



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11677
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/02/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-LED-10L-30
[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	9361
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9189
Maximum Candela Angle	57.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	9189
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 67.5V
Maximum Candela At 90 Degrees Vertical	42 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	790 (8.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	272.8	N.A.	2.9
FM - Front-Medium (30-60)	3835.9	N.A.	41.0
FH - Front-High (60-80)	3237.3	N.A.	34.6
FVH - Front-Very High (80-90)	79.2	N.A.	0.8
BL - Back-Low (0-30)	271.9	N.A.	2.9
BM - Back-Medium (30-60)	1076.1	N.A.	11.5
BH - Back-High (60-80)	512.2	N.A.	5.5
BVH - Back-Very High (80-90)	49.3	N.A.	0.5
UL - Uplight-Low (90-100)	8.6	N.A.	0.1
UH - Uplight-High (100-180)	18.1	N.A.	0.2
Total	9361.4	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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	463	463	463	463	463	463	463	463	463	463
2.5	450	452	449	445	447	449	457	458	459	456
5.0	402	405	413	421	431	419	419	418	418	423
7.5	384	390	403	393	391	391	404	414	434	431
10.0	387	385	385	380	389	413	423	425	428	435
12.5	400	401	401	388	406	418	431	433	443	454
15.0	422	423	424	430	443	439	456	463	472	482
17.5	455	454	448	458	468	485	482	491	499	517
20.0	531	526	515	511	521	532	546	548	548	557
22.5	595	605	609	622	615	619	643	638	616	623
25.0	731	714	734	757	764	759	788	776	750	720
27.5	961	971	973	951	955	996	978	952	956	884
30.0	1258	1228	1205	1239	1211	1265	1238	1216	1179	1057
32.5	1620	1614	1506	1494	1544	1571	1552	1533	1457	1304
35.0	1893	1900	1842	1818	1848	1929	1872	1850	1727	1513
37.5	2250	2230	2168	2163	2195	2258	2183	2167	1975	1701
40.0	2560	2553	2533	2548	2553	2579	2466	2440	2190	1874
42.5	2897	2892	2892	2899	2913	2880	2763	2689	2399	1995
45.0	3343	3362	3356	3356	3310	3250	3010	2934	2578	2106
47.5	4005	3980	3980	3979	3795	3614	3263	3191	2756	2232
50.0	4755	4726	4764	4731	4436	4031	3563	3449	2980	2391
52.5	5529	5497	5559	5529	5218	4572	3928	3766	3256	2600
55.0	6106	6124	6258	6286	6033	5233	4400	4232	3647	2916
57.5	6200	6233	6550	6869	6953	6049	5082	4890	4205	3477
60.0	5521	5595	6221	6794	7512	7018	6036	5839	5056	4198
62.5	3662	3764	4510	5685	7250	7799	7306	7092	6143	4987
65.0	1867	1918	2292	3521	6161	7887	8570	8439	7135	5517
67.5	878	872	1056	1756	3907	6949	9085	9189	7696	5479
70.0	469	493	608	935	1998	5069	8245	8505	7376	4321
72.5	266	284	376	612	1160	2612	5816	6355	5209	2531
75.0	188	195	253	431	786	1386	3013	3413	2774	1051
77.5	138	144	196	359	587	814	1483	1670	1184	433
80.0	100	106	151	292	470	509	683	790	604	216
82.5	69	73	115	209	348	329	291	323	287	129
85.0	51	53	86	160	202	190	138	147	139	81
87.5	43	45	63	116	123	72	47	49	53	41
90.0	23	26	33	39	42	18	13	13	11	10
92.5	7	7	10	9	5	5	6	6	6	5
95.0	4	4	4	3	3	4	5	5	5	5
97.5	4	4	3	3	3	4	5	5	5	5
100.0	3	3	3	3	3	3	4	4	4	4
102.5	3	3	2	3	3	3	3	3	3	4
105.0	2	2	2	3	3	3	3	3	3	4
107.5	2	2	2	3	3	3	3	3	3	4
110.0	3	3	3	3	3	3	3	3	3	4
112.5	3	3	3	3	3	3	3	3	3	4
115.0	3	3	3	3	3	4	3	3	3	4
117.5	3	3	3	3	3	4	3	3	3	4
120.0	3	3	3	3	4	4	3	3	4	4
122.5	4	4	4	4	4	4	3	3	4	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	4	4	4	4	4
130.0	4	4	4	4	4	4	4	4	4	4

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CANDELA TABULATION - (Cont.)

132.5	4	4	4	4	4	4	4	4	4	4
135.0	4	4	4	3	4	4	4	4	4	4
137.5	2	2	2	3	3	3	3	3	3	4
140.0	1	1	1	2	2	2	2	2	2	3
142.5	1	1	1	2	2	2	2	2	2	2
145.0	1	1	1	2	2	2	2	2	2	2
147.5	1	1	1	2	2	2	2	2	2	2
150.0	1	1	1	1	1	2	2	2	2	2
152.5	1	1	1	1	1	1	2	2	2	2
155.0	1	1	1	1	1	1	1	2	2	2
157.5	0	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	0	0	1	1	1	2	2	1	2	2
172.5	1	0	1	1	2	2	2	2	2	2
175.0	0	1	1	2	2	2	2	2	2	2
177.5	0	0	1	1	2	2	2	2	2	2
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	463	463	463	463	463	463	463	463	463	463
2.5	462	466	467	466	469	473	480	484	478	470
5.0	427	428	430	449	462	469	483	486	487	477
7.5	442	443	452	479	472	463	454	473	466	483
10.0	441	444	454	476	466	485	484	487	487	502
12.5	466	472	489	493	492	492	508	545	547	575
15.0	491	498	503	504	499	535	560	600	613	606
17.5	520	518	526	534	526	591	634	647	646	648
20.0	561	558	562	539	560	630	652	683	695	692
22.5	624	609	613	590	629	678	707	713	710	725
25.0	717	692	681	624	711	738	721	732	742	758
27.5	831	779	764	693	770	778	755	767	786	800
30.0	965	898	851	754	807	842	801	801	815	832
32.5	1093	1011	929	812	851	898	871	847	873	929
35.0	1255	1129	1013	863	867	935	921	905	954	1024
37.5	1377	1229	1070	884	876	955	943	970	1018	1142
40.0	1467	1273	1084	893	875	961	951	985	1109	1183
42.5	1530	1306	1085	862	843	948	936	991	1209	1164
45.0	1603	1342	1089	831	802	909	914	969	1322	1065
47.5	1686	1389	1102	802	763	864	886	944	1349	1011
50.0	1798	1470	1140	787	727	826	856	924	1336	994
52.5	1970	1584	1206	783	692	792	822	891	1273	983
55.0	2178	1761	1328	794	664	754	784	845	1166	972
57.5	2543	2020	1485	805	632	708	740	780	1015	931
60.0	3089	2337	1529	782	593	649	689	698	835	914
62.5	3691	2551	1415	701	547	581	622	616	666	894
65.0	3913	2506	1105	591	499	520	541	554	530	865
67.5	3471	2213	815	484	444	457	480	502	453	811
70.0	2325	1487	515	390	380	390	419	458	413	684
72.5	1083	672	301	304	309	324	354	405	364	508
75.0	402	287	192	237	258	275	294	320	253	325
77.5	190	139	139	194	217	234	216	200	167	224

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CANDELA TABULATION - (Cont.)

80.0	108	89	114	166	186	167	134	155	120	159
82.5	73	62	94	141	137	109	103	118	76	113
85.0	46	42	75	110	88	78	73	60	35	70
87.5	22	22	53	73	52	42	30	26	15	33
90.0	7	5	20	29	22	19	14	8	4	5
92.5	5	5	10	16	19	17	13	6	2	1
95.0	5	5	9	14	18	16	12	6	2	1
97.5	4	5	7	13	15	14	10	6	2	1
100.0	4	5	6	10	13	12	9	5	2	1
102.5	4	5	5	8	10	10	7	5	2	1
105.0	4	5	5	7	9	8	7	5	3	2
107.5	4	5	5	6	7	7	6	5	3	2
110.0	4	5	5	5	6	7	6	5	3	2
112.5	4	5	5	5	6	6	6	5	3	2
115.0	4	5	5	5	6	6	6	5	4	3
117.5	5	5	5	5	6	6	6	5	4	3
120.0	5	5	5	6	7	7	6	5	4	3
122.5	5	5	5	6	7	7	6	5	4	3
125.0	5	5	5	6	7	7	6	5	4	3
127.5	5	5	5	6	7	7	6	5	5	4
130.0	5	5	5	5	6	6	6	5	4	3
132.5	5	5	5	5	6	6	6	5	4	4
135.0	5	5	5	5	5	5	5	5	4	3
137.5	4	4	5	5	5	5	5	4	3	2
140.0	3	4	4	4	5	5	4	3	2	1
142.5	3	3	4	4	4	4	3	3	1	0
145.0	3	3	3	4	4	4	3	2	1	0
147.5	3	3	3	4	4	4	3	2	1	0
150.0	3	3	3	4	4	3	3	2	1	0
152.5	3	3	3	3	4	3	3	2	1	0
155.0	3	3	3	3	3	3	2	1	0	0
157.5	2	3	3	3	3	3	2	1	0	0
160.0	2	3	3	3	3	3	2	1	0	0
162.5	2	2	3	3	3	3	2	1	0	0
165.0	2	2	3	3	3	3	2	1	0	0
167.5	2	2	2	3	3	2	2	1	0	0
170.0	2	2	3	3	3	2	2	1	0	0
172.5	2	2	2	3	3	2	2	1	0	0
175.0	2	2	2	3	3	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	463	463
2.5	472	473
5.0	474	481
7.5	485	493
10.0	516	521
12.5	575	583
15.0	626	645
17.5	672	678
20.0	711	715
22.5	720	745
25.0	765	782

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CANDELA TABULATION - (Cont.)

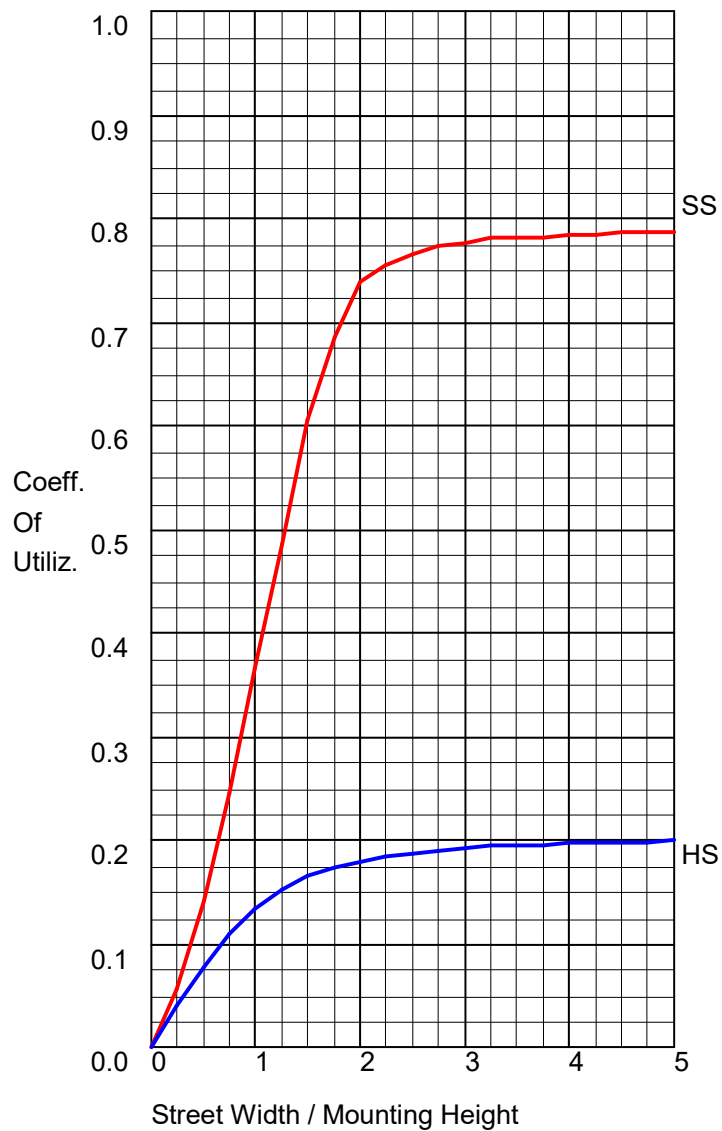
27.5	801	816
30.0	850	873
32.5	954	965
35.0	1083	1091
37.5	1161	1159
40.0	1090	1073
42.5	941	921
45.0	857	835
47.5	807	786
50.0	772	742
52.5	737	702
55.0	682	641
57.5	628	575
60.0	612	535
62.5	619	508
65.0	664	521
67.5	743	588
70.0	801	705
72.5	753	754
75.0	623	730
77.5	522	629
80.0	395	467
82.5	273	316
85.0	192	213
87.5	126	165
90.0	8	2
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	1	0
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	1
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	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

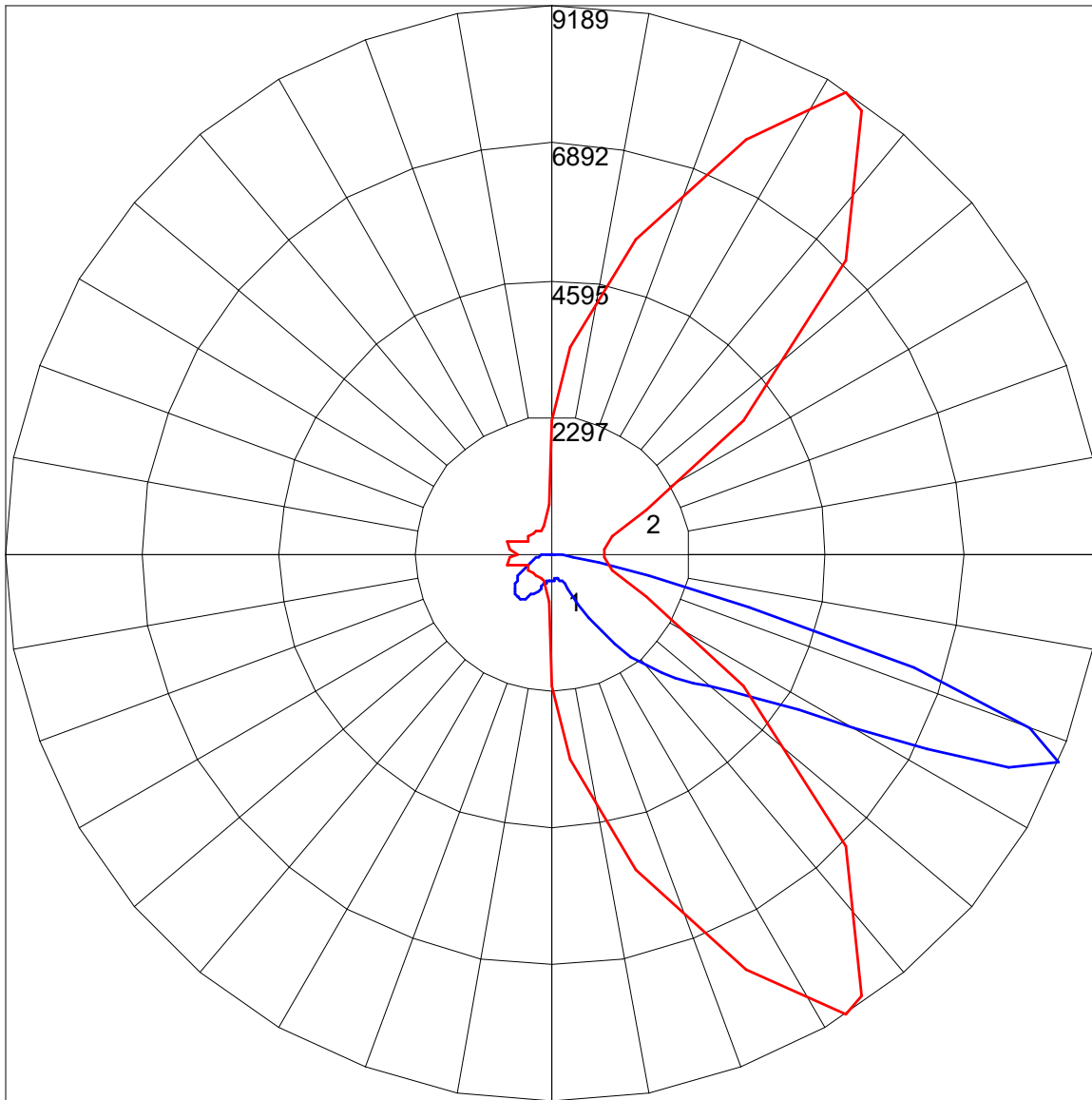
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

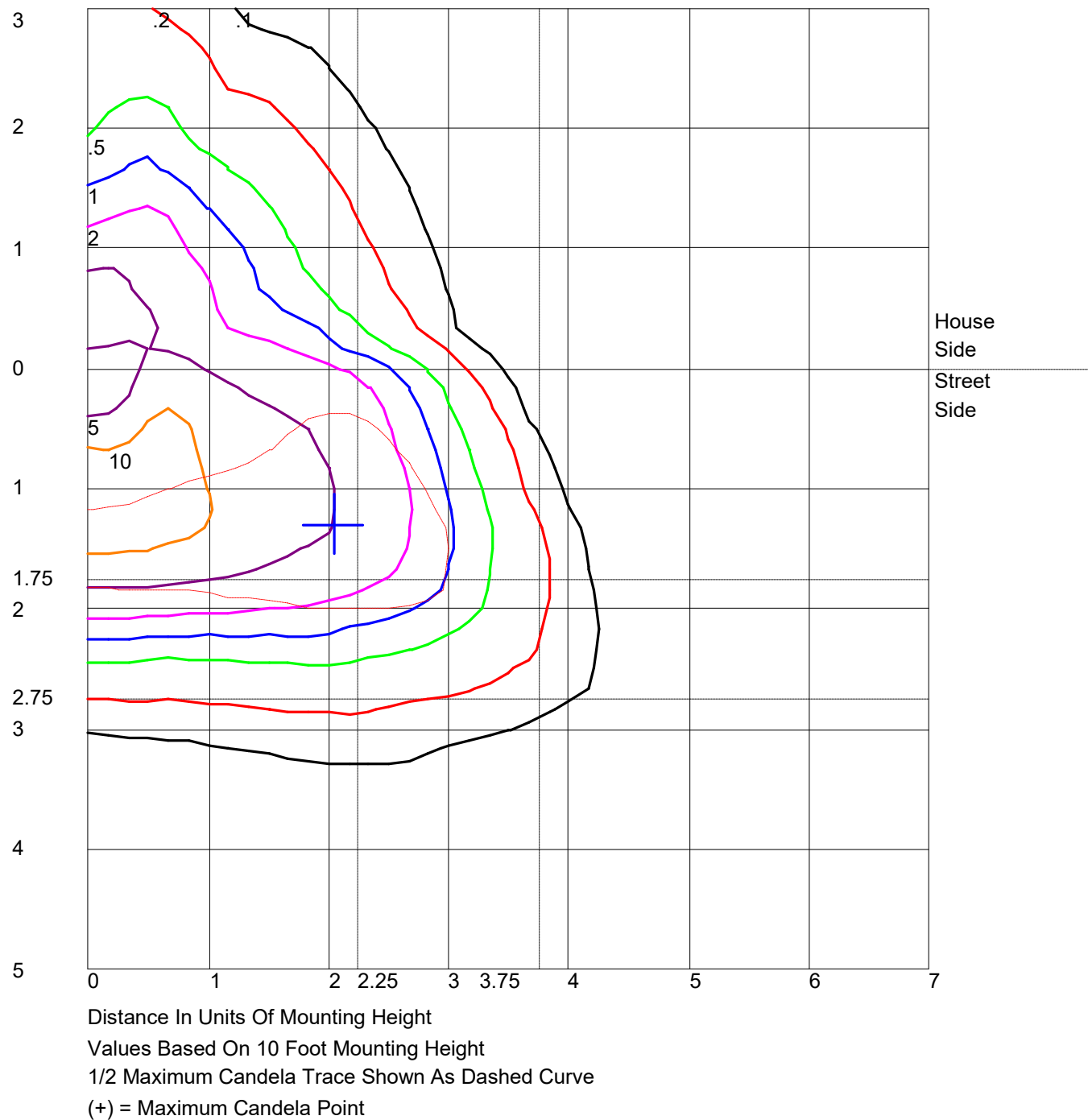
	Lumens	Percent Of Luminaire
Downward Street Side	7425.2	79.3
Downward House Side	1909.6	20.4
Downward Total	9334.8	99.7
Upward Street Side	11.4	0.1
Upward House Side	15.2	0.2
Upward Total	26.6	0.3
Total Flux	9361.4	100.0

POLAR GRAPH

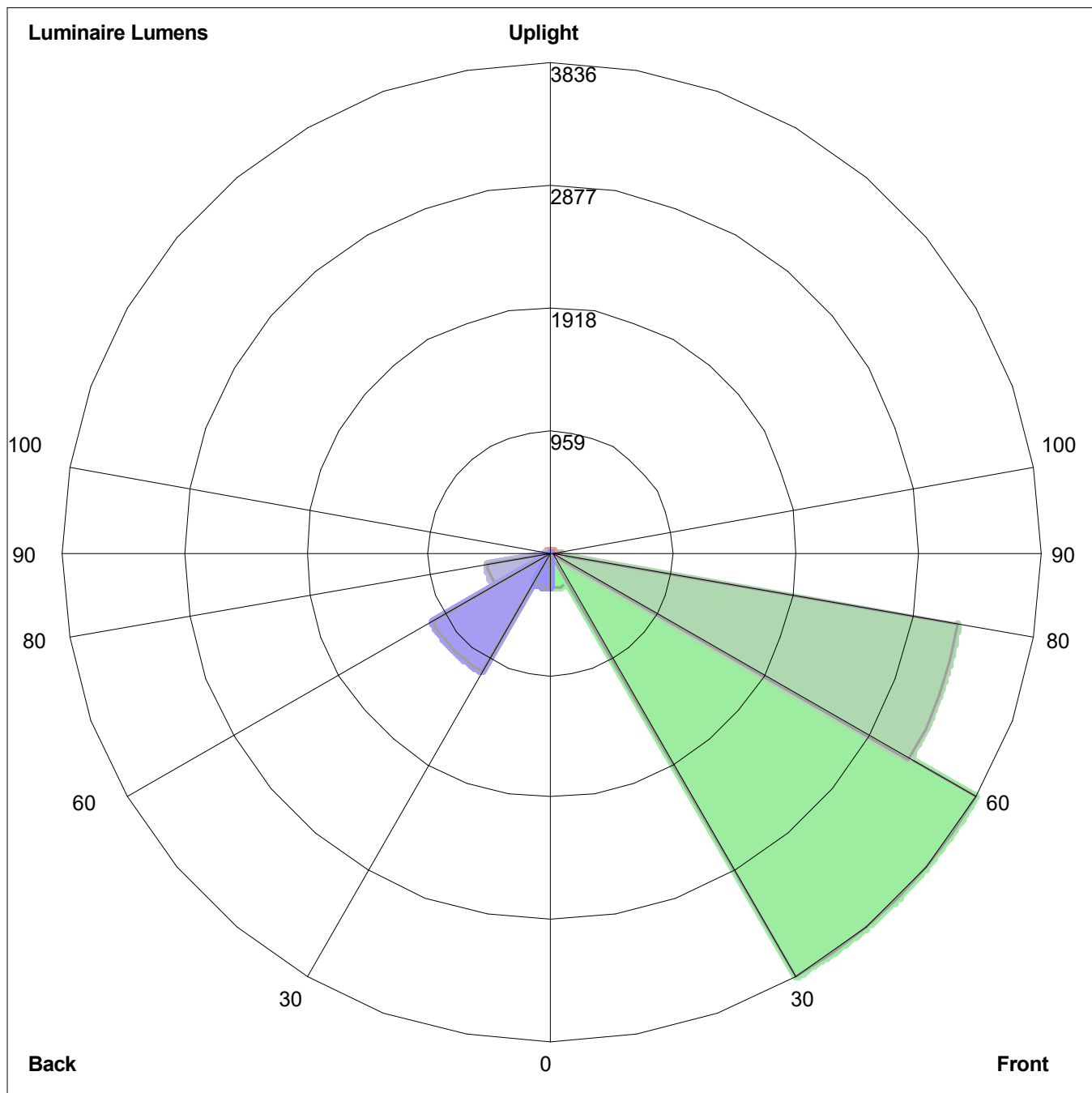


Maximum Candela = 9189 Located At Horizontal Angle = 57.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=272.8, Medium=3835.9, High=3237.3, Very High=79.2
Back: Low=271.9, Medium=1076.1, High=512.2, Very High=49.3
Uplight: Low=8.6, High=18.1

BUG Rating : B2-U2-G2