



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11761
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-18L-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	13782
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9710
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	9710
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	39 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1221 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	770.7	N.A.	5.6
FM - Front-Medium (30-60)	6269.8	N.A.	45.5
FH - Front-High (60-80)	4548.8	N.A.	33.0
FVH - Front-Very High (80-90)	165.2	N.A.	1.2
BL - Back-Low (0-30)	524.3	N.A.	3.8
BM - Back-Medium (30-60)	1235.2	N.A.	9.0
BH - Back-High (60-80)	216.0	N.A.	1.6
BVH - Back-Very High (80-90)	10.9	N.A.	0.1
UL - Uplight-Low (90-100)	9.9	N.A.	0.1
UH - Uplight-High (100-180)	30.9	N.A.	0.2
Total	13781.7	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1366	1366	1366	1366	1366	1366	1366	1366	1366	1366
2.5	1338	1350	1357	1350	1359	1357	1374	1374	1366	1360
5.0	1250	1249	1282	1309	1315	1294	1305	1271	1262	1247
7.5	1187	1211	1243	1217	1171	1190	1179	1248	1316	1317
10.0	1178	1192	1188	1162	1175	1199	1234	1267	1286	1319
12.5	1282	1253	1243	1198	1222	1238	1252	1283	1362	1387
15.0	1352	1324	1337	1344	1353	1331	1323	1368	1430	1472
17.5	1443	1419	1412	1443	1483	1468	1497	1477	1510	1588
20.0	1600	1600	1614	1616	1608	1622	1652	1656	1634	1727
22.5	1762	1792	1836	1902	1853	1835	1856	1864	1810	1918
25.0	2040	2029	2061	2127	2234	2219	2152	2169	2088	2089
27.5	2493	2435	2474	2459	2520	2579	2565	2504	2405	2316
30.0	2826	2873	2877	2920	2891	2941	2955	2938	2718	2563
32.5	3558	3477	3368	3352	3389	3407	3388	3381	3086	2856
35.0	3943	3984	3877	3911	3850	3912	3841	3831	3503	3129
37.5	4564	4543	4375	4402	4433	4436	4319	4300	3933	3510
40.0	4954	4940	4979	4937	4951	4932	4903	4735	4417	3823
42.5	5251	5263	5289	5354	5453	5388	5356	5259	4876	4104
45.0	5531	5599	5613	5706	5944	5876	5910	5686	5305	4404
47.5	5874	5954	6000	6114	6374	6350	6420	6148	5718	4756
50.0	6247	6315	6391	6585	6849	6901	6974	6712	6239	5099
52.5	6514	6586	6722	6973	7381	7613	7528	7295	6656	5322
55.0	6747	6807	6999	7349	7976	8168	8128	7841	6963	5485
57.5	6995	7058	7294	7742	8493	8653	8634	8250	7148	5487
60.0	7178	7242	7559	8154	8918	9151	9124	8507	7134	5295
62.5	7224	7284	7766	8565	9301	9533	9434	8501	6916	4912
65.0	6635	6756	7439	8567	9505	9710	9594	8219	6366	4266
67.5	5594	5668	6489	7829	9092	9358	9106	7601	5534	3469
70.0	3073	3344	4443	6341	7818	8240	7996	6510	4422	2446
72.5	1337	1451	2042	3519	5581	6222	6377	4936	3072	1532
75.0	1007	1070	1375	1924	2814	3224	3629	3220	1891	1016
77.5	808	860	1144	1513	1755	1790	1831	1805	1207	721
80.0	647	702	958	1186	1221	1159	1084	888	764	482
82.5	484	525	689	776	639	590	494	373	374	317
85.0	268	280	352	350	252	239	199	167	175	179
87.5	89	100	120	113	81	73	59	54	53	68
90.0	31	33	39	33	24	20	15	9	7	9
92.5	14	14	11	8	7	7	8	7	7	7
95.0	2	2	3	4	7	7	7	7	7	7
97.5	2	2	3	4	5	6	7	7	7	7
100.0	2	2	3	4	5	6	6	6	6	7
102.5	2	2	3	4	5	5	6	6	6	6
105.0	3	2	3	4	5	5	6	5	5	6
107.5	3	3	3	4	5	5	6	6	6	6
110.0	3	3	4	4	5	6	6	6	6	6
112.5	4	4	4	4	6	6	6	6	6	7
115.0	4	4	4	5	6	6	7	6	6	7
117.5	5	5	5	5	6	7	7	7	7	7
120.0	6	6	6	6	7	7	7	7	7	7
122.5	7	7	7	6	7	7	7	7	7	7
125.0	7	7	7	7	7	7	7	7	7	8
127.5	7	7	7	7	7	7	8	7	7	8
130.0	8	7	7	7	7	8	8	7	7	9

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CANDELA TABULATION - (Cont.)

132.5	8	8	8	7	8	8	8	8	8	9
135.0	7	7	7	7	7	7	7	7	7	8
137.5	4	4	4	4	6	6	6	6	6	7
140.0	1	1	2	3	4	4	4	4	5	5
142.5	1	1	2	3	4	4	4	4	4	5
145.0	1	1	1	3	4	4	4	4	4	4
147.5	1	1	1	3	4	4	4	4	4	4
150.0	0	1	1	3	4	4	4	4	4	4
152.5	1	1	2	3	4	4	4	4	4	4
155.0	1	1	2	3	4	4	4	4	4	4
157.5	1	1	2	3	4	4	4	4	4	4
160.0	1	1	2	3	4	4	4	4	4	4
162.5	1	1	2	3	4	4	4	4	4	4
165.0	1	1	2	3	4	4	4	4	4	4
167.5	1	1	2	3	4	4	4	4	4	4
170.0	1	1	2	3	4	4	4	4	4	4
172.5	1	1	2	3	3	4	4	4	4	4
175.0	1	1	2	3	3	4	4	4	4	4
177.5	1	1	1	2	3	3	4	4	4	4
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles **Horizontal Angles**

	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1366	1366	1366	1366	1366	1366	1366	1366	1366	1366
2.5	1371	1374	1362	1361	1361	1367	1376	1380	1358	1334
5.0	1273	1278	1269	1290	1302	1317	1332	1337	1326	1285
7.5	1305	1330	1329	1368	1325	1260	1207	1234	1235	1275
10.0	1332	1313	1325	1339	1285	1273	1243	1235	1181	1235
12.5	1377	1398	1427	1415	1340	1255	1253	1294	1253	1259
15.0	1514	1499	1503	1438	1342	1366	1345	1262	1168	1072
17.5	1582	1595	1580	1545	1417	1415	1337	1131	940	828
20.0	1770	1737	1735	1569	1474	1437	1170	940	796	750
22.5	1928	1906	1902	1732	1563	1362	1014	830	764	744
25.0	2131	2101	2063	1847	1643	1249	904	802	774	776
27.5	2313	2272	2208	2020	1691	1125	884	812	833	859
30.0	2469	2467	2347	2097	1625	1104	902	849	908	950
32.5	2693	2583	2443	2127	1563	1105	934	894	985	1099
35.0	2870	2803	2571	2144	1465	1123	958	928	1077	1227
37.5	3132	2998	2750	2098	1403	1129	960	961	1136	1287
40.0	3301	3078	2800	2045	1363	1120	948	955	1144	1170
42.5	3452	3159	2824	1971	1304	1097	908	888	1006	883
45.0	3647	3250	2875	1882	1240	1045	833	743	734	625
47.5	3807	3338	2918	1795	1166	954	710	576	505	437
50.0	3938	3366	2903	1724	1065	822	576	436	353	320
52.5	4027	3385	2856	1667	929	638	428	316	255	240
55.0	4062	3363	2774	1586	750	449	292	220	185	180
57.5	3967	3261	2650	1447	561	300	204	156	133	133
60.0	3707	3048	2441	1223	389	224	156	116	96	95
62.5	3327	2684	2109	981	280	182	124	87	66	66
65.0	2832	2184	1651	724	224	148	99	65	49	47
67.5	2116	1618	1076	449	180	120	77	52	36	33
70.0	1387	1057	633	260	136	92	60	43	28	25
72.5	810	604	387	169	92	65	47	34	23	15
75.0	577	413	263	119	67	47	38	25	12	7
77.5	407	285	180	89	52	39	30	15	6	4

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CANDELA TABULATION - (Cont.)

80.0	249	180	127	65	41	33	23	11	4	3
82.5	167	125	89	46	33	28	20	9	3	2
85.0	111	76	51	30	27	24	17	9	2	2
87.5	50	31	23	19	20	18	13	8	2	2
90.0	10	7	12	17	20	17	13	8	2	2
92.5	8	7	12	18	20	19	15	9	4	3
95.0	8	6	12	17	20	18	14	9	4	4
97.5	7	5	10	15	16	15	12	9	5	4
100.0	7	6	8	11	13	13	11	9	6	4
102.5	7	6	7	9	10	11	9	8	6	4
105.0	6	6	7	8	9	9	9	8	6	5
107.5	6	6	7	8	9	9	9	8	7	5
110.0	6	7	7	8	9	9	8	7	6	5
112.5	7	7	7	8	9	9	8	8	7	6
115.0	7	7	8	8	9	9	9	8	7	6
117.5	7	7	8	9	9	9	9	9	8	7
120.0	7	8	8	9	9	10	10	9	9	7
122.5	8	9	9	9	10	11	10	10	9	8
125.0	8	9	9	9	10	10	10	10	9	8
127.5	9	9	9	9	10	10	10	10	9	9
130.0	9	9	9	9	10	10	10	10	9	9
132.5	9	9	9	9	9	10	10	9	9	8
135.0	9	9	9	9	9	9	9	8	7	7
137.5	7	7	7	7	8	7	7	6	5	4
140.0	5	6	6	6	6	6	5	4	4	2
142.5	5	5	5	6	6	5	4	4	3	1
145.0	5	5	5	5	5	5	4	4	2	1
147.5	5	5	5	5	5	5	4	4	2	1
150.0	4	5	5	5	5	4	4	3	2	1
152.5	4	5	5	5	5	4	4	3	2	1
155.0	4	4	4	4	4	4	4	3	1	1
157.5	4	4	4	4	4	4	4	2	1	1
160.0	4	4	4	4	4	4	3	2	1	0
162.5	4	4	4	4	4	4	3	1	1	0
165.0	4	4	4	4	4	4	2	1	1	0
167.5	4	4	4	4	4	3	2	1	1	0
170.0	4	4	4	4	4	3	2	1	1	0
172.5	4	4	4	4	3	3	2	1	1	0
175.0	4	4	4	4	3	3	2	1	0	0
177.5	4	4	4	3	3	2	1	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	175	180
0.0	1366	1366
2.5	1338	1348
5.0	1273	1286
7.5	1263	1252
10.0	1272	1243
12.5	1256	1238
15.0	1074	1072
17.5	817	814
20.0	761	762
22.5	761	775
25.0	820	846

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CANDELA TABULATION - (Cont.)

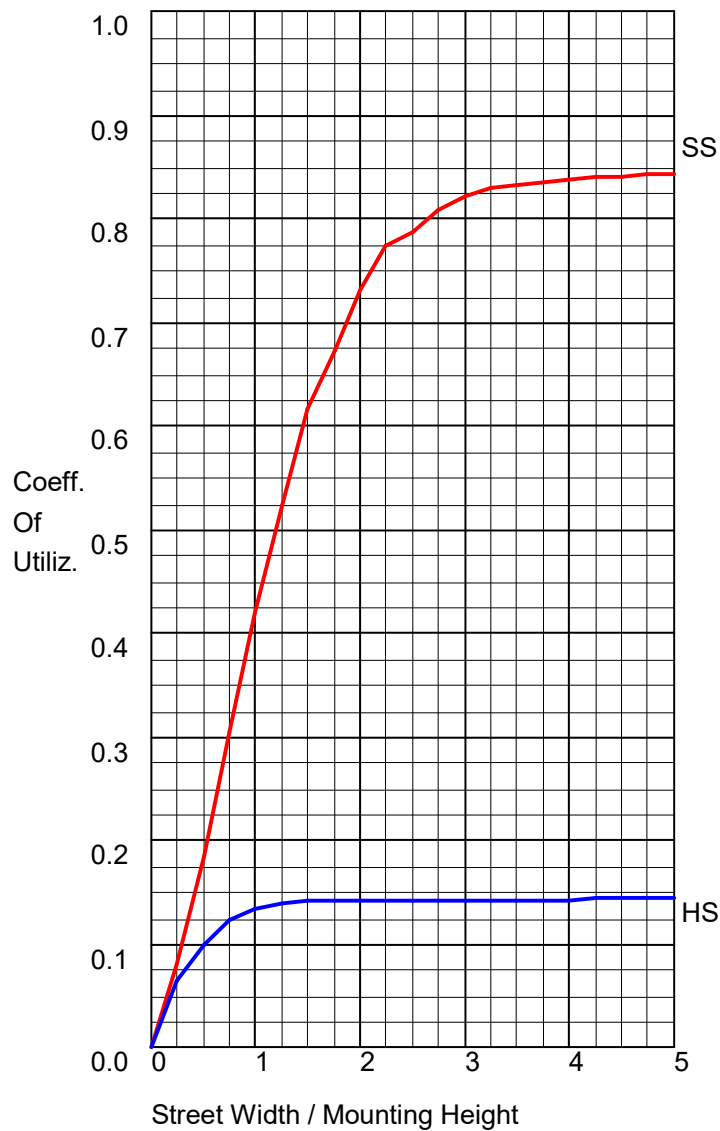
27.5	908	952
30.0	1028	1038
32.5	1203	1211
35.0	1281	1295
37.5	1263	1249
40.0	1041	1021
42.5	774	761
45.0	580	576
47.5	439	442
50.0	339	333
52.5	260	258
55.0	198	199
57.5	152	154
60.0	115	118
62.5	87	89
65.0	65	67
67.5	46	49
70.0	33	36
72.5	18	19
75.0	7	8
77.5	1	2
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	1	1
97.5	2	2
100.0	3	3
102.5	4	3
105.0	4	3
107.5	4	4
110.0	4	4
112.5	5	4
115.0	5	5
117.5	6	6
120.0	7	6
122.5	7	7
125.0	7	7
127.5	7	7
130.0	7	7
132.5	7	7
135.0	6	6
137.5	4	3
140.0	1	1
142.5	1	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	2	2

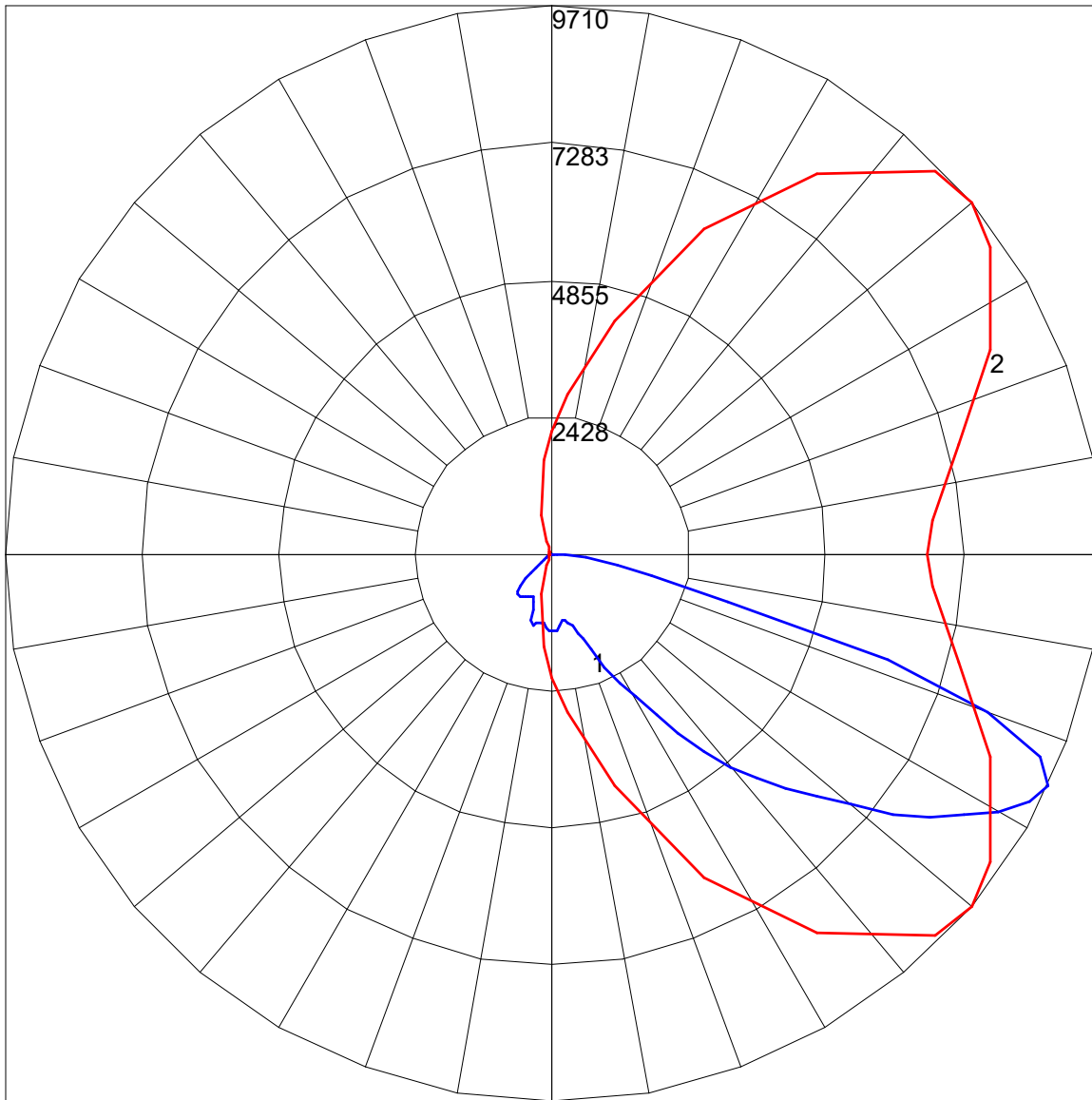
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

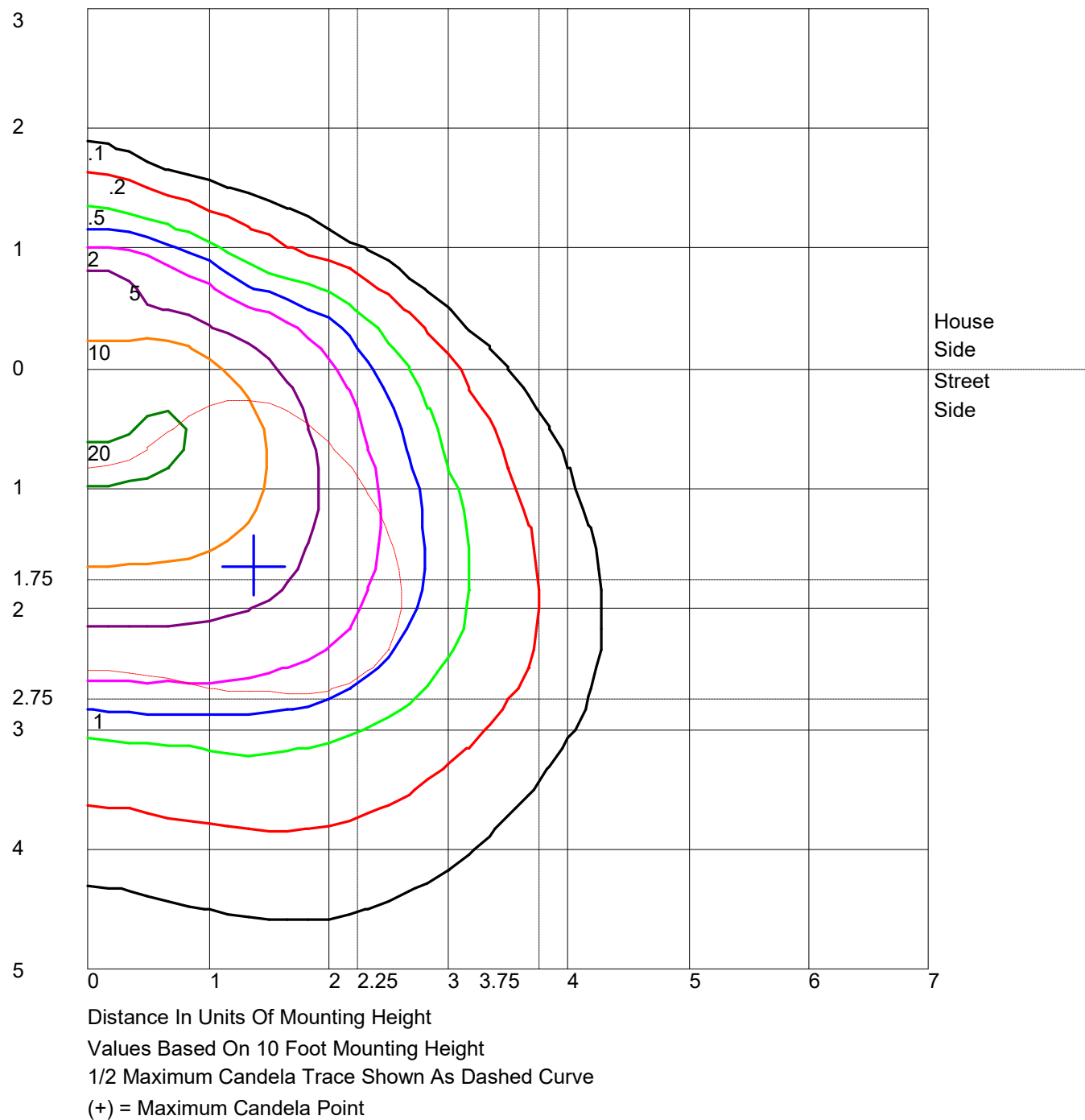
	Lumens	Percent Of Luminaire
Downward Street Side	11754.6	85.3
Downward House Side	1986.4	14.4
Downward Total	13741.0	99.7
Upward Street Side	18.2	0.1
Upward House Side	22.6	0.2
Upward Total	40.8	0.3
Total Flux	13781.8	100.0

POLAR GRAPH

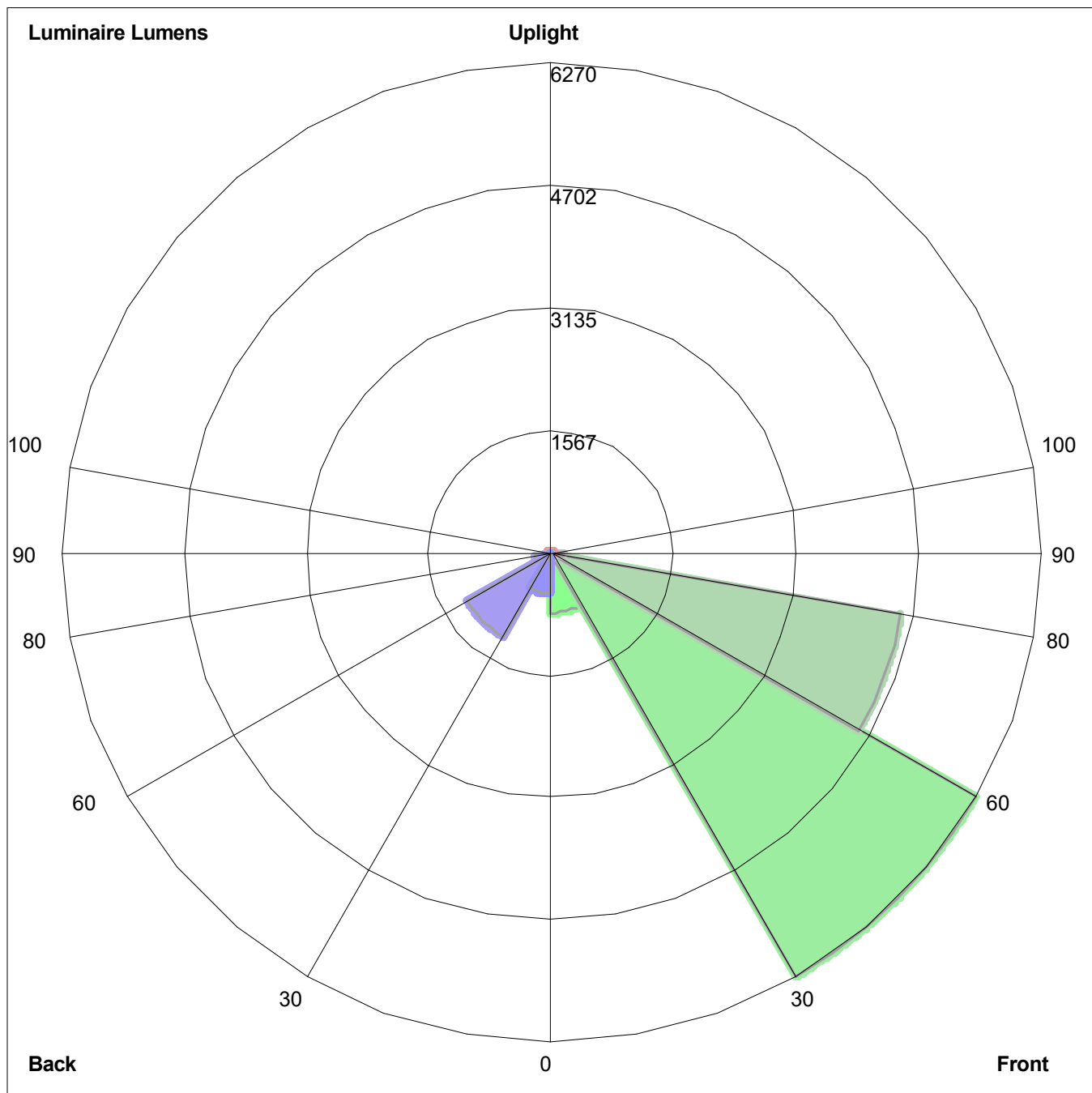


Maximum Candela = 9710 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=770.7, Medium=6269.8, High=4548.8, Very High=165.2
Back: Low=524.3, Medium=1235.2, High=216.0, Very High=10.9
Uplight: Low=9.9, High=30.9

BUG Rating : B2-U2-G2