



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-40-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.
[LUMEN CATEGORY] LXM4-PT-5W-LED-18L-40-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	11345
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8202
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	8202
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	14 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	368 (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)	636.0	N.A.	5.6
FM - Front-Medium (30-60)	5127.0	N.A.	45.2
FH - Front-High (60-80)	3335.2	N.A.	29.4
FVH - Front-Very High (80-90)	40.8	N.A.	0.4
BL - Back-Low (0-30)	361.3	N.A.	3.2
BM - Back-Medium (30-60)	1339.8	N.A.	11.8
BH - Back-High (60-80)	474.9	N.A.	4.2
BVH - Back-Very High (80-90)	7.8	N.A.	0.1
UL - Uplight-Low (90-100)	5.6	N.A.	0.0
UH - Uplight-High (100-180)	16.7	N.A.	0.1
Total	11345.1	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	669	669	669	669	669	669	669	669	669	669
2.5	690	685	692	693	693	688	685	688	678	671
5.0	692	697	703	698	719	681	674	676	666	651
7.5	712	727	753	696	706	683	690	687	714	710
10.0	786	785	817	738	771	774	797	779	751	760
12.5	898	946	885	871	906	882	897	881	848	839
15.0	1007	1078	1036	1076	1095	1045	1052	1041	999	966
17.5	1153	1194	1179	1226	1257	1284	1286	1210	1182	1151
20.0	1403	1409	1411	1437	1470	1491	1489	1467	1367	1314
22.5	1579	1582	1643	1708	1700	1745	1783	1763	1602	1533
25.0	1812	1761	1872	1970	2046	2039	2049	2064	1898	1728
27.5	2093	2182	2276	2236	2374	2410	2422	2360	2182	2006
30.0	2472	2415	2466	2609	2636	2805	2838	2731	2524	2292
32.5	2957	2964	2859	2874	3077	3147	3150	3168	2940	2609
35.0	3402	3298	3251	3312	3403	3583	3511	3582	3276	3004
37.5	3835	3807	3665	3652	3773	3940	3852	3944	3648	3211
40.0	4094	4148	4059	4055	4166	4233	4234	4250	3998	3552
42.5	4316	4375	4333	4332	4466	4474	4473	4533	4242	3783
45.0	4545	4586	4531	4608	4706	4769	4775	4727	4441	3972
47.5	4724	4779	4780	4805	4907	4958	4965	4919	4635	4182
50.0	4893	4956	4988	4945	5068	5111	5143	5116	4851	4476
52.5	5076	5129	5164	5112	5273	5328	5358	5360	5099	4694
55.0	5233	5295	5386	5374	5506	5680	5737	5724	5435	5015
57.5	5448	5551	5658	5682	5923	6198	6291	6229	5691	5174
60.0	5431	5494	5784	5887	6322	6756	6770	6612	5814	5223
62.5	4942	5025	5448	5821	6566	7212	7207	6930	5872	5184
65.0	3987	4021	4576	5232	6548	7700	7658	7188	5807	5076
67.5	2278	2311	2899	3968	5823	8100	8202	7497	5856	4812
70.0	491	476	734	1939	4125	7251	7649	7055	4977	3613
72.5	208	216	263	444	1617	4696	5148	4899	3216	2168
75.0	125	130	147	196	398	1625	2160	2375	1593	980
77.5	65	66	77	99	163	320	422	781	735	460
80.0	48	48	50	57	79	122	138	224	368	251
82.5	43	43	45	49	57	69	74	105	189	202
85.0	33	33	35	40	49	58	61	74	103	164
87.5	23	23	24	26	32	39	43	51	75	94
90.0	11	11	11	10	11	11	9	7	10	11
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

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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	669	669	669	669	669	669	669	669	669	669
2.5	667	668	670	664	659	654	654	660	657	649
5.0	646	645	628	621	630	623	608	614	601	591
7.5	670	672	661	661	627	588	557	564	544	554
10.0	707	689	683	699	609	592	566	541	524	534
12.5	790	776	756	707	636	603	578	587	583	600
15.0	878	848	818	741	665	651	660	670	659	646
17.5	1016	967	914	812	722	736	762	735	702	695
20.0	1177	1131	1055	906	822	844	832	805	780	747
22.5	1400	1282	1202	1039	960	976	927	892	819	781
25.0	1560	1468	1358	1150	1151	1114	1046	949	871	744
27.5	1769	1647	1550	1326	1361	1255	1134	1000	805	615
30.0	2047	1854	1749	1551	1602	1458	1297	944	610	423
32.5	2235	2073	1932	1808	1835	1675	1310	715	405	289
35.0	2548	2319	2159	2107	2091	1903	1172	480	272	217
37.5	2809	2592	2414	2416	2341	1974	844	317	206	179
40.0	3006	2800	2608	2728	2616	1784	527	230	171	154
42.5	3210	3000	2806	2955	2819	1399	331	187	147	131
45.0	3454	3237	3051	3222	2898	922	242	155	125	111
47.5	3664	3460	3278	3521	2733	561	187	132	105	88
50.0	3914	3732	3556	3838	2301	363	149	110	85	67
52.5	4188	4008	3854	4155	1686	257	123	89	65	47
55.0	4465	4285	4241	4449	1048	182	101	68	47	31
57.5	4657	4425	4532	4451	705	130	80	49	32	18
60.0	4713	4467	4612	3914	580	103	61	32	18	8
62.5	4655	4410	4605	3030	547	95	43	18	10	4
65.0	4499	4236	4479	2001	551	120	30	10	8	3
67.5	4095	3888	4155	1158	544	173	21	8	7	4
70.0	2933	2797	3004	588	430	225	21	8	8	4
72.5	1684	1597	1676	205	192	222	18	9	6	3
75.0	729	681	706	111	77	90	15	8	2	1
77.5	334	301	289	68	37	43	11	6	1	1

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CANDELA TABULATION - (Cont.)

80.0	196	169	138	40	25	22	9	5	0	1
82.5	146	122	89	26	20	15	9	6	0	1
85.0	101	78	48	16	14	13	9	6	0	1
87.5	58	30	13	11	13	12	9	6	0	1
90.0	9	4	9	12	14	13	10	7	1	1
92.5	5	4	9	12	15	14	11	8	1	2
95.0	4	3	7	11	13	13	10	6	1	2
97.5	4	3	6	9	11	11	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	669	669
2.5	636	636
5.0	578	573
7.5	542	532
10.0	544	522
12.5	608	584
15.0	659	632
17.5	700	664
20.0	747	709
22.5	742	716
25.0	675	666

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CANDELA TABULATION - (Cont.)

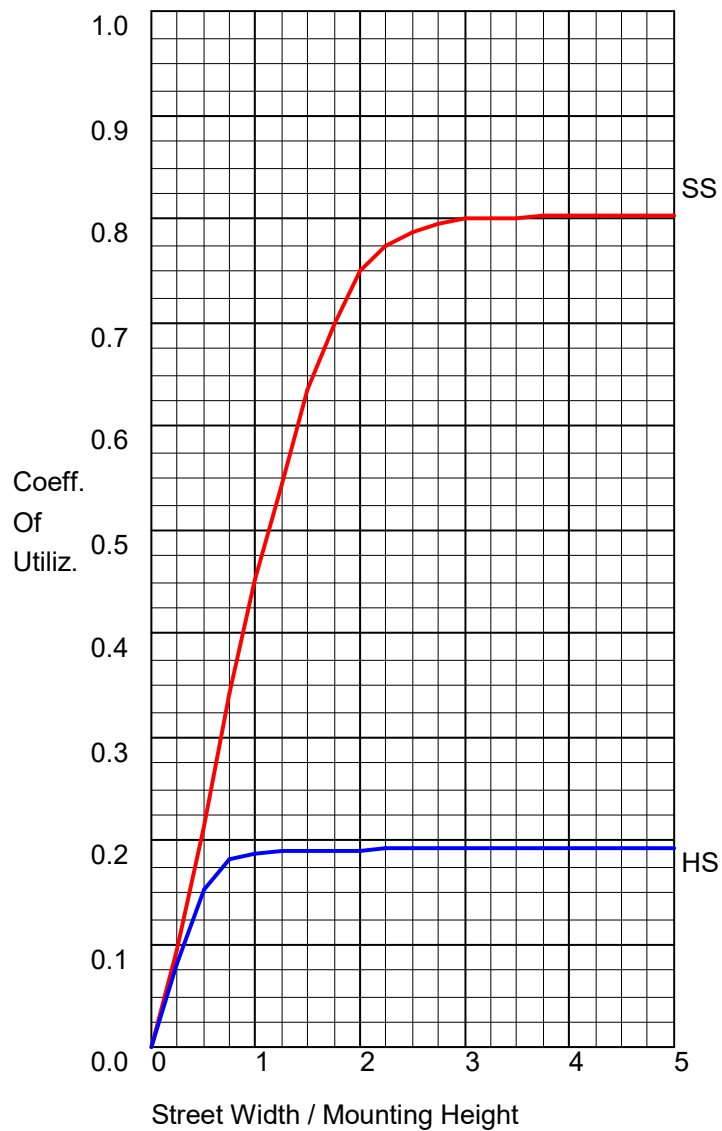
27.5	525	511
30.0	358	337
32.5	251	244
35.0	201	200
37.5	171	171
40.0	147	147
42.5	125	125
45.0	103	103
47.5	82	81
50.0	61	60
52.5	41	41
55.0	26	24
57.5	12	11
60.0	4	4
62.5	1	1
65.0	1	0
67.5	1	1
70.0	3	3
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	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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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

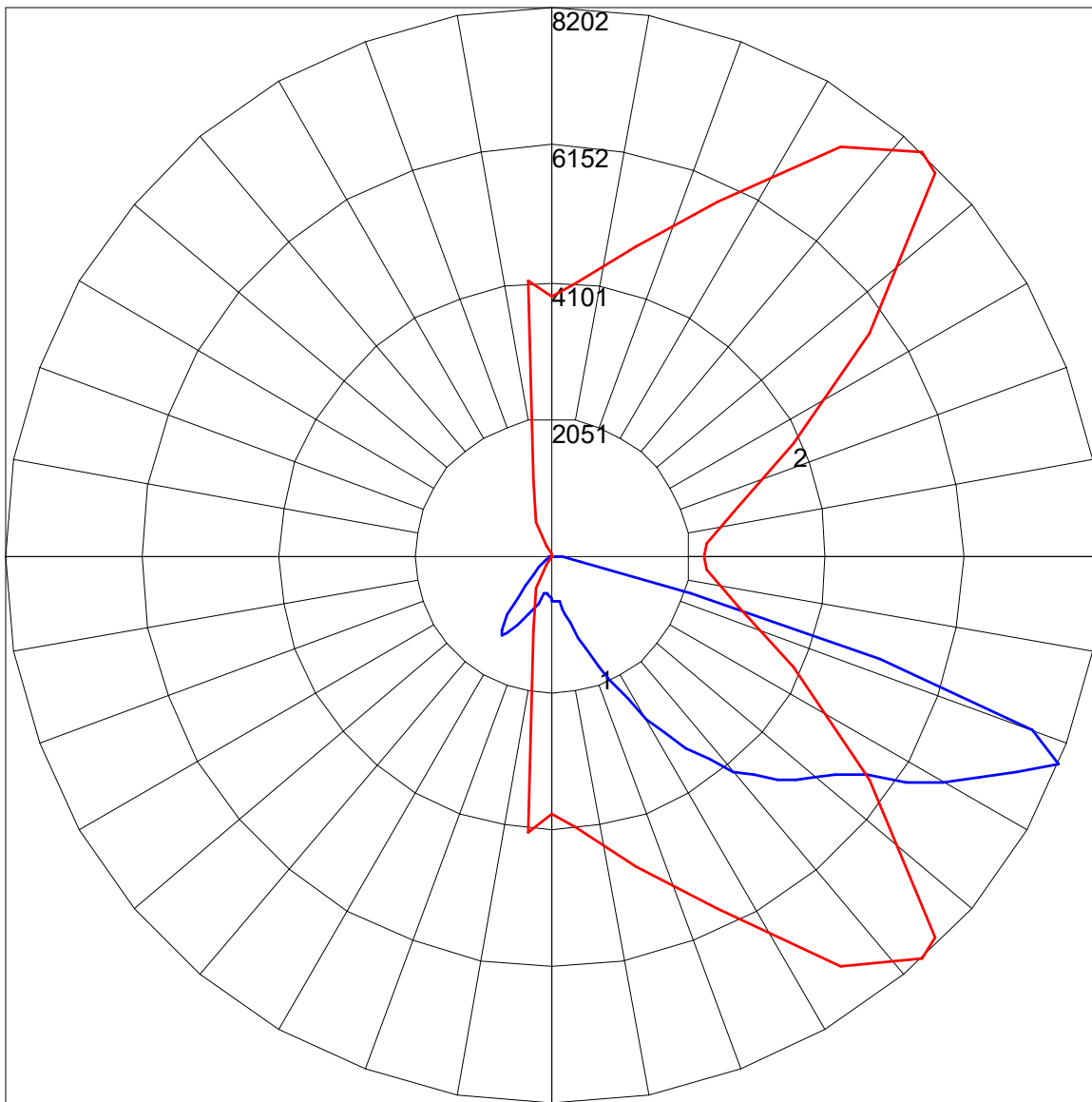
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

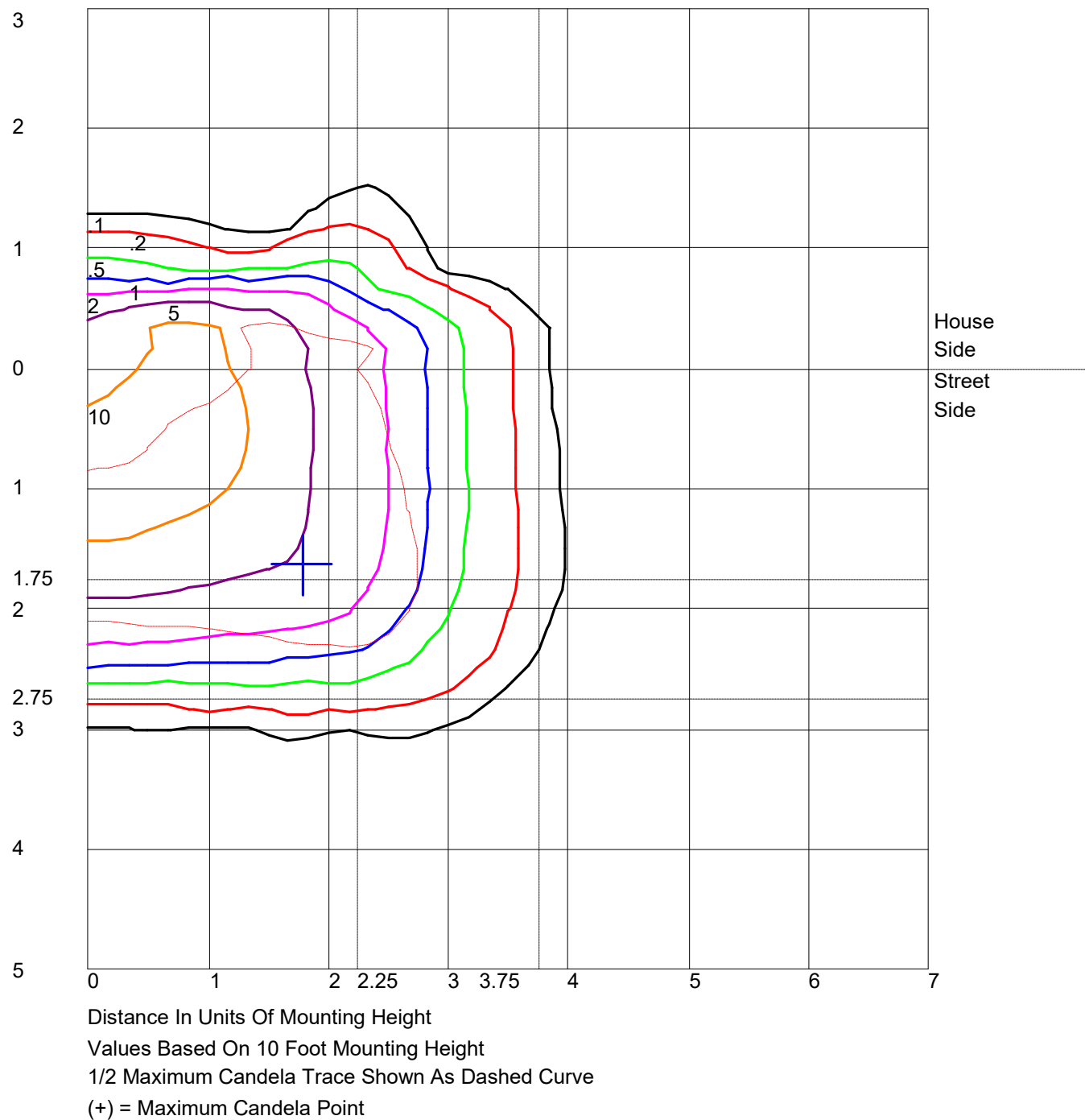
	Lumens	Percent Of Luminaire
Downward Street Side	9139.0	80.6
Downward House Side	2183.8	19.2
Downward Total	11322.8	99.8
Upward Street Side	8.9	0.1
Upward House Side	13.5	0.1
Upward Total	22.4	0.2
Total Flux	11345.2	100.0

POLAR GRAPH

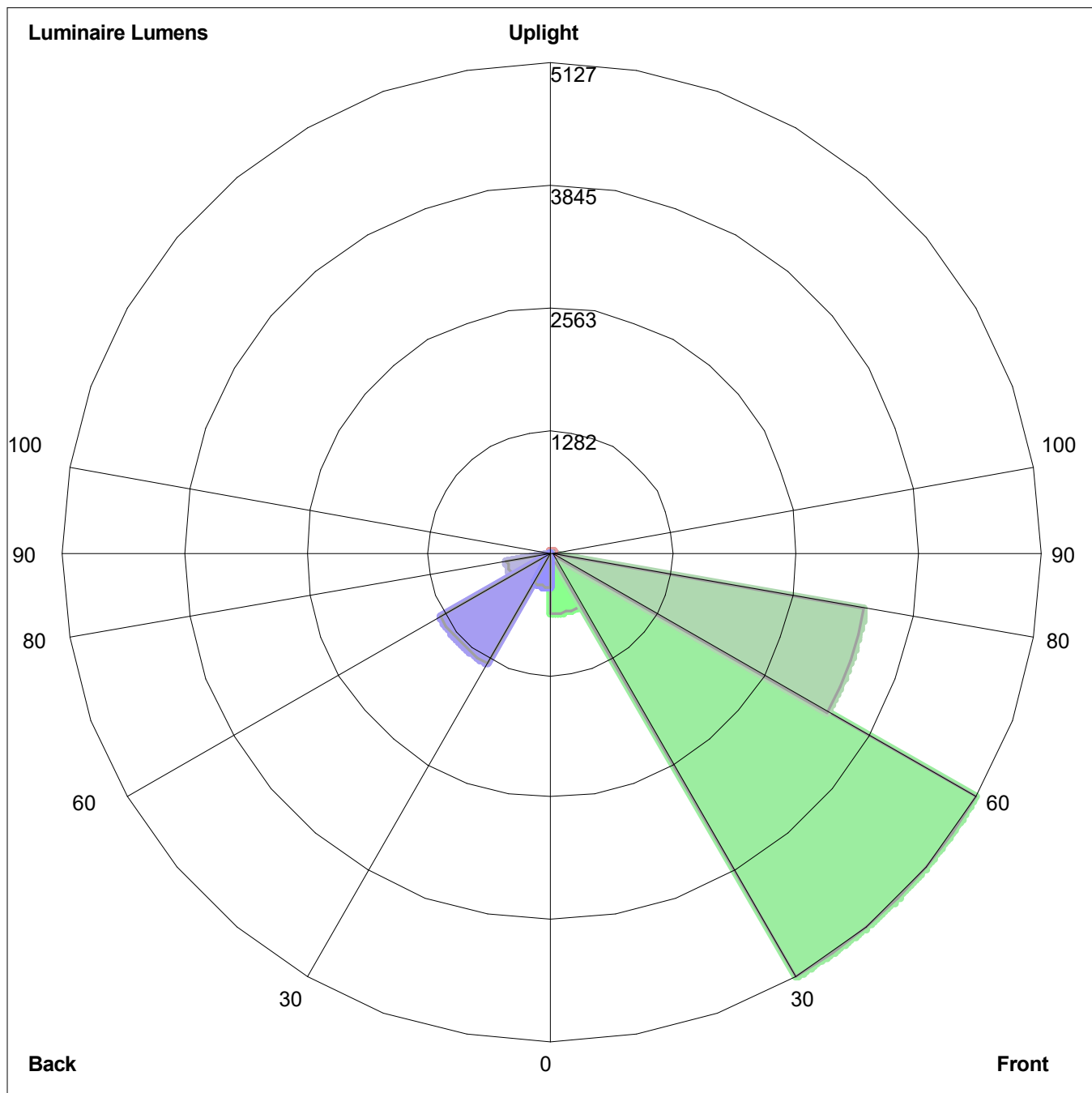


Maximum Candela = 8202 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=636.0, Medium= 5127.0, High=3335.2, Very High=40.8
Back: Low=361.3, Medium=1339.8, High=474.9, Very High=7.8
Uplight: Low=5.6, High=16.7

BUG Rating : B2-U2-G2