



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11680
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/03/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-10L-50
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10559
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7411
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	7411
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	97 (0.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2049 (19.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	497.3	N.A.	4.7
FM - Front-Medium (30-60)	3178.2	N.A.	30.1
FH - Front-High (60-80)	4000.8	N.A.	37.9
FVH - Front-Very High (80-90)	217.9	N.A.	2.1
BL - Back-Low (0-30)	454.3	N.A.	4.3
BM - Back-Medium (30-60)	1493.8	N.A.	14.1
BH - Back-High (60-80)	638.7	N.A.	6.0
BVH - Back-Very High (80-90)	53.2	N.A.	0.5
UL - Uplight-Low (90-100)	8.1	N.A.	0.1
UH - Uplight-High (100-180)	17.1	N.A.	0.2
Total	10559.4	N.A.	100.0
BUG Rating	B2-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>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	864	864	864	864	864	864	864	864	864	864
2.5	852	859	848	847	849	849	856	867	872	865
5.0	791	796	808	825	846	834	819	802	803	802
7.5	773	780	809	787	773	778	769	793	847	838
10.0	782	778	784	756	779	787	828	845	848	855
12.5	825	822	820	777	824	819	848	872	902	924
15.0	877	867	865	888	914	908	893	936	980	1002
17.5	934	926	922	947	974	992	1013	1002	1056	1101
20.0	1084	1087	1075	1054	1057	1056	1096	1135	1150	1203
22.5	1171	1195	1194	1207	1189	1187	1210	1262	1256	1322
25.0	1343	1319	1331	1336	1340	1356	1332	1398	1405	1422
27.5	1547	1536	1532	1466	1453	1464	1503	1512	1518	1542
30.0	1702	1683	1668	1658	1599	1595	1625	1658	1632	1623
32.5	1987	1952	1860	1772	1772	1789	1783	1776	1741	1736
35.0	2163	2166	2051	2004	1903	1888	1948	1900	1855	1817
37.5	2445	2421	2266	2174	2104	2072	2053	2024	1946	1906
40.0	2607	2586	2509	2369	2272	2250	2210	2138	2036	1969
42.5	2765	2765	2678	2566	2493	2447	2361	2314	2145	2004
45.0	2969	2964	2896	2768	2708	2670	2567	2482	2262	2070
47.5	3181	3193	3131	3027	2954	2887	2797	2691	2429	2182
50.0	3427	3441	3379	3314	3229	3138	3057	2959	2638	2333
52.5	3685	3668	3654	3593	3547	3437	3383	3286	2919	2561
55.0	3886	3884	3886	3887	3864	3764	3710	3705	3289	2840
57.5	4046	4049	4108	4140	4182	4099	4102	4203	3774	3188
60.0	4218	4231	4313	4376	4490	4435	4540	4781	4350	3614
62.5	4397	4419	4586	4664	4843	4850	5066	5492	4958	4012
65.0	4672	4690	4904	5034	5298	5382	5725	6167	5406	4130
67.5	4852	4903	5242	5570	6012	6176	6470	6610	5436	3773
70.0	4521	4548	5119	6016	6919	7157	7107	6546	4735	2795
72.5	3497	3640	4258	5506	7148	7411	7081	5588	3261	1542
75.0	1954	2123	2868	4141	5747	6001	5820	3807	1918	943
77.5	848	934	1366	2314	3660	3861	3715	2337	1171	638
80.0	437	483	823	1260	1790	1982	2049	1414	732	371
82.5	284	306	552	806	920	1008	1117	750	424	214
85.0	215	232	389	525	599	613	541	336	210	123
87.5	147	156	268	295	337	321	142	113	68	52
90.0	49	59	97	57	45	39	20	10	5	5
92.5	8	8	8	6	5	5	5	4	3	4
95.0	3	3	4	4	4	5	4	4	3	3
97.5	3	3	3	4	4	4	4	4	3	3
100.0	3	3	3	3	3	4	4	4	3	3
102.5	2	2	3	3	3	3	4	3	3	3
105.0	2	2	2	3	3	3	3	3	3	3
107.5	2	2	2	3	3	3	3	3	3	3
110.0	2	2	2	3	3	3	3	3	3	3
112.5	3	3	3	3	3	3	3	3	3	3
115.0	3	3	3	3	3	3	3	3	3	4
117.5	3	3	3	3	3	3	3	3	3	4
120.0	4	4	4	3	4	3	3	3	3	4
122.5	4	4	4	4	4	4	4	3	4	4
125.0	4	4	4	4	4	4	4	3	4	4
127.5	5	4	4	4	4	4	4	4	4	5
130.0	5	5	5	5	4	4	4	4	4	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	4	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	4	4	5
137.5	2	2	2	3	3	3	3	3	3	4
140.0	1	1	1	2	2	2	2	2	2	3
142.5	1	1	1	2	2	2	2	2	2	2
145.0	1	1	1	2	2	2	2	2	2	2
147.5	1	1	1	2	2	2	2	2	2	2
150.0	1	1	1	2	2	2	2	2	2	2
152.5	1	1	1	2	2	2	2	2	2	2
155.0	1	1	1	2	2	2	2	2	2	2
157.5	1	1	1	2	2	2	2	1	2	2
160.0	1	1	1	2	2	1	1	1	1	2
162.5	1	1	1	2	2	2	1	1	1	2
165.0	1	1	1	2	2	1	1	1	1	2
167.5	1	1	1	2	2	1	1	1	1	2
170.0	1	1	1	2	2	2	2	1	1	2
172.5	1	1	1	2	2	2	2	2	2	2
175.0	1	1	1	2	2	2	2	2	2	2
177.5	1	1	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	864	864	864	864	864	864	864	864	864	864
2.5	865	873	869	866	864	869	877	876	872	856
5.0	803	803	793	820	824	829	843	851	837	811
7.5	841	847	847	877	840	786	753	776	776	785
10.0	852	852	843	874	798	808	785	785	768	798
12.5	920	926	947	903	841	805	814	875	862	911
15.0	1004	1014	997	938	853	882	902	957	970	952
17.5	1103	1091	1077	1003	912	968	1020	1019	1011	1013
20.0	1233	1209	1188	1032	972	1037	1038	1067	1084	1070
22.5	1361	1333	1328	1141	1093	1113	1115	1103	1092	1122
25.0	1502	1483	1440	1206	1237	1204	1143	1128	1138	1159
27.5	1601	1571	1542	1322	1329	1248	1179	1170	1204	1215
30.0	1687	1678	1629	1402	1409	1330	1234	1218	1208	1233
32.5	1738	1717	1667	1476	1472	1384	1306	1239	1240	1293
35.0	1806	1785	1727	1569	1504	1419	1347	1269	1264	1307
37.5	1855	1834	1776	1604	1519	1441	1352	1300	1261	1343
40.0	1879	1834	1764	1626	1526	1438	1364	1307	1279	1354
42.5	1892	1831	1743	1584	1473	1427	1348	1313	1292	1319
45.0	1927	1833	1736	1538	1413	1375	1309	1282	1299	1223
47.5	1984	1871	1750	1488	1341	1318	1255	1239	1236	1135
50.0	2074	1940	1790	1449	1266	1252	1194	1206	1130	1049
52.5	2216	2040	1871	1422	1181	1179	1135	1158	1037	969
55.0	2425	2187	1983	1418	1098	1101	1068	1080	953	887
57.5	2682	2373	2129	1435	1021	1027	1001	998	859	782
60.0	2963	2563	2228	1462	950	957	931	901	758	698
62.5	3110	2598	2115	1435	874	882	856	811	664	625
65.0	2991	2352	1755	1310	793	803	775	732	589	569
67.5	2450	1790	1214	1094	702	715	702	674	530	532
70.0	1467	1100	727	783	601	627	636	622	485	500
72.5	762	571	470	548	489	528	569	556	428	427
75.0	508	363	305	388	368	420	480	443	293	294
77.5	324	231	203	268	279	327	346	287	225	242

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CANDELA TABULATION - (Cont.)

80.0	173	135	145	196	218	227	223	218	178	188
82.5	108	87	103	147	152	144	163	165	122	140
85.0	66	49	63	90	89	90	108	93	59	87
87.5	27	18	25	41	43	44	36	36	24	36
90.0	6	4	9	14	15	13	10	7	2	1
92.5	4	4	9	13	14	13	9	6	2	2
95.0	4	3	8	12	14	12	9	6	3	2
97.5	4	3	7	10	12	10	8	6	3	3
100.0	3	3	5	8	9	9	7	6	4	3
102.5	3	4	5	6	8	7	7	6	4	4
105.0	3	4	5	5	6	6	6	5	4	4
107.5	4	4	4	5	5	5	5	4	3	3
110.0	4	4	5	5	5	5	5	4	4	3
112.5	4	4	5	5	5	5	5	5	4	3
115.0	4	4	5	5	5	6	5	5	4	4
117.5	4	5	5	5	6	6	6	5	5	4
120.0	5	5	5	5	6	6	6	5	5	4
122.5	5	5	5	6	6	6	6	6	5	4
125.0	5	5	5	6	6	6	6	6	5	4
127.5	5	5	6	6	6	6	5	5	5	4
130.0	5	5	6	6	6	5	5	5	5	4
132.5	5	5	5	5	5	5	5	4	4	4
135.0	5	5	5	5	5	4	4	3	3	3
137.5	4	4	4	4	4	3	3	2	2	1
140.0	3	3	3	3	3	2	2	1	1	0
142.5	3	3	3	3	2	2	1	1	0	0
145.0	3	3	3	3	2	2	1	1	0	0
147.5	2	2	3	2	2	2	1	0	0	0
150.0	2	2	3	2	2	1	1	0	0	0
152.5	2	2	3	2	2	1	1	0	0	0
155.0	2	2	2	2	2	1	1	0	0	0
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	0	0	0	0
162.5	2	2	2	2	2	1	0	0	0	0
165.0	2	2	2	2	2	1	0	0	0	0
167.5	2	2	2	2	2	1	0	0	0	0
170.0	2	2	2	2	2	1	0	0	0	0
172.5	2	2	2	2	2	1	0	0	0	0
175.0	2	2	2	2	2	1	0	0	0	0
177.5	2	2	2	2	2	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	864	864
2.5	854	855
5.0	802	809
7.5	790	799
10.0	826	828
12.5	920	927
15.0	993	1018
17.5	1046	1049
20.0	1107	1098
22.5	1120	1140
25.0	1185	1197

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CANDELA TABULATION - (Cont.)

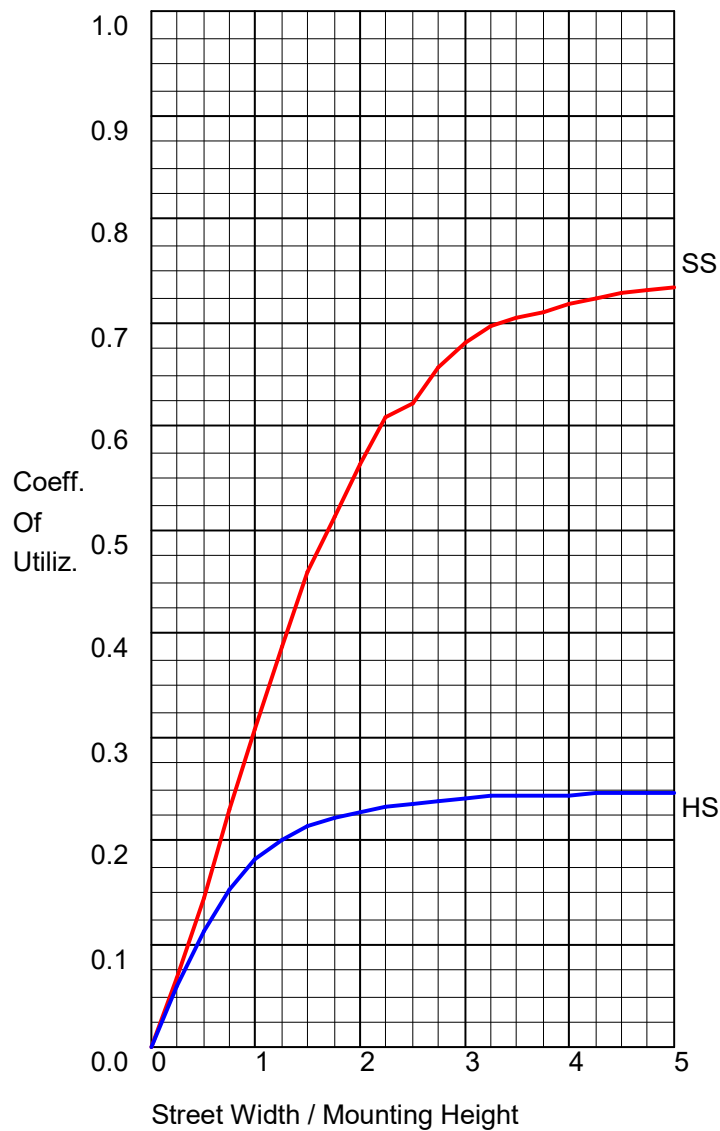
27.5	1221	1230
30.0	1253	1269
32.5	1313	1321
35.0	1331	1321
37.5	1372	1366
40.0	1368	1356
42.5	1269	1250
45.0	1176	1162
47.5	1097	1086
50.0	1019	1009
52.5	944	926
55.0	858	842
57.5	752	741
60.0	673	662
62.5	607	595
65.0	562	551
67.5	541	529
70.0	523	511
72.5	452	432
75.0	353	348
77.5	323	335
80.0	274	298
82.5	217	242
85.0	150	176
87.5	76	97
90.0	0	0
92.5	0	0
95.0	1	1
97.5	2	2
100.0	3	3
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	3
115.0	3	3
117.5	3	3
120.0	3	3
122.5	3	3
125.0	4	3
127.5	4	4
130.0	3	3
132.5	3	3
135.0	2	2
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

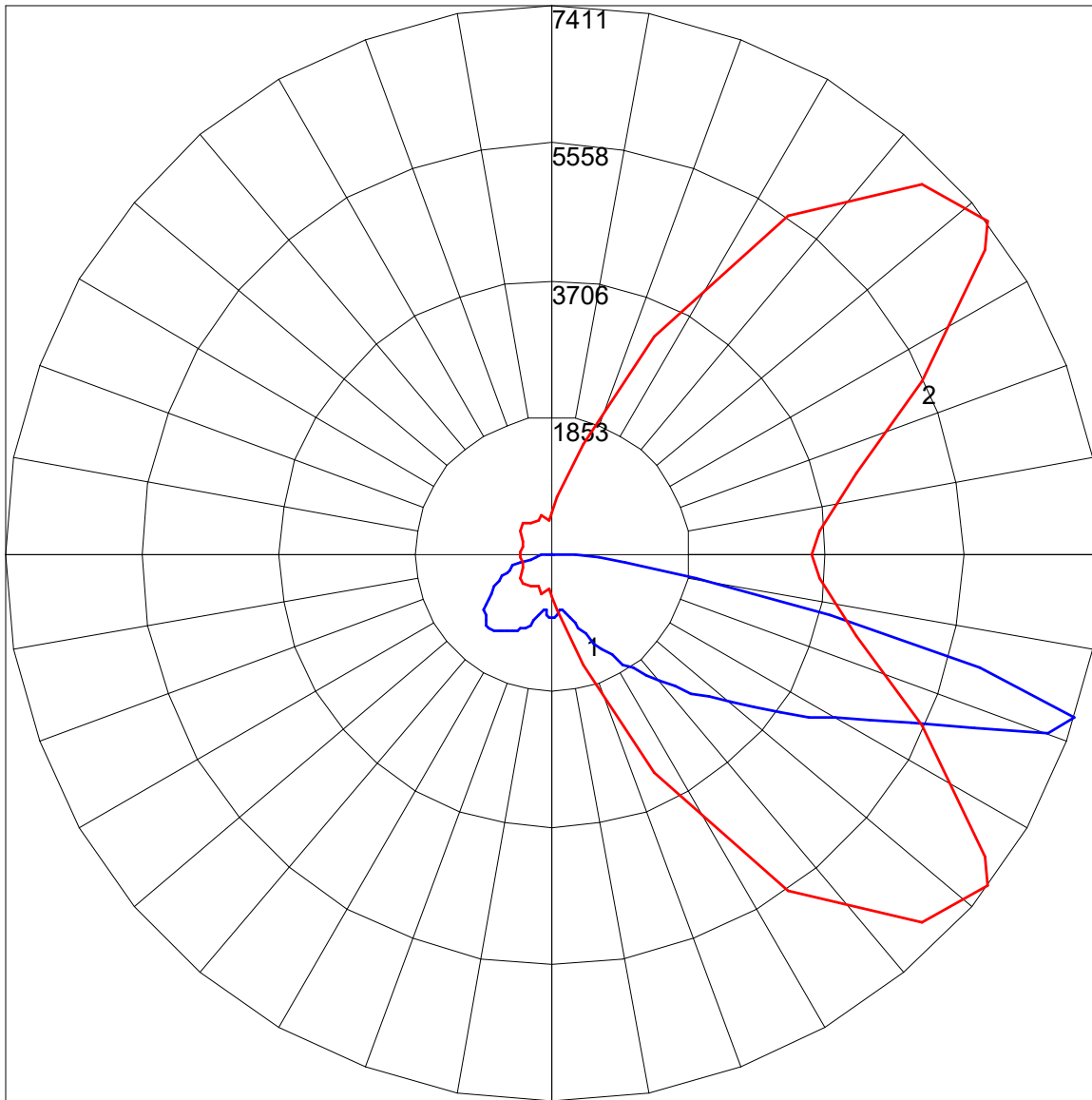
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

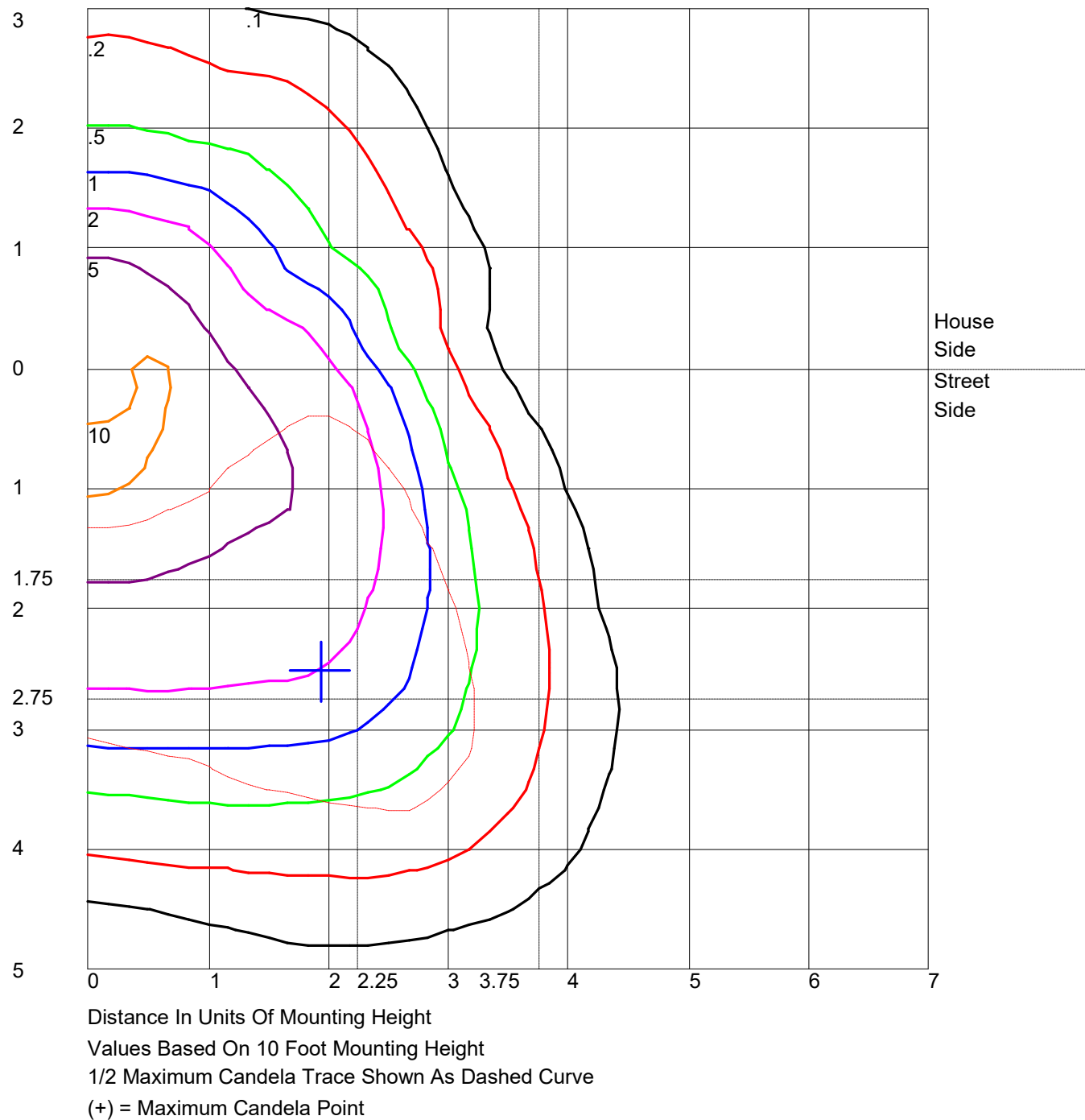
	Lumens	Percent Of Luminaire
Downward Street Side	7894.2	74.8
Downward House Side	2640.1	25.0
Downward Total	10534.3	99.8
Upward Street Side	11.9	0.1
Upward House Side	13.2	0.1
Upward Total	25.1	0.2
Total Flux	10559.4	100.0

POLAR GRAPH

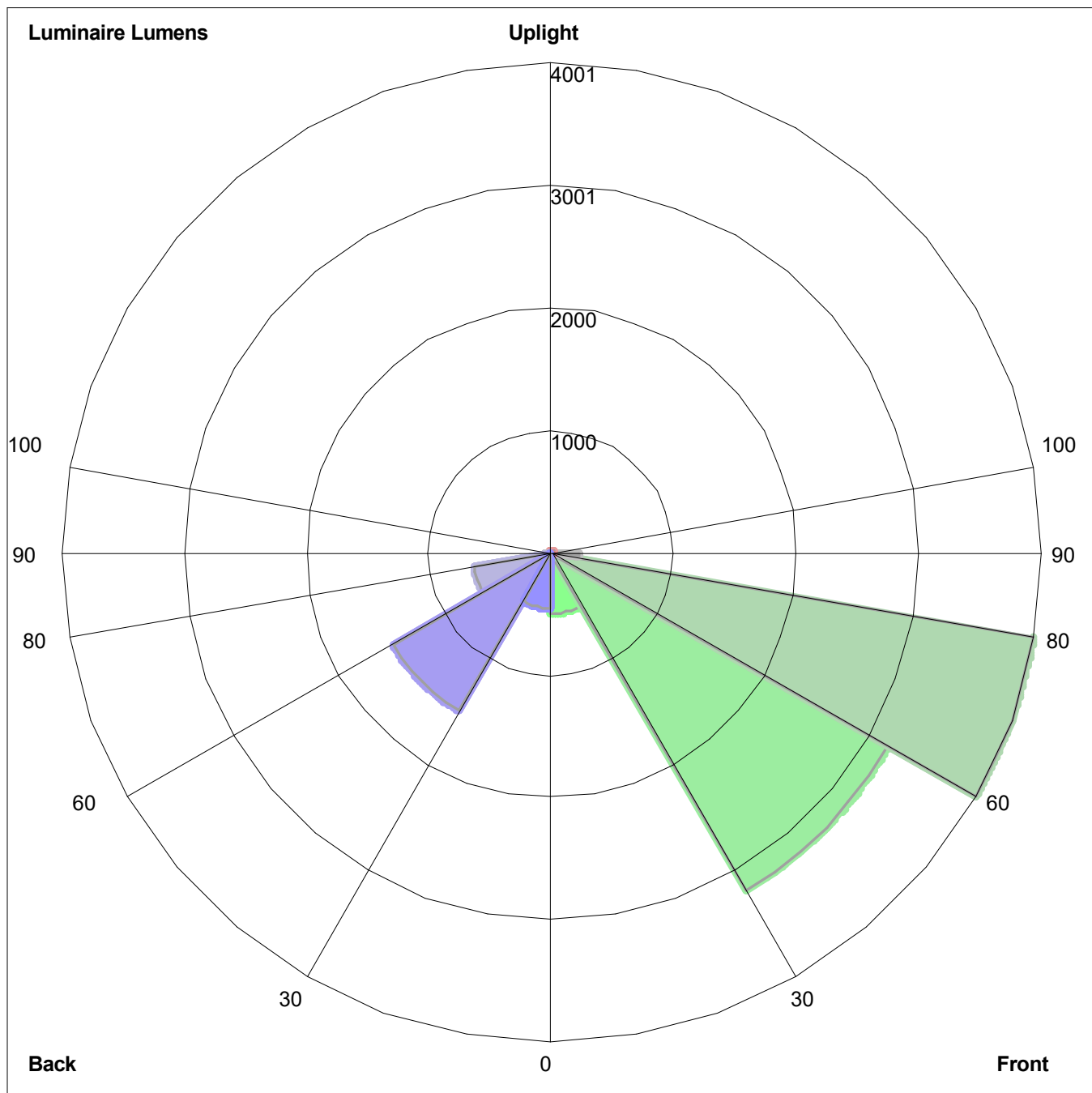


Maximum Candela = 7411 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=497.3, Medium=3178.2, High=4000.8, Very High=217.9
Back: Low=454.3, Medium=1493.8, High=638.7, Very High=53.2
Uplight: Low=8.1, High=17.1

BUG Rating : B2-U2-G2