



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-50-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  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] LXM4-PT-FT-LED-25L-50-IL  
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19892
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	227.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14015
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	14015
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	57 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1762 (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)	1112.5	N.A.	5.6
FM - Front-Medium (30-60)	9050.0	N.A.	45.5
FH - Front-High (60-80)	6565.8	N.A.	33.0
FVH - Front-Very High (80-90)	238.5	N.A.	1.2
BL - Back-Low (0-30)	756.9	N.A.	3.8
BM - Back-Medium (30-60)	1782.9	N.A.	9.0
BH - Back-High (60-80)	311.6	N.A.	1.6
BVH - Back-Very High (80-90)	15.7	N.A.	0.1
UL - Uplight-Low (90-100)	14.2	N.A.	0.1
UH - Uplight-High (100-180)	43.8	N.A.	0.2
Total	19891.9	N.A.	100.0
BUG Rating	B2-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>
<b>0.0</b>	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972
<b>2.5</b>	1931	1948	1959	1949	1962	1959	1983	1983	1971	1963
<b>5.0</b>	1804	1803	1850	1889	1898	1868	1884	1835	1821	1800
<b>7.5</b>	1713	1748	1794	1757	1690	1717	1702	1801	1900	1901
<b>10.0</b>	1700	1720	1715	1677	1696	1731	1781	1828	1856	1904
<b>12.5</b>	1850	1808	1795	1730	1764	1787	1807	1851	1966	2002
<b>15.0</b>	1951	1911	1930	1940	1952	1922	1910	1974	2064	2124
<b>17.5</b>	2083	2048	2038	2082	2140	2119	2161	2132	2180	2292
<b>20.0</b>	2310	2309	2329	2333	2321	2341	2385	2390	2358	2493
<b>22.5</b>	2543	2587	2650	2746	2674	2648	2679	2691	2612	2768
<b>25.0</b>	2944	2928	2975	3070	3224	3202	3106	3131	3014	3016
<b>27.5</b>	3598	3514	3571	3549	3638	3723	3703	3614	3472	3343
<b>30.0</b>	4080	4147	4152	4214	4173	4245	4266	4241	3923	3699
<b>32.5</b>	5136	5018	4861	4838	4891	4917	4890	4881	4455	4122
<b>35.0</b>	5691	5751	5595	5645	5558	5647	5544	5530	5057	4516
<b>37.5</b>	6588	6557	6315	6354	6398	6404	6234	6207	5676	5066
<b>40.0</b>	7151	7131	7187	7127	7146	7119	7076	6834	6375	5518
<b>42.5</b>	7579	7597	7634	7728	7871	7778	7730	7591	7038	5924
<b>45.0</b>	7983	8082	8102	8236	8579	8481	8531	8207	7658	6357
<b>47.5</b>	8479	8594	8660	8825	9201	9165	9267	8874	8254	6864
<b>50.0</b>	9017	9116	9225	9505	9886	9961	10066	9688	9006	7360
<b>52.5</b>	9402	9506	9703	10065	10654	10988	10865	10530	9607	7682
<b>55.0</b>	9739	9825	10102	10608	11513	11790	11731	11318	10051	7917
<b>57.5</b>	10096	10187	10529	11175	12259	12490	12463	11908	10318	7920
<b>60.0</b>	10361	10453	10911	11769	12872	13209	13170	12279	10297	7642
<b>62.5</b>	10427	10514	11210	12363	13425	13760	13616	12271	9983	7090
<b>65.0</b>	9578	9752	10737	12366	13719	14015	13847	11864	9188	6158
<b>67.5</b>	8075	8182	9367	11300	13124	13507	13144	10971	7987	5008
<b>70.0</b>	4436	4826	6413	9153	11284	11894	11541	9396	6383	3531
<b>72.5</b>	1930	2095	2947	5079	8056	8980	9204	7125	4434	2212
<b>75.0</b>	1454	1545	1985	2777	4062	4654	5239	4648	2729	1466
<b>77.5</b>	1166	1242	1651	2184	2533	2584	2643	2605	1742	1041
<b>80.0</b>	934	1013	1382	1712	1762	1673	1565	1282	1103	696
<b>82.5</b>	699	758	994	1120	923	851	713	538	539	458
<b>85.0</b>	386	404	508	505	364	344	288	240	253	258
<b>87.5</b>	129	145	173	164	117	106	85	78	77	98
<b>90.0</b>	45	47	57	48	35	28	22	14	10	13
<b>92.5</b>	20	20	16	12	10	10	12	10	10	9
<b>95.0</b>	3	3	4	6	9	10	10	10	9	9
<b>97.5</b>	3	3	4	6	7	8	9	9	9	9
<b>100.0</b>	3	3	4	6	7	8	8	8	8	9
<b>102.5</b>	3	3	4	6	7	7	8	8	8	8
<b>105.0</b>	4	3	4	6	7	7	8	7	7	8
<b>107.5</b>	4	4	4	6	7	7	8	8	8	8
<b>110.0</b>	4	4	5	6	7	8	8	8	8	8
<b>112.5</b>	5	5	5	6	8	8	8	8	8	9
<b>115.0</b>	6	6	6	7	8	8	9	8	8	9
<b>117.5</b>	7	7	7	7	8	9	9	9	9	9
<b>120.0</b>	8	8	8	8	9	9	10	9	9	10
<b>122.5</b>	9	9	9	8	9	10	10	10	9	10
<b>125.0</b>	10	9	9	9	9	10	10	10	10	12
<b>127.5</b>	10	10	9	10	10	10	12	10	10	12
<b>130.0</b>	12	10	10	10	10	12	12	10	10	13

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**CANDELA TABULATION - (Cont.)**

132.5	12	12	12	10	12	12	12	12	12	13
135.0	10	10	9	9	10	10	10	10	10	12
137.5	5	5	5	6	8	8	8	8	8	9
140.0	1	1	3	4	5	6	6	6	7	7
142.5	1	1	3	4	5	6	6	6	6	7
145.0	1	1	2	4	5	5	6	6	6	6
147.5	1	1	2	4	5	5	6	6	6	6
150.0	0	1	2	4	5	5	6	6	6	6
152.5	1	1	3	4	5	6	6	6	6	6
155.0	1	1	3	4	5	5	5	6	6	6
157.5	1	1	3	4	5	5	5	5	5	6
160.0	1	1	3	4	5	5	5	5	5	5
162.5	1	1	3	4	5	5	5	5	5	5
165.0	1	1	3	4	5	5	5	5	5	5
167.5	1	1	3	4	5	5	5	5	5	5
170.0	1	1	3	4	5	5	5	5	5	5
172.5	1	1	3	4	4	5	5	5	5	5
175.0	1	1	3	4	4	5	5	5	5	5
177.5	1	1	2	3	4	4	5	5	5	5
180.0	3	3	3	3	3	3	3	3	3	3

**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	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972
2.5	1978	1984	1966	1964	1964	1973	1986	1992	1960	1925
5.0	1837	1844	1832	1862	1879	1901	1923	1930	1914	1855
7.5	1883	1920	1918	1974	1912	1819	1742	1781	1783	1841
10.0	1923	1896	1912	1933	1855	1837	1794	1782	1705	1783
12.5	1987	2017	2060	2043	1934	1812	1808	1868	1808	1817
15.0	2185	2163	2170	2076	1937	1971	1942	1821	1686	1547
17.5	2283	2302	2281	2229	2045	2043	1929	1633	1356	1195
20.0	2555	2507	2504	2265	2128	2074	1689	1356	1149	1083
22.5	2782	2751	2745	2500	2256	1966	1464	1199	1102	1074
25.0	3076	3032	2978	2666	2371	1802	1305	1158	1118	1120
27.5	3339	3280	3188	2916	2441	1624	1275	1172	1202	1240
30.0	3564	3560	3388	3027	2346	1593	1302	1226	1310	1372
32.5	3888	3728	3527	3070	2257	1594	1349	1291	1421	1587
35.0	4143	4046	3711	3094	2115	1622	1382	1339	1554	1772
37.5	4521	4328	3970	3028	2026	1629	1385	1387	1639	1858
40.0	4765	4443	4042	2951	1967	1616	1369	1378	1651	1689
42.5	4982	4559	4077	2844	1882	1583	1310	1282	1453	1274
45.0	5264	4692	4150	2716	1790	1508	1202	1073	1060	903
47.5	5496	4819	4212	2590	1684	1377	1025	831	729	631
50.0	5685	4859	4190	2489	1537	1187	831	630	510	462
52.5	5813	4886	4123	2407	1340	920	618	457	368	346
55.0	5863	4854	4004	2289	1083	649	422	317	267	259
57.5	5726	4707	3825	2089	809	432	294	225	192	192
60.0	5351	4399	3524	1765	562	323	226	167	139	136
62.5	4802	3874	3044	1416	404	262	178	125	96	96
65.0	4087	3153	2383	1045	323	214	143	94	70	67
67.5	3054	2335	1553	648	259	173	111	76	51	47
70.0	2002	1526	913	375	196	132	87	62	41	36
72.5	1169	872	558	244	132	93	68	49	33	22
75.0	832	596	380	172	97	68	55	36	17	9
77.5	588	411	259	128	75	57	43	22	8	5

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**CANDELA TABULATION - (Cont.)**

80.0	360	260	184	93	60	48	34	16	5	4
82.5	241	181	128	66	48	40	29	14	4	3
85.0	161	110	73	43	39	35	25	14	3	3
87.5	72	45	33	27	28	26	19	12	3	3
90.0	15	9	17	24	28	25	19	12	3	3
92.5	12	9	18	26	29	27	21	13	5	4
95.0	12	8	18	25	28	26	20	14	6	5
97.5	10	7	15	21	23	22	18	14	7	5
100.0	9	8	12	16	19	19	16	13	8	6
102.5	9	8	10	13	15	16	14	12	8	6
105.0	8	8	10	12	13	14	13	12	8	7
107.5	8	8	10	12	13	13	13	12	9	7
110.0	8	9	10	12	13	13	12	10	8	7
112.5	9	9	10	12	13	13	12	12	9	8
115.0	9	10	12	12	13	13	13	12	10	8
117.5	10	10	12	13	14	14	14	13	12	9
120.0	10	12	12	13	14	15	15	14	13	10
122.5	12	13	13	14	15	16	15	15	13	12
125.0	12	13	13	14	15	15	15	15	14	12
127.5	13	13	14	14	15	15	15	15	14	13
130.0	13	14	13	14	15	15	15	15	14	13
132.5	13	14	14	14	14	15	15	14	14	12
135.0	13	13	13	14	13	13	13	12	10	10
137.5	10	10	10	10	12	10	10	8	7	6
140.0	7	8	8	8	8	8	7	6	5	3
142.5	7	7	7	8	8	7	6	5	4	2
145.0	7	7	7	7	7	7	6	5	3	2
147.5	7	7	7	7	7	7	6	5	3	2
150.0	6	7	7	7	7	6	5	4	3	1
152.5	6	7	7	7	7	6	5	4	3	1
155.0	6	6	6	6	6	6	5	4	2	1
157.5	6	6	6	6	6	6	5	3	2	1
160.0	5	6	6	6	6	5	4	3	2	0
162.5	5	5	5	5	5	5	4	2	1	0
165.0	5	5	5	5	5	5	3	2	1	0
167.5	5	5	5	5	5	4	3	2	1	0
170.0	5	5	5	5	5	4	3	2	1	0
172.5	5	5	5	5	4	4	3	2	1	0
175.0	5	5	5	5	4	4	3	2	0	0
177.5	5	5	5	4	4	3	2	2	0	0
180.0	3	3	3	3	3	3	3	3	3	3

**Vert. Horizontal Angles**  
**Angles**

	<b>175</b>	<b>180</b>
0.0	1972	1972
2.5	1931	1946
5.0	1837	1857
7.5	1823	1807
10.0	1836	1794
12.5	1813	1786
15.0	1550	1547
17.5	1179	1175
20.0	1098	1100
22.5	1099	1119
25.0	1184	1222

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**CANDELA TABULATION - (Cont.)**

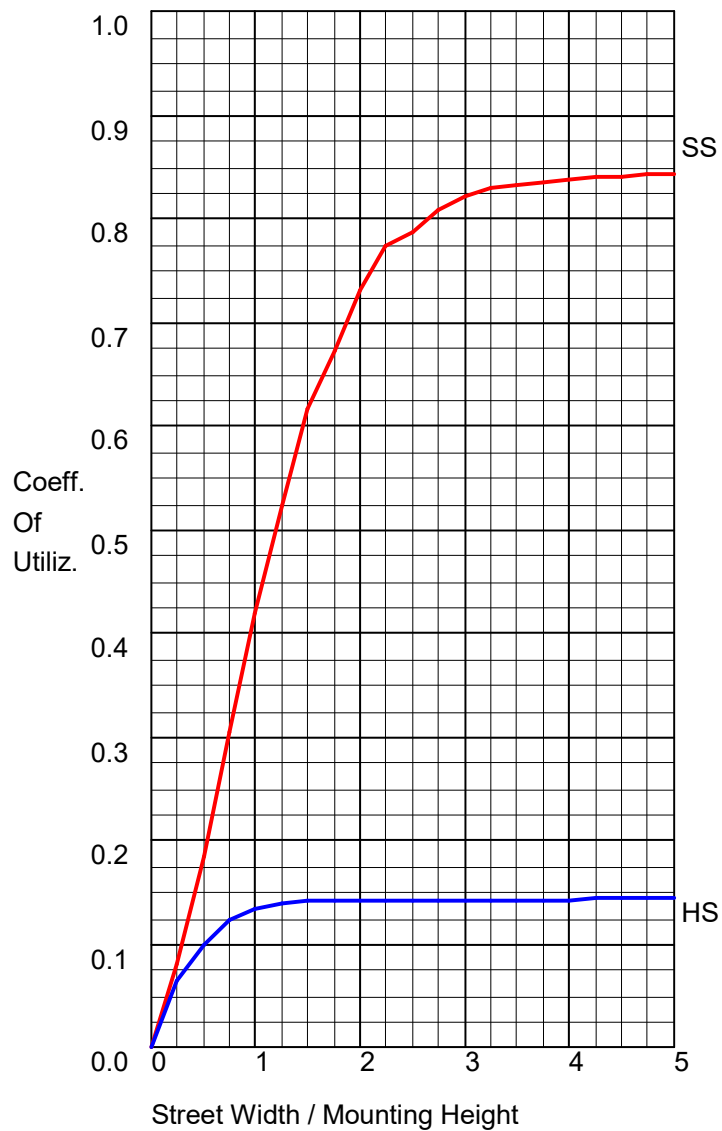
<b>27.5</b>	1311	1374
<b>30.0</b>	1484	1499
<b>32.5</b>	1736	1748
<b>35.0</b>	1849	1869
<b>37.5</b>	1823	1803
<b>40.0</b>	1503	1474
<b>42.5</b>	1118	1098
<b>45.0</b>	837	831
<b>47.5</b>	634	638
<b>50.0</b>	489	481
<b>52.5</b>	376	373
<b>55.0</b>	285	288
<b>57.5</b>	219	223
<b>60.0</b>	166	170
<b>62.5</b>	126	129
<b>65.0</b>	93	97
<b>67.5</b>	66	70
<b>70.0</b>	48	51
<b>72.5</b>	26	27
<b>75.0</b>	9	12
<b>77.5</b>	2	3
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0
<b>92.5</b>	1	0
<b>95.0</b>	2	2
<b>97.5</b>	3	3
<b>100.0</b>	4	4
<b>102.5</b>	5	4
<b>105.0</b>	5	4
<b>107.5</b>	6	5
<b>110.0</b>	6	6
<b>112.5</b>	7	6
<b>115.0</b>	7	7
<b>117.5</b>	8	8
<b>120.0</b>	9	8
<b>122.5</b>	9	9
<b>125.0</b>	10	9
<b>127.5</b>	10	10
<b>130.0</b>	10	10
<b>132.5</b>	10	10
<b>135.0</b>	8	8
<b>137.5</b>	5	4
<b>140.0</b>	2	2
<b>142.5</b>	1	0
<b>145.0</b>	0	0
<b>147.5</b>	0	0
<b>150.0</b>	0	0
<b>152.5</b>	0	0
<b>155.0</b>	0	0
<b>157.5</b>	0	0
<b>160.0</b>	0	0
<b>162.5</b>	0	0
<b>165.0</b>	0	0

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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	3	3

### COEFFICIENTS OF UTILIZATION

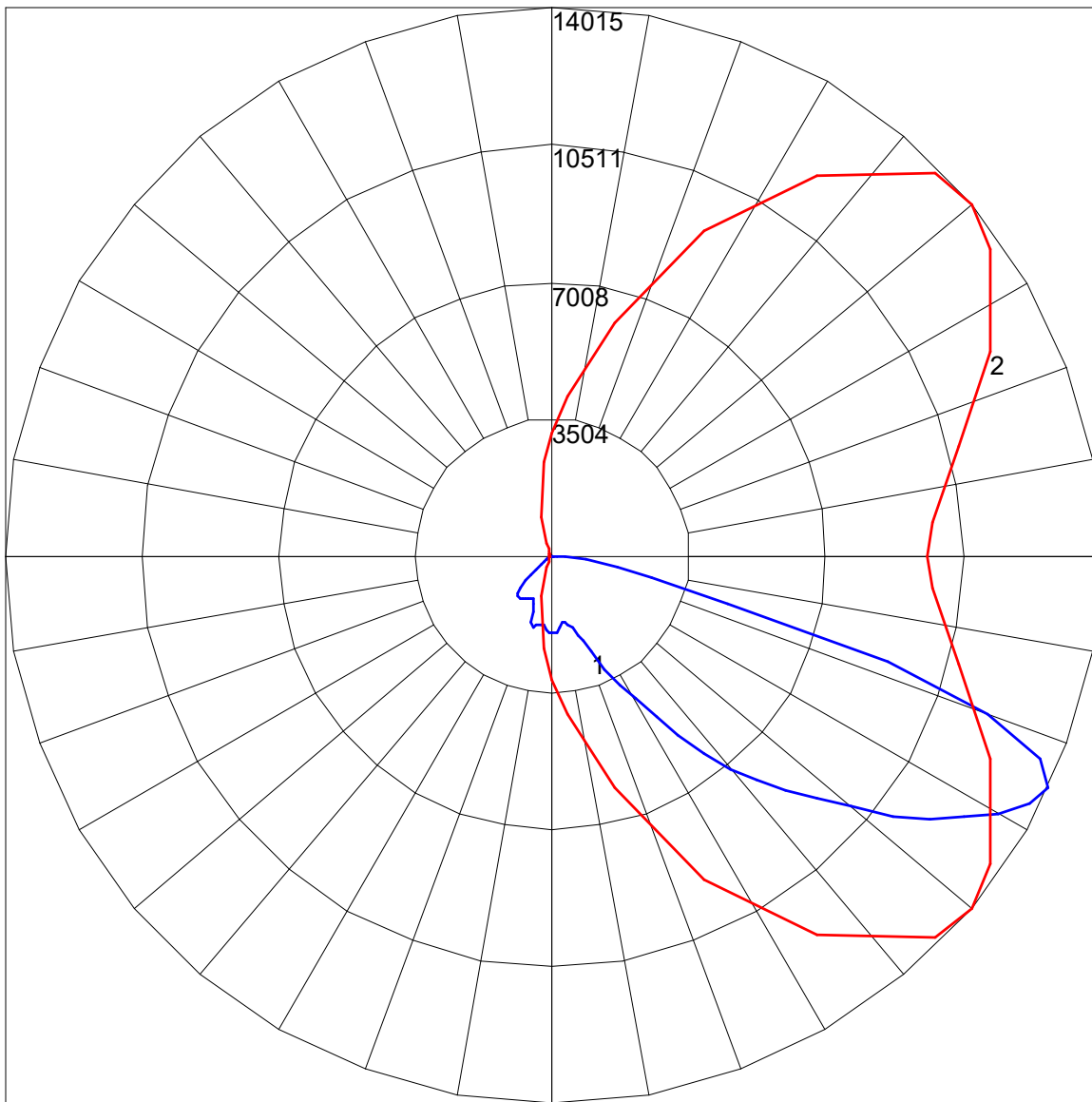


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16966.8	85.3
Downward House Side	2867.0	14.4
Downward Total	19833.8	99.7
Upward Street Side	25.2	0.1
Upward House Side	32.8	0.2
Upward Total	58.0	0.3
Total Flux	19891.8	100.0

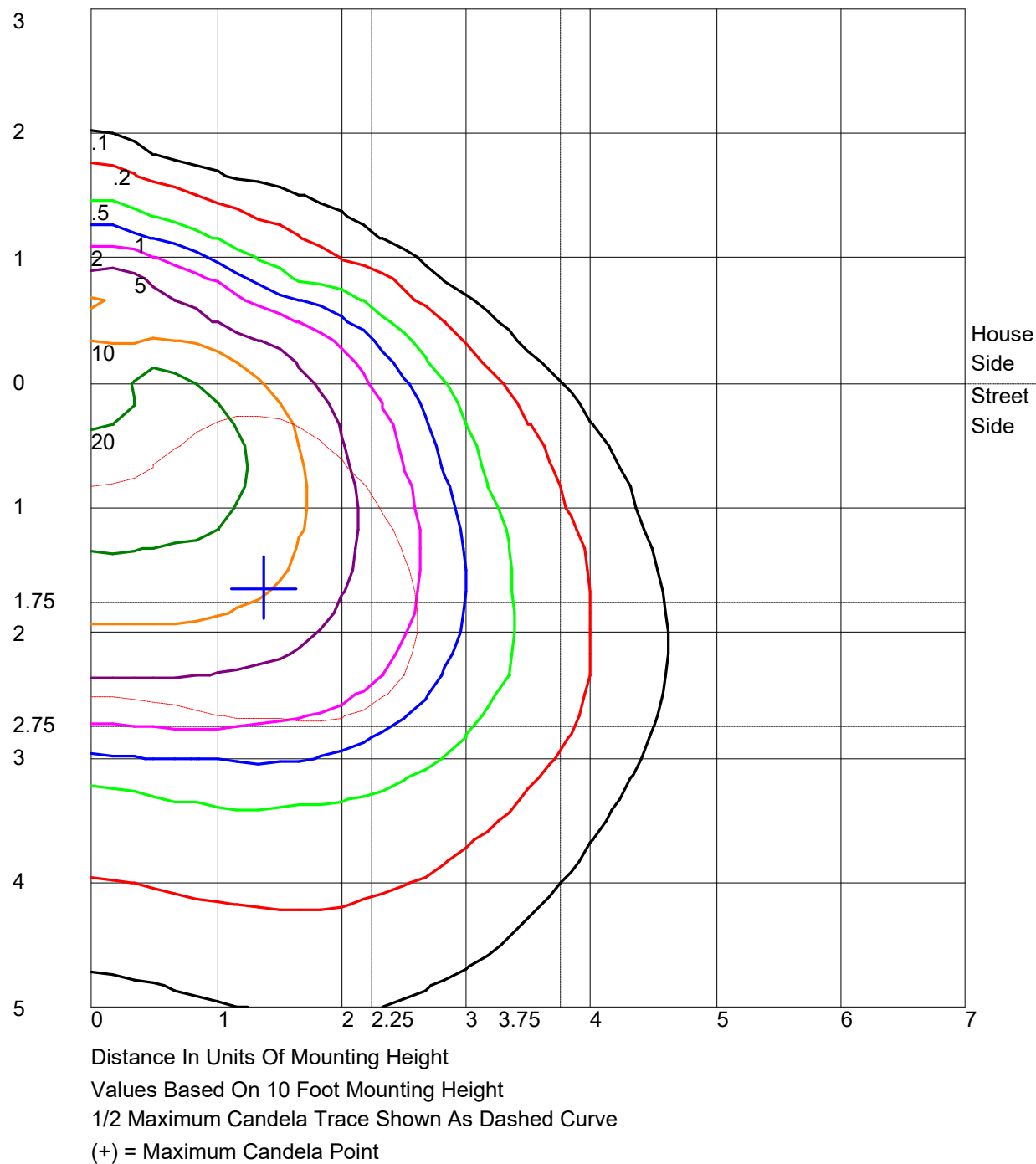


POLAR GRAPH

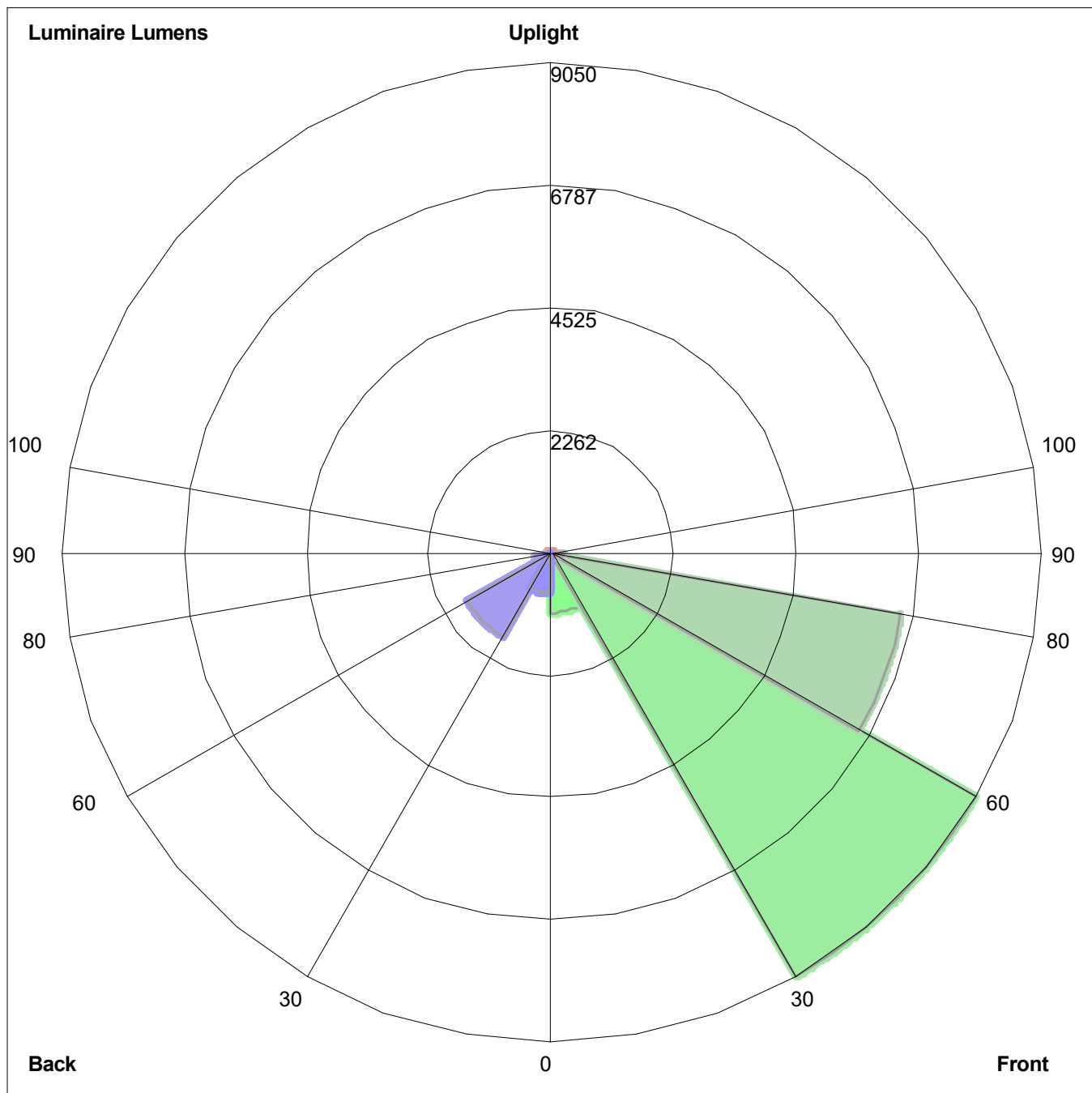


Maximum Candela = 14015 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1112.5, Medium= 9050.0, High=6565.8, Very High=238.5  
Back: Low=756.9, Medium=1782.9, High=311.6, Very High=15.7  
Uplight: Low=14.2, High=43.8

BUG Rating : B2-U2-G3