



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-25L-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11751  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/24/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-5W-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16796
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	227.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12144
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	12144
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	545 (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)	941.7	N.A.	5.6
FM - Front-Medium (30-60)	7591.2	N.A.	45.2
FH - Front-High (60-80)	4938.2	N.A.	29.4
FVH - Front-Very High (80-90)	60.5	N.A.	0.4
BL - Back-Low (0-30)	534.9	N.A.	3.2
BM - Back-Medium (30-60)	1983.7	N.A.	11.8
BH - Back-High (60-80)	703.0	N.A.	4.2
BVH - Back-Very High (80-90)	11.5	N.A.	0.1
UL - Uplight-Low (90-100)	8.2	N.A.	0.0
UH - Uplight-High (100-180)	23.5	N.A.	0.1
Total	16796.4	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>	991	991	991	991	991	991	991	991	991	991
<b>2.5</b>	1022	1014	1024	1025	1025	1019	1015	1019	1003	993
<b>5.0</b>	1024	1032	1041	1034	1064	1008	998	1001	987	964
<b>7.5</b>	1054	1077	1115	1031	1045	1011	1021	1017	1057	1052
<b>10.0</b>	1164	1162	1209	1093	1141	1146	1181	1154	1112	1125
<b>12.5</b>	1330	1400	1310	1289	1341	1306	1328	1305	1255	1243
<b>15.0</b>	1491	1596	1533	1593	1621	1547	1558	1541	1479	1430
<b>17.5</b>	1707	1769	1745	1816	1861	1901	1904	1792	1750	1704
<b>20.0</b>	2077	2087	2090	2128	2177	2208	2205	2172	2025	1945
<b>22.5</b>	2337	2342	2433	2528	2517	2583	2640	2610	2372	2270
<b>25.0</b>	2683	2607	2772	2917	3029	3019	3033	3056	2811	2559
<b>27.5</b>	3099	3231	3370	3310	3515	3568	3585	3494	3231	2970
<b>30.0</b>	3660	3576	3652	3863	3903	4153	4202	4043	3737	3393
<b>32.5</b>	4379	4388	4233	4255	4556	4660	4664	4691	4353	3863
<b>35.0</b>	5037	4884	4813	4904	5038	5306	5199	5304	4851	4447
<b>37.5</b>	5678	5637	5426	5408	5586	5834	5704	5840	5401	4754
<b>40.0</b>	6061	6142	6010	6004	6168	6267	6269	6293	5920	5260
<b>42.5</b>	6390	6477	6416	6414	6612	6625	6623	6711	6281	5602
<b>45.0</b>	6730	6790	6709	6823	6968	7062	7070	6999	6576	5881
<b>47.5</b>	6995	7076	7077	7114	7265	7341	7351	7283	6862	6192
<b>50.0</b>	7245	7338	7386	7322	7504	7568	7615	7575	7182	6627
<b>52.5</b>	7515	7594	7646	7569	7807	7889	7934	7936	7550	6950
<b>55.0</b>	7748	7841	7975	7957	8152	8409	8494	8476	8047	7426
<b>57.5</b>	8066	8219	8377	8413	8769	9177	9315	9223	8426	7661
<b>60.0</b>	8041	8134	8564	8716	9360	10004	10024	9791	8609	7733
<b>62.5</b>	7318	7441	8066	8618	9722	10679	10670	10261	8695	7676
<b>65.0</b>	5904	5953	6775	7746	9695	11401	11339	10643	8598	7516
<b>67.5</b>	3373	3422	4292	5876	8621	11994	12144	11101	8671	7125
<b>70.0</b>	726	705	1086	2871	6108	10736	11325	10446	7369	5350
<b>72.5</b>	308	319	389	657	2394	6954	7622	7254	4761	3210
<b>75.0</b>	185	193	217	291	589	2406	3198	3516	2358	1451
<b>77.5</b>	96	98	113	147	241	473	626	1157	1088	681
<b>80.0</b>	71	71	75	85	118	181	205	332	545	372
<b>82.5</b>	63	63	66	72	85	103	109	155	279	299
<b>85.0</b>	49	49	52	60	72	86	90	109	153	242
<b>87.5</b>	35	34	36	39	47	58	63	76	111	139
<b>90.0</b>	17	17	16	15	16	16	14	10	15	17
<b>92.5</b>	4	4	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	2	3	3	4	4	5
<b>100.0</b>	2	2	2	2	2	3	3	3	3	4
<b>102.5</b>	2	2	2	2	3	3	3	3	3	4
<b>105.0</b>	3	2	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>	3	3	3	3	3	3	3	3	3	4
<b>112.5</b>	4	4	3	3	3	3	3	3	4	5
<b>115.0</b>	5	4	4	4	4	4	4	4	4	5
<b>117.5</b>	5	5	5	4	4	4	4	4	4	5
<b>120.0</b>	6	6	5	4	4	5	5	4	5	6
<b>122.5</b>	7	7	6	5	5	5	5	5	5	6
<b>125.0</b>	8	8	7	6	5	6	6	5	6	7
<b>127.5</b>	9	8	8	6	6	6	6	5	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	8	8	7	6	5	6	6	5	5	6
137.5	4	4	3	3	3	3	3	3	4	5
140.0	0	1	1	1	2	2	2	2	2	3
142.5	1	1	1	1	2	2	2	2	2	3
145.0	0	0	1	1	1	2	1	2	2	3
147.5	0	0	1	1	2	2	2	2	2	3
150.0	0	0	1	1	2	2	1	2	2	3
152.5	0	0	1	1	2	1	2	2	2	3
155.0	0	1	1	1	1	1	1	2	2	3
157.5	0	1	1	1	1	1	1	2	2	2
160.0	0	0	1	1	1	1	1	1	2	2
162.5	0	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	1	1	1	1	1	1	1	1	1
170.0	0	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	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	991	991	991	991	991	991	991	991	991	991
2.5	988	990	992	983	975	969	969	977	973	960
5.0	956	955	930	919	933	923	900	909	890	875
7.5	992	995	978	979	929	870	825	834	806	821
10.0	1048	1020	1011	1035	902	876	838	801	776	791
12.5	1169	1148	1119	1046	941	892	855	869	864	889
15.0	1300	1255	1211	1097	985	964	977	992	976	956
17.5	1504	1432	1353	1202	1068	1089	1128	1088	1039	1029
20.0	1742	1674	1562	1341	1218	1249	1231	1192	1155	1106
22.5	2073	1898	1780	1538	1421	1445	1372	1321	1213	1157
25.0	2310	2174	2011	1702	1705	1649	1548	1405	1290	1102
27.5	2620	2439	2294	1964	2015	1858	1679	1480	1192	910
30.0	3031	2746	2589	2297	2372	2159	1920	1397	903	627
32.5	3309	3070	2861	2676	2716	2480	1940	1058	600	427
35.0	3773	3434	3196	3119	3096	2817	1735	711	403	321
37.5	4159	3837	3574	3577	3467	2922	1249	469	305	266
40.0	4450	4146	3861	4039	3873	2642	781	341	253	228
42.5	4753	4442	4154	4376	4173	2072	490	277	217	194
45.0	5114	4794	4517	4770	4291	1364	358	230	186	164
47.5	5424	5123	4853	5213	4047	830	277	195	155	130
50.0	5796	5525	5266	5683	3407	537	220	163	126	100
52.5	6201	5934	5707	6153	2496	380	182	131	97	70
55.0	6611	6345	6279	6587	1551	270	149	101	70	46
57.5	6896	6552	6710	6590	1044	193	119	72	47	26
60.0	6978	6615	6829	5796	859	153	90	47	27	12
62.5	6892	6530	6818	4486	810	141	64	26	15	5
65.0	6661	6272	6631	2963	816	177	44	15	12	4
67.5	6064	5757	6153	1714	805	256	30	12	10	5
70.0	4342	4142	4447	870	636	334	31	12	12	6
72.5	2493	2365	2481	303	284	329	26	14	9	4
75.0	1080	1009	1045	165	113	133	22	12	3	2
77.5	494	446	428	101	55	64	16	8	1	1

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**CANDELA TABULATION - (Cont.)**

80.0	291	251	205	60	37	33	13	7	0	1
82.5	216	181	132	38	29	22	13	8	0	1
85.0	150	115	71	24	21	19	14	8	0	1
87.5	86	44	20	17	19	18	14	8	0	2
90.0	14	5	13	18	21	20	15	10	1	2
92.5	7	5	13	18	22	21	17	12	2	3
95.0	6	4	10	17	20	19	15	9	2	3
97.5	5	4	8	13	16	16	12	7	2	2
100.0	4	5	7	9	13	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	8	6	3	2
107.5	5	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	6	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	3
120.0	6	7	7	8	9	9	8	6	5	4
122.5	6	7	8	8	9	9	8	7	5	4
125.0	7	8	8	9	9	9	8	7	6	5
127.5	8	8	8	9	9	9	8	7	7	6
130.0	8	8	8	9	9	9	8	7	7	6
132.5	8	8	8	9	9	9	8	7	7	6
135.0	7	7	8	8	8	8	8	7	6	5
137.5	5	6	6	6	7	7	6	5	4	3
140.0	4	4	4	5	5	5	5	4	3	2
142.5	3	4	4	5	5	5	4	4	3	2
145.0	3	4	4	4	4	5	4	3	2	2
147.5	3	4	4	4	4	5	4	3	2	2
150.0	3	4	4	4	4	5	4	3	2	1
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	3	3	2	1
160.0	2	3	3	3	3	4	3	2	1	0
162.5	2	3	3	3	3	3	3	2	1	0
165.0	2	3	3	3	3	3	3	2	1	0
167.5	2	2	2	3	3	3	2	2	1	0
170.0	2	2	2	2	3	3	2	1	1	0
172.5	2	2	2	2	2	3	2	1	1	0
175.0	2	2	2	2	2	2	2	1	0	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	991	991
2.5	941	941
5.0	855	848
7.5	802	787
10.0	805	773
12.5	901	865
15.0	975	936
17.5	1037	982
20.0	1106	1050
22.5	1099	1060
25.0	999	986

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-25L-50-IL.IES**

**CANDELA TABULATION - (Cont.)**

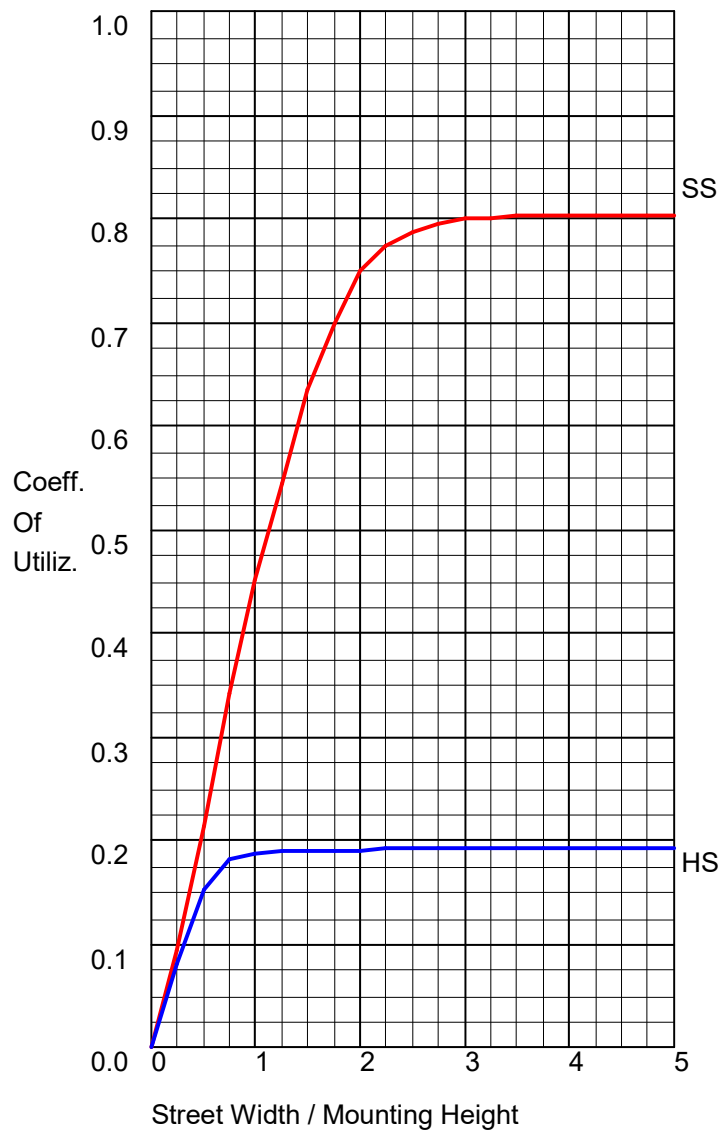
27.5	777	757
30.0	530	499
32.5	372	361
35.0	297	296
37.5	253	253
40.0	217	218
42.5	186	186
45.0	153	153
47.5	122	120
50.0	90	89
52.5	61	61
55.0	38	36
57.5	18	17
60.0	5	5
62.5	2	1
65.0	1	0
67.5	2	2
70.0	4	4
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	1
105.0	1	1
107.5	2	2
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	3	4
122.5	4	4
125.0	5	5
127.5	5	5
130.0	6	6
132.5	6	6
135.0	5	5
137.5	3	3
140.0	1	1
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	0
152.5	1	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

**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>	1	1

### COEFFICIENTS OF UTILIZATION

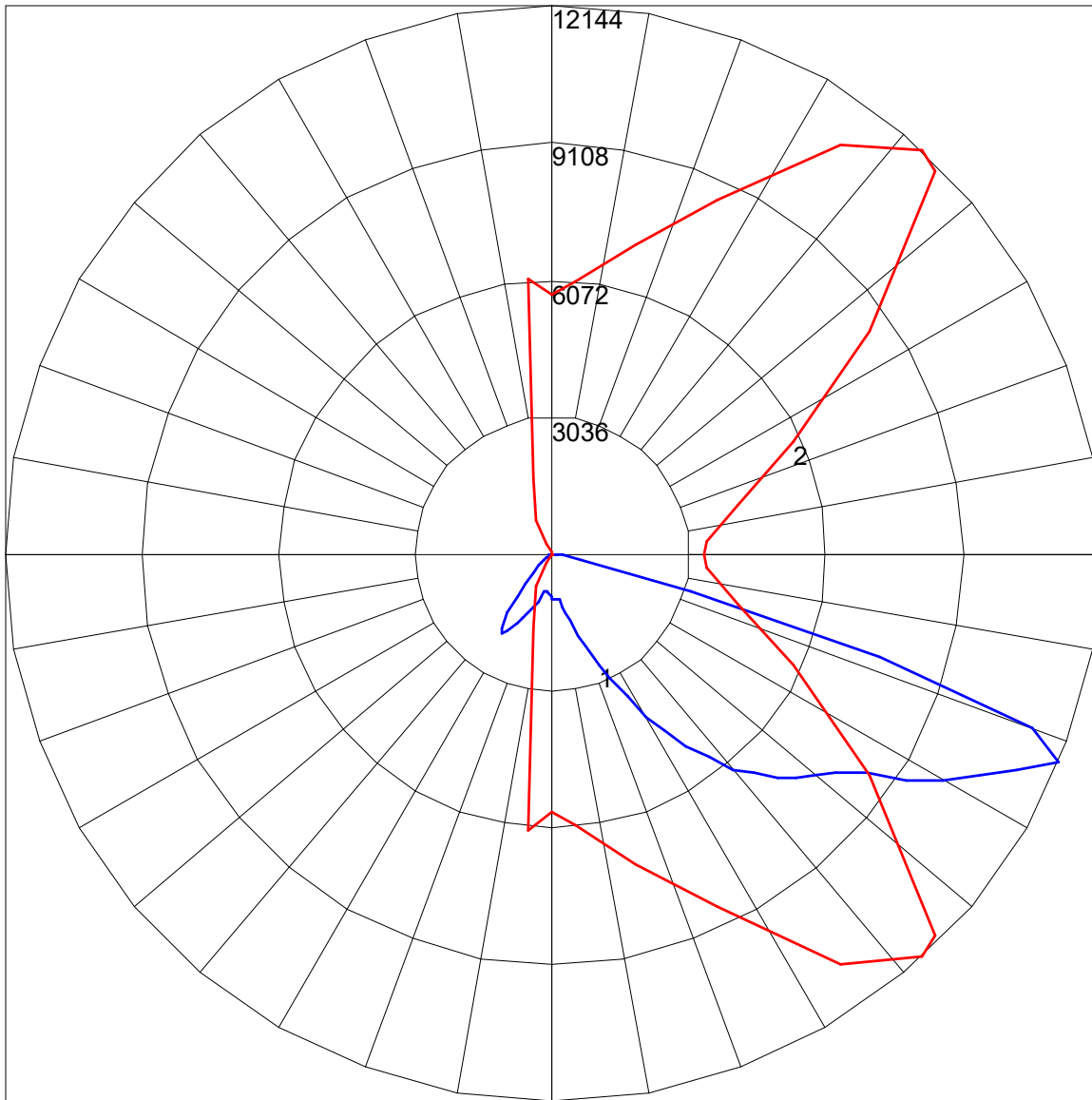


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	13531.6	80.6
Downward House Side	3233.1	19.2
Downward Total	16764.7	99.8
Upward Street Side	12.5	0.1
Upward House Side	19.2	0.1
Upward Total	31.7	0.2
Total Flux	16796.4	100.0

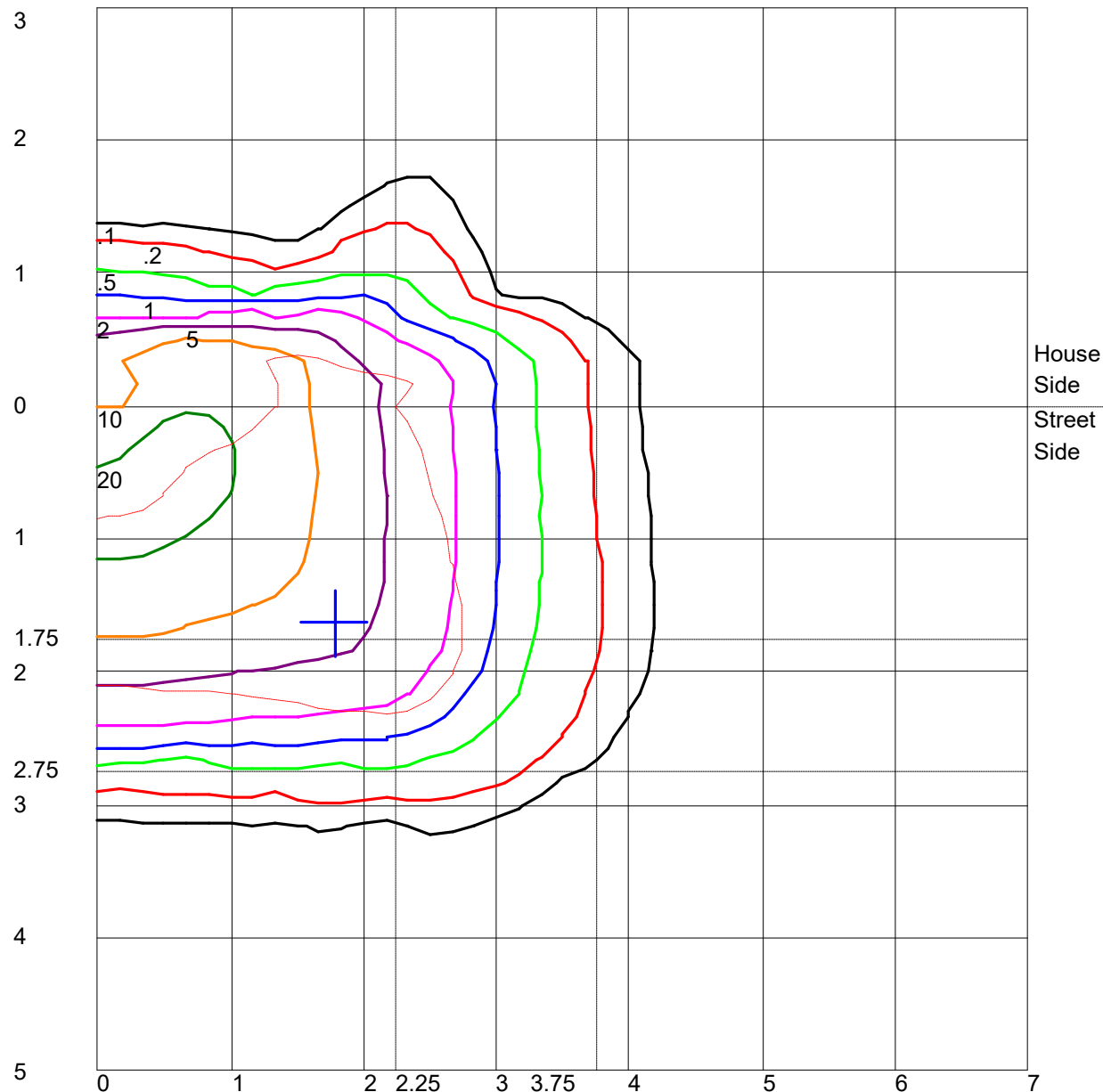


POLAR GRAPH



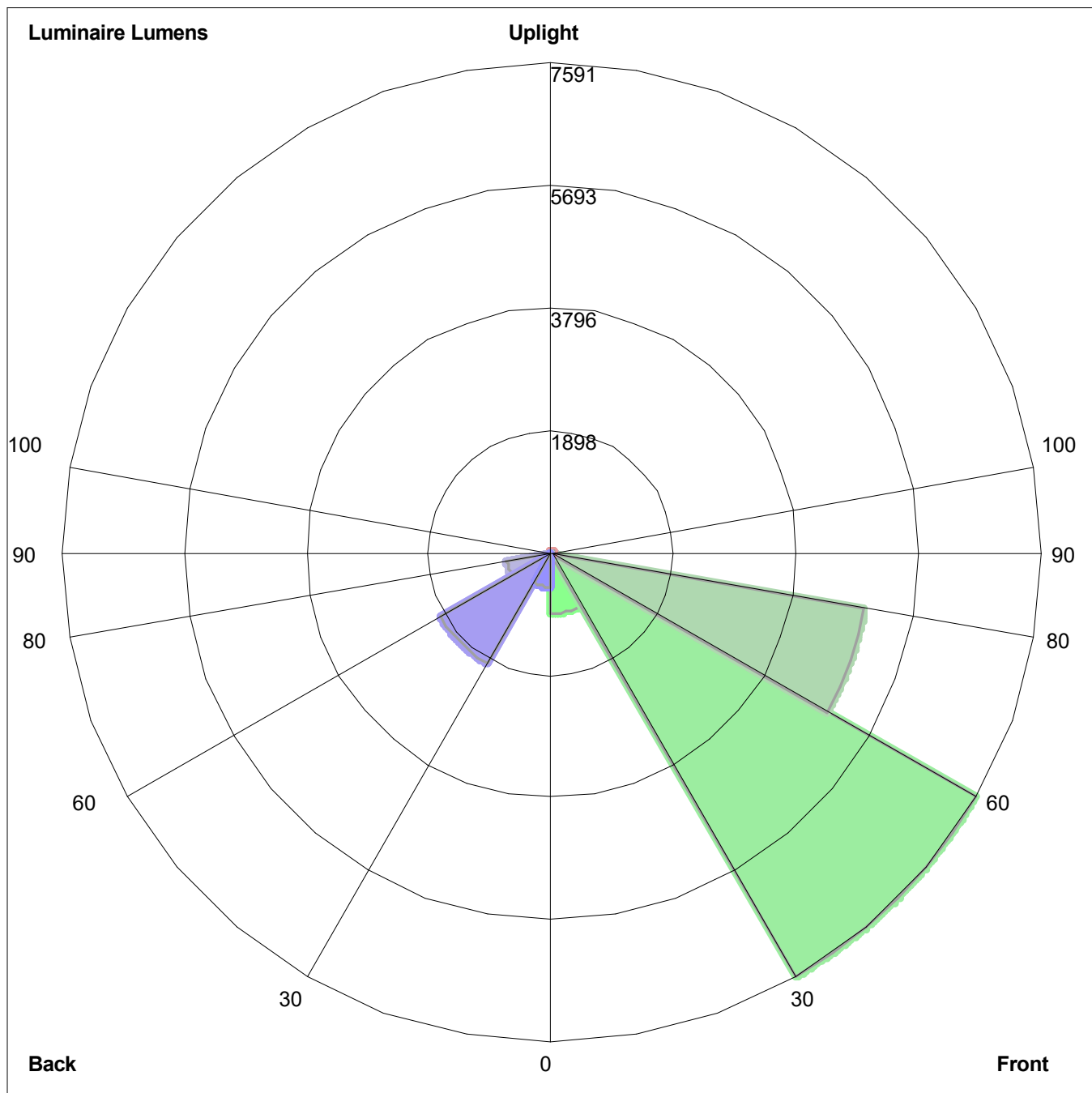
Maximum Candela = 12144 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height  
 Values Based On 10 Foot Mounting Height  
 1/2 Maximum Candela Trace Shown As Dashed Curve  
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=941.7, Medium=7591.2, High=4938.2, Very High=60.5  
Back: Low=534.9, Medium=1983.7, High=703.0, Very High=11.5  
Uplight: Low=8.2, High=23.5

BUG Rating : B2-U2-G2