



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-40.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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-FT-LED-10L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] 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	10061
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7061
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	7061
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	92 (0.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1952 (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)	473.8	N.A.	4.7
FM - Front-Medium (30-60)	3027.9	N.A.	30.1
FH - Front-High (60-80)	3811.7	N.A.	37.9
FVH - Front-Very High (80-90)	207.6	N.A.	2.1
BL - Back-Low (0-30)	432.9	N.A.	4.3
BM - Back-Medium (30-60)	1423.2	N.A.	14.1
BH - Back-High (60-80)	608.6	N.A.	6.0
BVH - Back-Very High (80-90)	50.7	N.A.	0.5
UL - Uplight-Low (90-100)	7.8	N.A.	0.1
UH - Uplight-High (100-180)	17.1	N.A.	0.2
Total	10061.3	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	823	823	823	823	823	823	823	823	823	823
2.5	812	818	808	807	809	809	816	826	831	824
5.0	754	758	770	786	806	795	780	764	765	764
7.5	736	743	771	750	736	741	733	756	807	798
10.0	745	741	747	720	742	750	789	805	808	815
12.5	786	783	781	740	785	780	808	831	859	880
15.0	836	826	824	846	871	865	851	892	934	955
17.5	890	882	878	902	928	945	965	955	1006	1049
20.0	1033	1036	1024	1004	1007	1006	1044	1081	1096	1146
22.5	1116	1139	1138	1150	1133	1131	1153	1202	1197	1260
25.0	1280	1257	1268	1273	1277	1292	1269	1332	1339	1355
27.5	1474	1463	1460	1397	1384	1395	1432	1441	1446	1469
30.0	1622	1603	1589	1580	1523	1520	1548	1580	1555	1546
32.5	1893	1860	1772	1688	1688	1704	1699	1692	1659	1654
35.0	2061	2064	1954	1909	1813	1799	1856	1810	1767	1731
37.5	2329	2307	2159	2071	2005	1974	1956	1928	1854	1816
40.0	2484	2464	2390	2257	2165	2144	2106	2037	1940	1876
42.5	2634	2634	2551	2445	2375	2331	2249	2205	2044	1909
45.0	2829	2824	2759	2637	2580	2544	2446	2365	2155	1972
47.5	3031	3042	2983	2884	2814	2751	2665	2564	2314	2079
50.0	3265	3278	3219	3157	3076	2990	2913	2819	2513	2223
52.5	3511	3495	3481	3423	3379	3275	3223	3131	2781	2440
55.0	3702	3700	3702	3703	3681	3586	3535	3530	3134	2706
57.5	3855	3858	3914	3944	3984	3905	3908	4004	3596	3037
60.0	4019	4031	4109	4169	4278	4225	4325	4555	4144	3443
62.5	4189	4210	4369	4444	4614	4621	4827	5232	4724	3822
65.0	4451	4468	4672	4796	5048	5128	5454	5876	5151	3935
67.5	4623	4671	4994	5307	5728	5884	6164	6298	5179	3595
70.0	4307	4333	4877	5732	6592	6819	6771	6237	4511	2663
72.5	3332	3468	4057	5246	6810	7061	6746	5324	3107	1469
75.0	1862	2023	2732	3945	5475	5717	5545	3627	1827	898
77.5	808	890	1301	2205	3487	3679	3539	2227	1116	608
80.0	416	460	784	1200	1705	1888	1952	1347	697	353
82.5	271	292	526	768	877	960	1064	715	404	204
85.0	205	221	371	500	571	584	515	320	200	117
87.5	140	149	255	281	321	306	135	108	65	50
90.0	47	56	92	54	43	37	19	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	823	823	823	823	823	823	823	823	823	823
2.5	824	832	828	825	823	828	836	835	831	816
5.0	765	765	756	781	785	790	803	811	797	773
7.5	801	807	807	836	800	749	717	739	739	748
10.0	812	812	803	833	760	770	748	748	732	760
12.5	877	882	902	860	801	767	776	834	821	868
15.0	957	966	950	894	813	840	859	912	924	907
17.5	1051	1039	1026	956	869	922	972	971	963	965
20.0	1175	1152	1132	983	926	988	989	1017	1033	1019
22.5	1297	1270	1265	1087	1041	1060	1062	1051	1040	1069
25.0	1431	1413	1372	1149	1179	1147	1089	1075	1084	1104
27.5	1525	1497	1469	1260	1266	1189	1123	1115	1147	1158
30.0	1607	1599	1552	1336	1342	1267	1176	1160	1151	1175
32.5	1656	1636	1588	1406	1402	1319	1244	1180	1181	1232
35.0	1721	1701	1645	1495	1433	1352	1283	1209	1204	1245
37.5	1767	1747	1692	1528	1447	1373	1288	1239	1201	1280
40.0	1790	1747	1681	1549	1454	1370	1300	1245	1219	1290
42.5	1803	1744	1661	1509	1403	1360	1284	1251	1231	1257
45.0	1836	1746	1654	1465	1346	1310	1247	1221	1238	1165
47.5	1890	1783	1667	1418	1278	1256	1196	1180	1178	1081
50.0	1976	1848	1705	1381	1206	1193	1138	1149	1077	999
52.5	2111	1944	1783	1355	1125	1123	1081	1103	988	923
55.0	2310	2084	1889	1351	1046	1049	1018	1029	908	845
57.5	2555	2261	2028	1367	973	978	954	951	818	745
60.0	2823	2442	2123	1393	905	912	887	858	722	665
62.5	2963	2475	2015	1367	833	840	816	773	633	595
65.0	2850	2241	1672	1248	756	765	738	697	561	542
67.5	2334	1705	1157	1042	669	681	669	642	505	507
70.0	1398	1048	693	746	573	597	606	593	462	476
72.5	726	544	448	522	466	503	542	530	408	407
75.0	484	346	291	370	351	400	457	422	279	280
77.5	309	220	193	255	266	312	330	273	214	231

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CANDELA TABULATION - (Cont.)

80.0	165	129	138	187	208	216	212	208	170	179
82.5	103	83	98	140	145	137	155	157	116	133
85.0	63	47	60	86	85	86	103	89	56	83
87.5	26	17	24	39	41	42	34	34	23	34
90.0	6	4	9	13	14	12	10	7	2	1
92.5	4	4	9	12	13	12	9	6	2	2
95.0	4	3	8	11	13	11	9	6	3	2
97.5	4	3	7	10	11	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	823	823
2.5	814	815
5.0	764	771
7.5	753	761
10.0	787	789
12.5	877	883
15.0	946	970
17.5	997	999
20.0	1055	1046
22.5	1067	1086
25.0	1129	1140

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CANDELA TABULATION - (Cont.)

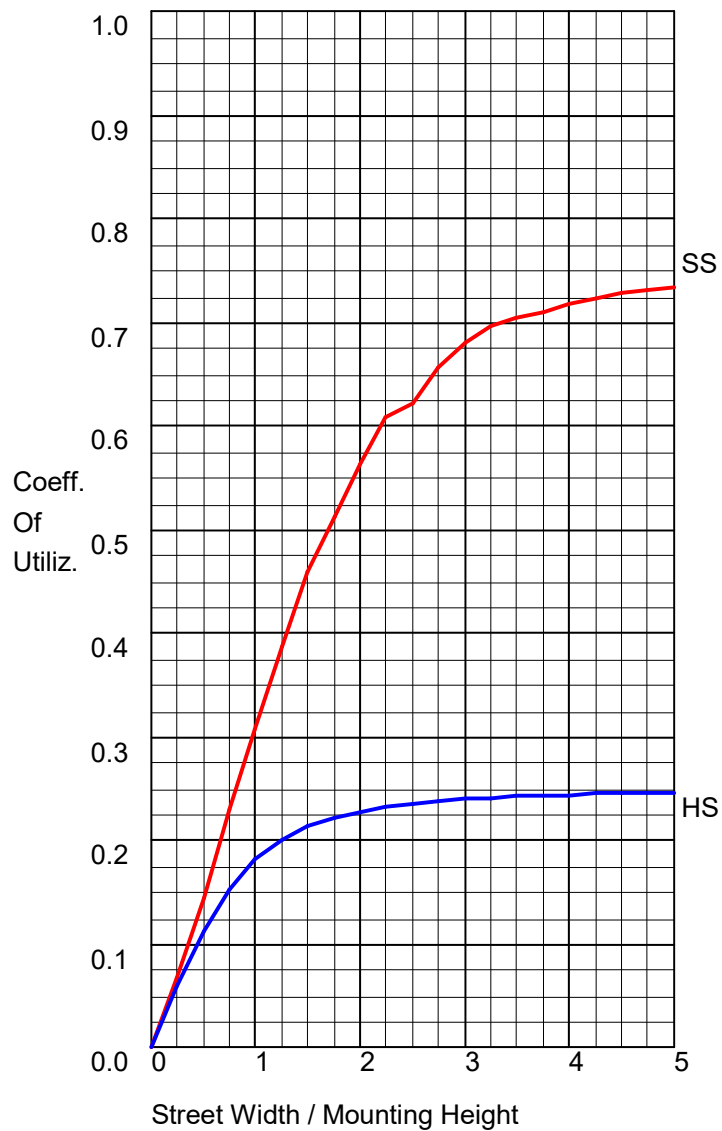
27.5	1163	1172
30.0	1194	1209
32.5	1251	1259
35.0	1268	1259
37.5	1307	1301
40.0	1303	1292
42.5	1209	1191
45.0	1120	1107
47.5	1045	1035
50.0	971	961
52.5	899	882
55.0	817	802
57.5	716	706
60.0	641	631
62.5	578	567
65.0	535	525
67.5	515	504
70.0	498	487
72.5	431	412
75.0	336	332
77.5	308	319
80.0	261	284
82.5	207	231
85.0	143	168
87.5	72	92
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

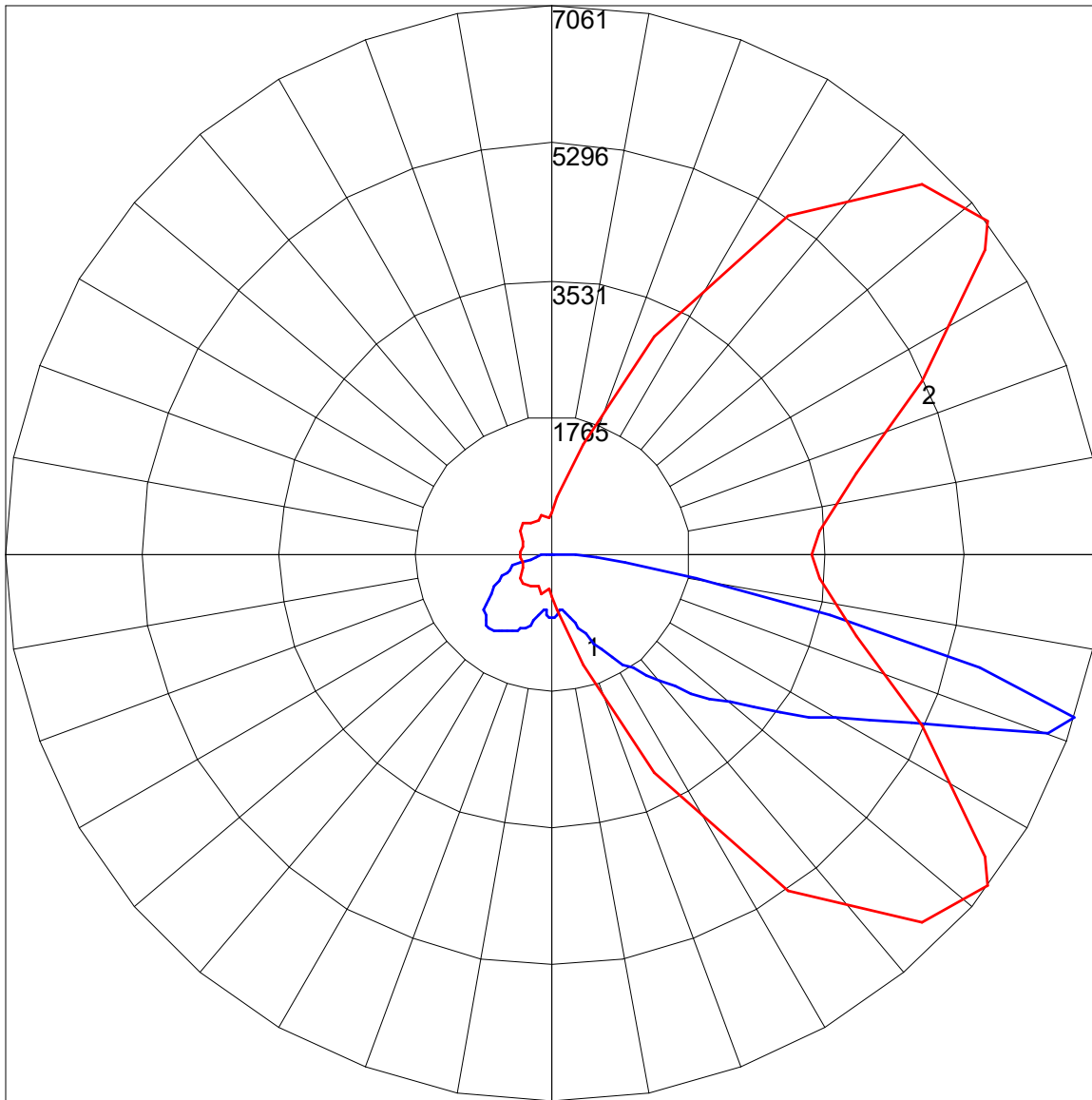
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

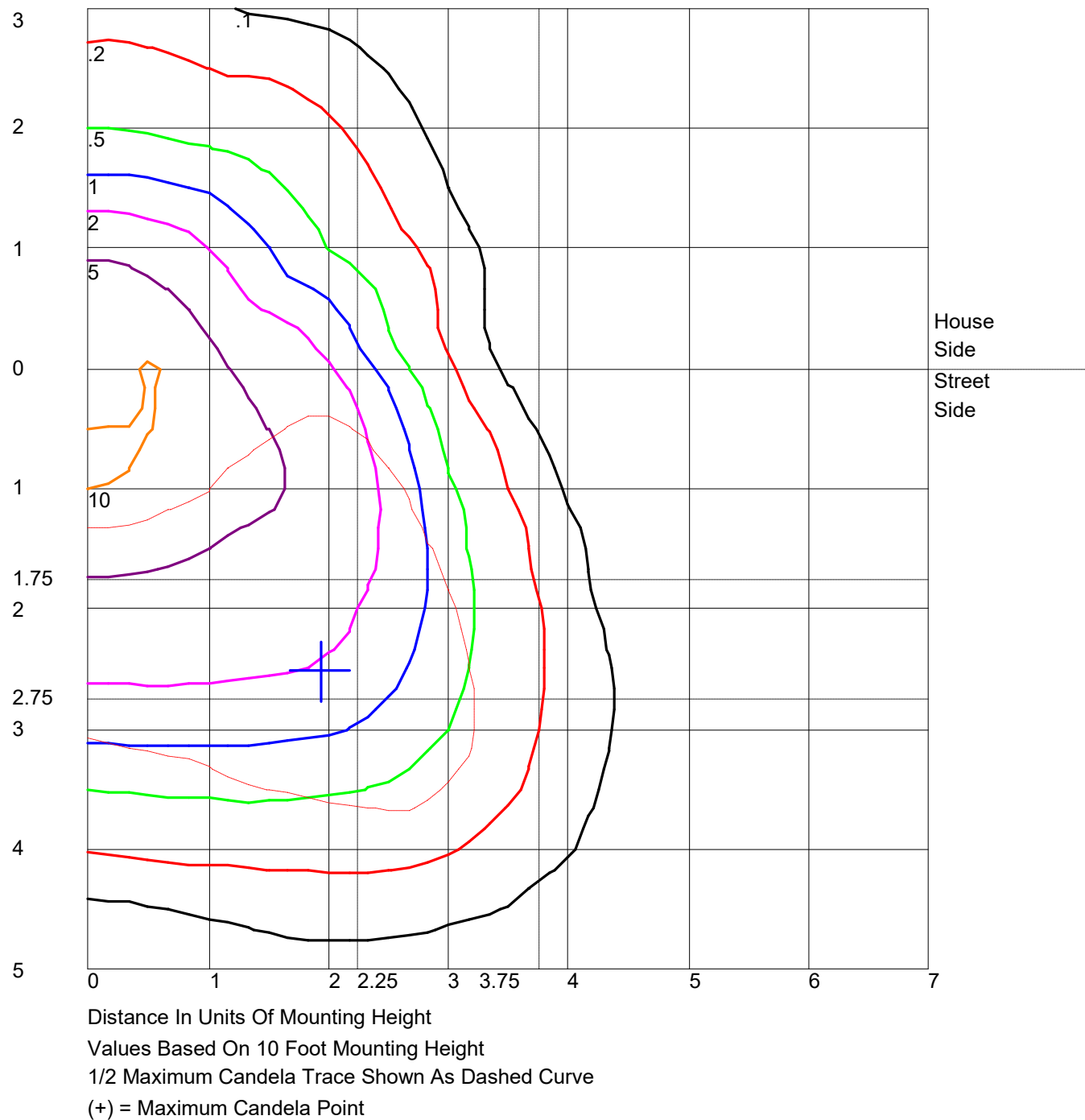
	Lumens	Percent Of Luminaire
Downward Street Side	7521.1	74.8
Downward House Side	2515.3	25.0
Downward Total	10036.4	99.8
Upward Street Side	11.8	0.1
Upward House Side	13.1	0.1
Upward Total	24.9	0.2
Total Flux	10061.3	100.0

POLAR GRAPH

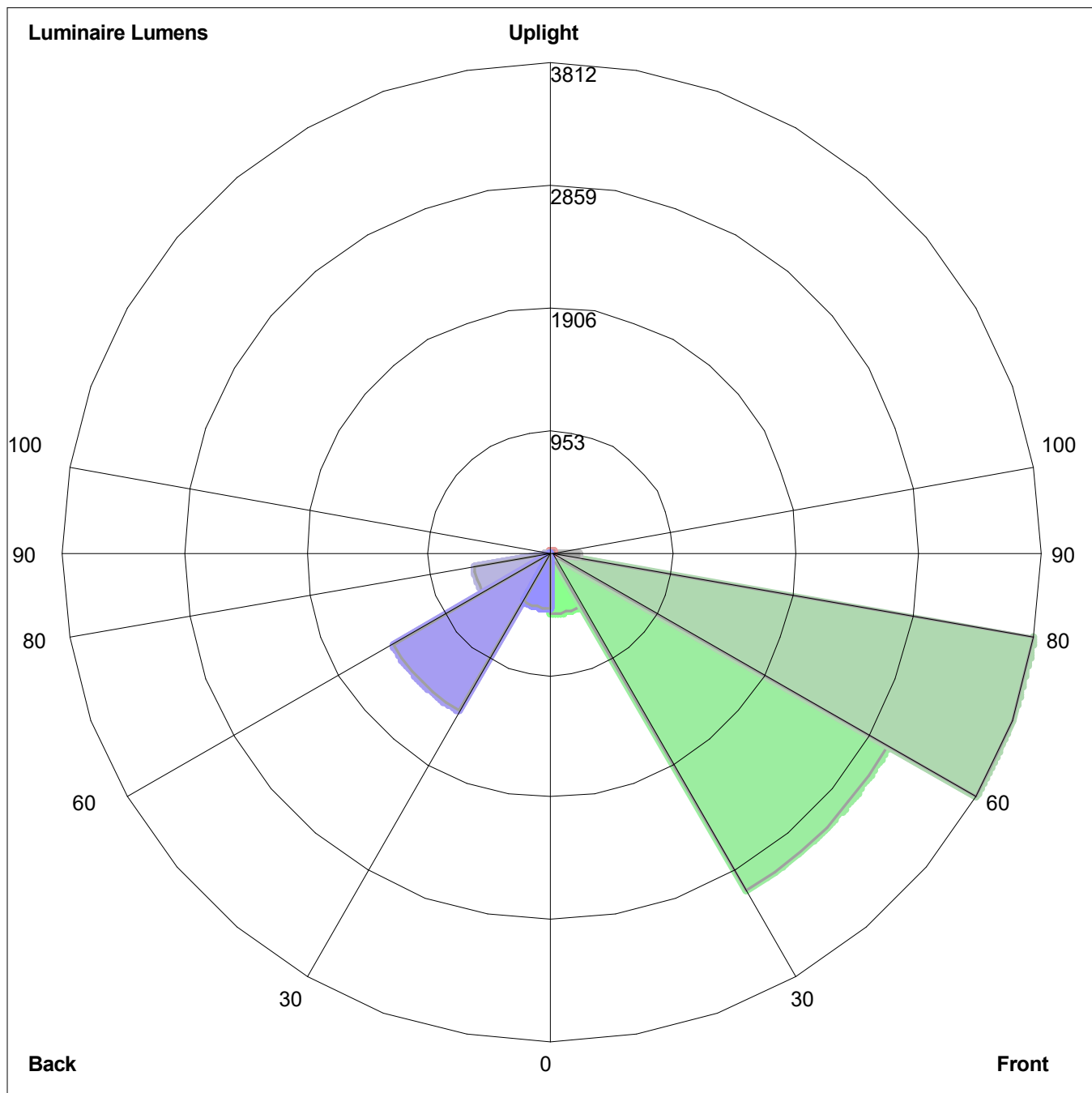


Maximum Candela = 7061 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=473.8, Medium=3027.9, High=3811.7, Very High=207.6
Back: Low=432.9, Medium=1423.2, High=608.6, Very High=50.7
Uplight: Low=7.8, High=17.1

BUG Rating : B2-U2-G2