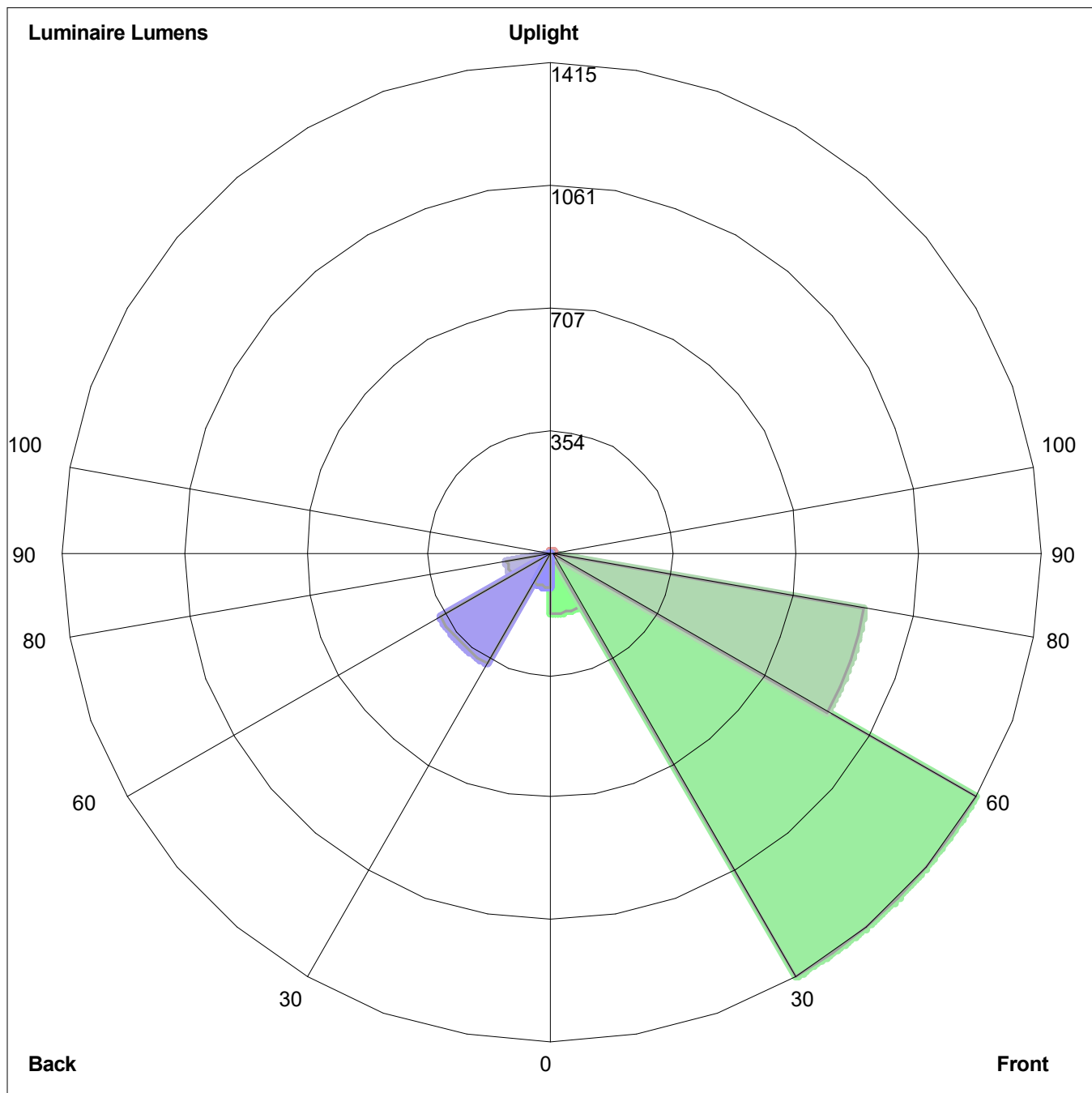


Maximum Candela = 2263 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=175.5, Medium=1414.5, High=920.1, Very High=11.3
Back: Low=99.7, Medium=369.6, High=131.0, Very High=2.1
Uplight: Low=1.5, High=4.8

BUG Rating : B1-U1-G1