



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11753  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/24/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-FT-LED-25L-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	26465
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14758
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	14758
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	216 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4593 (17.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1218.1	N.A.	4.6
FM - Front-Medium (30-60)	8371.5	N.A.	31.6
FH - Front-High (60-80)	8767.9	N.A.	33.1
FVH - Front-Very High (80-90)	524.0	N.A.	2.0
BL - Back-Low (0-30)	1216.3	N.A.	4.6
BM - Back-Medium (30-60)	4330.0	N.A.	16.4
BH - Back-High (60-80)	1813.9	N.A.	6.9
BVH - Back-Very High (80-90)	158.6	N.A.	0.6
UL - Uplight-Low (90-100)	19.3	N.A.	0.1
UH - Uplight-High (100-180)	45.5	N.A.	0.2
Total	26465.1	N.A.	100.0
BUG Rating	B3-U2-G4		

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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>	2355	2355	2355	2355	2355	2355	2355	2355	2355	2355
<b>2.5</b>	2372	2364	2330	2337	2315	2313	2320	2315	2320	2329
<b>5.0</b>	2199	2159	2167	2231	2216	2202	2214	2142	2154	2160
<b>7.5</b>	2100	2061	2108	2035	1994	1996	1986	2043	2161	2185
<b>10.0</b>	2085	2024	2064	1938	1973	1997	2029	2096	2113	2204
<b>12.5</b>	2210	2192	2099	2017	2105	2057	2080	2170	2165	2280
<b>15.0</b>	2274	2299	2238	2268	2334	2206	2203	2271	2279	2422
<b>17.5</b>	2399	2424	2335	2425	2452	2466	2462	2385	2420	2581
<b>20.0</b>	2676	2674	2671	2650	2661	2624	2636	2648	2608	2767
<b>22.5</b>	2917	2858	2946	3000	3031	2894	2904	2965	2849	2968
<b>25.0</b>	3332	3217	3350	3309	3321	3408	3321	3233	3196	3201
<b>27.5</b>	3817	3976	3961	3762	3712	3784	3743	3589	3492	3476
<b>30.0</b>	4451	4362	4240	4272	4228	4120	4192	4069	3842	3758
<b>32.5</b>	5251	5313	4922	4678	4747	4766	4584	4558	4270	4035
<b>35.0</b>	5981	5855	5680	5382	5235	5269	5210	5070	4617	4456
<b>37.5</b>	6749	6716	6281	5947	5896	5746	5771	5559	5090	4641
<b>40.0</b>	7188	7193	7010	6769	6557	6386	6320	6112	5587	4973
<b>42.5</b>	7635	7638	7504	7427	7187	7044	6912	6626	5956	5165
<b>45.0</b>	8074	8089	8016	7976	7837	7778	7588	7208	6349	5421
<b>47.5</b>	8500	8535	8524	8459	8459	8365	8240	7815	6841	5744
<b>50.0</b>	8851	8905	8939	9005	9076	8965	8868	8472	7458	6123
<b>52.5</b>	9138	9150	9272	9430	9614	9584	9528	9242	8136	6623
<b>55.0</b>	9307	9316	9540	9758	10151	10099	10157	10047	8976	7236
<b>57.5</b>	9412	9432	9703	10002	10536	10642	10785	10957	9838	7907
<b>60.0</b>	9454	9481	9797	10182	10973	11196	11498	11875	10734	8544
<b>62.5</b>	9570	9612	9959	10350	11449	11828	12261	12777	11561	9032
<b>65.0</b>	9853	9904	10340	10776	12071	12661	13123	13542	12069	9074
<b>67.5</b>	10135	10228	10867	11661	13074	13653	13903	13949	11727	8065
<b>70.0</b>	9585	9691	10694	12692	14298	14575	14371	13430	9919	5983
<b>72.5</b>	7952	8147	9370	11829	14553	14758	14127	11272	6946	3611
<b>75.0</b>	5317	5605	7079	9481	12519	12639	11571	7934	4160	2329
<b>77.5</b>	2871	3068	4139	6212	8349	8344	7593	4769	2649	1561
<b>80.0</b>	1453	1616	2563	3593	4498	4593	4094	2942	1677	959
<b>82.5</b>	880	937	1654	2113	2102	2445	2323	1557	997	534
<b>85.0</b>	653	698	1085	1289	1400	1248	1061	684	478	292
<b>87.5</b>	427	460	715	651	756	525	241	239	160	117
<b>90.0</b>	115	163	216	76	67	43	29	15	9	10
<b>92.5</b>	18	20	16	13	10	12	10	9	8	9
<b>95.0</b>	10	9	10	12	10	12	10	8	7	8
<b>97.5</b>	8	8	9	10	9	10	9	8	7	8
<b>100.0</b>	8	7	8	8	8	9	9	8	7	8
<b>102.5</b>	7	6	7	7	7	8	8	7	7	8
<b>105.0</b>	6	6	7	7	7	7	8	7	7	8
<b>107.5</b>	7	6	7	7	7	7	7	7	7	8
<b>110.0</b>	7	7	7	7	7	7	7	7	7	8
<b>112.5</b>	8	7	7	7	7	7	8	7	7	8
<b>115.0</b>	9	8	8	8	8	8	8	7	8	9
<b>117.5</b>	9	9	9	8	8	8	8	7	8	9
<b>120.0</b>	10	10	9	9	9	8	9	8	8	9
<b>122.5</b>	12	10	10	10	9	9	9	8	8	10
<b>125.0</b>	12	12	12	12	10	9	9	8	9	10
<b>127.5</b>	12	12	12	12	12	10	10	9	9	12
<b>130.0</b>	13	13	13	12	12	12	10	9	9	13

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**CANDELA TABULATION - (Cont.)**

132.5	14	13	13	13	12	12	12	9	9	13
135.0	12	12	12	12	10	10	9	8	9	12
137.5	6	6	6	6	6	7	7	6	6	8
140.0	2	2	3	4	5	5	5	5	5	5
142.5	2	2	3	4	4	4	4	4	5	5
145.0	2	2	3	4	4	4	4	4	4	5
147.5	2	2	3	4	4	4	4	4	4	5
150.0	2	2	3	4	4	4	4	4	4	5
152.5	2	1	3	4	4	4	4	4	4	4
155.0	2	1	3	4	4	4	3	4	4	4
157.5	2	1	3	4	4	3	3	3	4	4
160.0	2	1	3	3	3	3	3	3	3	4
162.5	1	1	2	3	3	3	3	3	3	4
165.0	1	1	3	3	3	3	3	3	3	4
167.5	1	1	3	3	3	3	3	3	3	4
170.0	1	1	2	3	3	3	3	3	3	4
172.5	1	1	3	3	4	4	4	3	4	4
175.0	1	1	2	3	4	4	4	4	4	4
177.5	1	1	2	3	4	4	4	4	4	4
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	2355	2355	2355	2355	2355	2355	2355	2355	2355	2355
2.5	2341	2346	2336	2327	2346	2351	2354	2365	2349	2366
5.0	2193	2196	2187	2198	2212	2289	2312	2268	2279	2217
7.5	2173	2178	2195	2298	2307	2181	2140	2102	2150	2166
10.0	2180	2180	2236	2401	2210	2177	2136	2047	2101	2164
12.5	2289	2314	2369	2411	2264	2197	2163	2240	2360	2377
15.0	2401	2458	2470	2460	2310	2260	2398	2494	2577	2636
17.5	2612	2604	2618	2538	2361	2472	2641	2682	2712	2749
20.0	2878	2904	2847	2684	2477	2752	2834	2861	2943	2977
22.5	3198	3175	3114	2925	2805	2990	2970	3062	3088	3076
25.0	3398	3423	3446	3120	3177	3187	3184	3176	3204	3273
27.5	3672	3618	3672	3299	3517	3408	3331	3280	3423	3455
30.0	3850	3871	3844	3503	3717	3658	3503	3495	3594	3663
32.5	4005	4071	4009	3758	3879	3816	3679	3607	3664	3911
35.0	4307	4216	4190	3920	4009	3958	3859	3782	3935	4181
37.5	4453	4427	4301	4159	4087	4051	3944	3953	4087	4449
40.0	4573	4471	4336	4216	4091	4081	4030	4069	4290	4679
42.5	4616	4484	4291	4143	4017	4040	3970	4156	4439	4511
45.0	4707	4527	4278	4051	3858	3938	3895	4082	4475	4145
47.5	4843	4600	4307	3969	3683	3782	3729	3950	4255	3776
50.0	5082	4742	4375	3899	3500	3595	3555	3821	3931	3470
52.5	5389	4927	4467	3830	3298	3405	3364	3649	3619	3167
55.0	5756	5145	4583	3780	3101	3204	3170	3426	3315	2906
57.5	6143	5384	4731	3715	2894	3010	2980	3171	2998	2602
60.0	6452	5529	4731	3577	2675	2799	2792	2899	2636	2358
62.5	6517	5400	4292	3346	2448	2589	2580	2602	2345	2143
65.0	6152	4773	3416	2982	2216	2371	2349	2360	2058	1964
67.5	4966	3610	2390	2443	1964	2124	2136	2125	1832	1799
70.0	3181	2322	1679	1867	1676	1844	1914	1910	1625	1647
72.5	1797	1340	1157	1404	1363	1545	1671	1676	1435	1463
75.0	1256	882	788	1031	1058	1251	1400	1408	1149	1036
77.5	827	575	556	743	825	1000	1122	929	699	718

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**CANDELA TABULATION - (Cont.)**

80.0	470	347	403	556	648	771	672	623	535	558
82.5	295	232	285	419	508	446	462	477	360	416
85.0	173	121	173	280	268	284	308	280	187	275
87.5	65	39	73	119	130	139	123	122	88	128
90.0	12	9	22	29	35	34	26	19	9	9
92.5	9	9	22	30	36	34	26	18	7	6
95.0	8	9	20	28	34	31	25	18	8	7
97.5	8	9	18	24	28	27	22	17	8	8
100.0	8	9	14	20	24	23	20	16	10	9
102.5	8	9	12	16	19	20	18	15	10	9
105.0	8	9	10	14	17	17	16	15	10	9
107.5	8	9	10	13	15	15	15	14	10	9
110.0	8	10	10	12	14	15	14	14	10	10
112.5	9	10	12	13	14	15	15	14	12	10
115.0	9	10	12	13	15	15	16	15	13	12
117.5	10	12	12	14	15	16	16	16	14	13
120.0	10	12	13	14	16	17	17	17	15	14
122.5	12	13	13	15	16	17	18	17	16	14
125.0	13	14	14	15	16	17	18	17	16	15
127.5	14	15	15	15	16	17	17	17	17	15
130.0	14	14	15	16	16	16	17	16	16	15
132.5	14	15	15	16	16	16	16	16	15	14
135.0	13	14	14	14	14	14	13	13	13	12
137.5	8	8	9	9	8	7	7	6	6	5
140.0	6	6	7	7	6	5	4	3	2	1
142.5	6	6	6	6	5	4	3	2	1	0
145.0	6	6	6	6	5	4	3	2	1	0
147.5	5	6	6	6	5	4	3	2	1	0
150.0	5	5	5	5	5	3	3	1	0	0
152.5	5	5	5	5	4	3	2	1	0	0
155.0	5	5	5	5	4	3	2	1	0	0
157.5	5	5	5	5	4	3	2	1	0	0
160.0	4	5	5	5	4	3	2	0	0	0
162.5	4	4	5	4	3	2	1	0	0	0
165.0	4	4	5	4	3	2	1	0	0	0
167.5	4	4	5	4	3	2	1	0	0	0
170.0	4	5	5	4	3	2	1	0	0	0
172.5	5	5	5	4	3	2	1	0	0	0
175.0	5	5	5	4	3	2	1	0	0	0
177.5	5	5	5	4	3	2	1	0	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	2355	2355
2.5	2382	2375
5.0	2214	2209
7.5	2150	2145
10.0	2175	2205
12.5	2475	2469
15.0	2726	2678
17.5	2870	2848
20.0	3066	3080
22.5	3184	3149
25.0	3368	3352

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

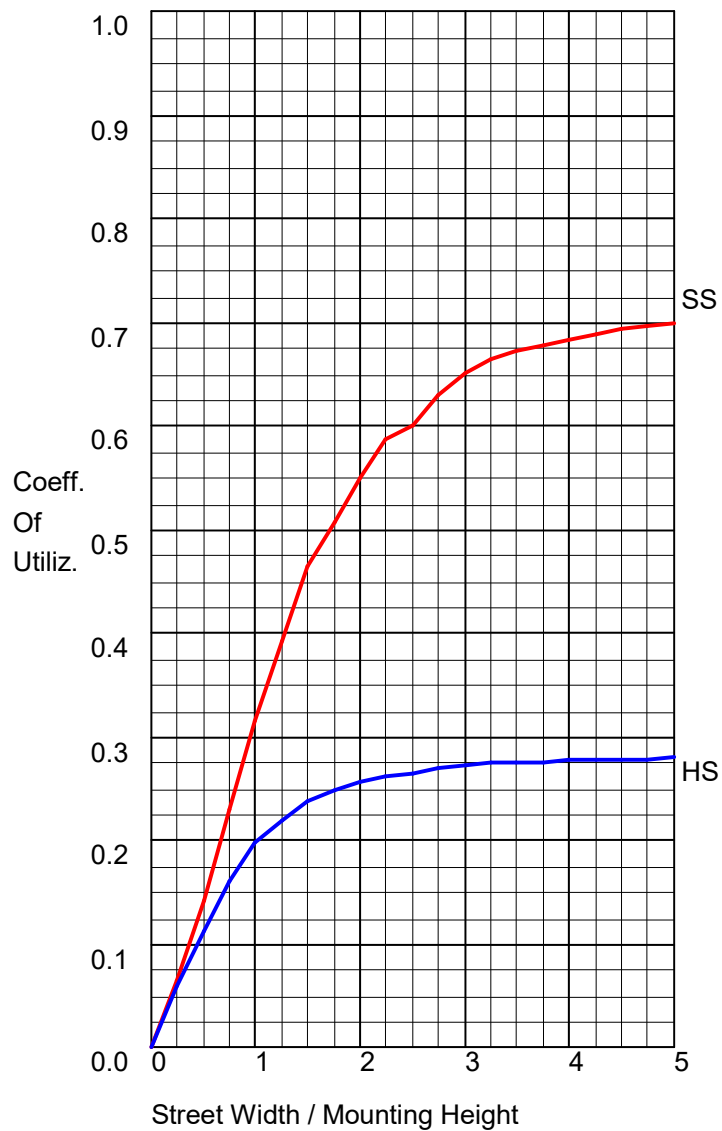
27.5	3551	3600
30.0	3788	3750
32.5	4121	4157
35.0	4356	4339
37.5	4673	4669
40.0	4626	4559
42.5	4194	4108
45.0	3801	3752
47.5	3522	3463
50.0	3279	3218
52.5	3035	2993
55.0	2807	2743
57.5	2512	2474
60.0	2311	2280
62.5	2138	2104
65.0	1990	1962
67.5	1866	1851
70.0	1759	1748
72.5	1592	1594
75.0	1146	1162
77.5	922	937
80.0	768	810
82.5	607	643
85.0	425	464
87.5	250	289
90.0	24	24
92.5	3	2
95.0	4	4
97.5	5	5
100.0	7	6
102.5	7	7
105.0	8	7
107.5	8	7
110.0	8	8
112.5	9	8
115.0	9	9
117.5	10	9
120.0	10	10
122.5	12	10
125.0	12	12
127.5	12	12
130.0	12	12
132.5	10	12
135.0	8	8
137.5	3	3
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.)**

<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

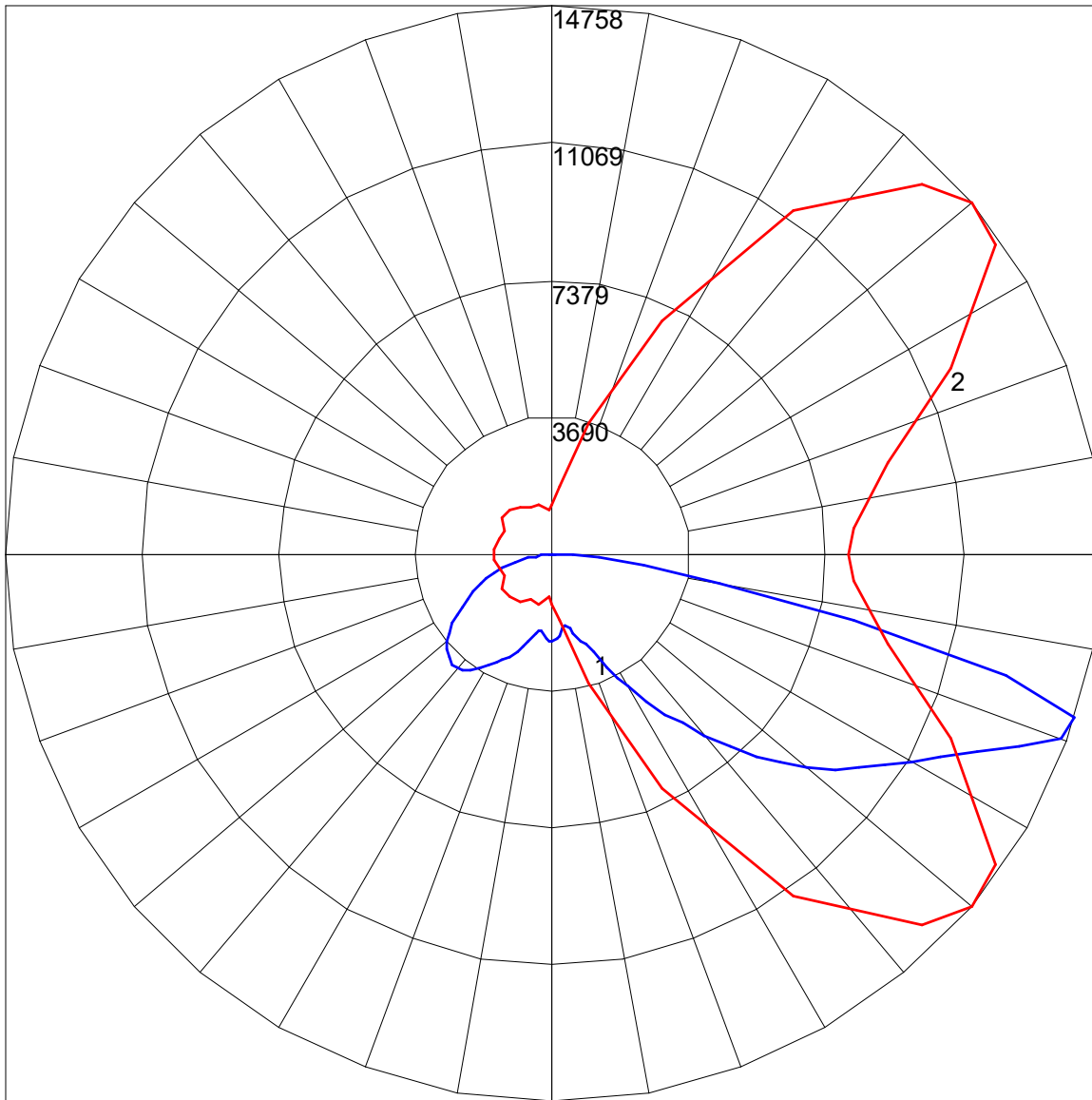


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	18881.4	71.3
Downward House Side	7518.9	28.4
Downward Total	26400.3	99.8
Upward Street Side	27.9	0.1
Upward House Side	36.9	0.1
Upward Total	64.8	0.2
Total Flux	26465.1	100.0

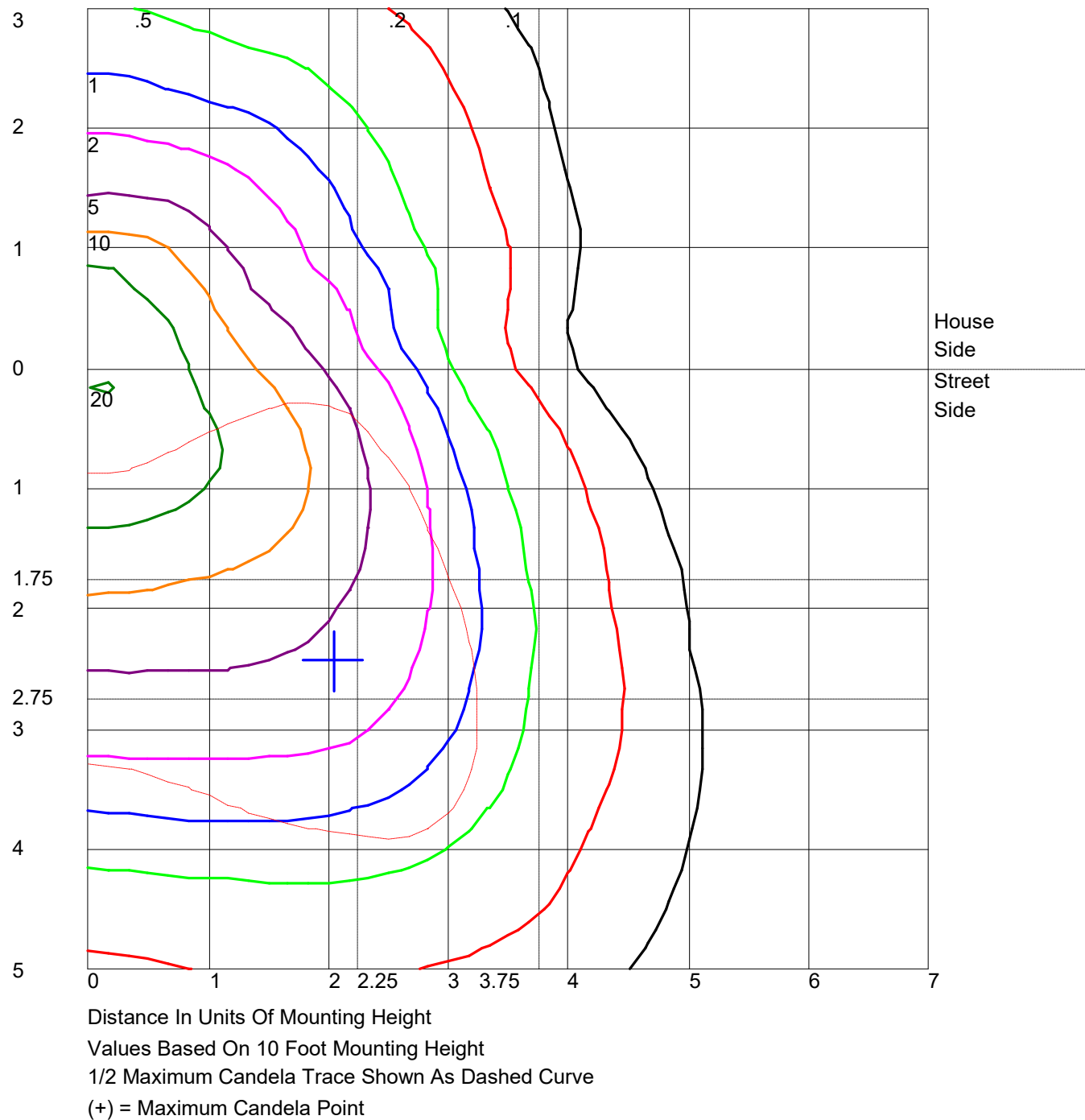


POLAR GRAPH

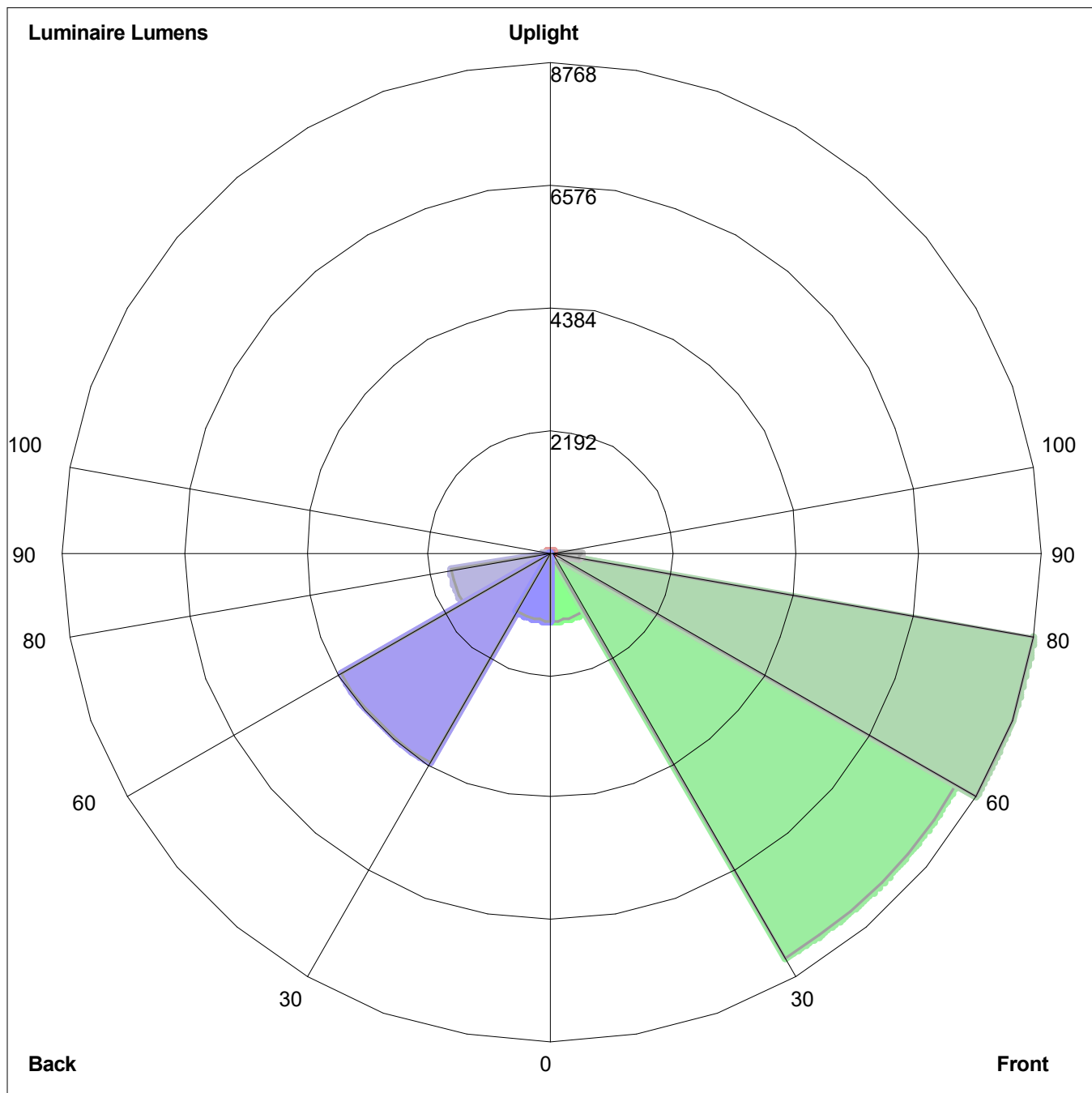


Maximum Candela = 14758 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1218.1, Medium=8371.5, High=8767.9, Very High=524.0  
Back: Low=1216.3, Medium= 4330.0, High=1813.9, Very High=158.6  
Uplight: Low=19.3, High=45.5

BUG Rating : B3-U2-G4