



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11673  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 06/10/20  
[TESTDATE] 04/02/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-2-LED-18L-30  
[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	16650
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13381
Maximum Candela Angle	82.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	13381
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 62.5V
Maximum Candela At 90 Degrees Vertical	19 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	743 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	955.2	N.A.	5.7
FM - Front-Medium (30-60)	6541.4	N.A.	39.3
FH - Front-High (60-80)	2888.1	N.A.	17.3
FVH - Front-Very High (80-90)	75.4	N.A.	0.5
BL - Back-Low (0-30)	729.8	N.A.	4.4
BM - Back-Medium (30-60)	3919.7	N.A.	23.5
BH - Back-High (60-80)	1421.5	N.A.	8.5
BVH - Back-Very High (80-90)	95.7	N.A.	0.6
UL - Uplight-Low (90-100)	5.9	N.A.	0.0
UH - Uplight-High (100-180)	17.6	N.A.	0.1
Total	16650.3	N.A.	100.0
BUG Rating	B3-U2-G3		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	1453	1453	1453	1453	1453	1453	1453	1453	1453	1453
2.5	1482	1480	1458	1451	1459	1470	1462	1448	1418	1417
5.0	1422	1437	1431	1450	1421	1420	1410	1372	1378	1366
7.5	1441	1461	1434	1456	1396	1445	1413	1414	1453	1406
10.0	1490	1482	1485	1465	1466	1504	1525	1495	1503	1480
12.5	1649	1619	1609	1586	1567	1618	1644	1662	1621	1626
15.0	1752	1689	1735	1756	1760	1791	1795	1841	1820	1723
17.5	1827	1791	1841	1831	1937	1979	1978	2023	2029	1956
20.0	2051	2013	2046	2014	2009	2132	2213	2217	2281	2248
22.5	2120	2203	2223	2277	2277	2305	2463	2473	2585	2565
25.0	2420	2457	2439	2471	2573	2562	2690	2759	2827	2911
27.5	2917	2863	2891	2836	2836	2907	2975	3107	3177	3292
30.0	3303	3368	3359	3288	3242	3220	3326	3434	3635	3692
32.5	4220	4075	3930	3734	3725	3680	3715	3805	4077	4107
35.0	4731	4772	4501	4462	4212	4199	4188	4324	4452	4666
37.5	5539	5527	5170	4942	4797	4809	4774	4732	4981	5203
40.0	5785	5781	5715	5514	5411	5448	5308	5314	5341	5695
42.5	5855	5845	5785	5758	5919	5895	5946	5913	5600	5989
45.0	5645	5694	5658	5753	6063	6320	6479	6548	5949	6350
47.5	5224	5270	5284	5498	5946	6482	7109	7392	6481	6938
50.0	4535	4558	4686	4930	5567	6426	7697	8314	7219	7682
52.5	3714	3730	3900	4180	4943	6062	8083	9361	8206	8727
55.0	2895	2916	3054	3377	4095	5394	8162	10349	9255	9989
57.5	2179	2192	2295	2568	3149	4466	7780	11091	10285	11359
60.0	1591	1600	1668	1817	2238	3385	6888	11385	11199	12627
62.5	1197	1203	1212	1294	1569	2304	5697	10997	11808	13381
65.0	939	936	951	1001	1154	1526	4315	9744	11723	13230
67.5	732	749	759	807	919	1088	2986	7568	10581	11346
70.0	577	588	598	653	751	851	1849	5049	8159	7582
72.5	418	436	440	508	597	678	1139	3066	4760	3443
75.0	256	281	258	341	442	535	737	1884	2298	1302
77.5	220	244	188	188	244	381	517	1187	1186	659
80.0	231	241	176	143	148	224	336	743	669	416
82.5	232	232	150	107	104	145	176	434	400	258
85.0	203	196	119	74	69	91	98	143	192	132
87.5	82	90	63	35	30	35	30	32	41	42
90.0	14	14	11	7	3	2	0	1	4	4
92.5	6	6	6	4	1	0	0	0	1	2
95.0	6	6	5	4	1	0	0	0	0	1
97.5	6	6	5	3	1	0	0	0	0	0
100.0	5	5	4	3	1	0	0	0	0	0
102.5	5	5	4	3	1	0	0	0	0	0
105.0	5	5	4	3	2	1	0	0	0	1
107.5	5	5	4	3	2	1	0	0	0	1
110.0	5	6	5	4	2	1	0	0	0	1
112.5	6	6	6	5	3	1	0	0	0	1
115.0	6	6	6	5	3	2	0	0	1	1
117.5	7	7	6	6	4	2	0	0	1	1
120.0	8	8	7	6	5	3	1	1	2	2
122.5	9	8	8	7	5	3	1	1	2	3
125.0	9	9	8	7	6	4	1	1	3	3
127.5	10	9	9	8	6	5	2	2	3	4
130.0	10	10	9	8	6	5	2	2	4	5

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**CANDELA TABULATION - (Cont.)**

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

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1453	1453	1453	1453	1453	1453	1453	1453	1453	1453
2.5	1419	1436	1428	1435	1448	1428	1429	1420	1442	1449
5.0	1371	1381	1378	1312	1356	1365	1363	1339	1343	1307
7.5	1384	1396	1405	1385	1372	1311	1222	1234	1246	1244
10.0	1497	1456	1409	1428	1336	1293	1227	1212	1150	1180
12.5	1576	1583	1538	1512	1394	1285	1226	1247	1208	1243
15.0	1749	1725	1681	1563	1423	1348	1291	1300	1274	1246
17.5	1926	1885	1821	1680	1496	1411	1392	1343	1334	1322
20.0	2201	2128	2042	1806	1581	1492	1410	1423	1439	1453
22.5	2506	2406	2318	2015	1733	1609	1522	1512	1574	1669
25.0	2852	2744	2626	2279	1993	1701	1601	1669	1762	1906
27.5	3272	3174	3023	2623	2237	1813	1766	1890	2071	2218
30.0	3685	3635	3401	2896	2447	2012	2003	2141	2331	2482
32.5	4183	4073	3825	3244	2660	2302	2324	2417	2668	2900
35.0	4673	4636	4361	3625	2841	2560	2644	2736	2947	3178
37.5	5231	5166	4915	4032	3126	2851	2886	3039	3124	3409
40.0	5749	5641	5407	4427	3359	3134	3135	3198	3253	3464
42.5	6070	6025	5761	4636	3547	3337	3263	3283	3224	3308
45.0	6472	6456	6090	4780	3670	3384	3243	3179	3037	3024
47.5	7047	7033	6561	4902	3750	3363	3102	2955	2760	2683
50.0	7805	7753	7106	5010	3794	3271	2921	2669	2429	2330
52.5	8765	8674	7676	5066	3791	3135	2679	2373	2116	2015
55.0	10045	9765	8264	5066	3738	2962	2448	2149	1884	1775
57.5	11473	10878	8704	4966	3615	2759	2237	1960	1677	1587
60.0	12617	11378	8678	4667	3373	2502	2035	1772	1471	1388
62.5	13264	11185	8041	4091	2976	2165	1775	1565	1252	1163
65.0	12607	9890	6641	3251	2436	1780	1485	1325	1023	923
67.5	10360	7414	4747	2295	1777	1373	1174	1061	788	700
70.0	6607	4482	2825	1507	1273	1014	923	817	620	564
72.5	2962	2070	1476	1011	934	781	722	640	491	435
75.0	1118	919	807	738	702	623	581	479	360	299
77.5	577	513	528	567	556	507	439	328	228	214

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**CANDELA TABULATION - (Cont.)**

80.0	378	347	337	437	449	380	279	228	199	195
82.5	228	204	199	336	336	230	193	200	251	247
85.0	115	104	108	210	161	145	154	199	286	250
87.5	39	36	38	59	59	69	82	110	165	154
90.0	4	4	6	9	15	19	19	16	6	9
92.5	2	2	4	7	14	17	17	14	6	7
95.0	1	0	3	6	11	15	14	11	5	6
97.5	1	0	3	6	9	11	10	7	4	6
100.0	0	0	2	5	6	7	6	6	3	6
102.5	0	1	2	4	6	6	5	5	3	5
105.0	0	1	2	4	5	5	4	4	4	5
107.5	0	1	2	4	4	4	4	4	4	5
110.0	1	2	2	4	4	4	4	4	4	6
112.5	1	2	3	4	5	4	4	4	4	6
115.0	1	2	3	4	5	5	4	4	5	6
117.5	2	3	3	4	5	5	5	5	5	6
120.0	2	3	4	5	6	6	6	6	6	7
122.5	3	4	5	6	6	6	6	6	6	8
125.0	4	5	5	6	6	6	6	6	7	9
127.5	5	5	6	6	6	6	6	6	8	9
130.0	5	5	6	6	6	6	6	6	8	10
132.5	5	5	6	6	6	6	6	7	9	11
135.0	3	4	4	5	6	6	6	6	8	10
137.5	1	1	2	3	3	3	4	5	6	7
140.0	0	0	0	0	1	2	2	3	4	5
142.5	0	0	0	0	1	2	2	3	4	5
145.0	0	0	0	0	1	1	2	3	4	4
147.5	0	0	0	0	1	2	2	3	4	4
150.0	0	0	0	0	1	2	3	4	4	5
152.5	0	0	0	0	1	2	2	3	4	4
155.0	0	0	0	0	1	2	3	4	4	4
157.5	0	0	0	0	1	2	3	4	4	4
160.0	0	0	0	0	1	2	2	3	3	3
162.5	0	0	0	0	1	2	2	3	3	3
165.0	0	0	0	0	0	1	2	3	3	3
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	1	2	2	3	3
172.5	0	0	0	0	0	1	1	2	2	3
175.0	0	0	0	0	0	1	1	2	3	3
177.5	0	0	0	0	0	1	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

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

	<u>175.0</u>	<u>180.0</u>
0.0	1453	1453
2.5	1453	1444
5.0	1325	1320
7.5	1258	1275
10.0	1191	1207
12.5	1242	1277
15.0	1296	1338
17.5	1394	1408
20.0	1557	1531
22.5	1694	1759
25.0	1973	2003

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**CANDELA TABULATION - (Cont.)**

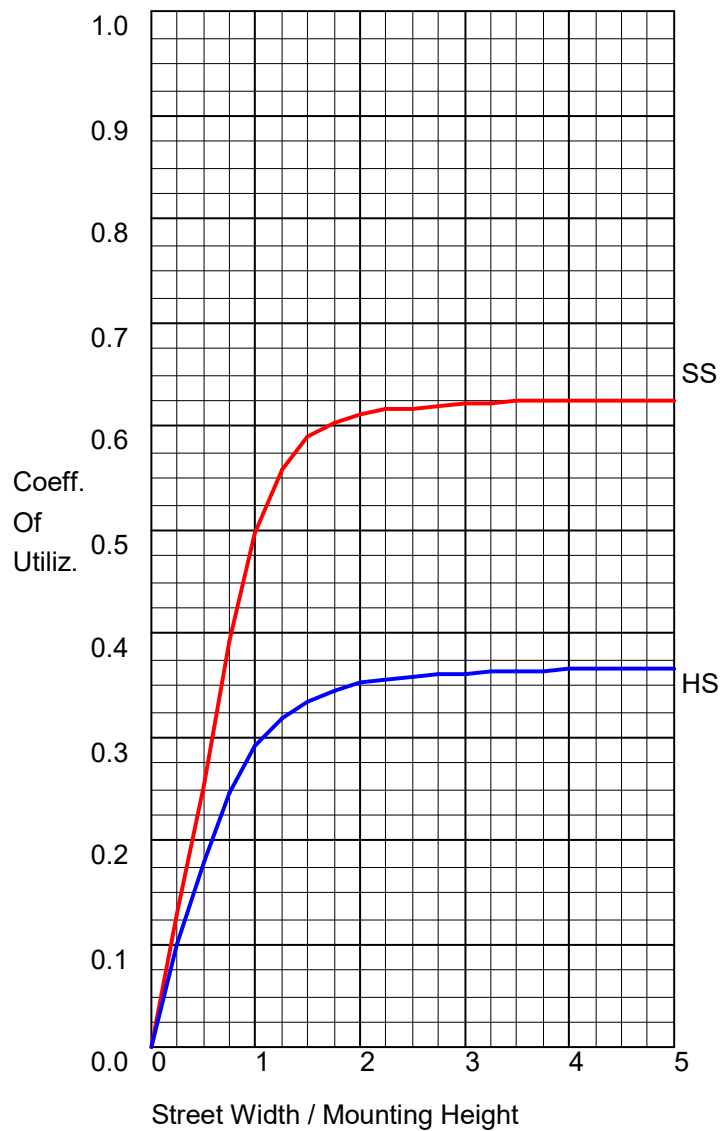
<b>27.5</b>	<b>2285</b>	<b>2322</b>
<b>30.0</b>	<b>2594</b>	<b>2664</b>
<b>32.5</b>	<b>3016</b>	<b>3033</b>
<b>35.0</b>	<b>3305</b>	<b>3305</b>
<b>37.5</b>	<b>3566</b>	<b>3566</b>
<b>40.0</b>	<b>3550</b>	<b>3527</b>
<b>42.5</b>	<b>3350</b>	<b>3345</b>
<b>45.0</b>	<b>3043</b>	<b>2998</b>
<b>47.5</b>	<b>2650</b>	<b>2620</b>
<b>50.0</b>	<b>2281</b>	<b>2261</b>
<b>52.5</b>	<b>1988</b>	<b>1966</b>
<b>55.0</b>	<b>1744</b>	<b>1728</b>
<b>57.5</b>	<b>1555</b>	<b>1530</b>
<b>60.0</b>	<b>1341</b>	<b>1320</b>
<b>62.5</b>	<b>1117</b>	<b>1092</b>
<b>65.0</b>	<b>863</b>	<b>854</b>
<b>67.5</b>	<b>667</b>	<b>656</b>
<b>70.0</b>	<b>564</b>	<b>560</b>
<b>72.5</b>	<b>471</b>	<b>471</b>
<b>75.0</b>	<b>333</b>	<b>337</b>
<b>77.5</b>	<b>254</b>	<b>260</b>
<b>80.0</b>	<b>223</b>	<b>226</b>
<b>82.5</b>	<b>271</b>	<b>273</b>
<b>85.0</b>	<b>262</b>	<b>267</b>
<b>87.5</b>	<b>139</b>	<b>129</b>
<b>90.0</b>	<b>7</b>	<b>7</b>
<b>92.5</b>	<b>6</b>	<b>6</b>
<b>95.0</b>	<b>6</b>	<b>6</b>
<b>97.5</b>	<b>6</b>	<b>6</b>
<b>100.0</b>	<b>6</b>	<b>6</b>
<b>102.5</b>	<b>6</b>	<b>6</b>
<b>105.0</b>	<b>6</b>	<b>6</b>
<b>107.5</b>	<b>6</b>	<b>6</b>
<b>110.0</b>	<b>6</b>	<b>6</b>
<b>112.5</b>	<b>6</b>	<b>6</b>
<b>115.0</b>	<b>6</b>	<b>6</b>
<b>117.5</b>	<b>6</b>	<b>6</b>
<b>120.0</b>	<b>7</b>	<b>7</b>
<b>122.5</b>	<b>8</b>	<b>8</b>
<b>125.0</b>	<b>9</b>	<b>9</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>10</b>	<b>10</b>
<b>135.0</b>	<b>10</b>	<b>10</b>
<b>137.5</b>	<b>7</b>	<b>7</b>
<b>140.0</b>	<b>6</b>	<b>5</b>
<b>142.5</b>	<b>5</b>	<b>5</b>
<b>145.0</b>	<b>5</b>	<b>5</b>
<b>147.5</b>	<b>5</b>	<b>5</b>
<b>150.0</b>	<b>5</b>	<b>5</b>
<b>152.5</b>	<b>5</b>	<b>5</b>
<b>155.0</b>	<b>5</b>	<b>5</b>
<b>157.5</b>	<b>4</b>	<b>4</b>
<b>160.0</b>	<b>3</b>	<b>3</b>
<b>162.5</b>	<b>3</b>	<b>3</b>
<b>165.0</b>	<b>3</b>	<b>3</b>

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	<b>3</b>	<b>3</b>
<b>170.0</b>	<b>2</b>	<b>3</b>
<b>172.5</b>	<b>2</b>	<b>2</b>
<b>175.0</b>	<b>3</b>	<b>3</b>
<b>177.5</b>	<b>3</b>	<b>3</b>
<b>180.0</b>	<b>1</b>	<b>1</b>

COEFFICIENTS OF UTILIZATION

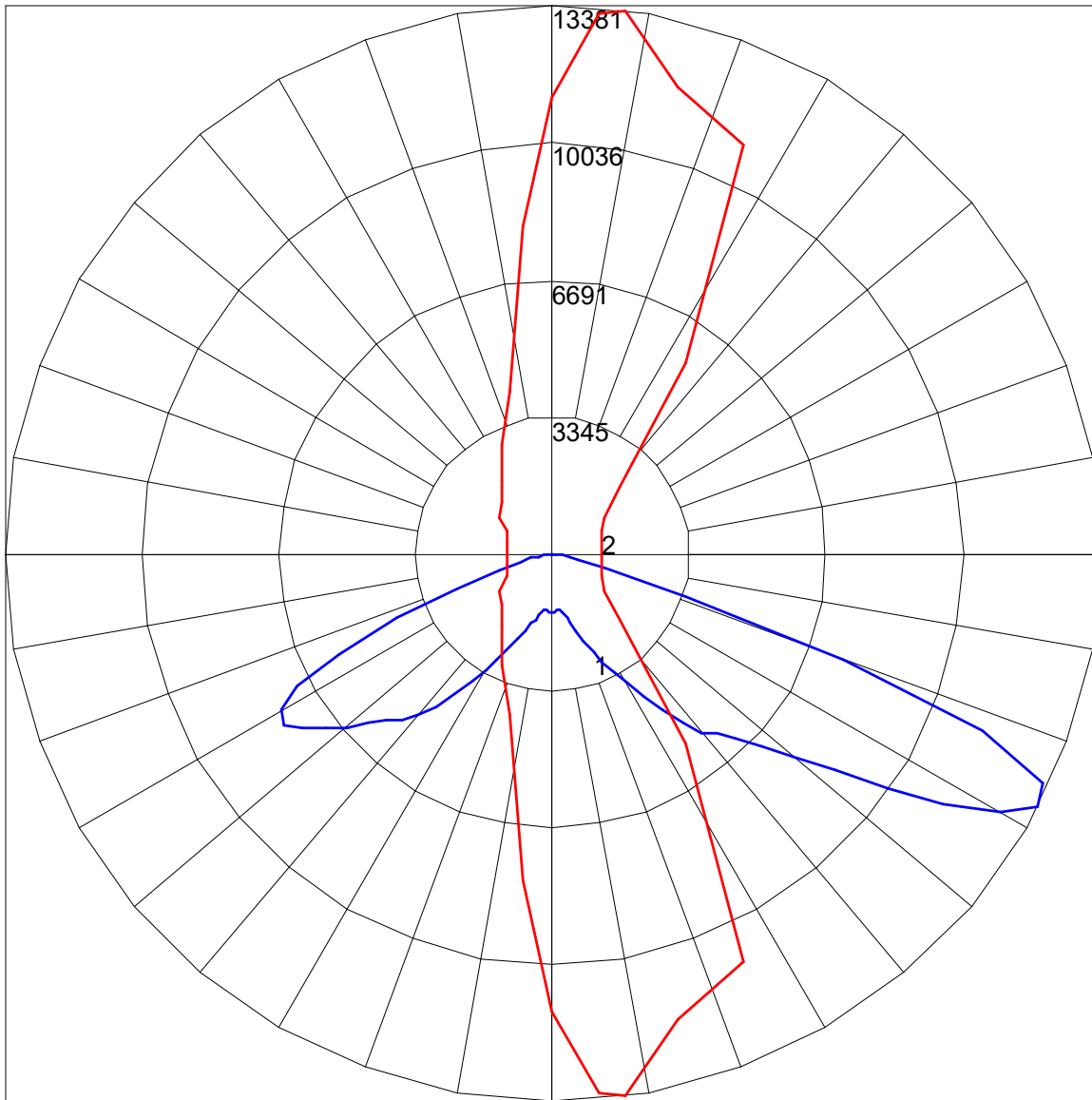


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10460.0	62.8
Downward House Side	6166.7	37.0
Downward Total	16626.7	99.9
Upward Street Side	7.2	0.0
Upward House Side	16.2	0.1
Upward Total	23.4	0.1
Total Flux	16650.1	100.0

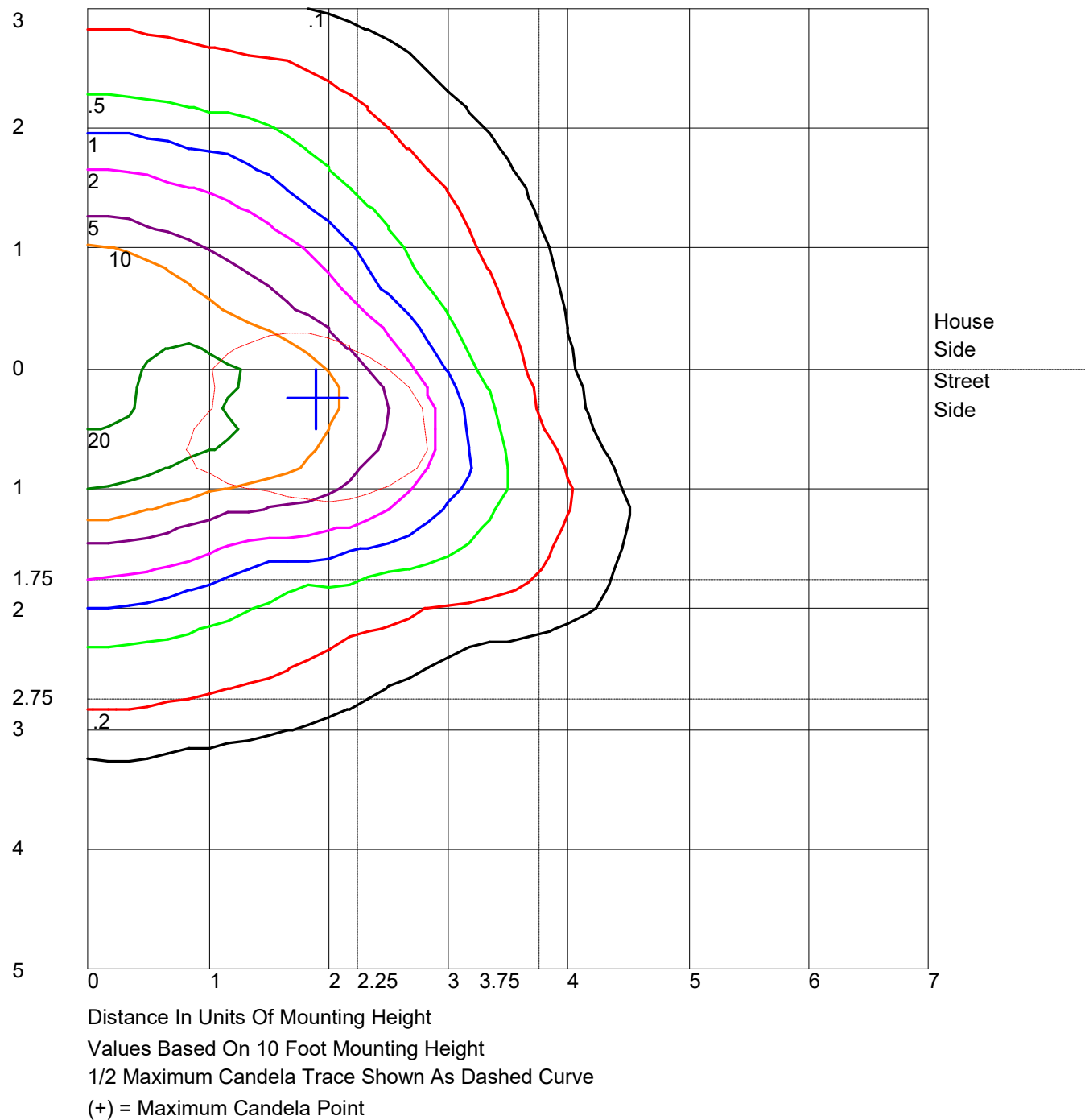


POLAR GRAPH

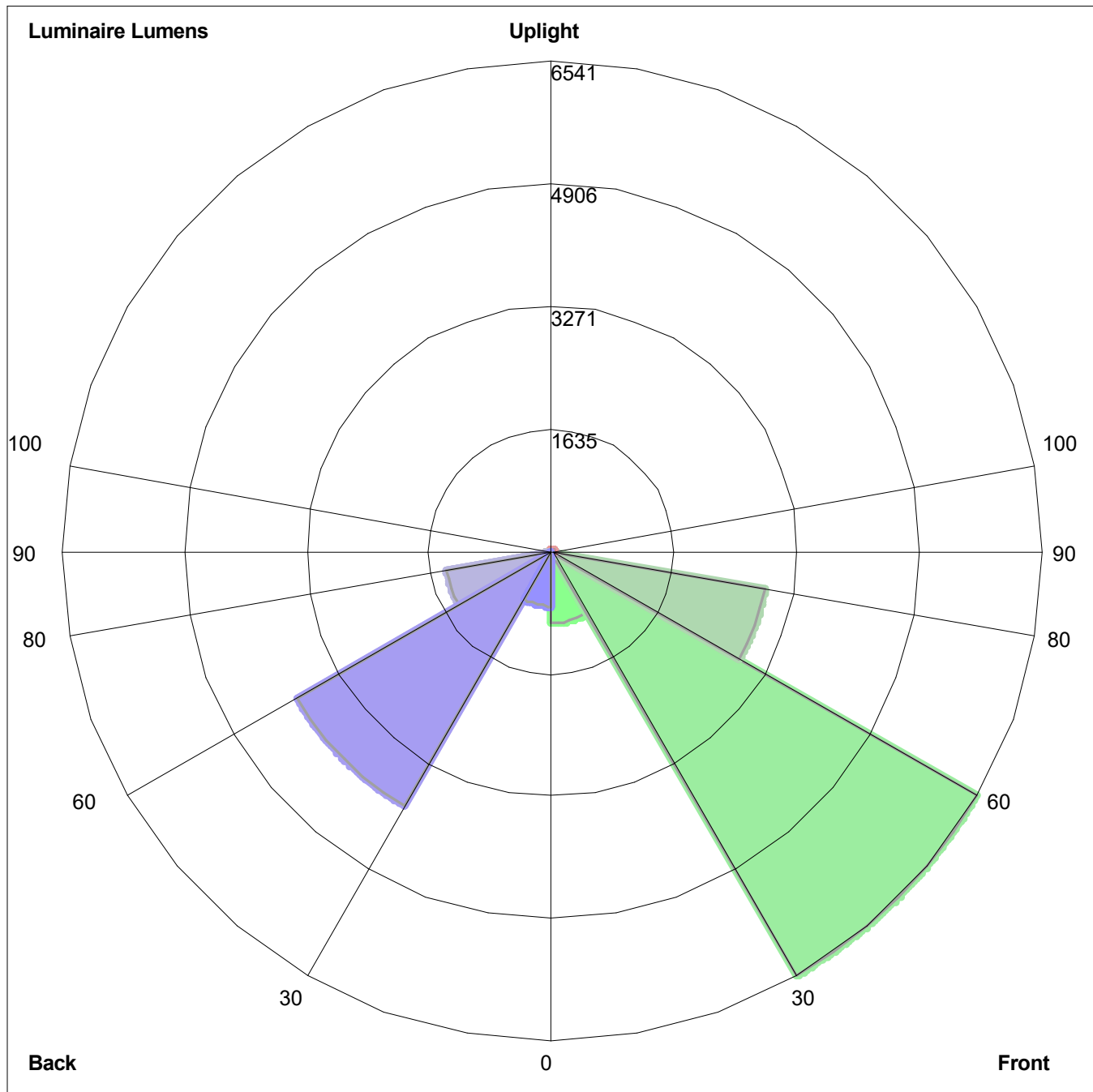


Maximum Candela = 13381 Located At Horizontal Angle = 82.5, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=955.2, Medium=6541.4, High=2888.1, Very High=75.4  
Back: Low=729.8, Medium=3919.7, High=1421.5, Very High=95.7  
Uplight: Low=5.9, High=17.6

BUG Rating : B3-U2-G3