



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-25L-40-IL.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11752  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/24/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-5W-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16011
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	227
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11521
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	11521
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	21 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	516 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	895.2	N.A.	5.6
FM - Front-Medium (30-60)	7261.8	N.A.	45.4
FH - Front-High (60-80)	4674.4	N.A.	29.2
FVH - Front-Very High (80-90)	57.8	N.A.	0.4
BL - Back-Low (0-30)	508.5	N.A.	3.2
BM - Back-Medium (30-60)	1902.8	N.A.	11.9
BH - Back-High (60-80)	667.4	N.A.	4.2
BVH - Back-Very High (80-90)	11.0	N.A.	0.1
UL - Uplight-Low (90-100)	8.1	N.A.	0.1
UH - Uplight-High (100-180)	24.2	N.A.	0.2
Total	16011.2	N.A.	100.0
BUG Rating	B2-U2-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	933	933	933	933	933	933	933	933	933	933
<b>2.5</b>	953	957	965	970	962	959	960	957	944	935
<b>5.0</b>	954	972	982	981	1010	950	950	948	925	905
<b>7.5</b>	1000	1016	1050	968	985	959	963	963	1001	989
<b>10.0</b>	1103	1095	1140	1035	1074	1088	1117	1082	1048	1064
<b>12.5</b>	1265	1323	1235	1219	1272	1238	1255	1244	1195	1171
<b>15.0</b>	1433	1505	1448	1513	1541	1463	1476	1475	1396	1352
<b>17.5</b>	1614	1674	1636	1708	1764	1824	1815	1712	1646	1612
<b>20.0</b>	1958	1985	1946	1996	2075	2119	2106	2083	1937	1837
<b>22.5</b>	2232	2230	2295	2390	2411	2452	2514	2497	2287	2161
<b>25.0</b>	2550	2479	2617	2762	2896	2872	2895	2914	2687	2432
<b>27.5</b>	2936	3069	3200	3155	3339	3416	3419	3338	3087	2836
<b>30.0</b>	3475	3399	3484	3724	3737	3967	4011	3860	3582	3221
<b>32.5</b>	4153	4162	4064	4092	4370	4457	4444	4461	4136	3680
<b>35.0</b>	4781	4701	4606	4725	4814	5051	4924	5022	4616	4247
<b>37.5</b>	5347	5403	5209	5201	5397	5554	5440	5551	5151	4518
<b>40.0</b>	5810	5866	5766	5791	5908	6006	5973	6015	5621	5040
<b>42.5</b>	6166	6186	6121	6137	6315	6334	6342	6421	5986	5353
<b>45.0</b>	6464	6472	6408	6513	6679	6751	6783	6707	6292	5616
<b>47.5</b>	6705	6755	6755	6809	6981	7054	7031	6986	6575	5942
<b>50.0</b>	6927	7010	7062	7025	7211	7292	7279	7272	6887	6333
<b>52.5</b>	7165	7204	7312	7228	7457	7577	7602	7585	7242	6636
<b>55.0</b>	7385	7487	7621	7629	7791	8098	8149	8138	7733	7064
<b>57.5</b>	7728	7807	8014	8072	8433	8884	8923	8803	8065	7280
<b>60.0</b>	7702	7766	8137	8355	8918	9595	9579	9360	8227	7374
<b>62.5</b>	6893	7055	7683	8244	9276	10272	10224	9839	8300	7295
<b>65.0</b>	5425	5608	6433	7354	9257	10946	10835	10153	8156	7071
<b>67.5</b>	2962	3188	4138	5645	8170	11390	11521	10515	8100	6637
<b>70.0</b>	637	661	1105	2847	5871	10015	10544	9690	6749	4955
<b>72.5</b>	294	300	363	644	2238	6487	7169	6717	4403	2957
<b>75.0</b>	183	186	206	267	550	2242	3043	3236	2195	1340
<b>77.5</b>	95	97	106	138	231	471	598	1152	1049	630
<b>80.0</b>	68	68	71	80	113	173	197	327	516	357
<b>82.5</b>	59	60	63	69	82	99	105	145	268	284
<b>85.0</b>	46	47	50	57	69	82	86	103	148	230
<b>87.5</b>	32	32	35	38	47	56	58	70	104	131
<b>90.0</b>	16	16	16	15	15	15	13	9	12	21
<b>92.5</b>	3	3	3	4	5	6	6	6	5	6
<b>95.0</b>	2	2	2	2	3	5	5	5	5	5
<b>97.5</b>	2	2	2	2	3	3	3	4	4	5
<b>100.0</b>	2	2	2	2	3	3	3	3	4	4
<b>102.5</b>	2	2	2	2	2	3	3	3	3	4
<b>105.0</b>	2	3	2	2	3	3	3	3	3	4
<b>107.5</b>	3	3	2	3	3	3	3	3	3	4
<b>110.0</b>	4	3	3	3	3	3	3	3	4	4
<b>112.5</b>	4	4	4	3	4	4	4	3	4	5
<b>115.0</b>	5	5	4	4	4	4	4	4	4	5
<b>117.5</b>	5	6	5	4	4	4	5	4	5	5
<b>120.0</b>	7	6	6	4	5	5	5	5	5	6
<b>122.5</b>	7	7	6	5	5	5	5	5	5	6
<b>125.0</b>	8	8	7	6	6	6	6	5	6	7
<b>127.5</b>	8	9	8	7	6	6	6	6	6	7
<b>130.0</b>	9	9	8	7	6	6	6	6	6	7

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**CANDELA TABULATION - (Cont.)**

132.5	9	9	8	7	6	6	6	6	6	7
135.0	9	8	7	6	6	6	6	5	5	7
137.5	3	4	3	3	4	4	3	3	4	5
140.0	0	1	1	1	2	2	2	2	2	3
142.5	0	1	1	1	2	2	2	2	2	3
145.0	0	1	1	1	2	2	2	2	2	3
147.5	0	0	1	1	2	2	2	2	2	3
150.0	1	1	1	2	2	2	2	2	2	3
152.5	0	1	1	2	2	2	2	2	2	3
155.0	0	1	1	1	2	1	2	2	2	3
157.5	1	1	1	1	1	1	2	2	2	2
160.0	1	1	1	1	1	1	1	2	2	2
162.5	1	1	1	1	1	1	1	1	2	2
165.0	0	1	1	1	1	1	1	1	1	2
167.5	0	1	1	1	1	1	1	1	1	2
170.0	1	1	1	1	1	1	1	1	1	2
172.5	1	1	1	1	2	1	1	1	1	2
175.0	1	1	1	1	2	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
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	933	933	933	933	933	933	933	933	933	933
2.5	930	929	932	928	921	912	916	918	913	899
5.0	901	895	876	872	878	873	849	853	840	826
7.5	937	945	923	921	877	823	780	788	758	773
10.0	996	970	953	973	852	830	785	758	737	746
12.5	1102	1086	1058	995	888	842	807	821	815	837
15.0	1222	1192	1142	1043	932	905	923	939	924	904
17.5	1419	1346	1284	1145	1019	1035	1059	1028	983	977
20.0	1640	1557	1480	1284	1169	1192	1171	1121	1091	1049
22.5	1965	1786	1687	1453	1369	1375	1303	1247	1152	1100
25.0	2197	2063	1907	1613	1658	1566	1465	1331	1236	1052
27.5	2499	2315	2174	1870	1943	1769	1604	1408	1149	873
30.0	2881	2627	2452	2198	2256	2068	1835	1332	879	607
32.5	3156	2960	2723	2565	2587	2378	1877	1012	571	412
35.0	3600	3277	3056	2951	2936	2687	1674	676	382	305
37.5	3979	3678	3439	3397	3305	2795	1213	444	289	252
40.0	4245	3969	3711	3843	3699	2552	776	323	240	216
42.5	4552	4241	3970	4204	4010	1995	481	264	206	184
45.0	4892	4579	4304	4589	4132	1283	344	220	177	155
47.5	5172	4883	4646	5004	3897	785	265	186	150	124
50.0	5563	5277	5053	5458	3262	517	210	156	121	94
52.5	5943	5721	5508	5948	2375	362	173	126	92	67
55.0	6314	6110	6085	6350	1514	256	143	94	67	45
57.5	6587	6251	6439	6324	1025	182	113	67	44	25
60.0	6696	6296	6539	5608	830	145	85	44	25	10
62.5	6556	6200	6514	4400	778	132	62	25	14	5
65.0	6270	5949	6272	2893	782	172	42	14	11	4
67.5	5702	5425	5766	1617	764	247	29	12	10	5
70.0	4138	3918	4127	795	587	321	30	11	11	7
72.5	2329	2163	2296	287	252	311	25	13	9	4
75.0	1015	922	959	157	107	127	22	11	3	2
77.5	445	402	396	96	52	60	16	8	1	1

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**CANDELA TABULATION - (Cont.)**

80.0	271	234	193	58	35	32	12	8	0	1
82.5	206	172	124	36	28	21	12	8	0	1
85.0	147	113	66	22	20	18	12	8	0	2
87.5	85	45	19	16	18	17	13	9	0	2
90.0	15	5	13	17	20	19	15	10	1	2
92.5	7	5	12	17	21	20	16	11	2	3
95.0	6	4	10	16	19	18	14	10	2	3
97.5	5	4	8	12	16	15	11	8	2	3
100.0	5	5	7	9	12	12	9	7	3	2
102.5	4	5	7	8	9	9	8	6	3	2
105.0	4	5	6	7	8	8	7	6	3	2
107.5	4	5	6	7	8	8	7	6	4	3
110.0	5	6	6	7	8	8	7	6	4	3
112.5	5	6	7	7	8	8	7	6	4	3
115.0	5	6	7	8	8	8	7	6	4	3
117.5	6	7	7	8	8	8	7	6	5	4
120.0	6	7	7	8	9	9	8	7	5	4
122.5	7	7	8	9	9	9	8	7	6	5
125.0	7	8	8	9	9	9	9	8	7	6
127.5	8	8	9	9	9	9	9	8	7	6
130.0	8	8	8	9	9	9	8	8	7	7
132.5	8	8	8	9	9	9	8	7	7	6
135.0	7	8	8	8	8	9	8	7	6	6
137.5	6	6	6	7	7	7	6	6	5	4
140.0	4	4	4	5	5	5	5	4	3	2
142.5	3	4	4	4	5	5	4	4	3	2
145.0	3	4	4	4	5	5	4	3	3	2
147.5	3	4	4	4	5	5	4	3	2	2
150.0	3	4	4	4	4	5	4	3	2	2
152.5	3	4	4	4	4	4	4	3	2	1
155.0	3	3	4	4	4	4	4	3	2	1
157.5	3	3	3	4	4	4	4	3	2	1
160.0	3	3	3	3	4	4	3	2	1	1
162.5	2	3	3	3	3	3	3	2	1	0
165.0	2	2	3	3	3	3	3	2	1	0
167.5	2	2	2	3	3	3	3	2	1	0
170.0	2	2	2	3	3	3	2	1	1	0
172.5	2	2	2	3	3	3	2	1	1	0
175.0	2	2	2	2	2	2	2	1	1	0
177.5	2	2	2	2	2	2	2	1	0	0
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	933	933
2.5	891	888
5.0	805	803
7.5	755	747
10.0	760	725
12.5	847	828
15.0	927	887
17.5	981	940
20.0	1048	1000
22.5	1041	1011
25.0	959	937

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**CANDELA TABULATION - (Cont.)**

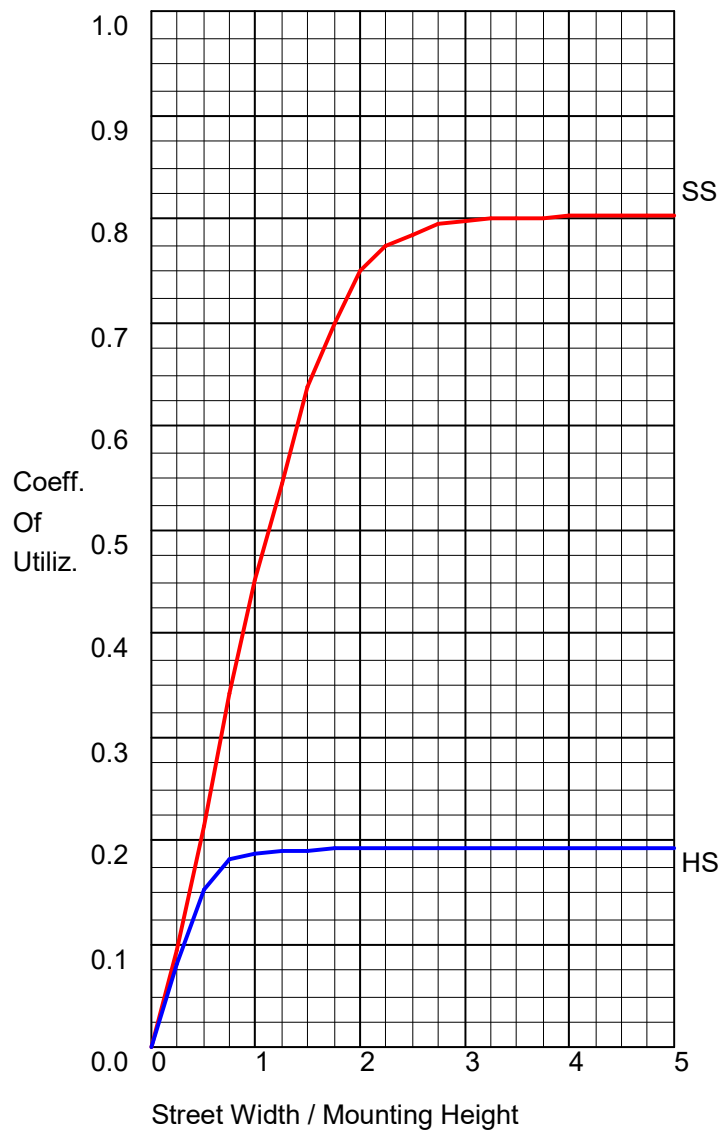
27.5	749	716
30.0	507	493
32.5	361	351
35.0	284	283
37.5	241	239
40.0	207	208
42.5	176	177
45.0	145	143
47.5	113	113
50.0	84	83
52.5	58	57
55.0	36	35
57.5	17	17
60.0	5	5
62.5	2	1
65.0	1	0
67.5	3	2
70.0	4	4
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	0
97.5	1	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	2	1
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	6	6
130.0	6	6
132.5	6	6
135.0	5	5
137.5	3	3
140.0	2	1
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	1
152.5	1	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>	1	1

COEFFICIENTS OF UTILIZATION

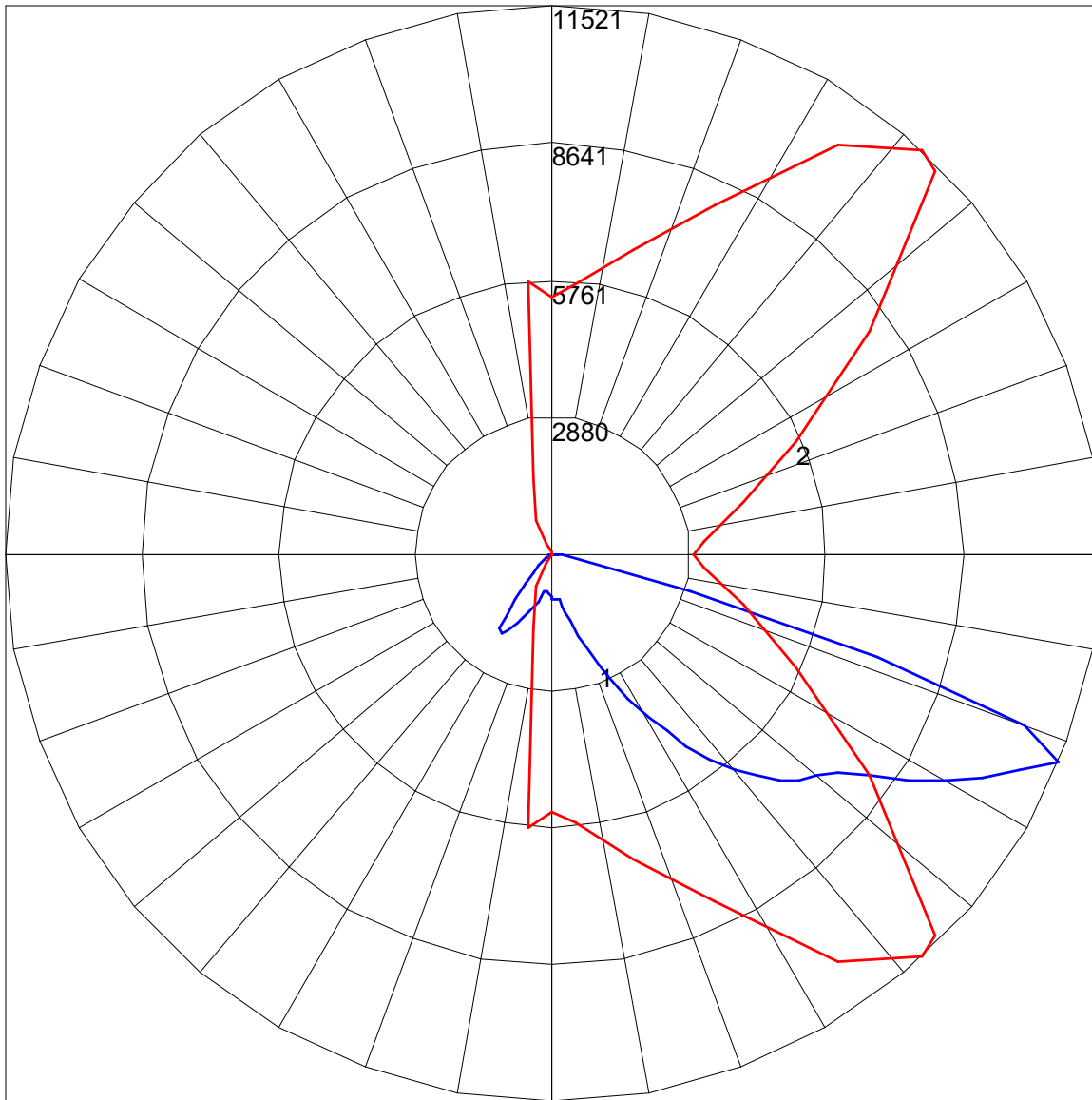


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	12889.2	80.5
Downward House Side	3089.7	19.3
Downward Total	15978.9	99.8
Upward Street Side	12.9	0.1
Upward House Side	19.3	0.1
Upward Total	32.2	0.2
Total Flux	16011.1	100.0

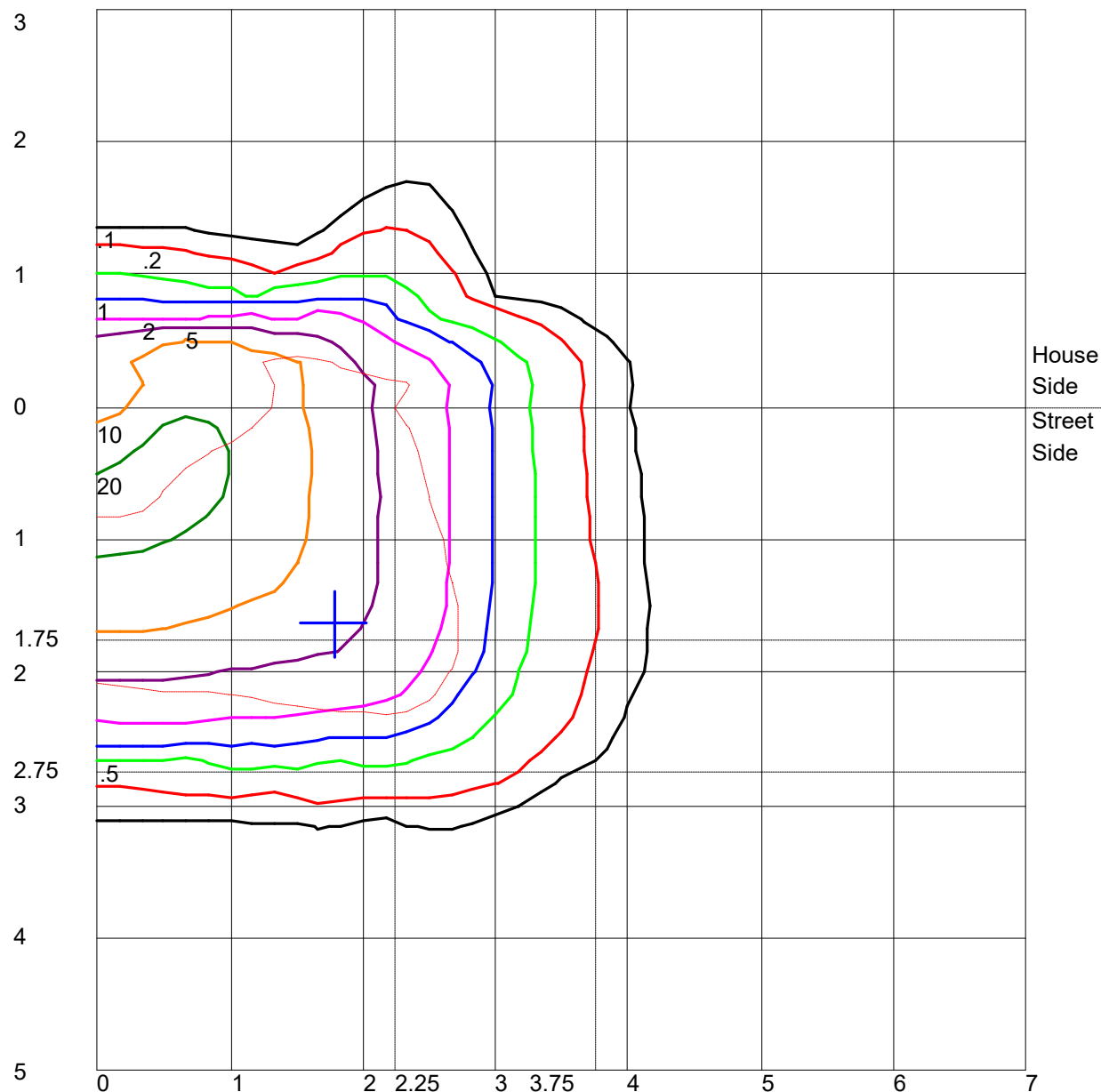


POLAR GRAPH

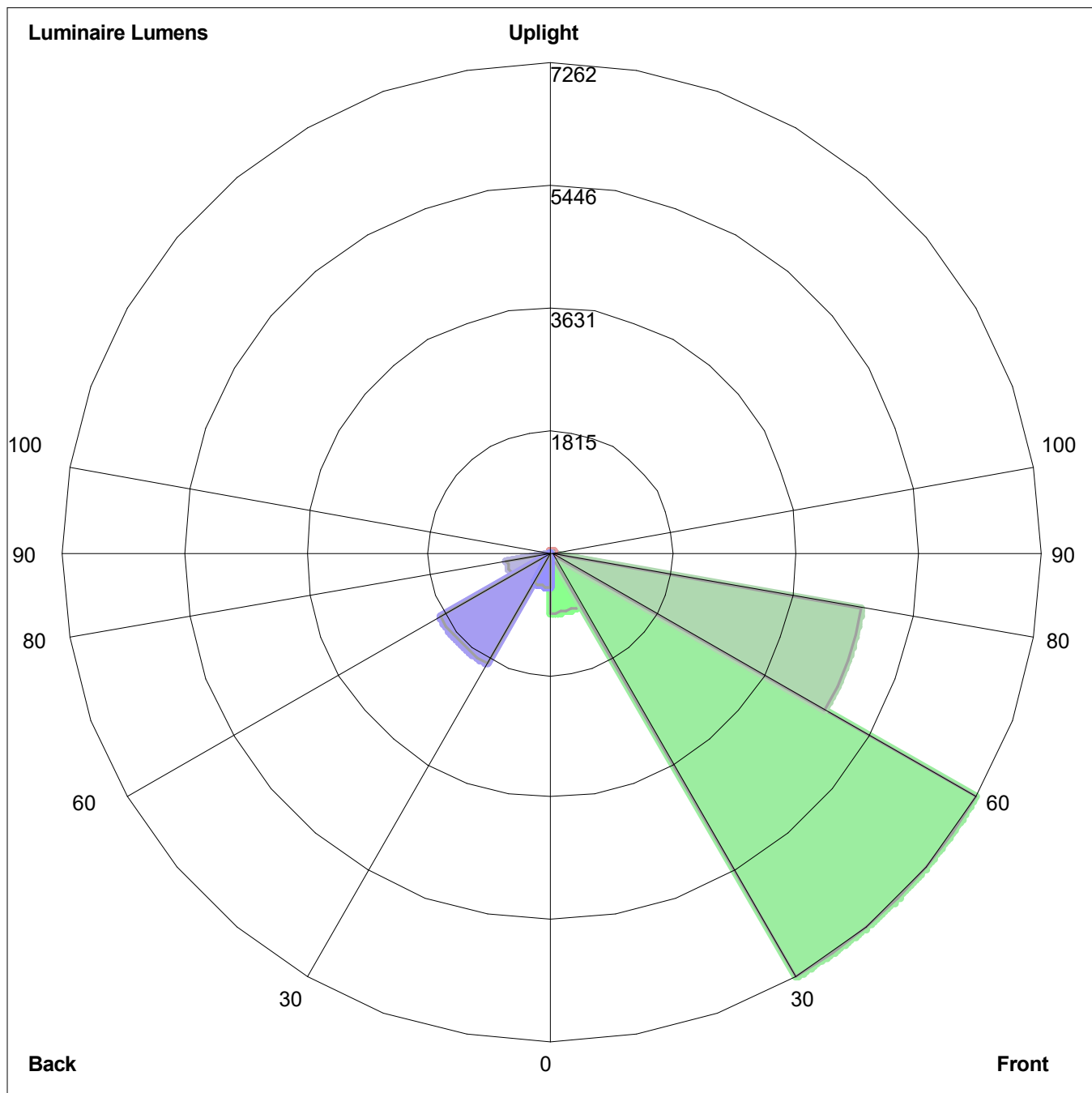


Maximum Candela = 11521 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=895.2, Medium=7261.8, High=4674.4, Very High=57.8  
Back: Low=508.5, Medium=1902.8, High=667.4, Very High=11.0  
Uplight: Low=8.1, High=24.2

BUG Rating : B2-U2-G2