



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11759
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/26/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16212
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17709
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	17709
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	43 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	757 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	602.7	N.A.	3.7
FM - Front-Medium (30-60)	9609.5	N.A.	59.3
FH - Front-High (60-80)	4222.9	N.A.	26.0
FVH - Front-Very High (80-90)	100.6	N.A.	0.6
BL - Back-Low (0-30)	291.8	N.A.	1.8
BM - Back-Medium (30-60)	1099.5	N.A.	6.8
BH - Back-High (60-80)	217.4	N.A.	1.3
BVH - Back-Very High (80-90)	23.9	N.A.	0.1
UL - Uplight-Low (90-100)	10.9	N.A.	0.1
UH - Uplight-High (100-180)	32.6	N.A.	0.2
Total	16211.8	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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	787	787	787	787	787	787	787	787	787	787
2.5	775	770	768	765	780	778	777	776	779	771
5.0	790	768	778	778	773	757	743	744	740	738
7.5	760	753	765	761	747	741	755	752	754	757
10.0	752	752	773	733	766	765	800	796	796	790
12.5	824	823	806	798	817	809	838	840	849	834
15.0	883	872	876	889	920	911	911	911	916	925
17.5	933	952	935	968	1010	1054	1004	1001	1000	1011
20.0	1082	1114	1105	1095	1130	1180	1186	1191	1140	1135
22.5	1252	1248	1294	1307	1364	1409	1477	1476	1406	1356
25.0	1580	1554	1591	1652	1724	1776	1895	1898	1839	1678
27.5	2194	2201	2220	2163	2244	2363	2468	2455	2499	2212
30.0	2884	2858	2824	2890	2949	3136	3230	3254	3234	2878
32.5	3726	3730	3564	3515	3705	3902	4113	4124	4143	3555
35.0	4515	4483	4388	4485	4430	4839	5010	5058	4913	4247
37.5	5650	5628	5347	5297	5395	5581	5824	5810	5615	4680
40.0	6661	6667	6518	6315	6260	6429	6597	6505	6170	5176
42.5	7845	7950	7725	7384	7219	7273	7169	7158	6601	5609
45.0	9148	9277	9158	8686	8332	8195	7823	7766	7090	6131
47.5	10444	10546	10489	10113	9741	9278	8610	8550	7797	6956
50.0	11408	11521	11817	11624	11107	10555	9852	9713	8895	8005
52.5	11346	11575	12331	12868	12948	12224	11549	11423	10538	9213
55.0	10599	10714	11654	12989	13948	14061	14234	14171	12786	10178
57.5	8550	8765	10097	12007	14098	15419	16742	16773	14406	10478
60.0	5497	5769	7323	9881	13094	15693	17649	17709	14736	10008
62.5	2919	3019	4231	6830	10776	14450	16985	17028	14149	8993
65.0	1567	1617	2163	3909	7504	11881	15241	15351	12414	7094
67.5	909	923	1189	2081	4512	8045	11887	12166	9518	4570
70.0	600	636	803	1374	2507	4551	8011	8181	6268	2589
72.5	443	469	581	1014	1664	2282	4270	4629	3397	1130
75.0	303	322	420	795	1279	1307	1927	2136	1436	551
77.5	215	227	315	654	1007	865	859	945	740	346
80.0	166	174	245	515	757	566	446	472	452	258
82.5	130	136	194	408	504	338	270	268	298	203
85.0	94	98	145	297	306	167	166	164	169	136
87.5	57	61	102	169	113	62	62	59	63	64
90.0	13	14	23	43	23	14	12	10	9	9
92.5	4	4	7	9	7	8	9	8	7	7
95.0	3	2	4	6	7	7	7	7	7	6
97.5	2	2	4	6	6	7	7	6	5	5
100.0	2	2	4	6	6	7	6	6	5	5
102.5	3	2	4	6	7	7	6	6	5	5
105.0	3	2	4	6	7	7	6	6	5	5
107.5	3	3	4	6	7	7	6	5	5	5
110.0	4	3	4	6	7	7	6	6	5	5
112.5	4	4	5	7	7	7	6	6	6	6
115.0	4	4	5	7	7	7	7	6	6	6
117.5	5	5	5	7	7	8	7	6	6	7
120.0	5	5	6	7	8	8	7	7	6	7
122.5	6	6	7	7	8	8	7	7	7	7
125.0	7	7	7	7	8	8	7	7	7	7
127.5	7	7	7	7	8	9	7	7	7	7
130.0	7	7	7	7	9	9	7	7	7	8

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CANDELA TABULATION - (Cont.)

132.5	7	7	7	8	8	9	8	7	7	8
135.0	6	6	6	7	7	7	7	7	7	7
137.5	3	2	4	5	6	6	5	5	5	6
140.0	1	1	3	4	4	5	4	4	4	5
142.5	1	1	3	4	4	4	4	4	4	4
145.0	1	1	3	4	4	4	4	4	4	4
147.5	1	1	2	4	4	4	4	4	4	4
150.0	1	1	2	4	4	4	4	4	4	4
152.5	1	1	2	4	4	4	4	4	4	4
155.0	0	1	2	4	4	4	4	4	4	4
157.5	0	1	2	3	4	4	3	3	4	4
160.0	0	1	2	3	4	3	3	3	3	4
162.5	0	1	2	3	3	3	3	3	3	3
165.0	0	1	2	4	4	3	3	3	3	3
167.5	0	1	2	4	4	4	3	3	3	3
170.0	0	1	2	4	4	4	3	3	3	3
172.5	0	1	2	4	4	4	3	3	3	3
175.0	1	1	2	4	4	4	3	3	3	3
177.5	1	1	2	4	4	4	3	3	3	3
180.0	2	2	2	2	2	2	2	2	2	2

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	787	787	787	787	787	787	787	787	787	787
2.5	778	782	780	780	788	798	789	789	787	790
5.0	746	746	748	735	765	774	779	776	771	759
7.5	744	746	750	762	756	744	727	712	697	707
10.0	776	765	762	806	766	743	679	657	606	598
12.5	812	806	807	807	764	717	637	563	526	504
15.0	853	833	833	841	776	669	574	515	481	460
17.5	931	902	911	848	748	607	543	504	475	447
20.0	1021	980	947	881	705	577	521	504	483	445
22.5	1224	1143	1098	944	691	577	526	511	495	460
25.0	1504	1378	1281	1001	711	615	528	517	549	529
27.5	1921	1697	1537	1065	787	663	535	543	659	678
30.0	2404	2089	1796	1117	827	693	568	589	809	855
32.5	2811	2414	2010	1155	835	713	588	651	955	1086
35.0	3223	2680	2178	1168	816	717	606	665	1120	1355
37.5	3579	2951	2319	1187	781	707	600	675	1348	1698
40.0	3938	3193	2472	1202	746	677	589	656	1575	1708
42.5	4341	3464	2623	1223	713	641	556	609	1702	1352
45.0	4939	3926	2855	1256	675	595	509	557	1380	1006
47.5	5774	4482	3140	1299	632	526	446	504	903	747
50.0	6635	5078	3501	1326	574	430	361	430	511	573
52.5	7392	5575	3688	1300	468	312	263	325	335	459
55.0	7738	5694	3616	1186	366	234	198	223	235	372
57.5	7628	5376	3214	1007	298	196	163	157	164	299
60.0	7080	4732	2526	781	254	174	139	121	121	241
62.5	5922	3685	1730	565	218	152	115	93	92	199
65.0	3931	2421	1067	388	182	127	94	73	68	164
67.5	2251	1415	631	267	150	102	72	58	51	133
70.0	1021	716	360	191	121	81	54	44	37	102
72.5	439	371	252	157	96	65	44	37	25	76
75.0	273	255	211	142	79	56	39	26	17	57
77.5	207	199	177	129	70	49	35	22	12	41

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CANDELA TABULATION - (Cont.)

80.0	185	168	147	114	62	45	31	19	9	33
82.5	136	125	122	96	55	43	30	18	8	27
85.0	83	79	89	68	47	40	28	17	7	23
87.5	41	37	46	43	39	35	26	15	7	19
90.0	9	7	15	25	31	29	22	14	5	10
92.5	7	5	12	21	26	25	19	13	4	4
95.0	7	4	10	18	23	23	18	12	4	4
97.5	6	5	8	15	19	19	15	9	4	3
100.0	6	5	8	12	15	15	13	9	5	4
102.5	6	5	7	9	13	13	12	9	5	4
105.0	6	6	7	9	12	12	10	9	6	4
107.5	6	6	7	9	10	10	10	9	6	4
110.0	6	7	8	9	10	10	10	9	7	4
112.5	6	7	8	9	10	10	10	9	7	4
115.0	7	7	8	9	10	10	10	9	7	5
117.5	7	7	8	9	10	10	10	9	7	5
120.0	7	8	9	9	10	10	10	9	8	6
122.5	7	8	9	9	10	10	12	9	8	6
125.0	8	9	9	10	10	10	12	10	8	7
127.5	8	9	9	9	10	10	12	10	9	7
130.0	8	9	9	10	10	12	12	10	9	7
132.5	8	9	9	9	10	12	12	10	8	7
135.0	8	8	9	9	10	10	10	9	8	6
137.5	7	7	7	8	9	9	9	9	7	5
140.0	6	6	7	7	8	8	8	7	6	4
142.5	5	6	6	7	7	8	7	7	5	4
145.0	5	5	6	7	7	7	7	7	4	3
147.5	5	5	6	7	7	7	7	6	4	3
150.0	5	5	6	6	7	7	7	6	4	2
152.5	5	5	5	6	7	7	7	5	4	2
155.0	4	5	5	6	6	7	6	5	4	1
157.5	4	5	5	5	6	6	5	4	3	1
160.0	4	4	4	5	5	5	5	4	2	1
162.5	4	4	4	4	5	4	4	4	1	1
165.0	4	4	4	4	4	4	4	3	1	0
167.5	4	4	4	4	4	4	4	3	1	0
170.0	3	4	4	4	4	4	4	3	1	0
172.5	3	4	4	4	4	4	4	3	1	0
175.0	3	4	4	4	4	4	4	3	1	0
177.5	3	3	3	3	4	3	3	2	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	787	787
2.5	791	792
5.0	753	755
7.5	690	683
10.0	576	575
12.5	500	495
15.0	462	454
17.5	441	441
20.0	435	428
22.5	426	416
25.0	460	441

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CANDELA TABULATION - (Cont.)

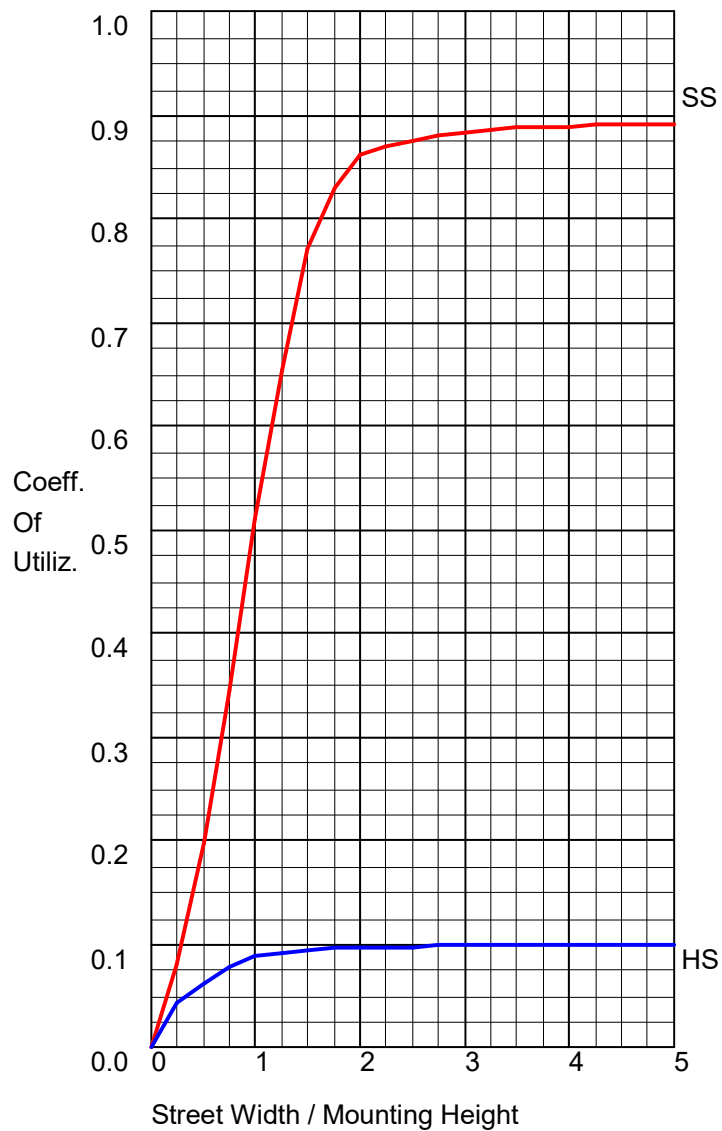
27.5	544	524
30.0	666	652
32.5	854	814
35.0	1057	1008
37.5	1079	993
40.0	862	765
42.5	641	550
45.0	478	426
47.5	387	339
50.0	332	276
52.5	306	238
55.0	301	221
57.5	309	229
60.0	323	253
62.5	337	284
65.0	342	309
67.5	325	311
70.0	293	297
72.5	256	261
75.0	199	208
77.5	155	169
80.0	125	141
82.5	102	112
85.0	79	86
87.5	60	66
90.0	27	33
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	1	0
105.0	1	0
107.5	1	0
110.0	1	1
112.5	2	1
115.0	2	2
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	4
127.5	6	5
130.0	6	6
132.5	6	5
135.0	4	4
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	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	2	2

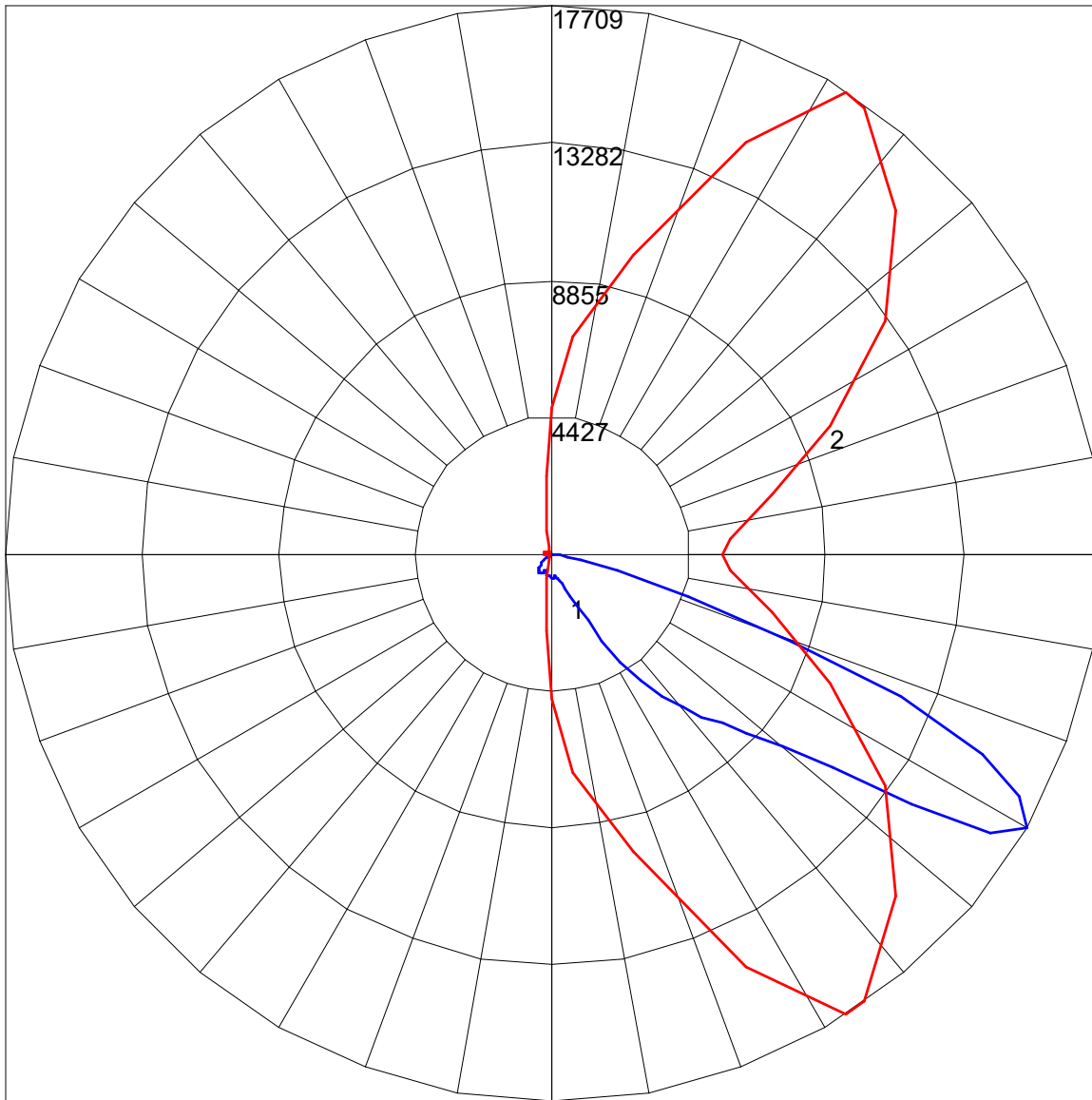
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

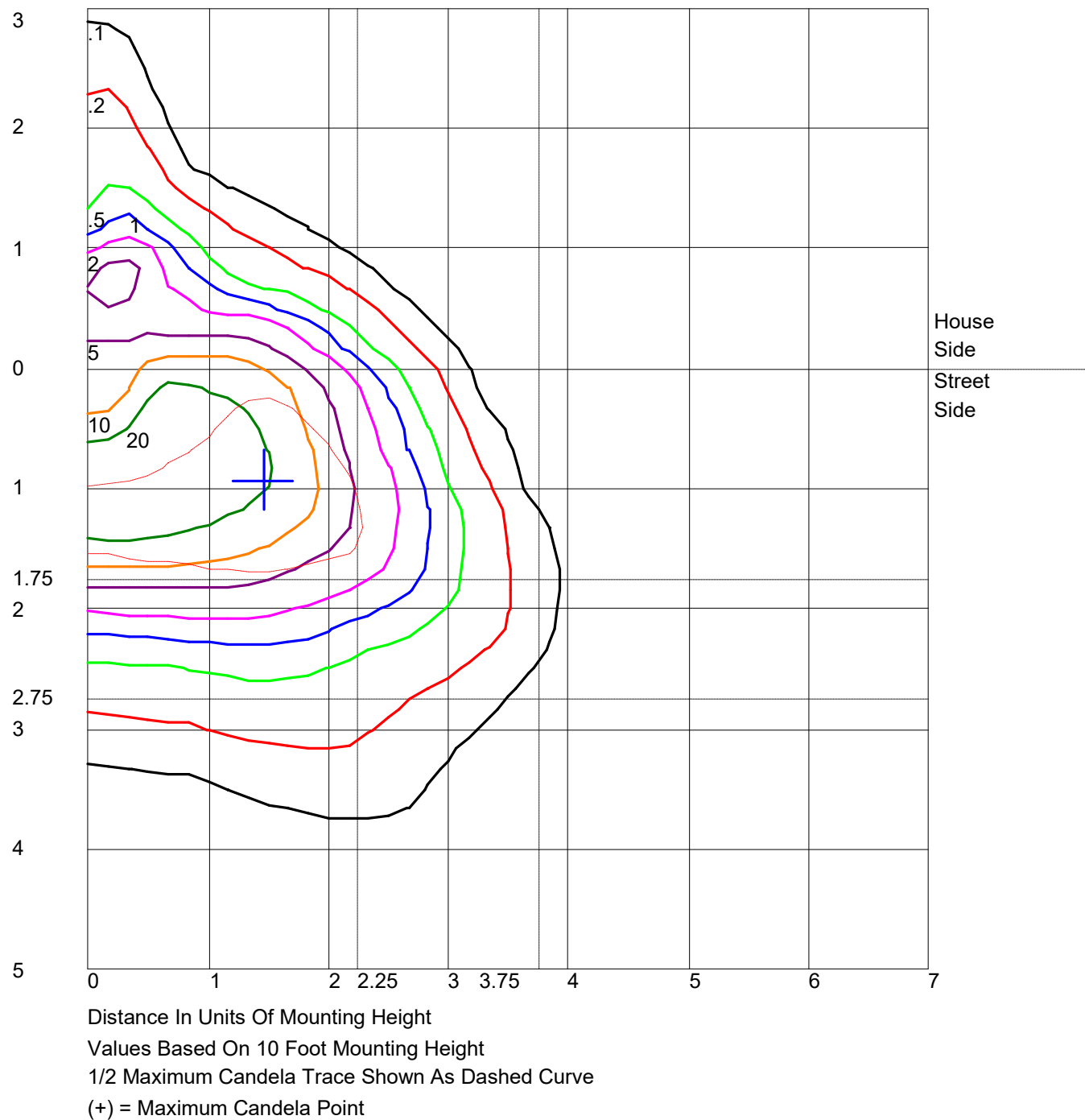
	Lumens	Percent Of Luminaire
Downward Street Side	14535.7	89.7
Downward House Side	1632.6	10.1
Downward Total	16168.3	99.7
Upward Street Side	18.2	0.1
Upward House Side	25.3	0.2
Upward Total	43.5	0.3
Total Flux	16211.8	100.0

POLAR GRAPH

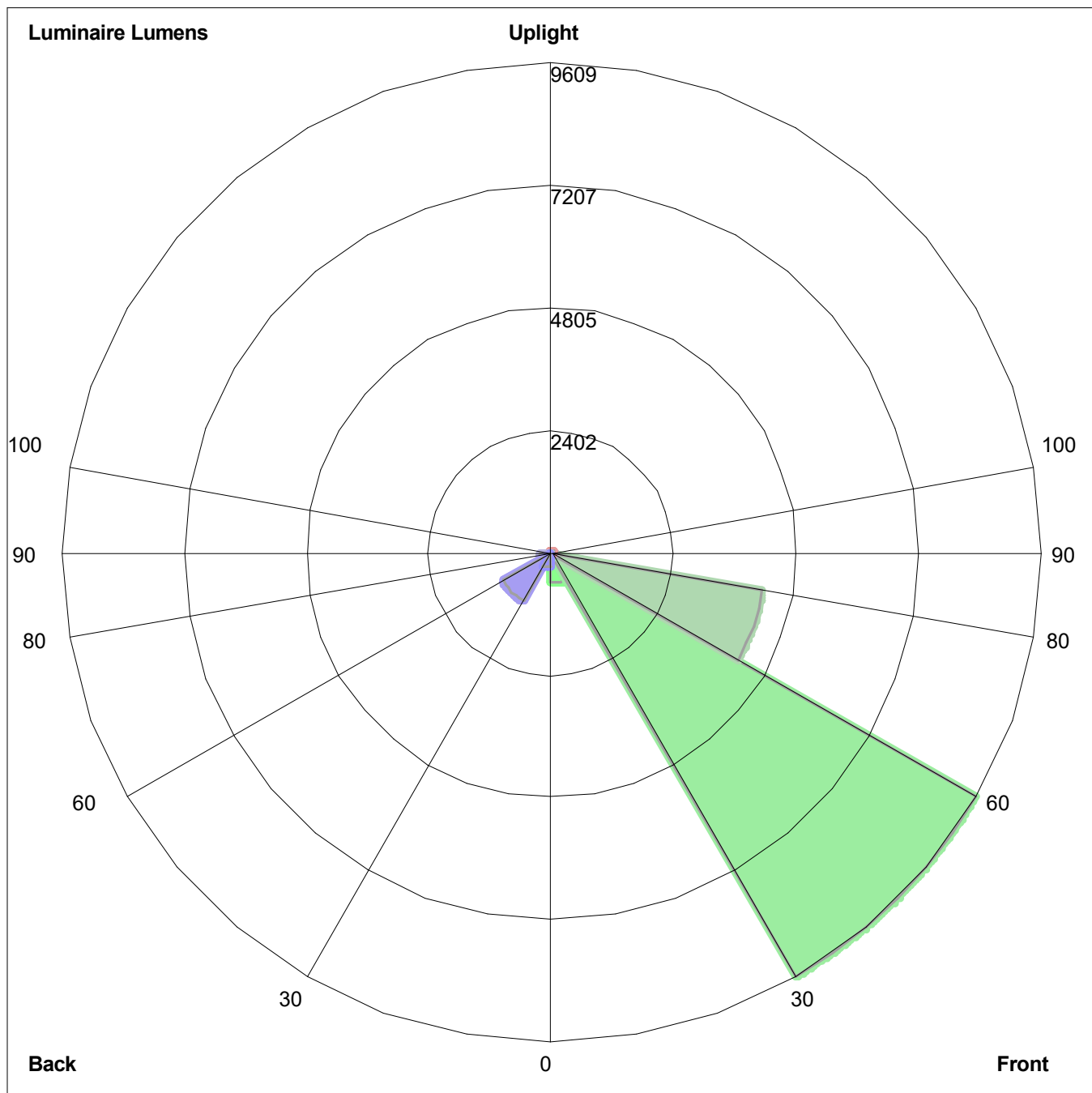


Maximum Candela = 17709 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=602.7, Medium=9609.5, High=4222.9, Very High=100.6
Back: Low=291.8, Medium=1099.5, High=217.4, Very High=23.9
Uplight: Low=10.9, High=32.6

BUG Rating : B2-U2-G2