



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11746

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-25L-50-IL

[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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19800
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20246
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	20246
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	22 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	800 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1528.5	N.A.	7.7
FM - Front-Medium (30-60)	11154.7	N.A.	56.3
FH - Front-High (60-80)	3662.7	N.A.	18.5
FVH - Front-Very High (80-90)	77.6	N.A.	0.4
BL - Back-Low (0-30)	828.9	N.A.	4.2
BM - Back-Medium (30-60)	2077.9	N.A.	10.5
BH - Back-High (60-80)	430.6	N.A.	2.2
BVH - Back-Very High (80-90)	14.1	N.A.	0.1
UL - Uplight-Low (90-100)	5.9	N.A.	0.0
UH - Uplight-High (100-180)	19.4	N.A.	0.1
Total	19800.3	N.A.	100.0
BUG Rating	B2-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>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>80</b>
<b>0.0</b>	2035	2035	2035	2035	2035	2035	2035	2035	2035	2035
<b>2.5</b>	2072	2081	2076	2096	2094	2094	2103	2086	2056	2022
<b>5.0</b>	2073	2102	2149	2128	2192	2043	2053	1991	1940	1926
<b>7.5</b>	2114	2175	2206	2092	2141	2053	2082	2154	2103	2044
<b>10.0</b>	2247	2237	2330	2158	2218	2255	2278	2247	2187	2121
<b>12.5</b>	2431	2544	2456	2391	2448	2411	2442	2406	2391	2395
<b>15.0</b>	2619	2728	2682	2748	2809	2676	2712	2669	2710	2615
<b>17.5</b>	2799	2879	2852	2914	2991	3112	2975	3041	3094	2947
<b>20.0</b>	3178	3241	3225	3193	3286	3343	3428	3402	3465	3440
<b>22.5</b>	3426	3451	3529	3619	3665	3686	3975	3957	4081	4064
<b>25.0</b>	3914	3804	3912	4004	4111	4099	4495	4756	4784	4802
<b>27.5</b>	4471	4591	4638	4513	4552	4689	5075	5735	5971	5850
<b>30.0</b>	5210	5086	5054	5083	5150	5403	5831	6884	7135	7064
<b>32.5</b>	6153	6233	5842	5625	5839	6064	6824	8357	8746	8669
<b>35.0</b>	7126	7038	6715	6555	6485	7010	7832	9582	10412	10242
<b>37.5</b>	8143	8131	7677	7358	7522	7729	8792	10511	11175	11367
<b>40.0</b>	8600	8620	8477	8332	8373	8645	9553	10885	11719	11753
<b>42.5</b>	8783	8748	8694	8745	9148	9426	10453	11146	11902	12130
<b>45.0</b>	8574	8585	8587	8860	9500	10291	11440	11881	12512	12908
<b>47.5</b>	7939	7920	8082	8521	9358	10637	12438	13112	13443	14029
<b>50.0</b>	7023	6984	7189	7669	8724	10459	13457	14491	14538	15217
<b>52.5</b>	5843	5843	6068	6563	7707	9730	14036	16015	15919	17145
<b>55.0</b>	4543	4527	4760	5360	6446	8557	14095	17284	17584	18918
<b>57.5</b>	3250	3184	3453	4005	5011	7069	13356	17642	18902	20246
<b>60.0</b>	2216	2198	2413	2808	3592	5327	11738	17041	19321	20222
<b>62.5</b>	1558	1569	1693	1952	2429	3614	9608	14943	18295	18782
<b>65.0</b>	1087	1085	1189	1435	1748	2304	7272	12573	15810	15617
<b>67.5</b>	707	740	806	1015	1310	1558	4937	9418	12531	11979
<b>70.0</b>	447	461	484	673	951	1123	3000	6432	8778	7728
<b>72.5</b>	331	343	343	425	660	808	1554	4020	5091	3871
<b>75.0</b>	229	238	236	276	444	585	866	2442	2493	1545
<b>77.5</b>	151	152	158	170	273	412	522	1391	1303	831
<b>80.0</b>	101	106	110	107	150	268	327	744	800	564
<b>82.5</b>	97	96	91	86	93	134	193	373	505	435
<b>85.0</b>	72	71	68	68	75	96	113	181	260	261
<b>87.5</b>	42	42	41	40	43	56	68	89	98	94
<b>90.0</b>	15	15	12	9	9	10	6	10	14	10
<b>92.5</b>	6	5	5	5	3	0	0	0	1	1
<b>95.0</b>	4	3	4	4	2	0	0	0	0	0
<b>97.5</b>	4	3	4	4	2	0	0	0	0	0
<b>100.0</b>	3	3	4	4	2	0	0	0	0	0
<b>102.5</b>	4	3	4	4	2	0	0	0	0	0
<b>105.0</b>	4	3	4	4	2	0	0	0	0	0
<b>107.5</b>	4	4	4	4	2	0	0	0	0	0
<b>110.0</b>	5	4	5	5	2	0	0	0	0	0
<b>112.5</b>	5	5	5	5	3	1	0	0	0	0
<b>115.0</b>	6	6	6	5	3	1	0	0	1	1
<b>117.5</b>	7	7	6	6	4	1	0	0	1	2
<b>120.0</b>	9	8	7	6	4	2	0	1	2	2
<b>122.5</b>	10	9	8	7	5	3	0	1	3	3
<b>125.0</b>	12	10	9	7	5	3	1	2	4	4
<b>127.5</b>	13	12	10	8	6	4	2	3	4	5
<b>130.0</b>	14	13	12	8	6	4	2	3	5	6

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**CANDELA TABULATION - (Cont.)**

132.5	14	13	12	9	6	4	2	3	5	6
135.0	13	12	9	7	5	4	2	3	4	5
137.5	6	5	5	4	3	1	0	0	1	2
140.0	1	1	2	2	0	0	0	0	0	0
142.5	1	1	2	1	0	0	0	0	0	0
145.0	1	1	2	1	0	0	0	0	0	0
147.5	1	1	1	1	0	0	0	0	0	0
150.0	1	1	1	1	0	0	0	0	0	0
152.5	1	1	1	1	0	0	0	0	0	0
155.0	1	1	1	1	0	0	0	0	0	0
157.5	1	1	1	1	0	0	0	0	0	0
160.0	1	1	1	1	0	0	0	0	0	0
162.5	1	1	1	0	0	0	0	0	0	0
165.0	1	1	1	0	0	0	0	0	0	0
167.5	1	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	2	2	0	0	0	0	0	0
177.5	1	1	2	2	0	0	0	0	0	0
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	2035	2035	2035	2035	2035	2035	2035	2035	2035	2035
2.5	2030	2025	2034	2024	1997	2012	2022	2025	2007	1991
5.0	1949	1932	1896	1877	1891	1887	1853	1870	1839	1784
7.5	2011	2017	1974	1988	1889	1795	1651	1673	1649	1697
10.0	2090	2044	1980	2014	1783	1738	1663	1613	1531	1593
12.5	2268	2235	2187	2077	1862	1740	1645	1689	1694	1783
15.0	2507	2440	2295	2115	1833	1782	1789	1881	1924	1896
17.5	2828	2661	2526	2245	1900	1899	2006	2054	2049	2035
20.0	3212	3078	2854	2373	2013	2092	2108	2139	2007	1827
22.5	3865	3504	3280	2681	2208	2250	2201	1942	1581	1321
25.0	4555	4277	3840	2904	2553	2403	1998	1424	1022	789
27.5	5505	5003	4532	3276	2824	2355	1557	937	631	532
30.0	6682	6026	5284	3668	3047	2094	1106	630	517	470
32.5	7950	7127	6094	4049	3167	1723	748	537	462	435
35.0	9414	8353	7031	4477	3066	1291	627	485	435	410
37.5	10540	9582	7814	4802	2772	877	566	452	397	368
40.0	11047	10125	8193	5070	2337	699	513	419	352	321
42.5	11608	10711	8492	5083	1637	619	466	374	301	261
45.0	12400	11371	8924	4946	1035	552	417	321	247	209
47.5	13544	12270	9340	4515	755	491	355	262	196	163
50.0	14794	13120	9682	3767	647	436	295	205	156	126
52.5	16324	13867	9813	2799	587	377	235	156	121	96
55.0	17940	14045	9610	1887	541	316	184	119	92	67
57.5	18571	13483	8822	1331	500	257	136	86	66	42
60.0	17967	12248	7593	1085	481	209	101	58	39	20
62.5	15866	10345	6111	898	459	164	71	30	21	10
65.0	12869	7936	4440	687	400	128	47	15	15	7
67.5	9187	5531	2709	485	303	94	29	12	13	7
70.0	5281	3306	1493	343	204	63	24	14	12	7
72.5	2380	1630	840	253	129	39	24	17	12	6
75.0	994	847	520	183	73	31	27	19	10	6
77.5	613	580	335	119	47	33	28	21	9	6

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**CANDELA TABULATION - (Cont.)**

80.0	486	408	216	65	36	31	29	22	10	6
82.5	347	249	128	31	29	28	28	22	10	7
85.0	200	127	61	16	21	27	27	20	9	7
87.5	69	33	9	8	16	24	23	18	9	6
90.0	3	3	4	7	15	22	22	15	8	6
92.5	0	2	4	7	14	20	19	13	7	6
95.0	0	2	3	6	10	16	14	9	6	6
97.5	0	2	3	5	8	10	8	7	5	5
100.0	0	2	3	5	7	7	7	6	5	5
102.5	0	2	3	5	6	6	5	5	4	5
105.0	0	2	3	4	5	5	5	5	4	5
107.5	0	2	3	5	5	5	5	5	4	4
110.0	1	2	3	5	5	5	5	5	4	5
112.5	1	2	3	5	5	5	5	5	5	5
115.0	2	3	4	5	6	6	5	5	5	5
117.5	3	3	4	5	6	6	6	6	5	6
120.0	4	4	5	6	6	6	6	6	6	6
122.5	4	5	5	6	7	7	7	7	7	7
125.0	5	6	6	6	7	7	7	7	7	7
127.5	6	6	6	7	7	7	7	8	8	8
130.0	6	6	7	7	7	7	7	8	8	8
132.5	6	6	7	7	7	7	7	8	8	8
135.0	6	6	6	7	7	7	7	8	8	8
137.5	2	3	4	4	5	5	6	7	7	7
140.0	0	0	1	2	3	4	5	6	6	6
142.5	0	0	0	1	3	4	4	5	6	5
145.0	0	0	0	1	3	4	4	5	6	5
147.5	0	0	0	1	3	4	5	6	6	5
150.0	0	0	0	1	3	4	5	6	6	5
152.5	0	0	0	2	3	4	5	6	6	5
155.0	0	0	0	2	3	4	5	6	6	5
157.5	0	0	0	2	3	4	5	6	6	5
160.0	0	0	0	1	2	3	4	5	5	4
162.5	0	0	0	1	2	3	4	5	5	4
165.0	0	0	0	0	1	2	3	4	4	4
167.5	0	0	0	0	1	2	3	4	4	3
170.0	0	0	0	0	1	2	2	4	4	3
172.5	0	0	0	0	0	1	2	3	3	3
175.0	0	0	0	0	0	1	2	3	3	3
177.5	0	0	0	0	0	1	2	2	3	3
180.0	1	1	1	1	1	1	1	1	1	1

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

	<b>175</b>	<b>180</b>
0.0	2035	2035
2.5	1968	1933
5.0	1773	1751
7.5	1675	1636
10.0	1637	1589
12.5	1827	1771
15.0	2034	1995
17.5	2128	2061
20.0	1806	1715
22.5	1205	1186
25.0	694	676

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**CANDELA TABULATION - (Cont.)**

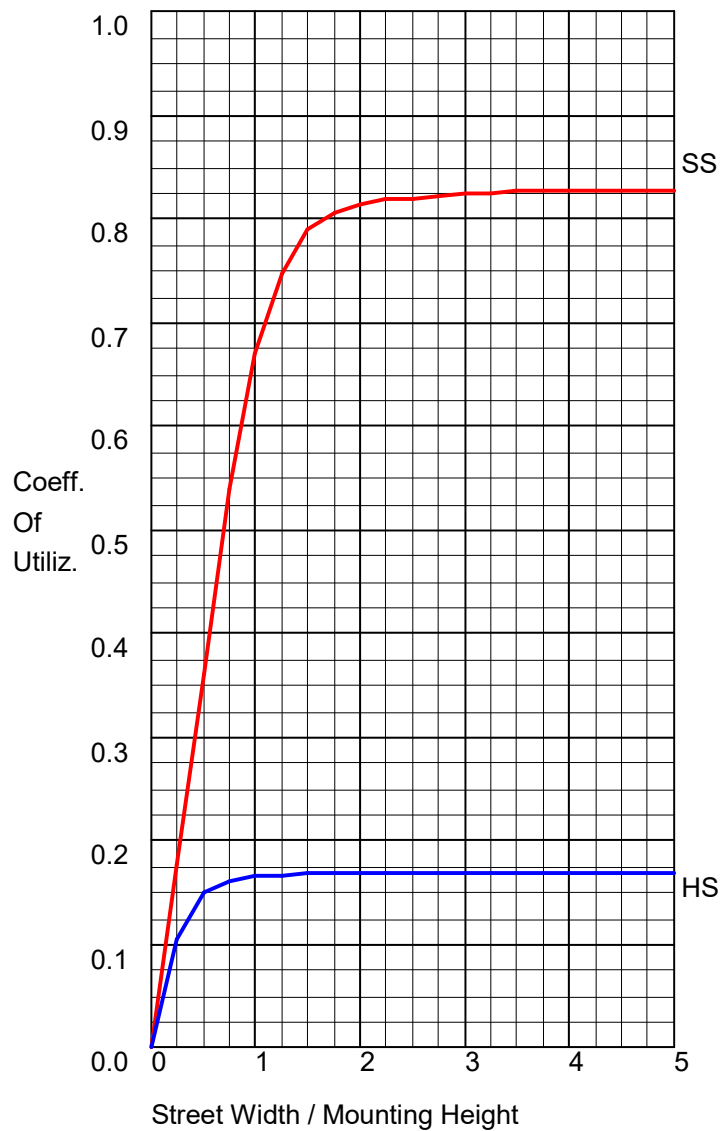
27.5	517	513
30.0	463	462
32.5	439	439
35.0	405	406
37.5	364	367
40.0	308	308
42.5	249	245
45.0	196	193
47.5	152	150
50.0	115	114
52.5	84	83
55.0	57	57
57.5	30	29
60.0	13	13
62.5	6	6
65.0	3	3
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	3
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	2	2
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	3	2
112.5	3	3
115.0	3	3
117.5	4	4
120.0	5	5
122.5	5	6
125.0	7	7
127.5	8	8
130.0	8	9
132.5	8	9
135.0	8	8
137.5	6	6
140.0	4	4
142.5	4	4
145.0	3	4
147.5	3	4
150.0	3	4
152.5	4	4
155.0	3	4
157.5	3	3
160.0	2	2
162.5	2	1
165.0	1	0

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

<b>167.5</b>	<b>1</b>	<b>0</b>
<b>170.0</b>	<b>1</b>	<b>0</b>
<b>172.5</b>	<b>1</b>	<b>0</b>
<b>175.0</b>	<b>1</b>	<b>0</b>
<b>177.5</b>	<b>1</b>	<b>0</b>
<b>180.0</b>	<b>1</b>	<b>1</b>

### COEFFICIENTS OF UTILIZATION

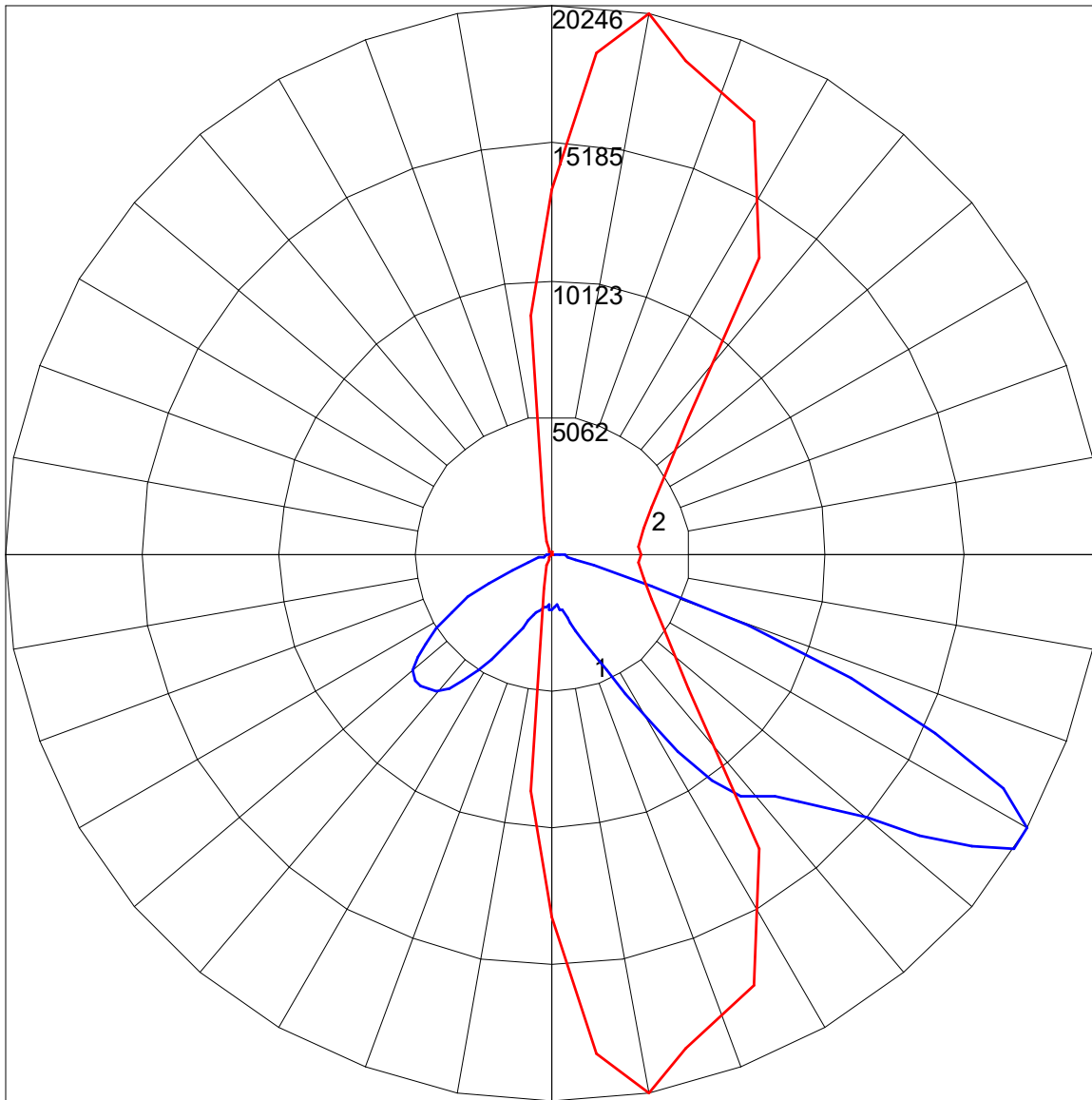


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16423.5	82.9
Downward House Side	3351.5	16.9
Downward Total	19775.0	99.9
Upward Street Side	8.1	0.0
Upward House Side	17.2	0.1
Upward Total	25.3	0.1
Total Flux	19800.3	100.0

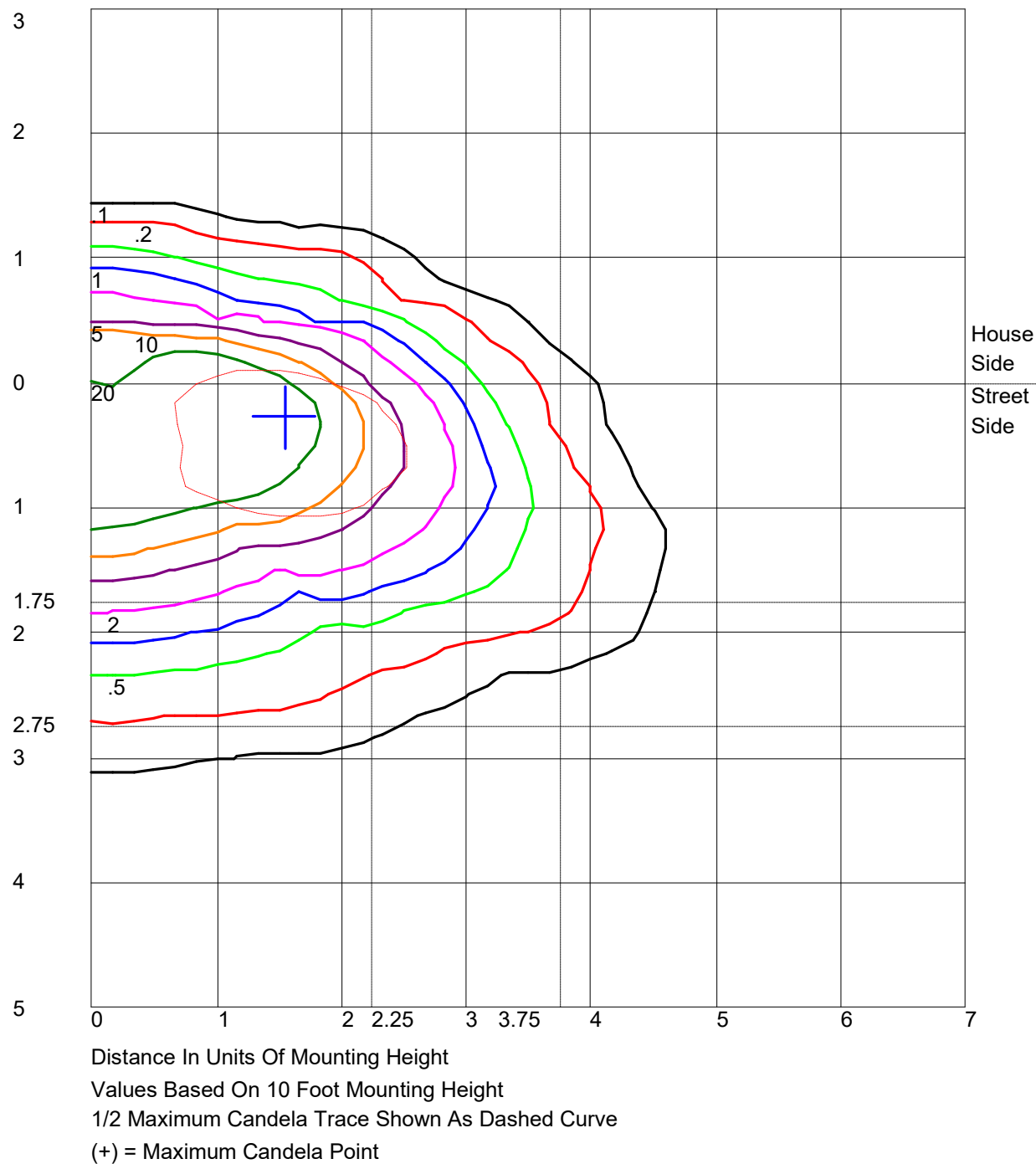


POLAR GRAPH

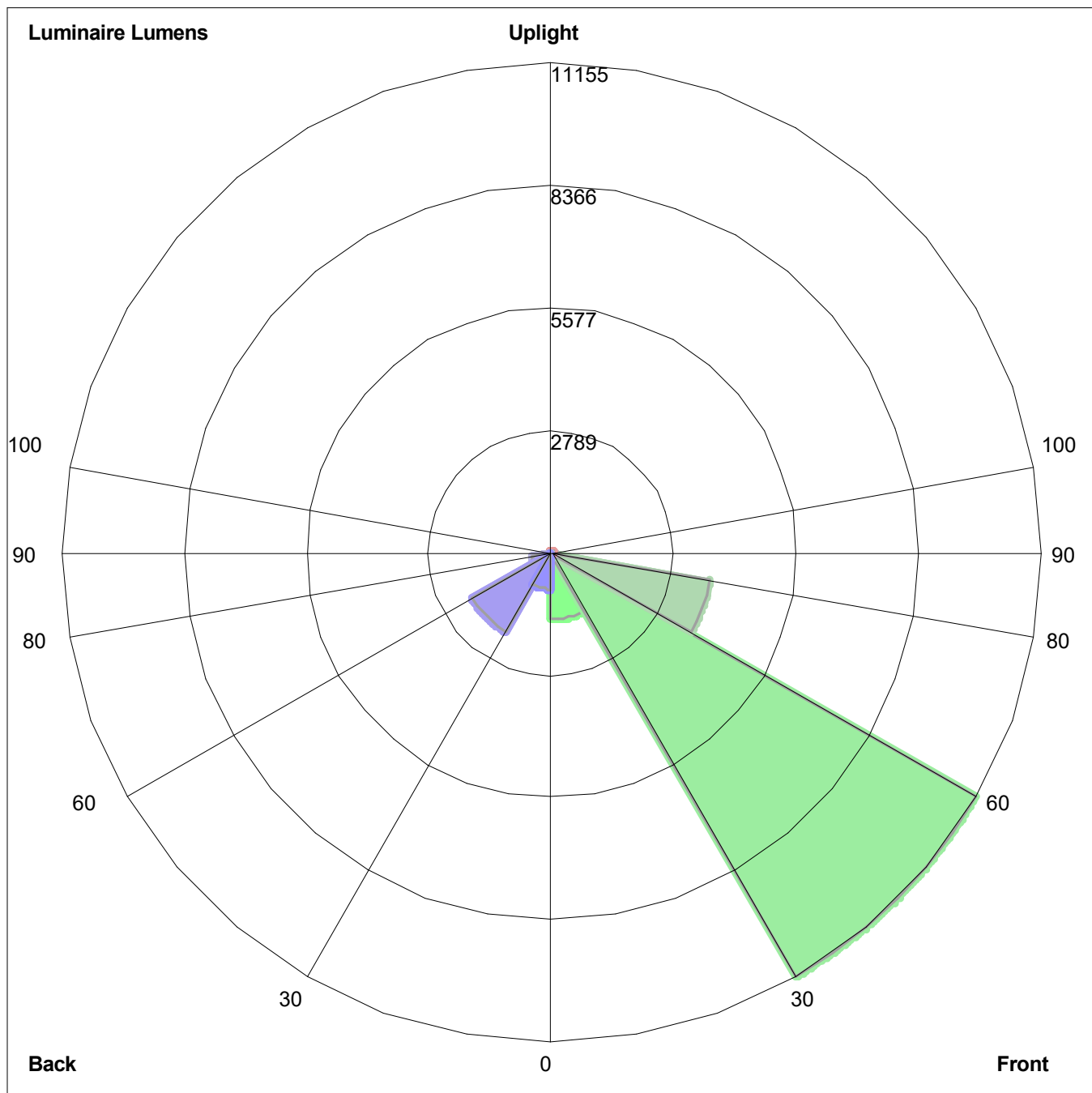


Maximum Candela = 20246 Located At Horizontal Angle = 80, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1528.5, Medium=11154.7, High=3662.7, Very High=77.6  
Back: Low=828.9, Medium=2077.9, High=430.6, Very High=14.1  
Uplight: Low=5.9, High=19.4

BUG Rating : B2-U2-G2