



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-40-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11759  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/26/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-3-LED-25L-40-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	21348
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23317
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	23317
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	56 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	996 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	793.6	N.A.	3.7
FM - Front-Medium (30-60)	12652.8	N.A.	59.3
FH - Front-High (60-80)	5560.3	N.A.	26.0
FVH - Front-Very High (80-90)	132.4	N.A.	0.6
BL - Back-Low (0-30)	384.2	N.A.	1.8
BM - Back-Medium (30-60)	1447.7	N.A.	6.8
BH - Back-High (60-80)	286.3	N.A.	1.3
BVH - Back-Very High (80-90)	31.4	N.A.	0.1
UL - Uplight-Low (90-100)	14.5	N.A.	0.1
UH - Uplight-High (100-180)	44.6	N.A.	0.2
Total	21347.8	N.A.	100.0
BUG Rating	B2-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>45.0</b>	<b>55.0</b>	<b>57.5</b>	<b>65.0</b>	<b>75.0</b>
<b>0.0</b>	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
<b>2.5</b>	1020	1015	1012	1007	1027	1024	1023	1021	1026	1016
<b>5.0</b>	1040	1012	1024	1024	1017	996	979	980	974	972
<b>7.5</b>	1001	991	1008	1002	984	976	993	989	992	996
<b>10.0</b>	989	990	1017	965	1009	1007	1053	1048	1048	1041
<b>12.5</b>	1085	1084	1062	1051	1075	1065	1103	1106	1118	1099
<b>15.0</b>	1162	1149	1154	1170	1212	1200	1200	1199	1207	1218
<b>17.5</b>	1229	1253	1231	1274	1330	1387	1323	1318	1317	1331
<b>20.0</b>	1425	1466	1455	1442	1489	1553	1561	1568	1501	1494
<b>22.5</b>	1649	1643	1704	1721	1797	1854	1945	1943	1852	1785
<b>25.0</b>	2080	2047	2095	2175	2270	2339	2495	2499	2421	2210
<b>27.5</b>	2888	2898	2923	2849	2955	3111	3249	3232	3290	2912
<b>30.0</b>	3798	3763	3719	3805	3883	4130	4253	4284	4258	3789
<b>32.5</b>	4906	4912	4694	4628	4879	5138	5416	5430	5455	4681
<b>35.0</b>	5945	5902	5778	5905	5833	6371	6597	6660	6469	5592
<b>37.5</b>	7439	7411	7040	6975	7104	7348	7669	7649	7394	6162
<b>40.0</b>	8770	8778	8582	8316	8242	8465	8686	8566	8123	6815
<b>42.5</b>	10329	10467	10172	9723	9505	9576	9439	9425	8692	7386
<b>45.0</b>	12046	12215	12058	11438	10970	10791	10300	10226	9335	8072
<b>47.5</b>	13751	13886	13811	13316	12826	12217	11336	11258	10267	9159
<b>50.0</b>	15021	15171	15560	15306	14624	13898	12972	12789	11712	10540
<b>52.5</b>	14940	15241	16236	16943	17049	16095	15206	15040	13875	12131
<b>55.0</b>	13955	14107	15344	17102	18366	18515	18741	18659	16836	13401
<b>57.5</b>	11258	11541	13295	15810	18563	20302	22045	22085	18968	13796
<b>60.0</b>	7238	7595	9643	13010	17241	20663	23238	23317	19404	13177
<b>62.5</b>	3844	3975	5571	8993	14189	19026	22364	22421	18629	11841
<b>65.0</b>	2064	2130	2848	5147	9880	15644	20068	20213	16345	9341
<b>67.5</b>	1197	1215	1566	2741	5941	10593	15651	16019	12532	6017
<b>70.0</b>	791	838	1057	1809	3301	5992	10548	10772	8254	3410
<b>72.5</b>	583	618	766	1335	2191	3005	5622	6095	4472	1489
<b>75.0</b>	399	424	553	1046	1685	1721	2537	2813	1891	726
<b>77.5</b>	283	299	414	861	1326	1139	1130	1244	974	456
<b>80.0</b>	219	230	322	678	996	745	588	622	595	340
<b>82.5</b>	171	179	255	538	664	445	355	352	392	267
<b>85.0</b>	125	128	191	391	403	220	219	216	223	179
<b>87.5</b>	74	80	134	223	149	82	81	77	83	84
<b>90.0</b>	17	18	30	56	31	18	15	14	13	12
<b>92.5</b>	6	6	9	12	10	11	12	11	10	9
<b>95.0</b>	4	3	6	8	9	10	10	10	9	8
<b>97.5</b>	3	3	5	8	8	9	9	8	7	7
<b>100.0</b>	3	3	5	8	8	9	8	8	7	7
<b>102.5</b>	4	3	6	8	9	9	8	8	7	7
<b>105.0</b>	4	3	6	8	9	9	8	8	7	7
<b>107.5</b>	4	4	6	8	9	9	8	7	7	7
<b>110.0</b>	5	4	6	8	9	9	8	8	7	7
<b>112.5</b>	5	5	7	9	10	10	8	8	8	8
<b>115.0</b>	6	6	7	9	10	10	9	8	8	8
<b>117.5</b>	7	7	7	10	10	11	9	8	8	9
<b>120.0</b>	7	7	8	10	11	11	9	9	8	9
<b>122.5</b>	8	8	9	10	11	11	10	9	9	9
<b>125.0</b>	9	9	9	10	11	11	10	9	9	10
<b>127.5</b>	10	9	10	10	11	12	10	9	10	10
<b>130.0</b>	10	10	10	10	12	12	10	10	10	11

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

132.5	10	10	10	11	11	12	11	10	10	11
135.0	8	8	8	9	10	10	9	9	9	10
137.5	4	3	5	7	8	8	7	7	7	8
140.0	1	1	4	6	6	7	6	6	6	7
142.5	1	1	4	6	6	6	6	6	6	6
145.0	1	1	4	5	6	6	6	6	6	6
147.5	1	1	3	5	6	6	5	5	5	6
150.0	1	1	3	5	6	5	5	5	5	6
152.5	1	1	3	5	5	5	5	5	5	6
155.0	0	1	3	5	5	5	5	5	5	6
157.5	0	1	3	4	5	5	4	4	5	5
160.0	0	1	3	4	5	4	4	4	4	5
162.5	0	1	3	4	4	4	4	4	4	4
165.0	0	1	3	5	5	4	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	0	1	3	5	5	5	4	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	1	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
2.5	1024	1029	1027	1027	1038	1051	1039	1039	1037	1040
5.0	982	983	985	968	1007	1019	1025	1021	1016	999
7.5	980	982	988	1004	995	980	958	937	918	931
10.0	1022	1008	1004	1061	1009	978	894	865	798	788
12.5	1070	1062	1063	1063	1006	944	839	741	693	664
15.0	1124	1097	1097	1107	1021	881	756	679	633	606
17.5	1226	1187	1200	1116	985	799	715	663	626	589
20.0	1345	1291	1247	1160	929	760	685	664	636	586
22.5	1612	1505	1446	1243	910	760	693	673	652	605
25.0	1980	1815	1686	1318	936	810	695	681	723	697
27.5	2529	2235	2023	1403	1036	873	705	715	868	893
30.0	3165	2750	2364	1471	1089	912	748	775	1066	1126
32.5	3701	3179	2646	1520	1100	938	774	857	1258	1430
35.0	4244	3528	2868	1538	1074	944	798	876	1475	1784
37.5	4713	3886	3053	1563	1028	931	791	889	1774	2236
40.0	5185	4204	3254	1582	982	892	775	864	2074	2248
42.5	5716	4561	3454	1610	938	844	732	802	2242	1780
45.0	6504	5169	3759	1654	889	783	670	734	1817	1324
47.5	7602	5901	4135	1711	832	692	587	663	1189	984
50.0	8736	6686	4611	1745	756	566	475	566	673	755
52.5	9733	7341	4856	1712	617	410	347	428	441	604
55.0	10188	7498	4761	1562	482	308	261	293	309	489
57.5	10045	7078	4232	1326	393	258	214	207	215	394
60.0	9322	6230	3327	1028	335	230	183	159	159	318
62.5	7797	4852	2278	744	287	201	152	123	121	262
65.0	5176	3189	1406	511	239	167	124	97	90	216
67.5	2965	1863	830	351	197	134	95	76	68	175
70.0	1345	942	474	252	159	106	70	58	49	134
72.5	577	488	331	207	126	86	58	48	33	100
75.0	360	336	278	187	104	73	51	35	22	74
77.5	272	262	233	170	92	65	46	29	15	54

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**CANDELA TABULATION - (Cont.)**

80.0	243	221	193	151	82	60	41	25	12	43
82.5	180	165	160	126	72	56	40	23	11	36
85.0	109	104	117	90	62	52	38	22	10	30
87.5	54	48	61	57	51	46	34	20	9	25
90.0	12	10	19	33	41	39	29	18	7	14
92.5	9	7	15	27	35	33	25	16	5	5
95.0	9	6	14	24	31	30	23	15	6	5
97.5	8	7	11	20	25	25	19	13	6	4
100.0	8	7	11	15	20	20	16	12	7	5
102.5	8	7	10	13	17	17	15	12	7	5
105.0	8	8	10	13	15	15	14	12	8	5
107.5	8	8	10	13	14	14	14	12	8	5
110.0	8	9	11	12	14	14	14	12	9	6
112.5	8	9	11	13	14	14	14	12	9	6
115.0	9	10	11	13	14	14	14	12	10	7
117.5	9	10	11	13	14	14	14	13	10	7
120.0	10	11	12	13	14	14	14	13	11	8
122.5	10	11	12	13	14	14	15	13	11	8
125.0	11	12	12	14	14	14	15	14	11	9
127.5	11	12	13	13	14	14	15	14	12	10
130.0	11	12	13	14	14	15	15	14	12	10
132.5	11	12	12	13	14	15	15	14	11	10
135.0	11	11	12	13	14	14	14	13	11	8
137.5	9	9	10	11	13	13	13	12	9	7
140.0	8	8	9	10	11	11	11	10	8	6
142.5	7	8	8	9	10	11	10	9	7	5
145.0	7	7	8	9	10	10	10	9	6	4
147.5	7	7	8	9	9	10	9	8	6	4
150.0	7	7	8	8	9	9	9	8	6	3
152.5	7	7	7	8	9	9	9	7	5	3
155.0	6	7	7	8	8	9	8	7	5	2
157.5	6	7	7	7	8	8	7	6	4	2
160.0	5	6	6	7	7	7	7	5	3	1
162.5	5	6	6	6	7	6	6	5	2	1
165.0	5	5	6	6	6	6	6	4	2	0
167.5	5	5	5	6	6	6	5	4	2	0
170.0	4	5	5	5	6	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	5	5	5	5	5	5	4	2	0
177.5	4	4	4	4	5	4	4	3	2	0
180.0	3	3	3	3	3	3	3	3	3	3

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

	<u>175.0</u>	<u>180.0</u>
0.0	1036	1036
2.5	1042	1044
5.0	991	994
7.5	908	900
10.0	759	757
12.5	658	652
15.0	608	598
17.5	581	580
20.0	572	564
22.5	561	547
25.0	605	580

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-40-IL.IES**

**CANDELA TABULATION - (Cont.)**

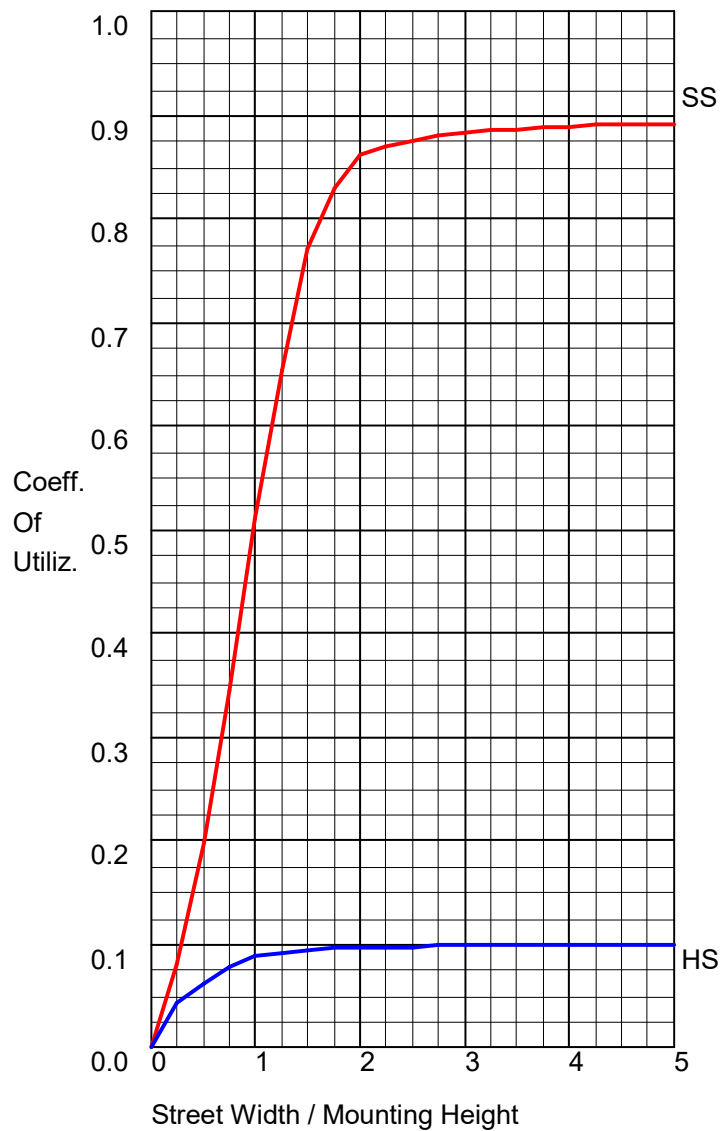
<b>27.5</b>	<b>716</b>	<b>689</b>
<b>30.0</b>	<b>877</b>	<b>858</b>
<b>32.5</b>	<b>1125</b>	<b>1073</b>
<b>35.0</b>	<b>1391</b>	<b>1327</b>
<b>37.5</b>	<b>1421</b>	<b>1308</b>
<b>40.0</b>	<b>1134</b>	<b>1007</b>
<b>42.5</b>	<b>844</b>	<b>724</b>
<b>45.0</b>	<b>629</b>	<b>561</b>
<b>47.5</b>	<b>510</b>	<b>447</b>
<b>50.0</b>	<b>437</b>	<b>364</b>
<b>52.5</b>	<b>404</b>	<b>314</b>
<b>55.0</b>	<b>396</b>	<b>292</b>
<b>57.5</b>	<b>406</b>	<b>301</b>
<b>60.0</b>	<b>426</b>	<b>333</b>
<b>62.5</b>	<b>443</b>	<b>375</b>
<b>65.0</b>	<b>450</b>	<b>407</b>
<b>67.5</b>	<b>428</b>	<b>409</b>
<b>70.0</b>	<b>386</b>	<b>391</b>
<b>72.5</b>	<b>337</b>	<b>344</b>
<b>75.0</b>	<b>262</b>	<b>273</b>
<b>77.5</b>	<b>205</b>	<b>223</b>
<b>80.0</b>	<b>165</b>	<b>185</b>
<b>82.5</b>	<b>134</b>	<b>148</b>
<b>85.0</b>	<b>104</b>	<b>114</b>
<b>87.5</b>	<b>79</b>	<b>87</b>
<b>90.0</b>	<b>36</b>	<b>43</b>
<b>92.5</b>	<b>0</b>	<b>0</b>
<b>95.0</b>	<b>0</b>	<b>0</b>
<b>97.5</b>	<b>0</b>	<b>0</b>
<b>100.0</b>	<b>0</b>	<b>0</b>
<b>102.5</b>	<b>1</b>	<b>0</b>
<b>105.0</b>	<b>1</b>	<b>0</b>
<b>107.5</b>	<b>1</b>	<b>0</b>
<b>110.0</b>	<b>2</b>	<b>1</b>
<b>112.5</b>	<b>3</b>	<b>2</b>
<b>115.0</b>	<b>3</b>	<b>3</b>
<b>117.5</b>	<b>4</b>	<b>4</b>
<b>120.0</b>	<b>5</b>	<b>5</b>
<b>122.5</b>	<b>6</b>	<b>6</b>
<b>125.0</b>	<b>7</b>	<b>6</b>
<b>127.5</b>	<b>8</b>	<b>7</b>
<b>130.0</b>	<b>8</b>	<b>8</b>
<b>132.5</b>	<b>8</b>	<b>7</b>
<b>135.0</b>	<b>6</b>	<b>6</b>
<b>137.5</b>	<b>4</b>	<b>4</b>
<b>140.0</b>	<b>2</b>	<b>2</b>
<b>142.5</b>	<b>2</b>	<b>1</b>
<b>145.0</b>	<b>1</b>	<b>0</b>
<b>147.5</b>	<b>1</b>	<b>0</b>
<b>150.0</b>	<b>1</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>

**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>	3	3

### COEFFICIENTS OF UTILIZATION

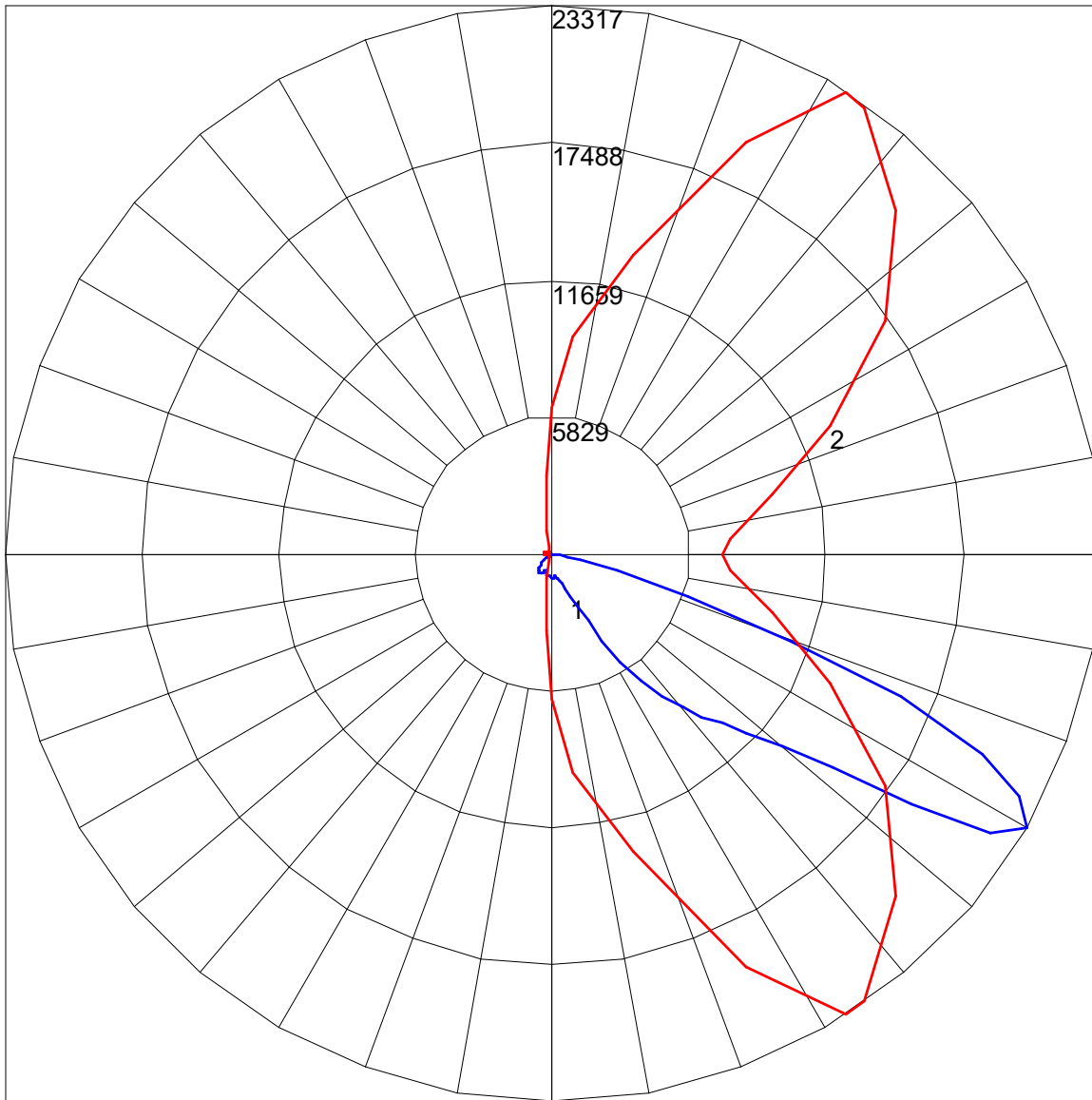


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19139.2	89.7
Downward House Side	2149.7	10.1
Downward Total	21288.9	99.7
Upward Street Side	24.7	0.1
Upward House Side	34.3	0.2
Upward Total	59.0	0.3
Total Flux	21347.9	100.0

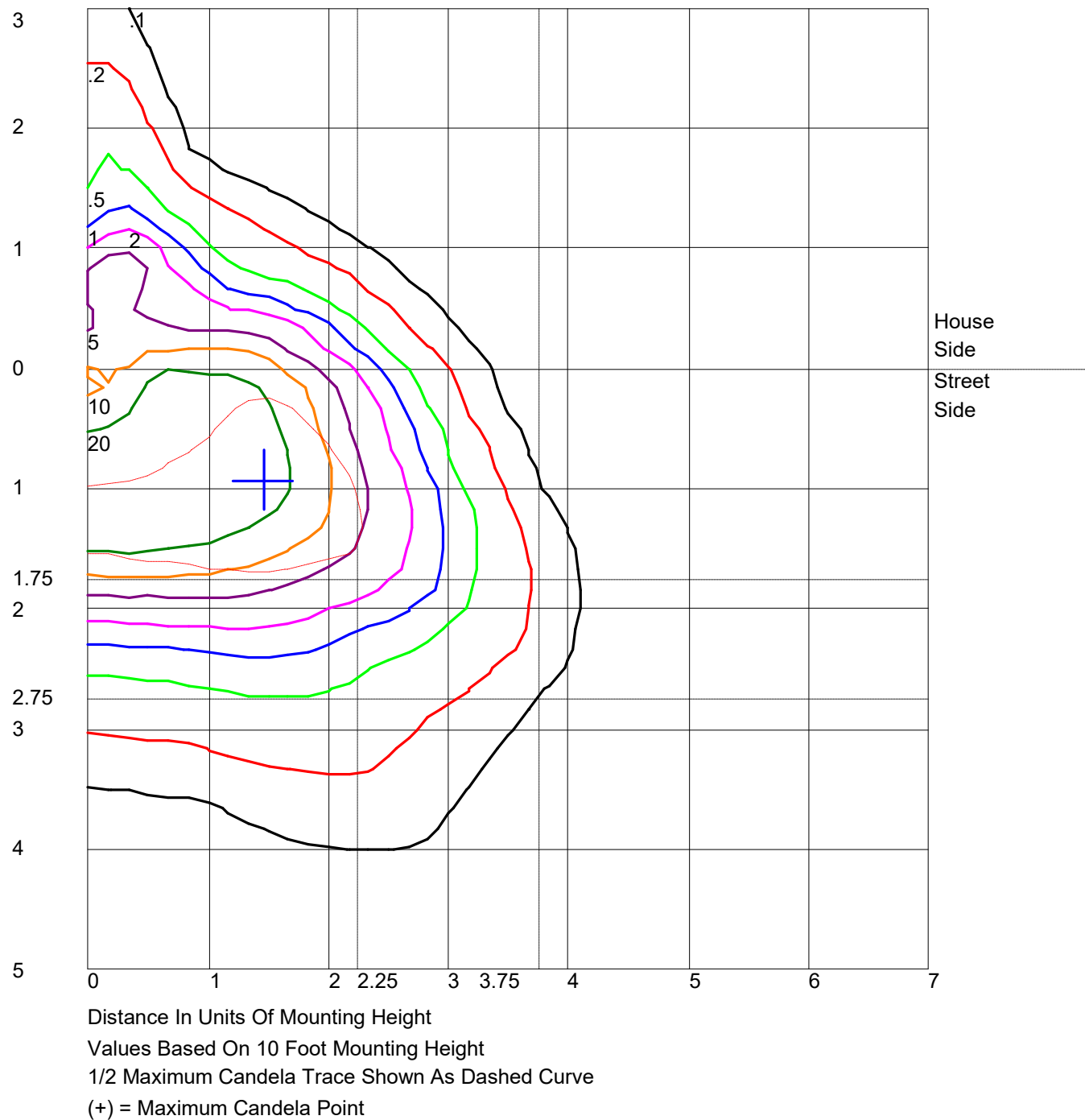


POLAR GRAPH

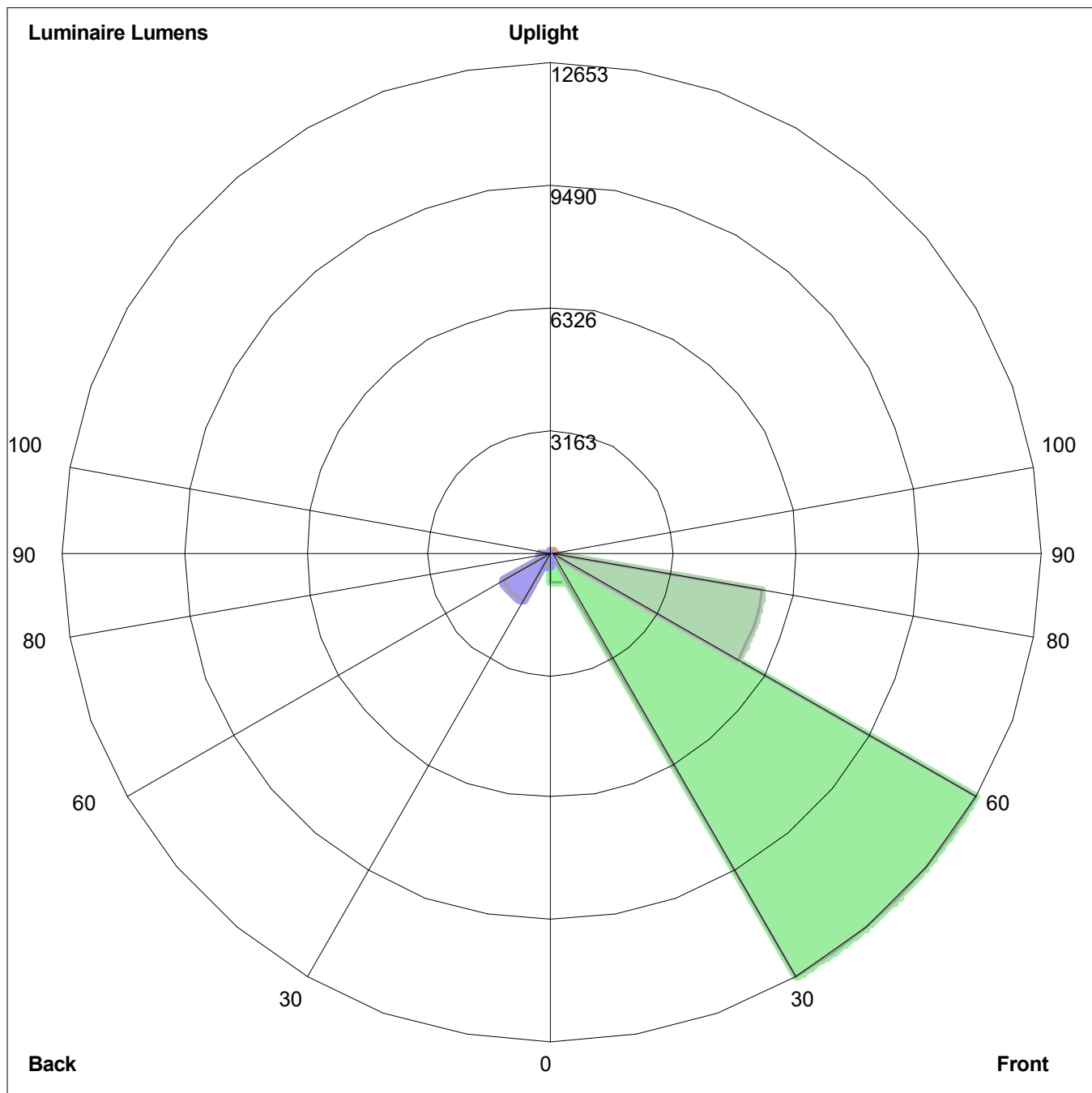


Maximum Candela = 23317 Located At Horizontal Angle = 57.5, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=793.6, Medium=12652.8, High=5560.3, Very High=132.4  
Back: Low=384.2, Medium=1447.7, High=286.3, Very High=31.4  
Uplight: Low=14.5, High=44.6

BUG Rating : B2-U2-G3