



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-30.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  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] LXM4-PT-FT-LED-25L-30  
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22903
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12772
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	12772
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	187 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3975 (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)	1054.1	N.A.	4.6
FM - Front-Medium (30-60)	7244.4	N.A.	31.6
FH - Front-High (60-80)	7587.5	N.A.	33.1
FVH - Front-Very High (80-90)	453.4	N.A.	2.0
BL - Back-Low (0-30)	1052.6	N.A.	4.6
BM - Back-Medium (30-60)	3747.1	N.A.	16.4
BH - Back-High (60-80)	1569.8	N.A.	6.9
BVH - Back-Very High (80-90)	137.3	N.A.	0.6
UL - Uplight-Low (90-100)	16.8	N.A.	0.1
UH - Uplight-High (100-180)	40.0	N.A.	0.2
Total	22903.0	N.A.	100.0
BUG Rating	B3-U2-G4		

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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>
<b>0.0</b>	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038
<b>2.5</b>	2053	2045	2016	2023	2004	2002	2007	2004	2007	2016
<b>5.0</b>	1903	1868	1876	1931	1917	1906	1916	1854	1864	1869
<b>7.5</b>	1818	1784	1824	1761	1726	1728	1719	1768	1870	1891
<b>10.0</b>	1804	1751	1786	1677	1708	1728	1756	1814	1828	1907
<b>12.5</b>	1913	1897	1817	1746	1822	1780	1800	1877	1874	1973
<b>15.0</b>	1968	1989	1936	1963	2020	1909	1907	1966	1972	2096
<b>17.5</b>	2076	2097	2021	2098	2122	2134	2131	2064	2095	2234
<b>20.0</b>	2316	2314	2312	2293	2303	2271	2281	2292	2257	2394
<b>22.5</b>	2524	2473	2550	2596	2623	2504	2513	2566	2465	2569
<b>25.0</b>	2884	2784	2899	2864	2874	2949	2874	2798	2766	2770
<b>27.5</b>	3303	3441	3428	3255	3213	3274	3239	3105	3022	3008
<b>30.0</b>	3852	3775	3670	3697	3659	3565	3628	3521	3324	3252
<b>32.5</b>	4544	4598	4259	4048	4108	4125	3967	3945	3695	3492
<b>35.0</b>	5175	5066	4916	4658	4531	4560	4509	4387	3996	3856
<b>37.5</b>	5840	5812	5435	5146	5102	4972	4994	4810	4404	4017
<b>40.0</b>	6220	6225	6067	5858	5674	5526	5469	5289	4835	4304
<b>42.5</b>	6607	6610	6493	6427	6219	6096	5981	5734	5155	4470
<b>45.0</b>	6987	7000	6937	6902	6782	6731	6566	6237	5494	4691
<b>47.5</b>	7355	7386	7376	7320	7320	7239	7131	6763	5920	4971
<b>50.0</b>	7660	7706	7736	7792	7854	7758	7674	7332	6454	5299
<b>52.5</b>	7908	7919	8024	8160	8320	8294	8246	7998	7041	5731
<b>55.0</b>	8054	8062	8256	8444	8784	8740	8790	8694	7768	6262
<b>57.5</b>	8145	8162	8396	8655	9118	9209	9333	9482	8513	6842
<b>60.0</b>	8181	8205	8478	8811	9495	9689	9950	10277	9289	7394
<b>62.5</b>	8282	8318	8618	8957	9908	10236	10611	11057	10005	7816
<b>65.0</b>	8526	8571	8948	9326	10446	10957	11356	11719	10445	7852
<b>67.5</b>	8771	8851	9404	10091	11314	11815	12031	12071	10148	6979
<b>70.0</b>	8295	8386	9255	10983	12373	12613	12436	11622	8583	5177
<b>72.5</b>	6881	7050	8108	10237	12594	12772	12225	9754	6011	3125
<b>75.0</b>	4601	4850	6126	8205	10833	10938	10013	6866	3600	2016
<b>77.5</b>	2484	2655	3581	5375	7225	7221	6571	4127	2293	1351
<b>80.0</b>	1257	1399	2218	3109	3892	3975	3543	2546	1451	830
<b>82.5</b>	761	811	1431	1828	1819	2115	2010	1347	863	462
<b>85.0</b>	565	604	939	1115	1212	1080	918	592	413	253
<b>87.5</b>	370	398	619	563	654	454	209	207	138	101
<b>90.0</b>	100	141	187	65	58	37	25	13	8	9
<b>92.5</b>	15	17	14	11	9	10	9	8	7	8
<b>95.0</b>	9	8	9	10	9	10	9	7	6	7
<b>97.5</b>	7	7	8	9	8	9	8	7	6	7
<b>100.0</b>	7	6	7	7	7	8	8	7	6	7
<b>102.5</b>	6	5	6	6	6	7	7	6	6	7
<b>105.0</b>	5	5	6	6	6	6	7	6	6	7
<b>107.5</b>	6	5	6	6	6	6	6	6	6	7
<b>110.0</b>	6	6	6	6	6	6	6	6	6	7
<b>112.5</b>	7	6	6	6	6	6	7	6	6	7
<b>115.0</b>	8	7	7	7	7	7	7	6	7	8
<b>117.5</b>	8	8	8	7	7	7	7	6	7	8
<b>120.0</b>	9	9	8	8	8	7	8	7	7	8
<b>122.5</b>	10	9	9	9	8	8	8	7	7	9
<b>125.0</b>	10	10	10	10	9	8	8	7	8	9
<b>127.5</b>	10	10	10	10	10	9	9	8	8	10
<b>130.0</b>	11	11	11	10	10	10	9	8	8	11

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**CANDELA TABULATION - (Cont.)**

132.5	12	11	11	11	10	10	10	8	8	11
135.0	10	10	10	10	9	9	8	7	8	10
137.5	5	5	5	5	5	6	6	5	5	7
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	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038
2.5	2026	2030	2022	2014	2030	2035	2037	2046	2033	2047
5.0	1897	1900	1893	1902	1914	1981	2001	1963	1972	1918
7.5	1880	1885	1899	1988	1996	1887	1852	1819	1860	1875
10.0	1887	1887	1935	2078	1913	1884	1848	1771	1818	1873
12.5	1981	2003	2050	2086	1959	1901	1872	1938	2042	2057
15.0	2078	2127	2137	2129	1999	1956	2075	2158	2230	2281
17.5	2261	2253	2265	2196	2043	2139	2285	2321	2347	2379
20.0	2491	2513	2463	2323	2144	2382	2452	2476	2547	2576
22.5	2768	2748	2695	2531	2427	2588	2570	2650	2672	2662
25.0	2940	2962	2982	2700	2749	2758	2756	2749	2773	2832
27.5	3177	3131	3177	2855	3044	2949	2883	2838	2962	2990
30.0	3332	3350	3326	3031	3216	3165	3031	3025	3110	3170
32.5	3466	3523	3470	3252	3357	3303	3184	3122	3171	3384
35.0	3727	3649	3626	3393	3470	3425	3340	3273	3405	3618
37.5	3854	3831	3722	3599	3537	3506	3413	3421	3537	3850
40.0	3957	3869	3752	3649	3541	3531	3488	3521	3712	4049
42.5	3995	3880	3713	3585	3476	3496	3435	3597	3841	3904
45.0	4074	3917	3702	3506	3339	3408	3371	3532	3873	3587
47.5	4191	3981	3727	3434	3187	3273	3227	3418	3682	3268
50.0	4398	4104	3786	3374	3029	3111	3076	3306	3402	3003
52.5	4663	4264	3866	3314	2854	2947	2911	3158	3132	2740
55.0	4981	4452	3966	3271	2683	2773	2743	2965	2868	2515
57.5	5316	4660	4094	3214	2504	2605	2579	2744	2594	2252
60.0	5583	4785	4094	3095	2315	2422	2416	2509	2281	2041
62.5	5640	4673	3714	2896	2118	2241	2233	2252	2029	1855
65.0	5324	4130	2957	2580	1917	2052	2033	2042	1781	1699
67.5	4297	3124	2068	2115	1699	1838	1848	1839	1585	1557
70.0	2753	2009	1453	1616	1451	1596	1657	1653	1406	1425
72.5	1555	1160	1001	1215	1180	1337	1446	1451	1242	1266
75.0	1087	763	682	892	916	1083	1212	1218	995	896
77.5	716	498	481	643	714	866	971	804	605	621

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**CANDELA TABULATION - (Cont.)**

80.0	407	301	349	481	560	668	581	540	463	483
82.5	255	201	247	362	440	386	400	412	312	360
85.0	150	104	150	243	232	246	266	243	162	238
87.5	56	34	64	103	113	120	106	105	76	111
90.0	10	8	19	25	30	29	23	16	8	8
92.5	8	8	19	26	31	29	23	15	6	5
95.0	7	8	17	25	29	27	22	15	7	6
97.5	7	8	15	21	25	24	19	15	7	7
100.0	7	8	12	17	21	20	17	14	9	8
102.5	7	8	10	14	16	17	15	13	9	8
105.0	7	8	9	12	15	15	14	13	9	8
107.5	7	8	9	11	13	13	13	12	9	8
110.0	7	9	9	10	12	13	12	12	9	9
112.5	8	9	10	11	12	13	13	12	10	9
115.0	8	9	10	11	13	13	14	13	11	10
117.5	9	10	10	12	13	14	14	14	12	11
120.0	9	10	11	12	14	15	15	15	13	12
122.5	10	11	11	13	14	15	15	15	14	12
125.0	11	12	12	13	14	15	15	15	14	13
127.5	12	13	13	13	14	15	15	15	15	13
130.0	12	12	13	14	14	14	15	14	14	13
132.5	12	13	13	14	14	14	14	14	13	12
135.0	11	12	12	12	12	12	11	11	11	10
137.5	7	7	8	8	7	6	6	5	5	5
140.0	5	5	6	6	5	5	4	3	2	1
142.5	5	5	5	5	5	4	3	2	1	0
145.0	5	5	5	5	5	4	3	2	1	0
147.5	5	5	5	5	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	2038	2038
2.5	2061	2055
5.0	1916	1912
7.5	1860	1857
10.0	1882	1908
12.5	2142	2136
15.0	2359	2317
17.5	2483	2464
20.0	2653	2665
22.5	2756	2725
25.0	2915	2901

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**CANDELA TABULATION - (Cont.)**

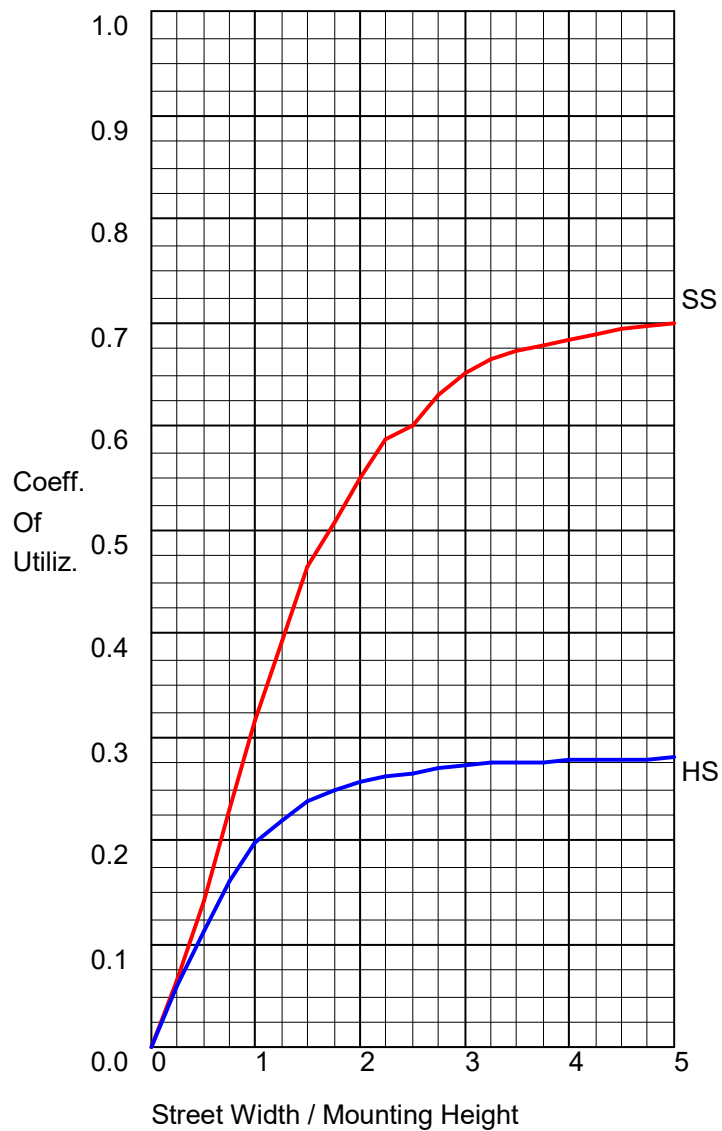
<b>27.5</b>	<b>3073</b>	<b>3115</b>
<b>30.0</b>	<b>3278</b>	<b>3245</b>
<b>32.5</b>	<b>3566</b>	<b>3598</b>
<b>35.0</b>	<b>3769</b>	<b>3755</b>
<b>37.5</b>	<b>4044</b>	<b>4040</b>
<b>40.0</b>	<b>4003</b>	<b>3946</b>
<b>42.5</b>	<b>3630</b>	<b>3555</b>
<b>45.0</b>	<b>3289</b>	<b>3247</b>
<b>47.5</b>	<b>3048</b>	<b>2996</b>
<b>50.0</b>	<b>2838</b>	<b>2785</b>
<b>52.5</b>	<b>2627</b>	<b>2590</b>
<b>55.0</b>	<b>2429</b>	<b>2373</b>
<b>57.5</b>	<b>2174</b>	<b>2141</b>
<b>60.0</b>	<b>2000</b>	<b>1973</b>
<b>62.5</b>	<b>1850</b>	<b>1821</b>
<b>65.0</b>	<b>1722</b>	<b>1698</b>
<b>67.5</b>	<b>1615</b>	<b>1602</b>
<b>70.0</b>	<b>1522</b>	<b>1512</b>
<b>72.5</b>	<b>1378</b>	<b>1380</b>
<b>75.0</b>	<b>992</b>	<b>1005</b>
<b>77.5</b>	<b>797</b>	<b>811</b>
<b>80.0</b>	<b>665</b>	<b>701</b>
<b>82.5</b>	<b>525</b>	<b>557</b>
<b>85.0</b>	<b>368</b>	<b>401</b>
<b>87.5</b>	<b>216</b>	<b>250</b>
<b>90.0</b>	<b>21</b>	<b>21</b>
<b>92.5</b>	<b>3</b>	<b>2</b>
<b>95.0</b>	<b>4</b>	<b>4</b>
<b>97.5</b>	<b>5</b>	<b>5</b>
<b>100.0</b>	<b>6</b>	<b>5</b>
<b>102.5</b>	<b>6</b>	<b>6</b>
<b>105.0</b>	<b>7</b>	<b>6</b>
<b>107.5</b>	<b>7</b>	<b>6</b>
<b>110.0</b>	<b>7</b>	<b>7</b>
<b>112.5</b>	<b>8</b>	<b>7</b>
<b>115.0</b>	<b>8</b>	<b>8</b>
<b>117.5</b>	<b>9</b>	<b>8</b>
<b>120.0</b>	<b>9</b>	<b>9</b>
<b>122.5</b>	<b>10</b>	<b>9</b>
<b>125.0</b>	<b>10</b>	<b>10</b>
<b>127.5</b>	<b>10</b>	<b>10</b>
<b>130.0</b>	<b>10</b>	<b>10</b>
<b>132.5</b>	<b>9</b>	<b>10</b>
<b>135.0</b>	<b>7</b>	<b>7</b>
<b>137.5</b>	<b>3</b>	<b>3</b>
<b>140.0</b>	<b>0</b>	<b>0</b>
<b>142.5</b>	<b>0</b>	<b>0</b>
<b>145.0</b>	<b>0</b>	<b>0</b>
<b>147.5</b>	<b>0</b>	<b>0</b>
<b>150.0</b>	<b>0</b>	<b>0</b>
<b>152.5</b>	<b>0</b>	<b>0</b>
<b>155.0</b>	<b>0</b>	<b>0</b>
<b>157.5</b>	<b>0</b>	<b>0</b>
<b>160.0</b>	<b>0</b>	<b>0</b>
<b>162.5</b>	<b>0</b>	<b>0</b>
<b>165.0</b>	<b>0</b>	<b>0</b>

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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

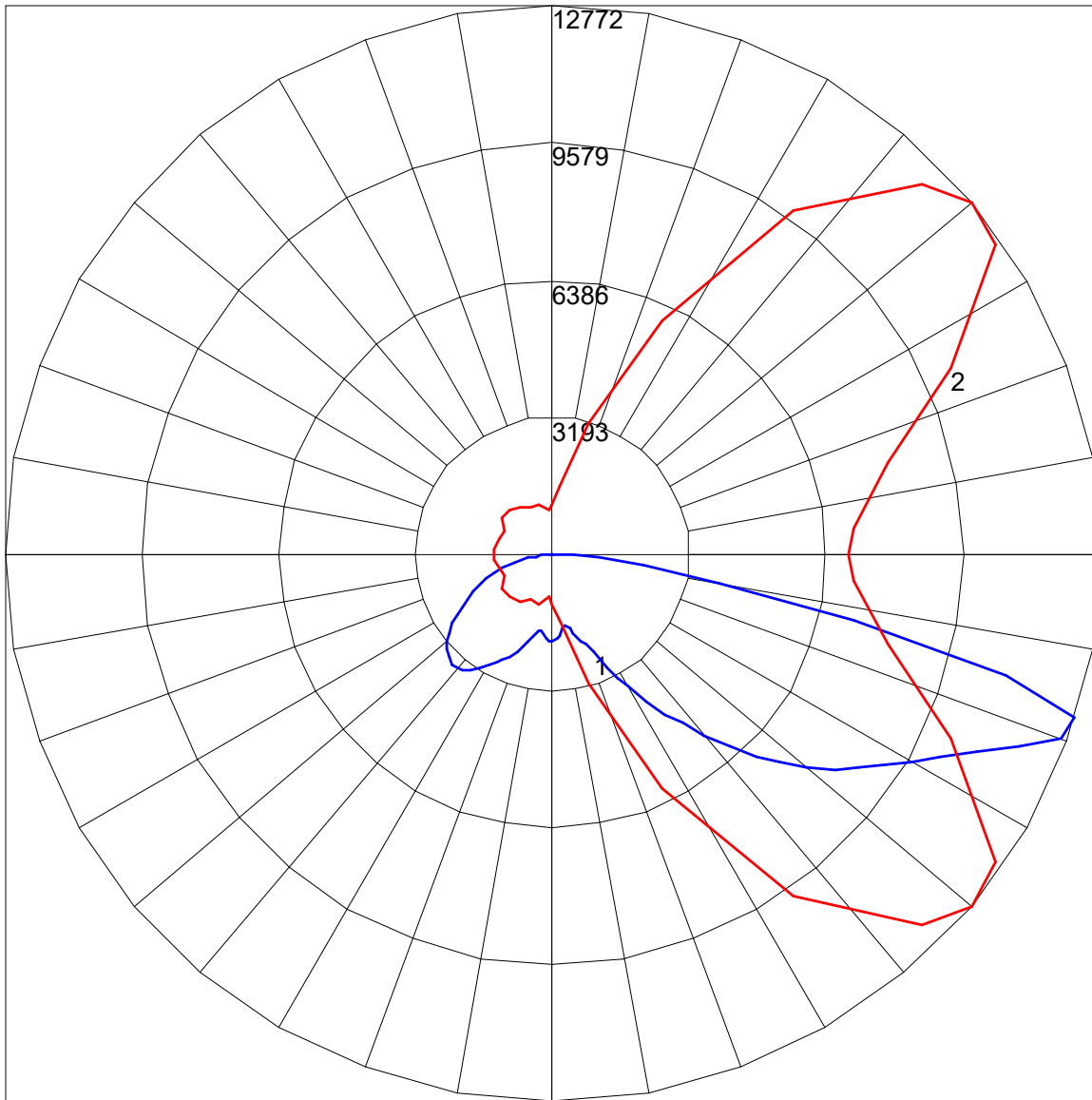


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16339.5	71.3
Downward House Side	6506.8	28.4
Downward Total	22846.3	99.8
Upward Street Side	24.5	0.1
Upward House Side	32.2	0.1
Upward Total	56.7	0.2
Total Flux	22903.0	100.0

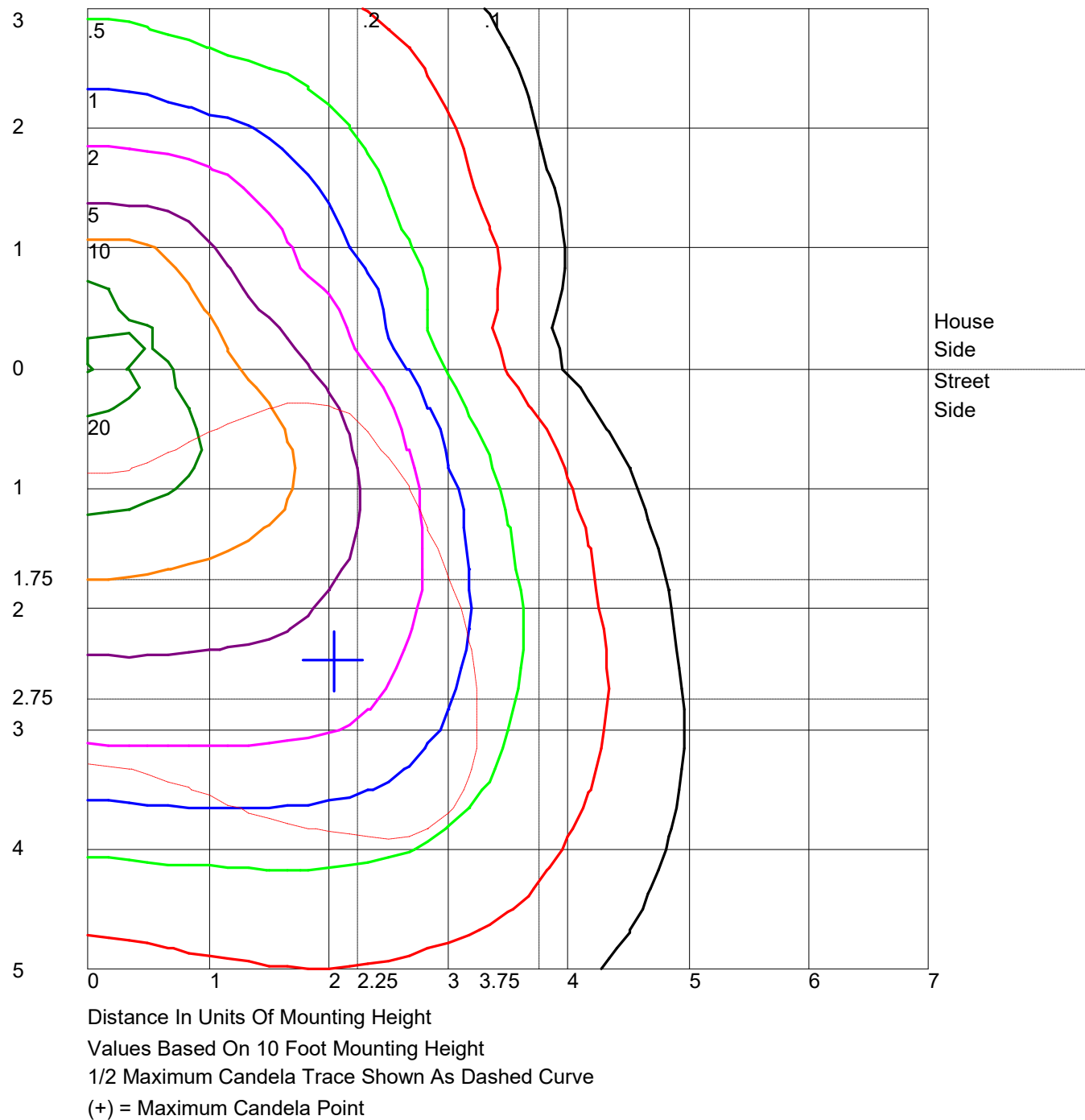


POLAR GRAPH

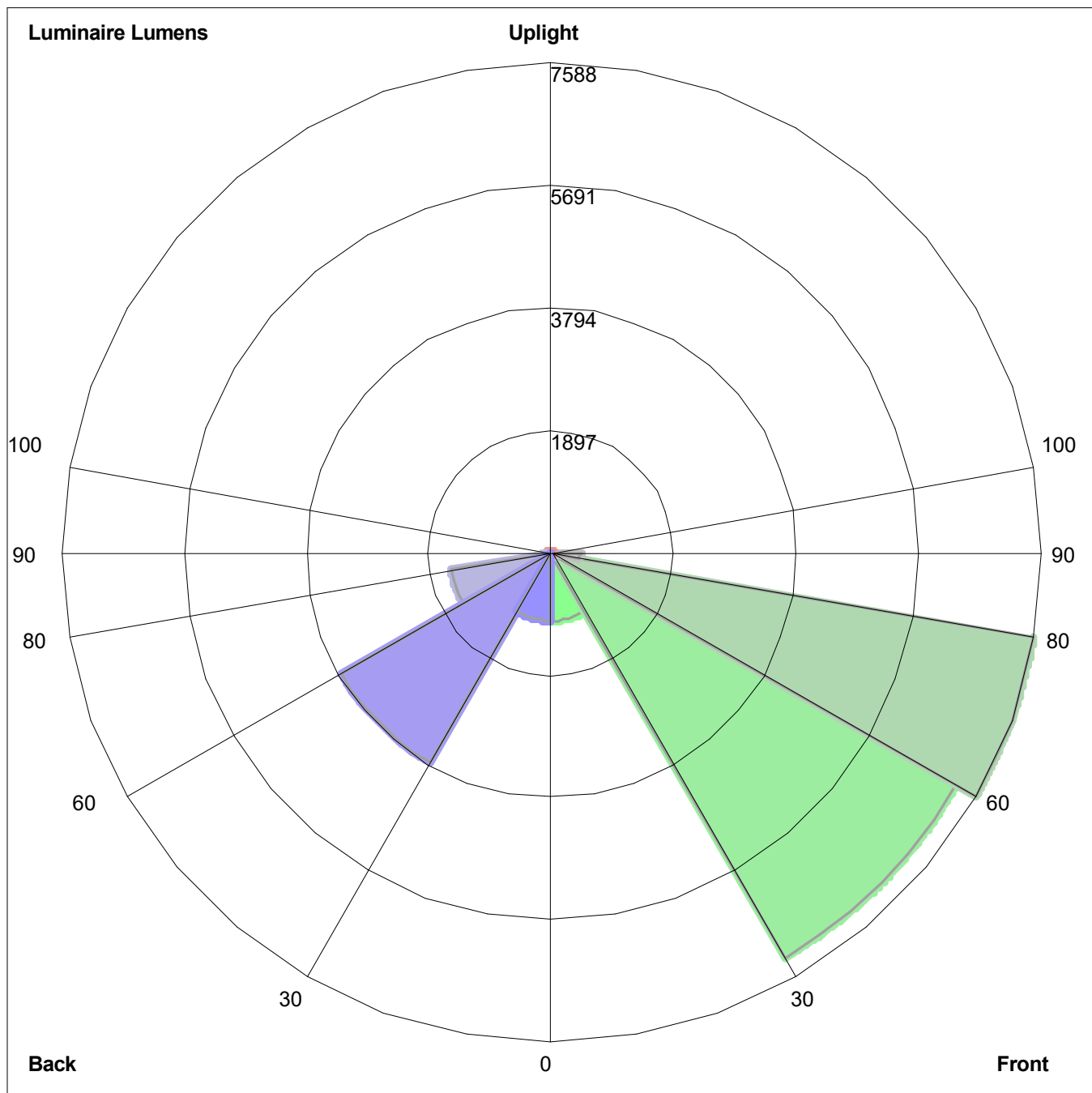


Maximum Candela = 12772 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1054.1, Medium=7244.4, High=7587.5, Very High=453.4  
Back: Low=1052.6, Medium=3747.1, High=1569.8, Very High=137.3  
Uplight: Low=16.8, High=40.0

BUG Rating : B3-U2-G4