



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-05L-50-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-50-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	3285
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2375
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2375
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	107 (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)	184.2	N.A.	5.6
FM - Front-Medium (30-60)	1484.7	N.A.	45.2
FH - Front-High (60-80)	965.8	N.A.	29.4
FVH - Front-Very High (80-90)	11.8	N.A.	0.4
BL - Back-Low (0-30)	104.6	N.A.	3.2
BM - Back-Medium (30-60)	388.0	N.A.	11.8
BH - Back-High (60-80)	137.5	N.A.	4.2
BVH - Back-Very High (80-90)	2.2	N.A.	0.1
UL - Uplight-Low (90-100)	1.5	N.A.	0.0
UH - Uplight-High (100-180)	4.8	N.A.	0.1
Total	3285.1	N.A.	100.0
BUG Rating	B1-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	47.5	55.0	65.0	75.0
0.0	194	194	194	194	194	194	194	194	194	194
2.5	199	198	200	200	200	199	198	199	196	194
5.0	200	202	204	203	208	197	195	196	193	189
7.5	206	211	218	202	205	197	199	199	207	206
10.0	228	228	236	214	224	225	231	226	217	220
12.5	260	274	256	252	262	255	259	255	246	244
15.0	292	312	300	312	317	302	304	301	290	279
17.5	334	346	341	355	364	372	373	351	342	333
20.0	406	408	408	416	426	431	431	425	396	380
22.5	458	458	475	494	492	505	516	510	464	444
25.0	525	510	543	571	592	590	593	598	550	501
27.5	607	632	659	648	687	698	701	683	632	580
30.0	716	699	714	756	763	812	822	790	731	663
32.5	856	859	828	832	891	911	912	917	851	756
35.0	986	955	941	959	986	1038	1017	1037	949	870
37.5	1110	1102	1061	1058	1093	1141	1116	1142	1056	930
40.0	1185	1202	1176	1175	1206	1226	1226	1231	1158	1029
42.5	1250	1267	1255	1254	1293	1295	1295	1313	1228	1096
45.0	1316	1328	1312	1334	1362	1381	1382	1369	1286	1150
47.5	1368	1384	1384	1392	1421	1436	1438	1424	1342	1211
50.0	1417	1435	1444	1432	1467	1480	1489	1481	1404	1296
52.5	1469	1485	1496	1480	1527	1543	1551	1552	1477	1359
55.0	1516	1533	1560	1557	1594	1645	1662	1657	1573	1453
57.5	1578	1608	1638	1646	1715	1795	1822	1804	1648	1499
60.0	1572	1591	1675	1705	1831	1956	1961	1914	1684	1512
62.5	1432	1455	1578	1686	1902	2089	2087	2007	1700	1501
65.0	1155	1164	1325	1515	1897	2229	2218	2081	1681	1470
67.5	660	670	840	1149	1686	2346	2375	2171	1696	1394
70.0	142	137	212	562	1194	2100	2215	2043	1441	1046
72.5	60	62	77	128	468	1360	1490	1419	931	628
75.0	36	38	42	57	115	470	626	687	461	283
77.5	19	19	22	28	47	92	123	227	213	133
80.0	14	14	15	17	23	36	40	65	107	72
82.5	13	13	13	14	17	20	21	30	55	59
85.0	9	9	10	12	14	17	18	21	30	47
87.5	6	6	7	7	9	12	13	15	22	27
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

IES ROAD REPORT
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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	194	194	194	194	194	194	194	194	194	194
2.5	193	193	194	192	191	190	190	191	190	188
5.0	187	187	182	179	183	181	176	177	174	171
7.5	194	194	191	191	182	170	162	163	157	161
10.0	205	199	197	203	176	171	164	156	152	154
12.5	229	225	218	205	184	174	167	170	169	174
15.0	254	246	237	214	192	189	191	194	191	187
17.5	294	280	264	235	209	213	220	213	204	202
20.0	341	327	305	262	238	245	240	233	226	216
22.5	405	372	348	301	278	282	269	258	237	227
25.0	451	425	394	333	334	322	302	275	252	215
27.5	512	478	449	384	395	363	329	290	233	178
30.0	593	537	506	449	464	422	376	273	176	123
32.5	648	600	559	524	531	485	379	207	118	84
35.0	738	672	626	610	606	551	339	139	79	63
37.5	813	750	699	700	678	571	245	91	60	51
40.0	870	811	756	790	758	516	153	67	49	44
42.5	930	869	812	855	817	405	96	55	42	38
45.0	1000	937	884	933	840	267	70	45	37	33
47.5	1061	1002	949	1019	791	163	55	38	30	25
50.0	1134	1081	1030	1112	666	105	43	31	24	20
52.5	1212	1161	1116	1203	488	75	36	25	19	14
55.0	1293	1241	1228	1288	303	52	29	20	14	9
57.5	1349	1282	1312	1289	205	38	23	14	9	5
60.0	1364	1294	1335	1134	168	30	18	9	5	2
62.5	1348	1277	1333	877	158	27	13	5	3	1
65.0	1303	1227	1297	579	160	35	8	3	2	1
67.5	1186	1126	1203	335	157	50	6	2	2	1
70.0	849	810	870	170	125	65	6	2	2	1
72.5	487	463	485	60	56	64	5	3	2	1
75.0	211	197	205	33	22	26	4	2	1	0
77.5	97	87	84	20	10	13	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	57	49	40	12	7	6	2	1	0	0
82.5	42	36	26	7	5	4	2	2	0	0
85.0	29	23	14	4	4	4	3	2	0	0
87.5	17	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	194	194
2.5	184	184
5.0	167	166
7.5	156	154
10.0	157	151
12.5	176	169
15.0	191	183
17.5	203	192
20.0	216	206
22.5	215	208
25.0	195	193

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CANDELA TABULATION - (Cont.)

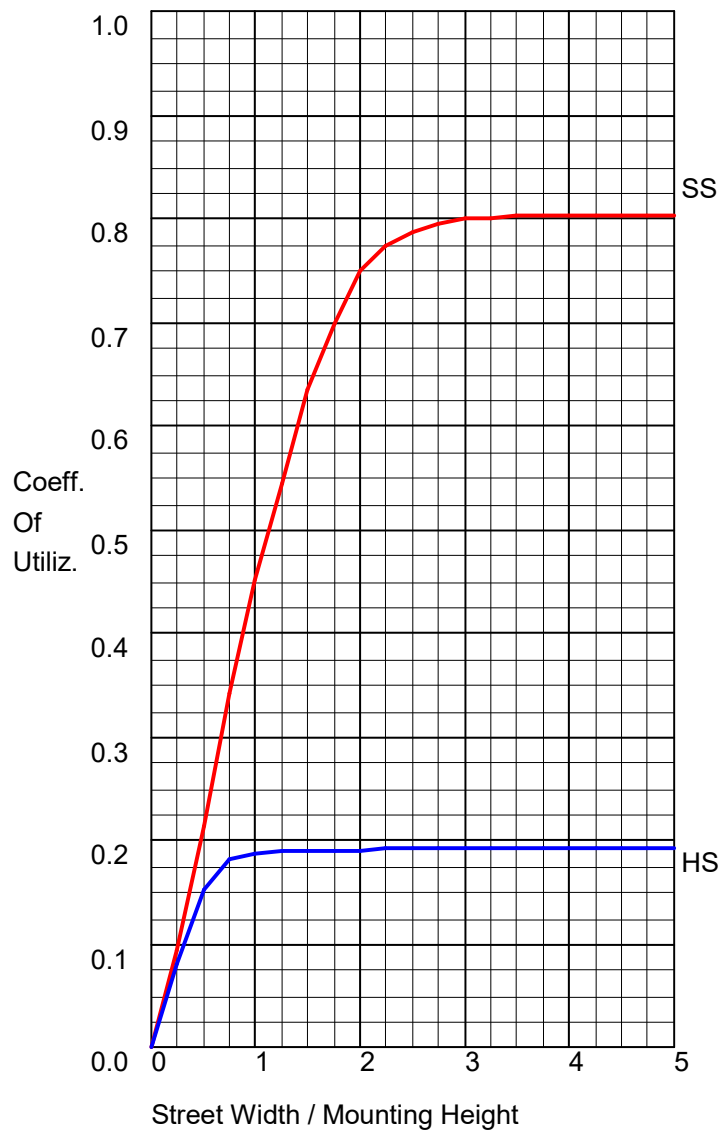
27.5	152	148
30.0	104	98
32.5	72	70
35.0	58	58
37.5	49	49
40.0	42	43
42.5	37	37
45.0	30	30
47.5	24	23
50.0	18	18
52.5	12	12
55.0	7	7
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	0	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	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

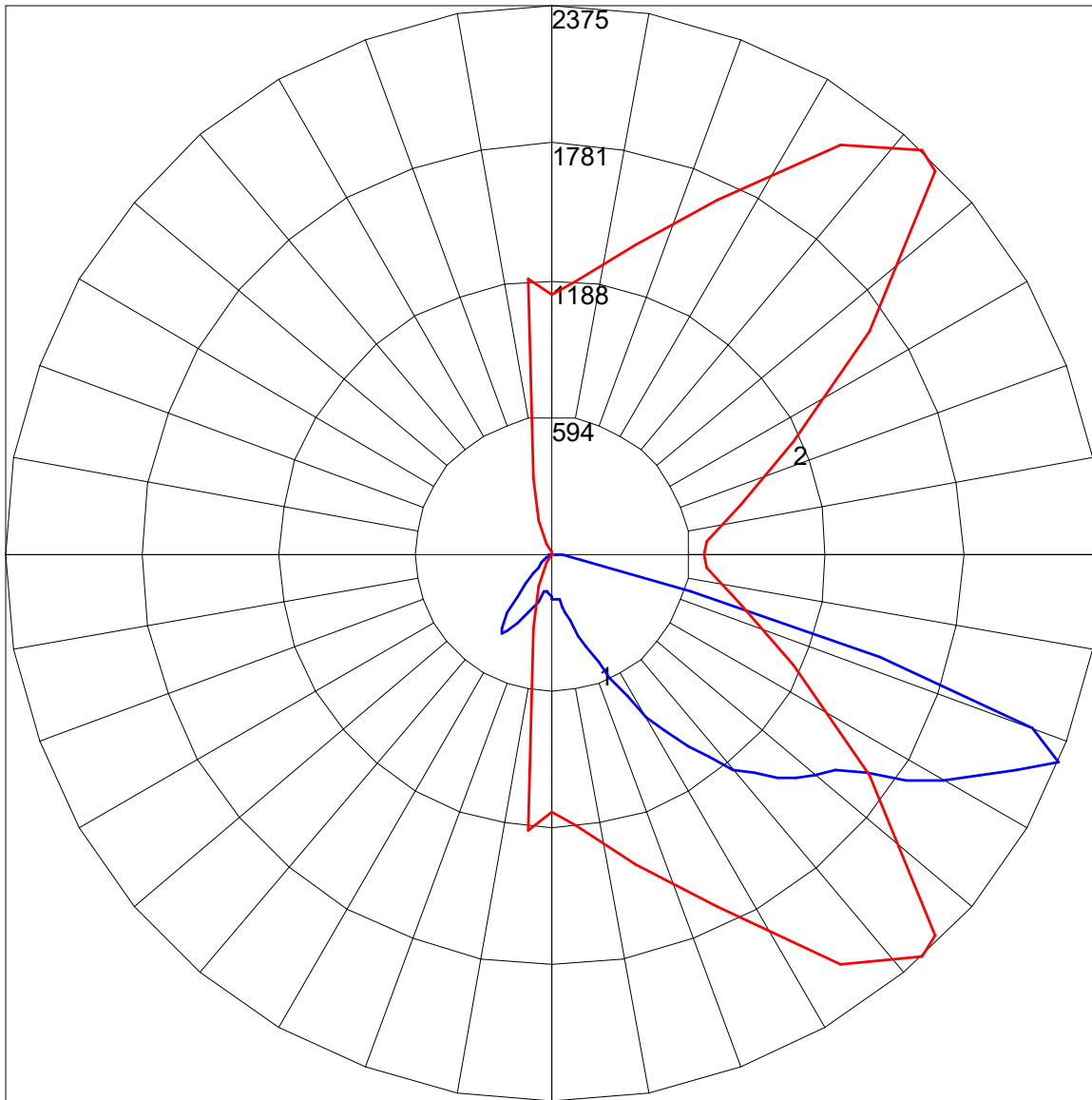
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

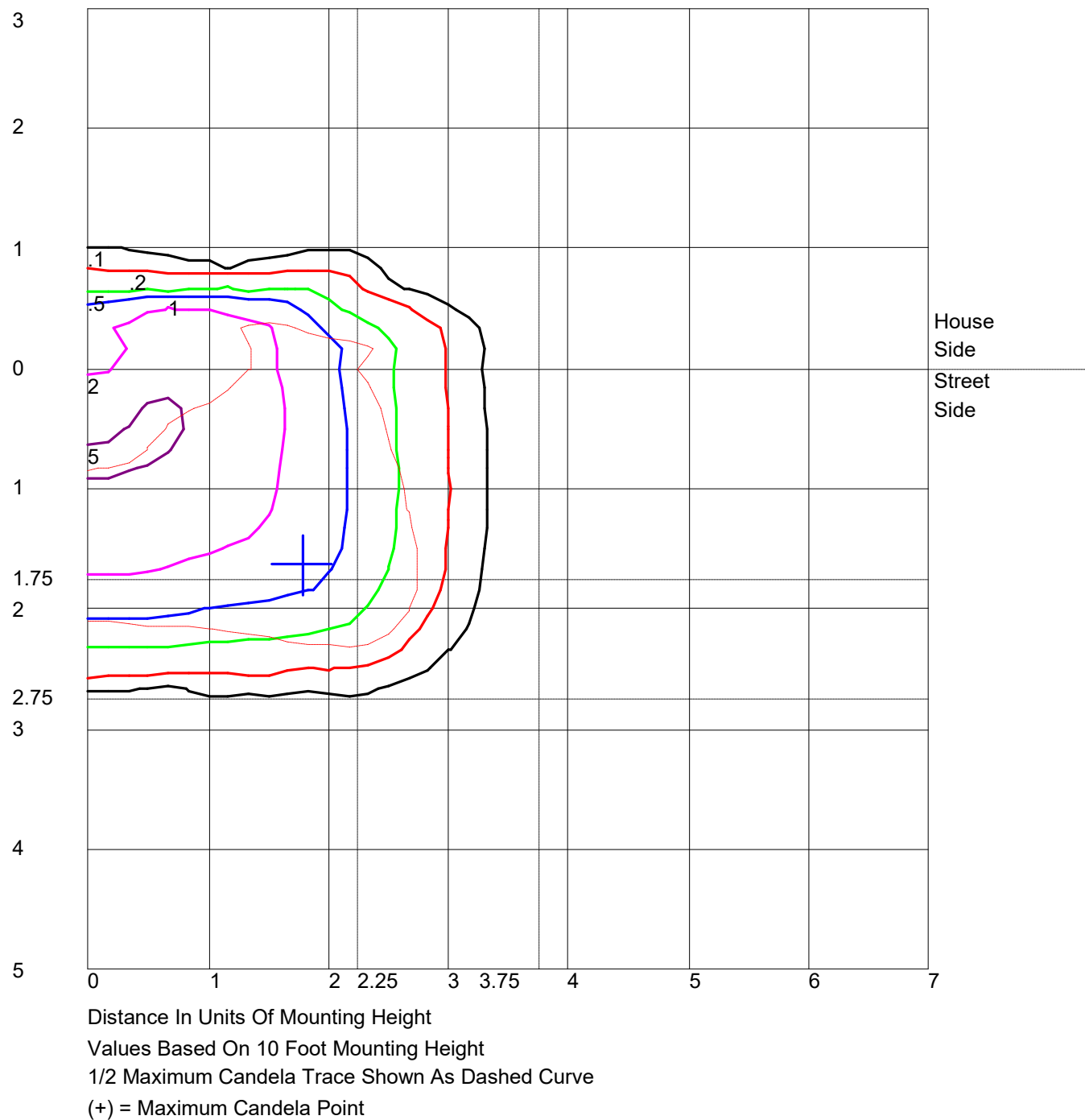
	Lumens	Percent Of Luminaire
Downward Street Side	2646.4	80.6
Downward House Side	632.2	19.2
Downward Total	3278.6	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	3285.0	100.0

POLAR GRAPH

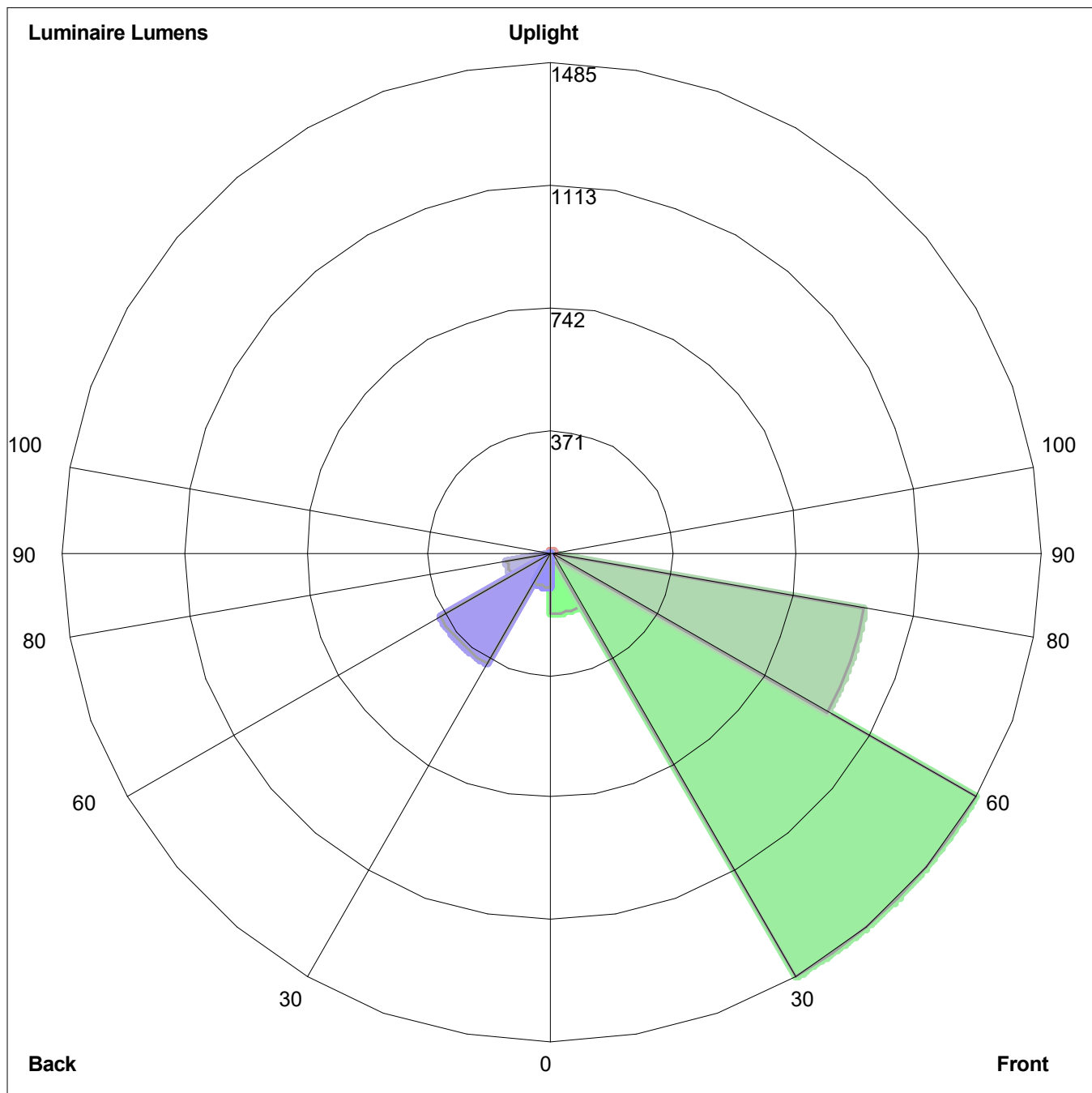


Maximum Candela = 2375 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=184.2, Medium=1484.7, High=965.8, Very High=11.8
Back: Low=104.6, Medium=388.0, High=137.5, Very High=2.2
Uplight: Low=1.5, High=4.8

BUG Rating : B1-U1-G1