



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-FT-LED-10L-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	7936
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5592
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	5592
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	23 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	703 (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)	443.9	N.A.	5.6
FM - Front-Medium (30-60)	3610.8	N.A.	45.5
FH - Front-High (60-80)	2619.7	N.A.	33.0
FVH - Front-Very High (80-90)	95.2	N.A.	1.2
BL - Back-Low (0-30)	302.0	N.A.	3.8
BM - Back-Medium (30-60)	711.3	N.A.	9.0
BH - Back-High (60-80)	124.3	N.A.	1.6
BVH - Back-Very High (80-90)	6.2	N.A.	0.1
UL - Uplight-Low (90-100)	5.6	N.A.	0.1
UH - Uplight-High (100-180)	16.9	N.A.	0.2
Total	7935.9	N.A.	100.0
BUG Rating	B1-U2-G2		

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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>	787	787	787	787	787	787	787	787	787	787
<b>2.5</b>	770	778	782	778	783	782	791	791	786	783
<b>5.0</b>	720	719	738	754	757	745	752	732	726	718
<b>7.5</b>	683	697	716	701	674	685	679	719	758	759
<b>10.0</b>	678	686	684	670	677	691	711	729	740	760
<b>12.5</b>	738	721	716	691	704	713	721	739	784	799
<b>15.0</b>	779	763	770	774	779	767	762	787	823	848
<b>17.5</b>	831	817	813	831	854	846	863	850	870	914
<b>20.0</b>	922	922	929	931	926	934	951	953	941	995
<b>22.5</b>	1015	1033	1057	1096	1067	1057	1068	1074	1042	1104
<b>25.0</b>	1175	1168	1187	1225	1287	1277	1240	1249	1203	1203
<b>27.5</b>	1436	1402	1424	1416	1452	1485	1478	1442	1385	1334
<b>30.0</b>	1628	1654	1656	1681	1665	1694	1701	1692	1565	1476
<b>32.5</b>	2049	2003	1940	1930	1951	1962	1951	1947	1777	1645
<b>35.0</b>	2270	2294	2232	2252	2218	2253	2212	2206	2017	1802
<b>37.5</b>	2628	2616	2520	2535	2553	2555	2488	2477	2265	2022
<b>40.0</b>	2853	2845	2868	2843	2851	2840	2823	2727	2543	2201
<b>42.5</b>	3024	3031	3046	3084	3140	3103	3085	3028	2808	2364
<b>45.0</b>	3186	3224	3233	3286	3423	3384	3404	3275	3055	2537
<b>47.5</b>	3383	3429	3455	3521	3672	3657	3698	3540	3294	2738
<b>50.0</b>	3598	3637	3681	3792	3944	3974	4016	3866	3593	2937
<b>52.5</b>	3751	3793	3871	4016	4251	4384	4335	4202	3833	3065
<b>55.0</b>	3886	3920	4030	4233	4593	4704	4680	4515	4011	3159
<b>57.5</b>	4028	4065	4200	4459	4891	4984	4973	4752	4117	3160
<b>60.0</b>	4133	4171	4353	4696	5136	5270	5254	4900	4108	3049
<b>62.5</b>	4161	4195	4472	4933	5356	5490	5433	4896	3983	2829
<b>65.0</b>	3822	3891	4284	4934	5474	5592	5525	4734	3666	2457
<b>67.5</b>	3221	3264	3738	4508	5236	5390	5245	4378	3187	1998
<b>70.0</b>	1770	1926	2559	3652	4503	4745	4605	3749	2546	1409
<b>72.5</b>	770	835	1176	2027	3214	3583	3673	2842	1769	883
<b>75.0</b>	580	616	791	1108	1621	1857	2090	1855	1088	585
<b>77.5</b>	465	495	659	871	1011	1031	1055	1039	695	416
<b>80.0</b>	373	404	551	683	703	668	625	511	440	278
<b>82.5</b>	279	302	397	447	368	340	284	215	215	183
<b>85.0</b>	154	162	203	202	145	137	114	96	101	103
<b>87.5</b>	51	58	69	65	46	42	34	31	30	39
<b>90.0</b>	18	19	23	19	14	12	8	5	4	5
<b>92.5</b>	8	8	6	4	4	4	4	4	4	4
<b>95.0</b>	1	1	2	2	4	4	4	4	4	4
<b>97.5</b>	1	1	2	2	3	3	4	4	4	4
<b>100.0</b>	1	1	2	2	3	3	3	3	3	4
<b>102.5</b>	1	1	2	2	3	3	3	3	3	3
<b>105.0</b>	2	1	2	2	3	3	3	3	3	3
<b>107.5</b>	2	2	2	2	3	3	3	3	3	3
<b>110.0</b>	2	2	2	2	3	3	3	3	3	3
<b>112.5</b>	2	2	2	2	3	3	3	3	3	4
<b>115.0</b>	2	2	2	3	3	3	4	3	3	4
<b>117.5</b>	3	3	3	3	3	4	4	4	4	4
<b>120.0</b>	3	3	3	3	4	4	4	4	4	4
<b>122.5</b>	4	4	4	3	4	4	4	4	4	4
<b>125.0</b>	4	4	4	4	4	4	4	4	4	4
<b>127.5</b>	4	4	4	4	4	4	4	4	4	4
<b>130.0</b>	4	4	4	4	4	4	4	4	4	5

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**CANDELA TABULATION - (Cont.)**

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

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	787	787	787	787	787	787	787	787	787	787
2.5	789	791	784	784	784	787	792	795	782	768
5.0	733	736	731	743	749	759	767	770	764	740
7.5	752	766	765	787	763	725	695	711	712	735
10.0	767	757	763	771	740	733	716	711	680	712
12.5	792	805	822	814	771	723	721	745	721	725
15.0	872	863	866	828	773	786	775	726	673	617
17.5	911	918	910	889	816	814	769	652	541	477
20.0	1019	1000	999	904	849	827	674	541	459	432
22.5	1110	1098	1095	997	900	784	585	479	440	428
25.0	1227	1210	1188	1063	946	719	521	462	446	447
27.5	1332	1309	1272	1163	974	648	509	468	480	494
30.0	1422	1420	1352	1208	936	636	520	489	523	547
32.5	1551	1487	1408	1225	901	636	538	515	567	633
35.0	1653	1614	1481	1234	844	647	551	534	620	706
37.5	1803	1727	1584	1208	808	650	553	553	654	741
40.0	1901	1773	1612	1178	785	644	546	550	659	674
42.5	1988	1819	1627	1135	750	632	523	511	579	508
45.0	2100	1871	1656	1084	714	601	480	428	423	360
47.5	2193	1923	1680	1034	672	549	409	332	291	252
50.0	2268	1939	1672	993	613	473	332	251	204	185
52.5	2320	1949	1645	960	535	367	247	183	147	139
55.0	2340	1937	1597	913	432	259	168	126	106	104
57.5	2284	1878	1526	833	323	172	118	89	77	77
60.0	2135	1755	1405	704	224	129	90	66	56	55
62.5	1916	1546	1214	565	162	105	71	49	38	38
65.0	1631	1258	951	417	129	85	57	38	28	27
67.5	1219	932	620	258	104	69	44	30	21	19
70.0	799	609	364	149	79	52	35	25	17	15
72.5	466	348	223	98	52	38	27	20	13	8
75.0	332	238	151	68	39	27	22	15	6	4
77.5	234	164	104	51	29	23	17	8	3	2

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**CANDELA TABULATION - (Cont.)**

80.0	144	104	73	38	24	19	14	6	2	2
82.5	97	72	51	26	19	16	12	5	2	1
85.0	64	44	29	17	16	14	10	5	1	1
87.5	29	18	13	10	12	10	7	4	1	1
90.0	6	4	6	9	12	10	7	4	1	1
92.5	4	4	7	10	12	10	8	5	2	2
95.0	4	3	7	10	12	10	8	5	2	2
97.5	4	3	6	8	9	8	7	5	3	2
100.0	4	3	4	6	7	7	6	5	3	2
102.5	4	3	4	5	6	6	5	4	3	2
105.0	3	3	4	4	5	5	5	4	3	3
107.5	3	3	4	4	5	5	5	4	4	3
110.0	3	4	4	4	5	5	4	4	3	3
112.5	4	4	4	4	5	5	4	4	4	3
115.0	4	4	4	4	5	5	5	4	4	3
117.5	4	4	4	5	5	5	5	5	4	4
120.0	4	4	4	5	5	6	6	5	5	4
122.5	4	5	5	5	6	6	6	6	5	4
125.0	4	5	5	5	6	6	6	6	5	4
127.5	5	5	5	5	6	6	6	6	5	5
130.0	5	5	5	5	6	6	6	6	5	5
132.5	5	5	5	5	5	6	6	5	5	4
135.0	5	5	5	5	5	5	5	4	4	4
137.5	4	4	4	4	4	4	4	3	3	2
140.0	3	3	3	3	3	3	3	2	2	1
142.5	3	3	3	3	3	3	2	2	2	1
145.0	3	3	3	3	3	3	2	2	1	1
147.5	3	3	3	3	3	3	2	2	1	1
150.0	2	3	3	3	3	2	2	2	1	0
152.5	2	3	3	3	3	2	2	2	1	0
155.0	2	2	2	2	2	2	2	2	1	0
157.5	2	2	2	2	2	2	2	1	1	0
160.0	2	2	2	2	2	2	2	1	1	0
162.5	2	2	2	2	2	2	2	1	0	0
165.0	2	2	2	2	2	2	1	1	0	0
167.5	2	2	2	2	2	2	1	1	0	0
170.0	2	2	2	2	2	2	1	1	0	0
172.5	2	2	2	2	2	2	1	1	0	0
175.0	2	2	2	2	2	2	1	1	0	0
177.5	2	2	2	2	2	1	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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

	<b>175</b>	<b>180</b>
0.0	787	787
2.5	770	777
5.0	733	741
7.5	727	721
10.0	733	716
12.5	723	713
15.0	618	617
17.5	470	468
20.0	438	439
22.5	439	446
25.0	472	487

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

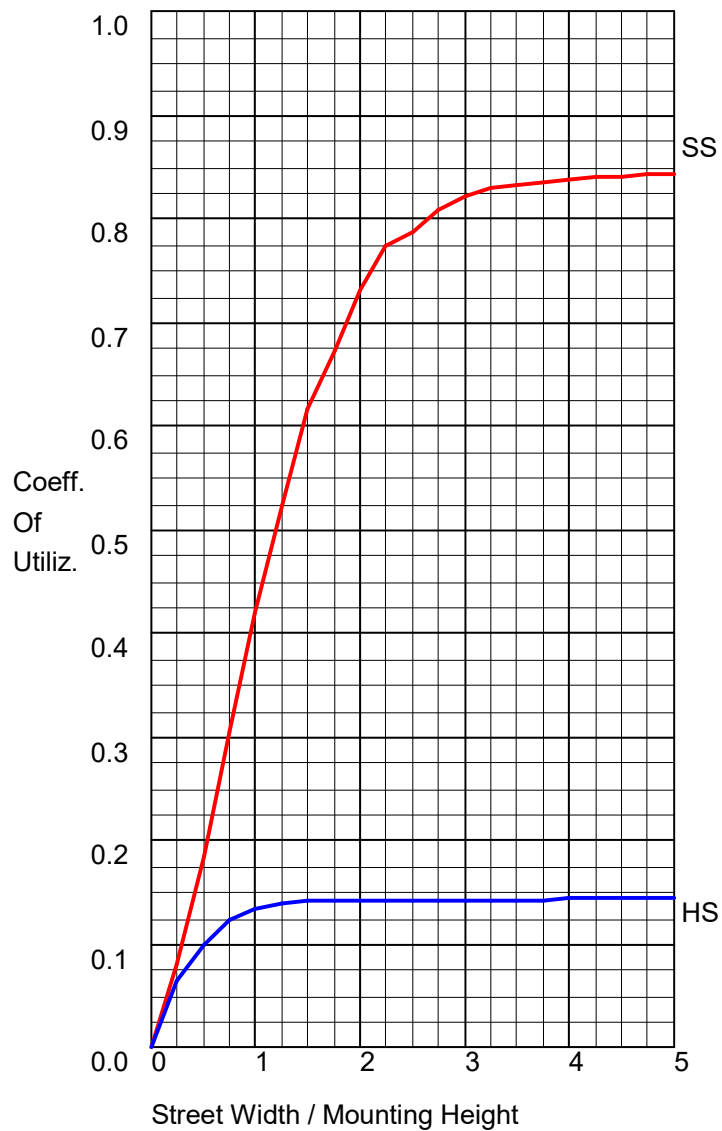
27.5	523	548
30.0	592	598
32.5	693	697
35.0	738	746
37.5	727	719
40.0	599	588
42.5	446	438
45.0	334	332
47.5	253	255
50.0	195	192
52.5	150	149
55.0	114	114
57.5	87	89
60.0	66	68
62.5	50	51
65.0	38	39
67.5	26	28
70.0	19	21
72.5	10	10
75.0	4	4
77.5	1	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	1
97.5	1	1
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	2	2
112.5	3	2
115.0	3	3
117.5	3	3
120.0	4	3
122.5	4	4
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	3	3
137.5	2	2
140.0	1	1
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

**IES ROAD REPORT**  
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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>	1	1

### COEFFICIENTS OF UTILIZATION

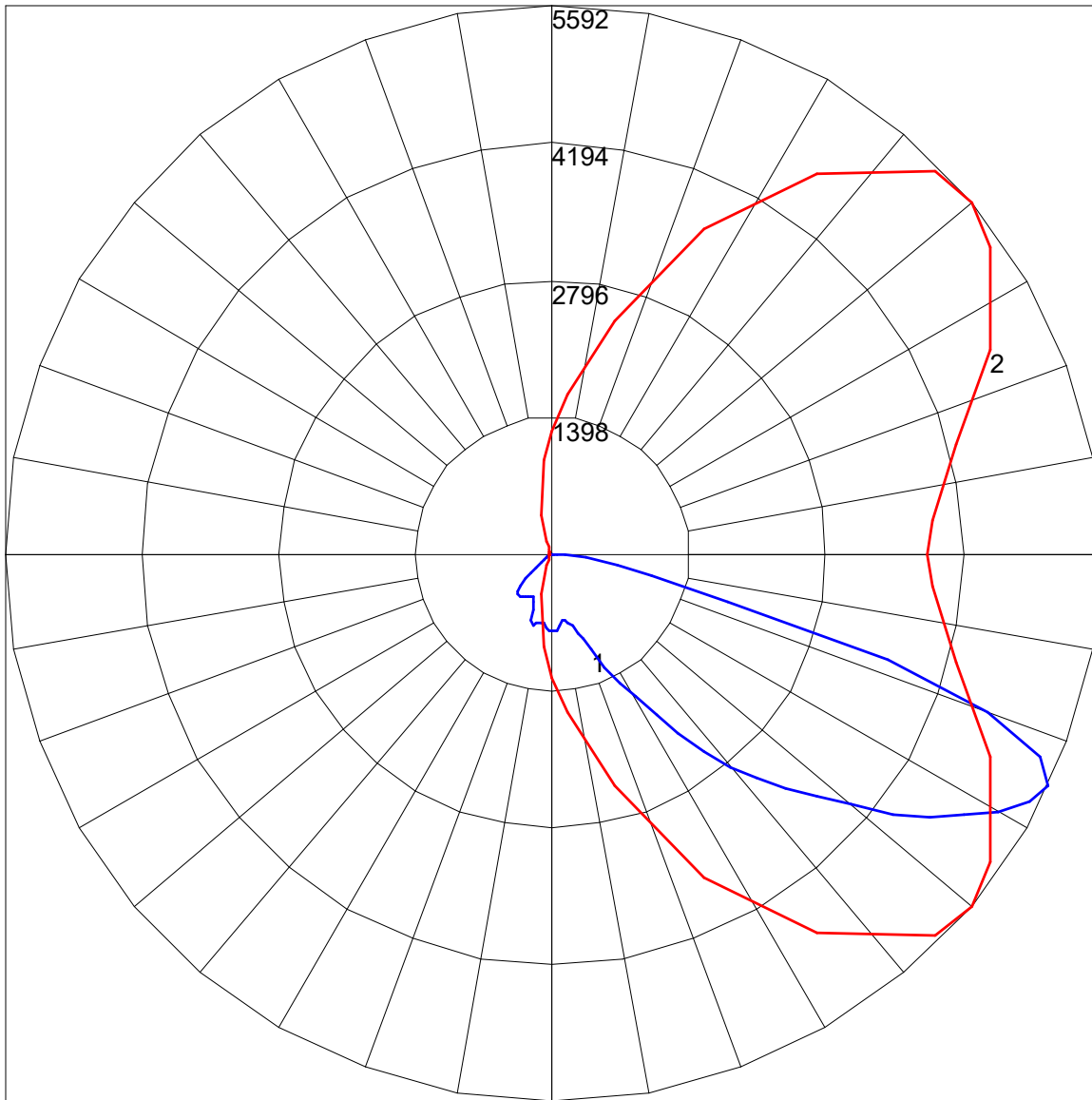


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6769.6	85.3
Downward House Side	1143.8	14.4
Downward Total	7913.4	99.7
Upward Street Side	9.9	0.1
Upward House Side	12.5	0.2
Upward Total	22.4	0.3
Total Flux	7935.8	100.0

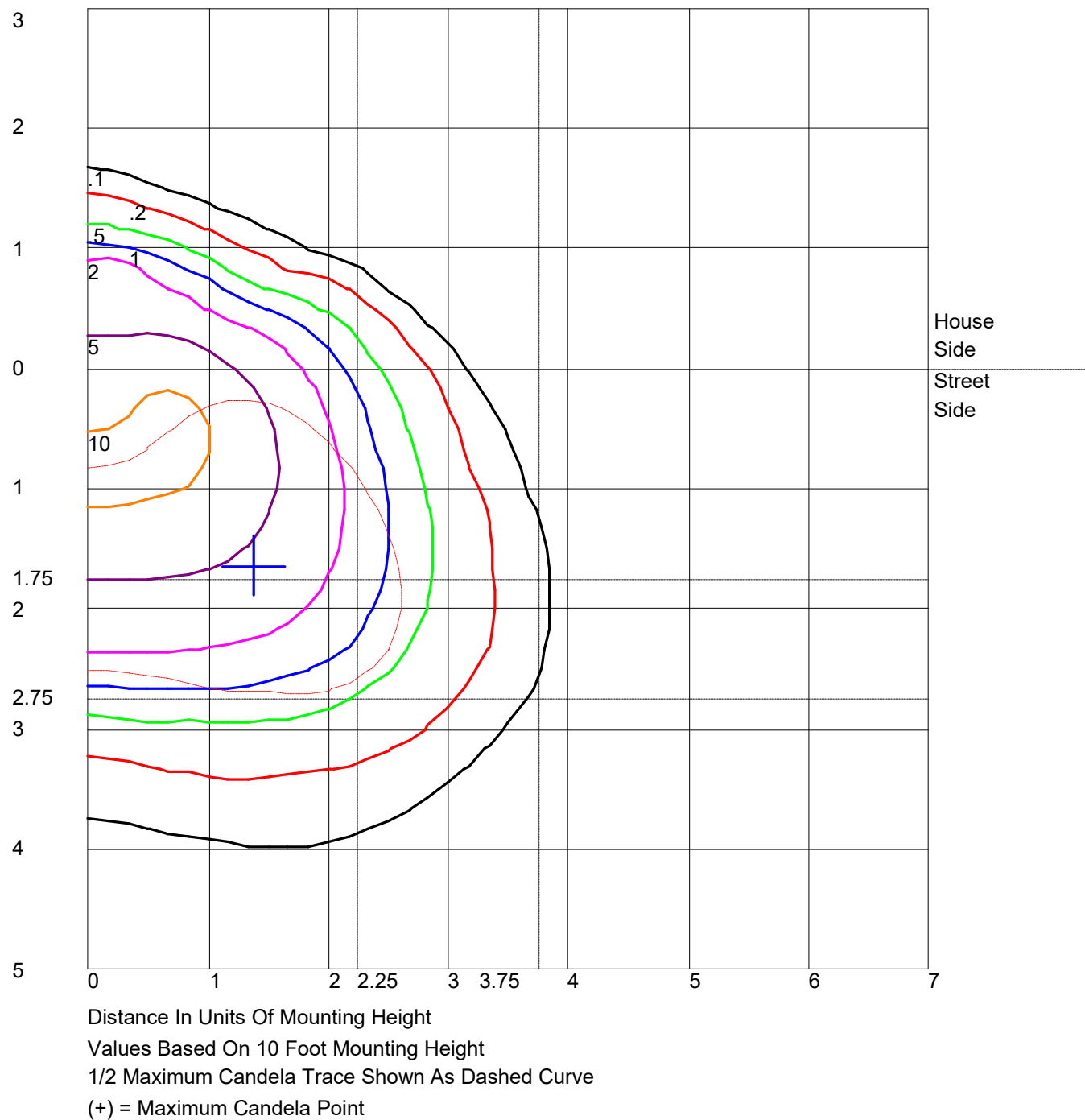


POLAR GRAPH

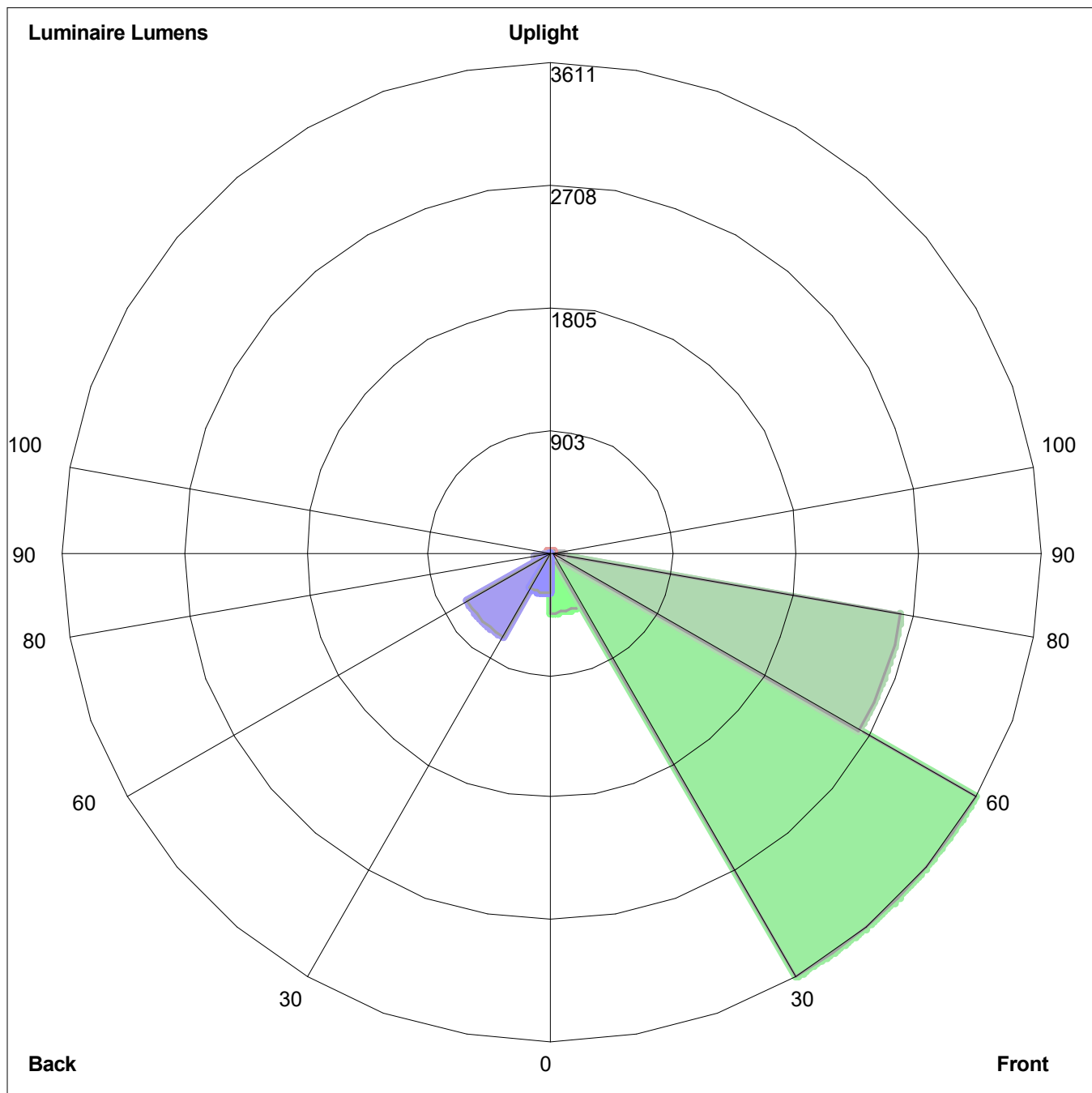


Maximum Candela = 5592 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=443.9, Medium=3610.8, High=2619.7, Very High=95.2  
Back: Low=302.0, Medium=711.3, High=124.3, Very High=6.2  
Uplight: Low=5.6, High=16.9

BUG Rating : B1-U2-G2