



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-5W-LED-18L-50-IL  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[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	11907
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8609
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	8609
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	15 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	386 (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)	667.6	N.A.	5.6
FM - Front-Medium (30-60)	5381.3	N.A.	45.2
FH - Front-High (60-80)	3500.7	N.A.	29.4
FVH - Front-Very High (80-90)	42.8	N.A.	0.4
BL - Back-Low (0-30)	379.2	N.A.	3.2
BM - Back-Medium (30-60)	1406.2	N.A.	11.8
BH - Back-High (60-80)	498.3	N.A.	4.2
BVH - Back-Very High (80-90)	8.2	N.A.	0.1
UL - Uplight-Low (90-100)	5.8	N.A.	0.0
UH - Uplight-High (100-180)	16.7	N.A.	0.1
Total	11906.8	N.A.	100.0
BUG Rating	B2-U2-G2		

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**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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	702	702	702	702	702	702	702	702	702	702
2.5	724	719	726	727	727	722	719	722	712	704
5.0	726	732	738	733	755	715	707	710	699	683
7.5	747	763	790	731	741	717	724	721	749	745
10.0	825	824	858	775	809	812	837	818	788	798
12.5	943	993	929	914	951	926	941	925	890	881
15.0	1057	1131	1087	1129	1149	1097	1104	1093	1049	1014
17.5	1210	1253	1237	1287	1319	1348	1350	1270	1241	1208
20.0	1473	1479	1481	1508	1543	1565	1563	1540	1435	1379
22.5	1657	1660	1724	1793	1784	1832	1871	1850	1681	1609
25.0	1902	1848	1965	2068	2147	2140	2151	2166	1992	1814
27.5	2197	2290	2389	2347	2492	2530	2542	2477	2290	2105
30.0	2595	2535	2588	2738	2767	2944	2979	2866	2649	2406
32.5	3104	3111	3001	3017	3230	3303	3306	3325	3086	2738
35.0	3571	3462	3412	3476	3572	3761	3685	3760	3438	3153
37.5	4025	3996	3847	3833	3960	4135	4043	4140	3829	3370
40.0	4297	4354	4260	4256	4373	4443	4444	4461	4196	3728
42.5	4530	4592	4548	4547	4688	4696	4695	4758	4452	3971
45.0	4770	4813	4756	4837	4939	5006	5012	4961	4661	4169
47.5	4958	5016	5017	5043	5150	5204	5211	5163	4865	4389
50.0	5136	5202	5235	5190	5319	5365	5398	5370	5092	4698
52.5	5328	5383	5420	5366	5535	5592	5624	5626	5352	4927
55.0	5493	5558	5653	5641	5779	5962	6022	6008	5705	5264
57.5	5718	5826	5939	5964	6217	6505	6603	6538	5973	5431
60.0	5700	5767	6071	6179	6636	7091	7106	6940	6102	5482
62.5	5187	5274	5718	6110	6892	7570	7564	7274	6163	5441
65.0	4185	4220	4803	5492	6873	8082	8038	7545	6095	5328
67.5	2391	2426	3043	4165	6112	8502	8609	7869	6146	5051
70.0	515	500	770	2035	4330	7611	8028	7405	5224	3792
72.5	218	227	276	466	1697	4929	5403	5142	3376	2276
75.0	131	136	154	206	418	1706	2267	2493	1672	1029
77.5	68	69	81	104	171	336	443	820	771	483
80.0	50	50	52	60	83	128	145	235	386	263
82.5	45	45	47	51	60	72	78	110	198	212
85.0	35	35	37	42	51	61	64	78	108	172
87.5	24	24	25	27	34	41	45	54	79	99
90.0	12	12	12	10	12	12	9	7	10	12
92.5	3	3	2	3	4	4	4	4	4	4
95.0	1	1	1	1	2	4	4	4	4	4
97.5	1	1	1	1	1	2	2	3	3	4
100.0	1	1	1	1	1	2	2	2	2	3
102.5	1	1	1	1	2	2	2	2	2	3
105.0	2	1	1	1	2	2	2	2	2	3
107.5	2	2	1	2	2	2	2	2	2	3
110.0	2	2	2	2	2	2	2	2	2	3
112.5	3	3	2	2	2	2	2	2	3	4
115.0	4	3	3	3	3	3	3	3	3	4
117.5	4	4	4	3	3	3	3	3	3	4
120.0	4	4	4	3	3	4	4	3	4	4
122.5	5	5	4	4	4	4	4	4	4	4
125.0	6	6	5	4	4	4	4	4	4	5
127.5	6	6	6	4	4	4	4	4	4	5
130.0	6	6	6	5	4	4	4	4	4	5

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

132.5	6	6	6	5	4	4	4	4	4	5
135.0	6	6	5	4	4	4	4	4	4	4
137.5	3	3	2	2	2	2	2	2	3	4
140.0	0	1	1	1	1	1	1	1	1	2
142.5	1	1	1	1	1	1	1	1	1	2
145.0	0	0	1	1	1	1	1	1	1	2
147.5	0	0	1	1	1	1	1	1	1	2
150.0	0	0	1	1	1	1	1	1	1	2
152.5	0	0	1	1	1	1	1	1	1	2
155.0	0	1	1	1	1	1	1	1	1	2
157.5	0	1	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
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	702	702	702	702	702	702	702	702	702	702
2.5	700	701	703	697	692	686	686	693	690	681
5.0	678	677	659	652	661	654	638	644	631	620
7.5	703	705	694	694	658	617	585	592	571	581
10.0	742	723	717	734	639	621	594	568	550	560
12.5	829	814	793	742	668	633	607	616	612	630
15.0	922	890	859	778	698	683	693	703	692	678
17.5	1066	1015	959	852	758	773	800	771	737	729
20.0	1235	1187	1107	951	863	886	873	845	819	784
22.5	1469	1346	1262	1091	1008	1024	973	936	860	820
25.0	1637	1541	1425	1207	1208	1169	1098	996	914	781
27.5	1857	1729	1627	1392	1429	1317	1190	1050	845	646
30.0	2149	1946	1836	1628	1681	1530	1361	991	640	444
32.5	2346	2176	2028	1898	1926	1758	1375	750	425	303
35.0	2674	2434	2266	2212	2195	1997	1230	504	285	228
37.5	2948	2721	2534	2536	2457	2072	886	333	216	188
40.0	3155	2939	2737	2863	2746	1872	553	241	179	162
42.5	3369	3149	2945	3102	2959	1468	347	196	154	137
45.0	3625	3398	3202	3382	3042	968	254	163	131	117
47.5	3846	3632	3441	3696	2869	589	196	139	110	92
50.0	4108	3917	3732	4028	2415	381	156	115	89	70
52.5	4396	4207	4045	4361	1770	270	129	93	68	49
55.0	4686	4498	4451	4670	1100	191	106	71	49	33
57.5	4888	4644	4757	4672	740	136	84	51	34	19
60.0	4947	4689	4841	4108	609	108	64	34	19	8
62.5	4886	4629	4833	3180	574	100	45	19	10	4
65.0	4722	4446	4701	2100	578	126	31	10	8	3
67.5	4298	4081	4361	1215	571	182	22	8	7	4
70.0	3078	2936	3153	617	451	236	22	8	8	4
72.5	1768	1676	1759	215	202	233	19	9	6	3
75.0	765	715	741	117	81	94	16	8	2	1
77.5	351	316	303	71	39	45	12	6	1	1

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**CANDELA TABULATION - (Cont.)**

80.0	206	177	145	42	26	23	9	5	0	1
82.5	153	128	93	27	21	16	9	6	0	1
85.0	106	82	50	17	15	14	9	6	0	1
87.5	61	31	14	12	14	13	9	6	0	1
90.0	9	4	9	13	15	14	10	7	1	1
92.5	5	4	9	13	16	15	12	8	1	2
95.0	4	3	7	12	14	14	10	6	1	2
97.5	4	3	6	9	12	12	8	5	1	1
100.0	3	4	5	6	9	8	6	5	2	1
102.5	3	4	5	6	6	6	6	4	2	1
105.0	3	4	4	5	6	6	6	4	2	1
107.5	4	4	4	5	6	6	5	4	3	2
110.0	4	4	4	5	6	6	5	4	3	2
112.5	4	4	4	5	6	6	5	4	3	2
115.0	4	4	5	6	6	6	5	4	3	2
117.5	4	5	5	6	6	6	5	4	4	2
120.0	4	5	5	6	6	6	6	4	4	3
122.5	4	5	6	6	6	6	6	5	4	3
125.0	5	6	6	6	6	6	6	5	4	4
127.5	6	6	6	6	6	6	6	5	5	4
130.0	6	6	6	6	6	6	6	5	5	4
132.5	6	6	6	6	6	6	6	5	5	4
135.0	5	5	6	6	6	6	6	5	4	4
137.5	4	4	4	4	5	5	4	4	3	2
140.0	3	3	3	4	4	4	4	3	2	1
142.5	2	3	3	4	4	4	3	3	2	1
145.0	2	3	3	3	3	4	3	2	1	1
147.5	2	3	3	3	3	4	3	2	1	1
150.0	2	3	3	3	3	4	3	2	1	1
152.5	2	3	3	3	3	3	3	2	1	1
155.0	2	2	3	3	3	3	3	2	1	1
157.5	2	2	2	3	3	3	2	2	1	1
160.0	1	2	2	2	2	3	2	1	1	0
162.5	1	2	2	2	2	2	2	1	1	0
165.0	1	2	2	2	2	2	2	1	1	0
167.5	1	1	1	2	2	2	1	1	1	0
170.0	1	1	1	1	2	2	1	1	1	0
172.5	1	1	1	1	1	2	1	1	1	0
175.0	1	1	1	1	1	1	1	1	0	0
177.5	1	1	1	1	1	1	1	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	702	702
2.5	668	668
5.0	607	601
7.5	569	558
10.0	571	548
12.5	638	613
15.0	692	663
17.5	735	697
20.0	784	744
22.5	779	752
25.0	708	699

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-50-IL.IES**

**CANDELA TABULATION - (Cont.)**

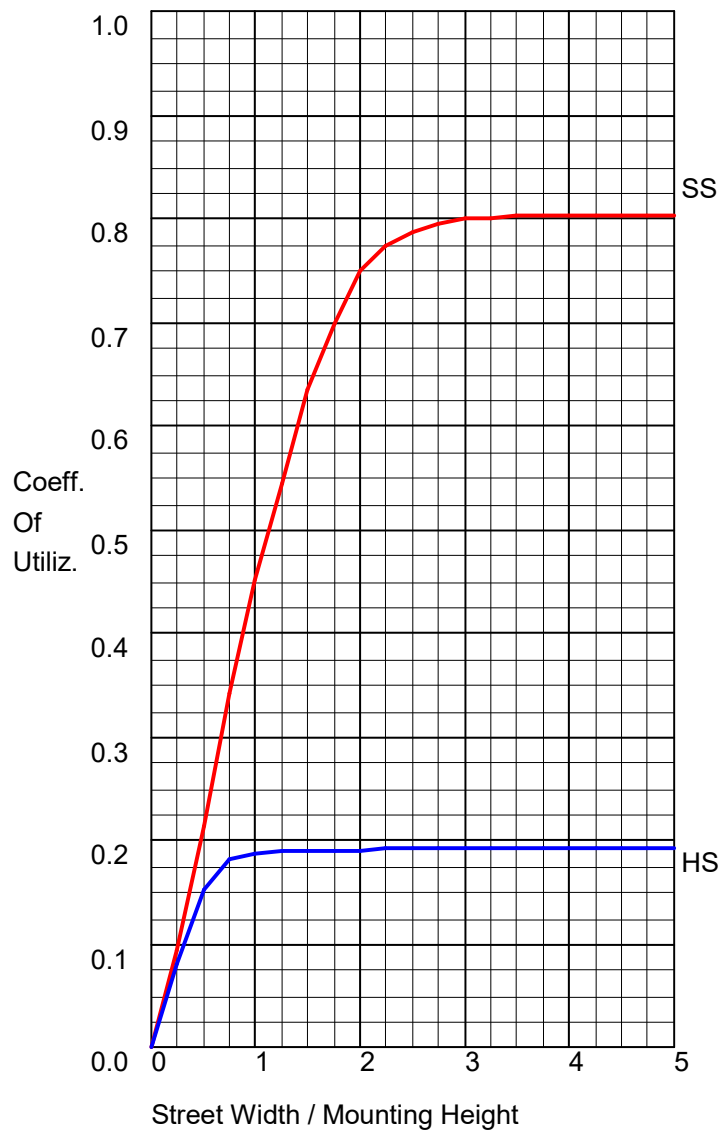
27.5	551	536
30.0	376	354
32.5	263	256
35.0	211	210
37.5	179	179
40.0	154	154
42.5	131	131
45.0	108	108
47.5	86	85
50.0	64	63
52.5	43	43
55.0	27	25
57.5	13	12
60.0	4	4
62.5	1	1
65.0	1	0
67.5	1	1
70.0	3	3
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	3
122.5	3	3
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	4	4
137.5	2	2
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

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**PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-50-IL.IES**

**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

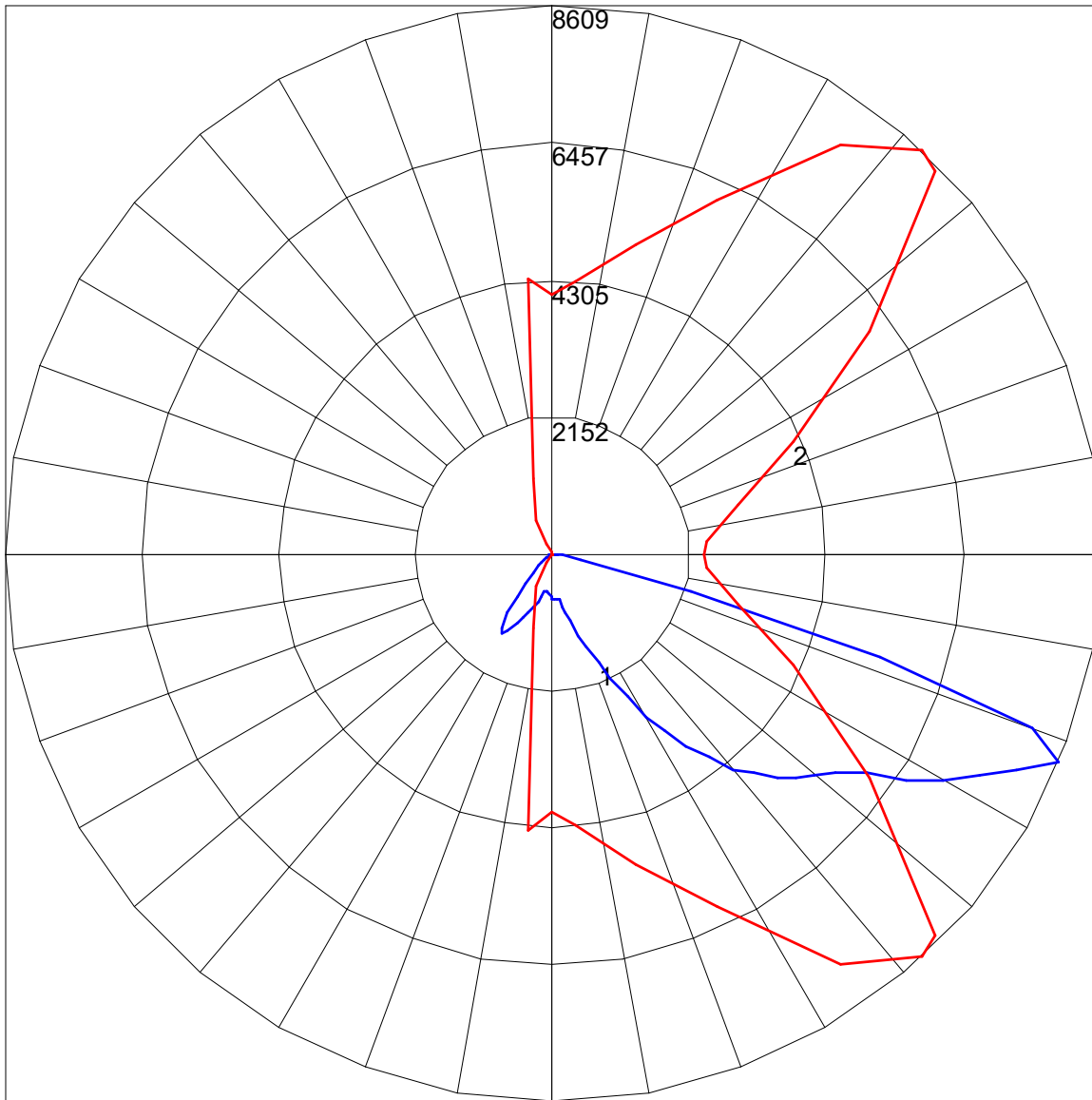


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	9592.4	80.6
Downward House Side	2291.9	19.2
Downward Total	11884.3	99.8
Upward Street Side	8.9	0.1
Upward House Side	13.6	0.1
Upward Total	22.5	0.2
Total Flux	11906.8	100.0

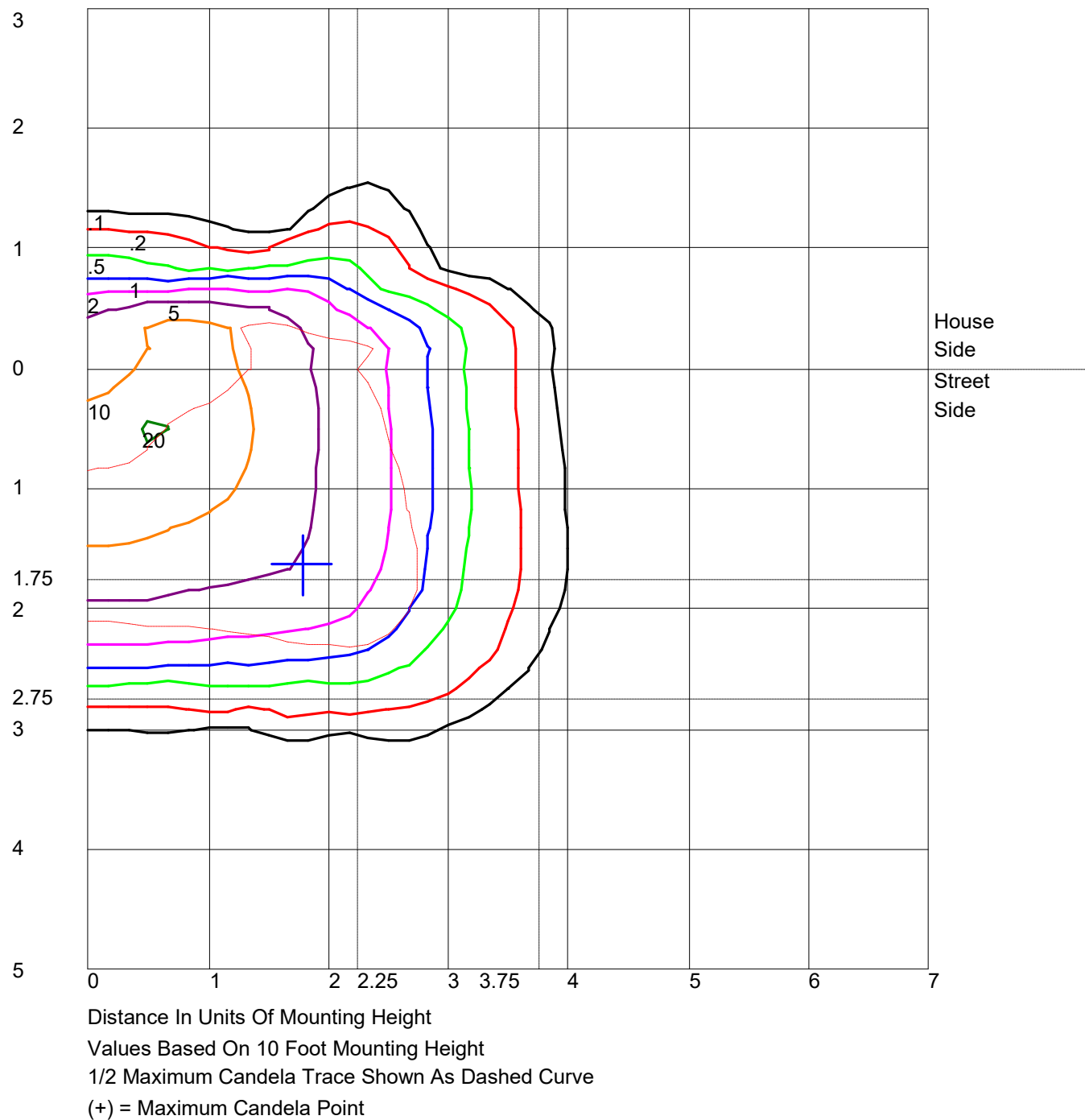


POLAR GRAPH

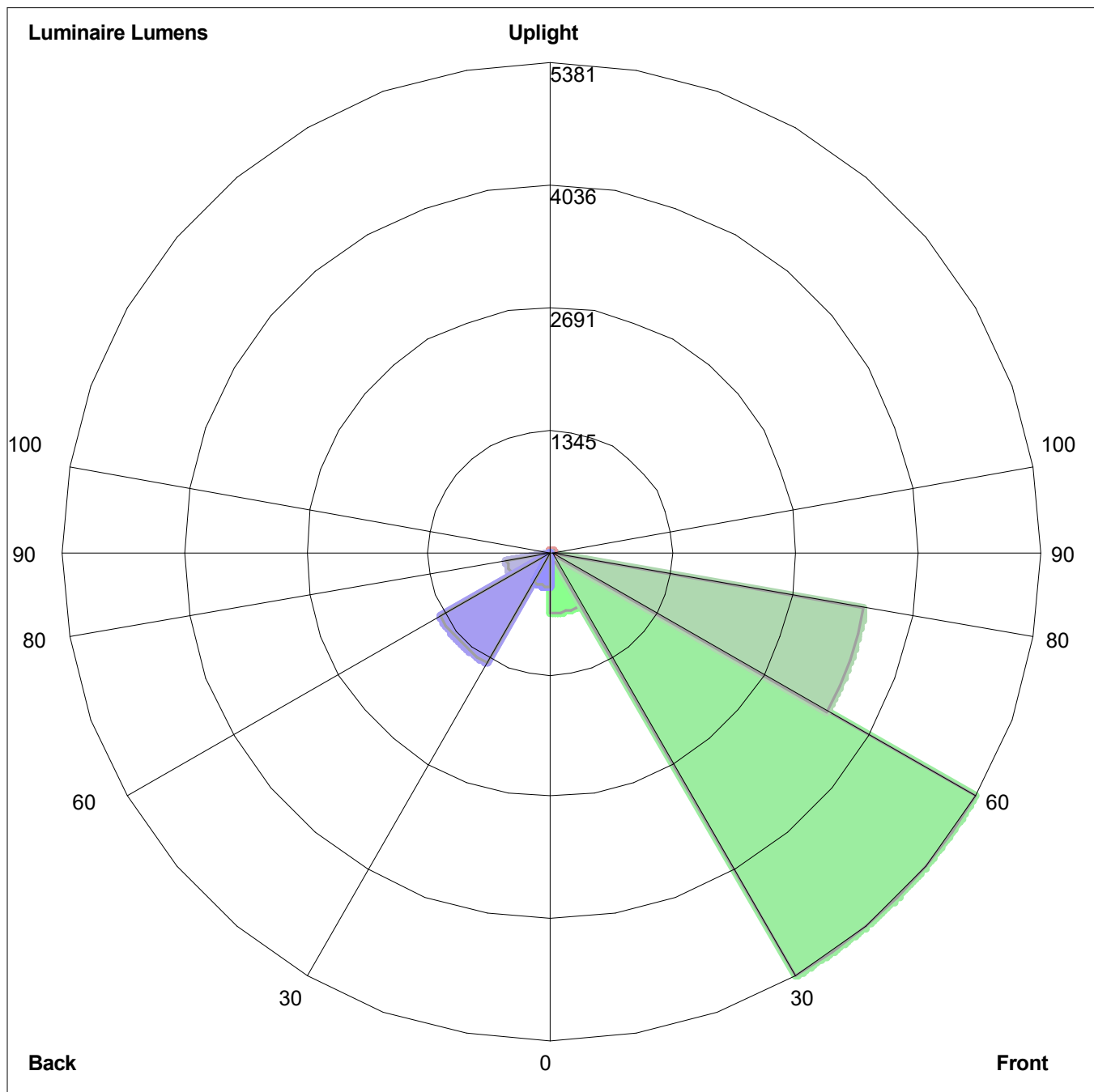


Maximum Candela = 8609 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=667.6, Medium=5381.3, High=3500.7, Very High=42.8  
Back: Low=379.2, Medium=1406.2, High=498.3, Very High=8.2  
Uplight: Low=5.8, High=16.7

BUG Rating : B2-U2-G2