



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-25L-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-5W-LED-25L-40-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	16004
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	227.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11570
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	11570
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	20 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	519 (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)	897.2	N.A.	5.6
FM - Front-Medium (30-60)	7232.5	N.A.	45.2
FH - Front-High (60-80)	4704.8	N.A.	29.4
FVH - Front-Very High (80-90)	57.6	N.A.	0.4
BL - Back-Low (0-30)	509.6	N.A.	3.2
BM - Back-Medium (30-60)	1890.0	N.A.	11.8
BH - Back-High (60-80)	669.8	N.A.	4.2
BVH - Back-Very High (80-90)	11.0	N.A.	0.1
UL - Uplight-Low (90-100)	7.9	N.A.	0.0
UH - Uplight-High (100-180)	23.5	N.A.	0.1
Total	16003.9	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	47.5	55.0	65.0	75.0
0.0	944	944	944	944	944	944	944	944	944	944
2.5	974	966	976	977	977	971	967	971	956	946
5.0	976	983	992	985	1014	960	951	954	940	918
7.5	1004	1026	1062	982	996	963	973	969	1007	1002
10.0	1109	1107	1152	1041	1087	1092	1125	1099	1059	1072
12.5	1267	1334	1248	1228	1278	1244	1265	1243	1196	1184
15.0	1421	1521	1461	1518	1544	1474	1484	1468	1409	1362
17.5	1626	1685	1663	1730	1773	1811	1814	1707	1667	1623
20.0	1979	1988	1991	2027	2074	2104	2101	2069	1929	1853
22.5	2227	2231	2318	2409	2398	2461	2515	2487	2260	2163
25.0	2556	2484	2641	2779	2886	2876	2890	2912	2678	2438
27.5	2953	3078	3211	3154	3349	3399	3416	3329	3078	2830
30.0	3487	3407	3479	3680	3719	3957	4003	3852	3560	3233
32.5	4172	4181	4033	4054	4341	4440	4444	4469	4147	3680
35.0	4799	4653	4586	4672	4800	5055	4953	5053	4622	4237
37.5	5410	5371	5170	5152	5322	5558	5434	5564	5146	4529
40.0	5775	5852	5726	5720	5877	5971	5973	5996	5640	5011
42.5	6088	6171	6113	6111	6300	6312	6310	6394	5984	5337
45.0	6412	6469	6392	6501	6639	6728	6736	6668	6265	5603
47.5	6664	6742	6743	6778	6922	6994	7004	6939	6538	5899
50.0	6903	6991	7037	6976	7149	7210	7255	7217	6843	6314
52.5	7160	7235	7285	7211	7438	7516	7559	7561	7193	6622
55.0	7382	7470	7598	7581	7767	8012	8093	8075	7667	7075
57.5	7685	7831	7981	8015	8355	8743	8875	8787	8028	7299
60.0	7661	7750	8159	8304	8918	9531	9550	9328	8202	7368
62.5	6972	7089	7685	8211	9263	10174	10166	9776	8284	7313
65.0	5625	5672	6455	7380	9237	10862	10803	10140	8192	7161
67.5	3214	3260	4089	5598	8214	11427	11570	10576	8261	6788
70.0	692	672	1035	2735	5819	10229	10790	9952	7021	5097
72.5	293	304	371	626	2281	6625	7262	6911	4536	3058
75.0	176	184	207	277	561	2292	3047	3350	2247	1382
77.5	91	93	108	140	230	451	596	1102	1037	649
80.0	68	68	71	81	112	172	195	316	519	354
82.5	60	60	63	69	81	98	104	148	266	285
85.0	47	47	50	57	69	82	86	104	146	231
87.5	33	32	34	37	45	55	60	72	106	132
90.0	16	16	15	14	15	15	13	10	14	16
92.5	4	4	3	4	5	6	6	6	5	6
95.0	2	2	2	2	3	5	5	5	5	5
97.5	2	2	2	2	2	3	3	4	4	5
100.0	2	2	2	2	2	3	3	3	3	4
102.5	2	2	2	2	3	3	3	3	3	4
105.0	3	2	2	2	3	3	3	3	3	4
107.5	3	3	2	3	3	3	3	3	3	4
110.0	3	3	3	3	3	3	3	3	3	4
112.5	4	4	3	3	3	3	3	3	4	5
115.0	5	4	4	4	4	4	4	4	4	5
117.5	5	5	5	4	4	4	4	4	4	5
120.0	6	6	5	4	4	5	5	4	5	6
122.5	7	7	6	5	5	5	5	5	5	6
125.0	8	8	7	6	5	6	6	5	6	7
127.5	9	8	8	6	6	6	6	5	6	7
130.0	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	944	944	944	944	944	944	944	944	944	944
2.5	941	943	945	937	929	923	923	931	927	915
5.0	911	910	886	876	889	879	857	866	848	834
7.5	945	948	932	933	885	829	786	795	768	782
10.0	998	972	963	986	859	835	798	763	739	754
12.5	1114	1094	1066	997	897	850	815	828	823	847
15.0	1239	1196	1154	1045	938	918	931	945	930	911
17.5	1433	1364	1289	1145	1018	1038	1075	1037	990	980
20.0	1660	1595	1488	1278	1160	1190	1173	1136	1100	1054
22.5	1975	1808	1696	1465	1354	1377	1307	1259	1156	1102
25.0	2201	2071	1916	1622	1624	1571	1475	1339	1229	1050
27.5	2496	2324	2186	1871	1920	1770	1600	1410	1136	867
30.0	2888	2616	2467	2188	2260	2057	1829	1331	860	597
32.5	3153	2925	2726	2550	2588	2363	1848	1008	572	407
35.0	3595	3272	3045	2972	2950	2684	1653	677	384	306
37.5	3962	3656	3405	3408	3303	2784	1190	447	291	253
40.0	4240	3950	3679	3848	3690	2517	744	325	241	217
42.5	4528	4232	3958	4169	3976	1974	467	264	207	185
45.0	4872	4567	4304	4545	4088	1300	341	219	177	156
47.5	5168	4881	4624	4967	3856	791	264	186	148	124
50.0	5522	5264	5017	5414	3246	512	210	155	120	95
52.5	5908	5654	5437	5862	2378	362	173	125	92	67
55.0	6299	6045	5982	6276	1478	257	142	96	67	44
57.5	6570	6242	6393	6279	995	184	113	69	45	25
60.0	6648	6302	6506	5522	818	146	86	45	26	11
62.5	6566	6221	6496	4274	772	134	61	25	14	5
65.0	6346	5976	6318	2823	777	169	42	14	11	4
67.5	5777	5485	5862	1633	767	244	29	11	10	5
70.0	4137	3946	4237	829	606	318	30	11	11	6
72.5	2375	2253	2364	289	271	313	25	13	9	4
75.0	1029	961	996	157	108	127	21	11	3	2
77.5	471	425	408	96	52	61	15	8	1	1

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CANDELA TABULATION - (Cont.)

80.0	277	239	195	57	35	31	12	7	0	1
82.5	206	172	126	36	28	21	12	8	0	1
85.0	143	110	68	23	20	18	13	8	0	1
87.5	82	42	19	16	18	17	13	8	0	2
90.0	13	5	12	17	20	19	14	10	1	2
92.5	7	5	12	17	21	20	16	11	2	3
95.0	6	4	10	16	19	18	14	9	2	3
97.5	5	4	8	12	15	15	11	7	2	2
100.0	4	5	7	9	12	11	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	944	944
2.5	897	897
5.0	815	808
7.5	764	750
10.0	767	736
12.5	858	824
15.0	929	892
17.5	988	936
20.0	1054	1000
22.5	1047	1010
25.0	952	939

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CANDELA TABULATION - (Cont.)

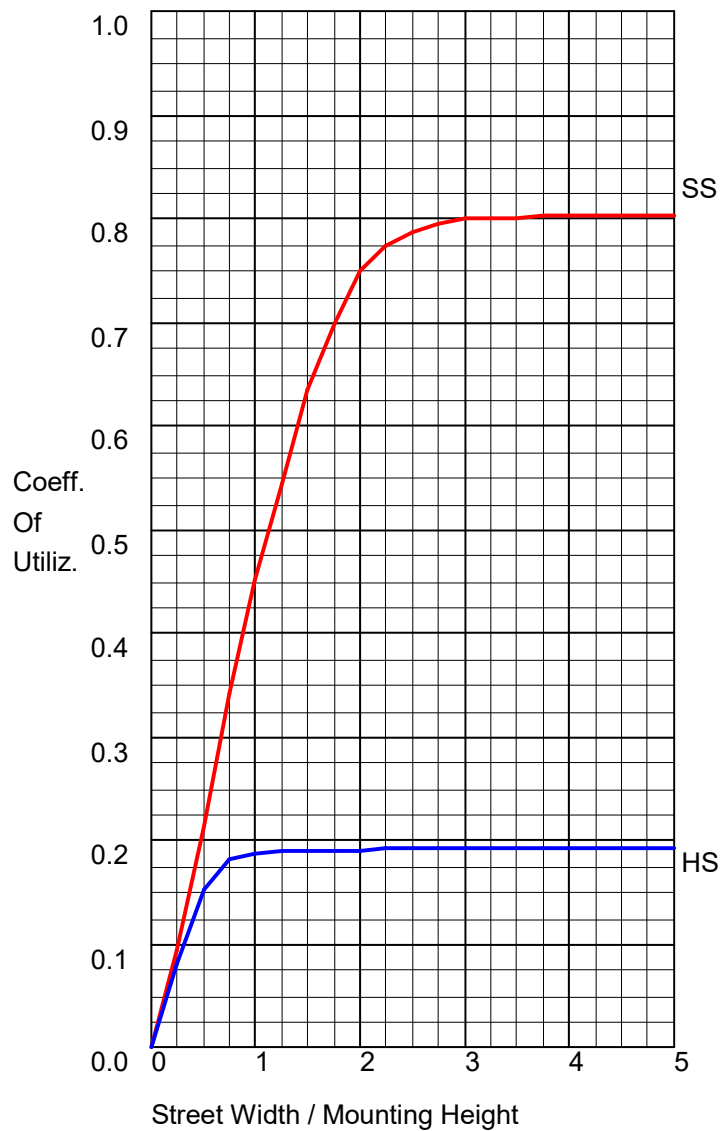
27.5	740	721
30.0	505	475
32.5	354	344
35.0	283	282
37.5	241	241
40.0	207	208
42.5	177	177
45.0	146	146
47.5	116	114
50.0	86	85
52.5	58	58
55.0	36	34
57.5	17	16
60.0	5	5
62.5	2	1
65.0	1	0
67.5	2	2
70.0	4	4
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	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

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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

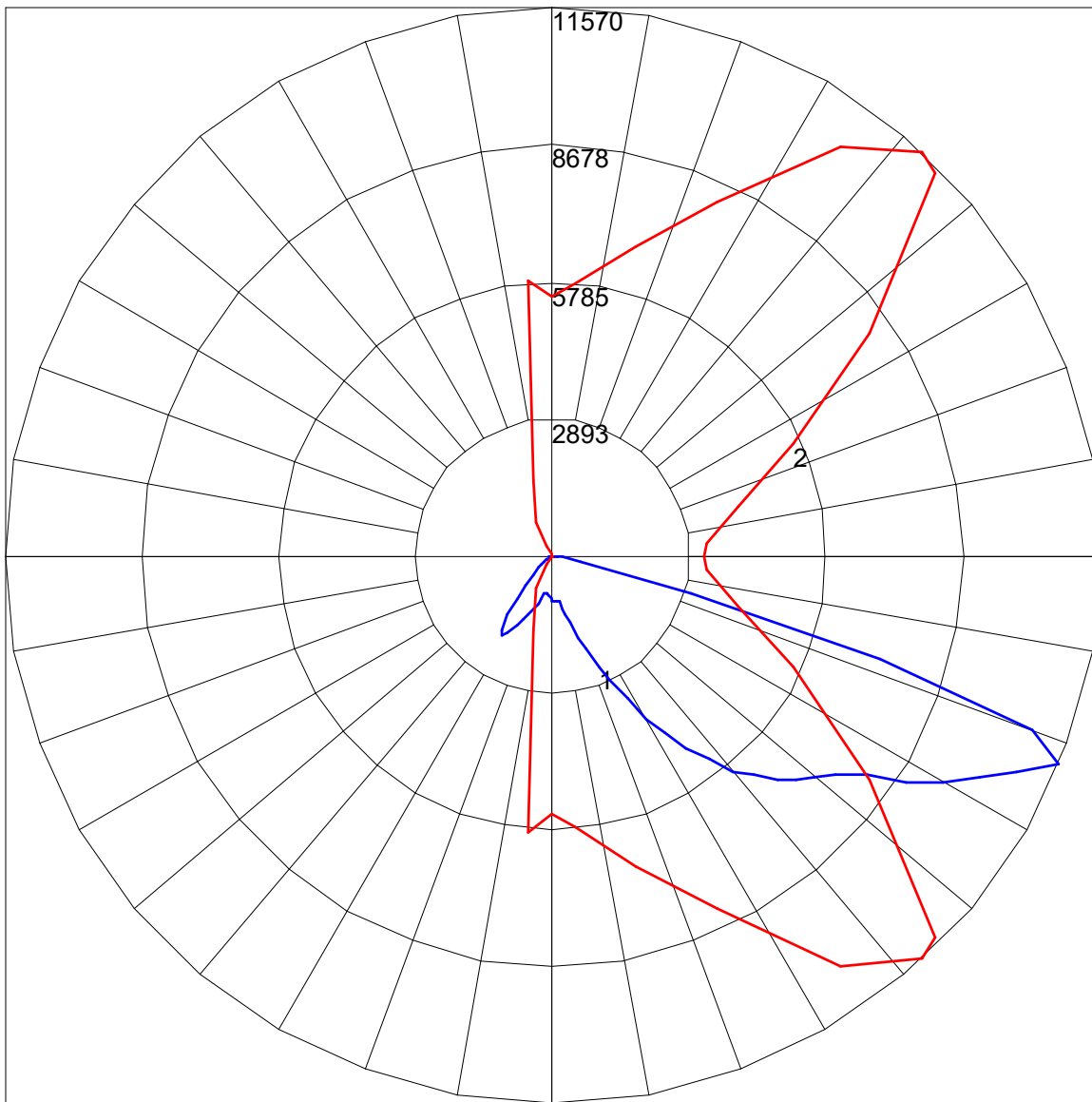
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

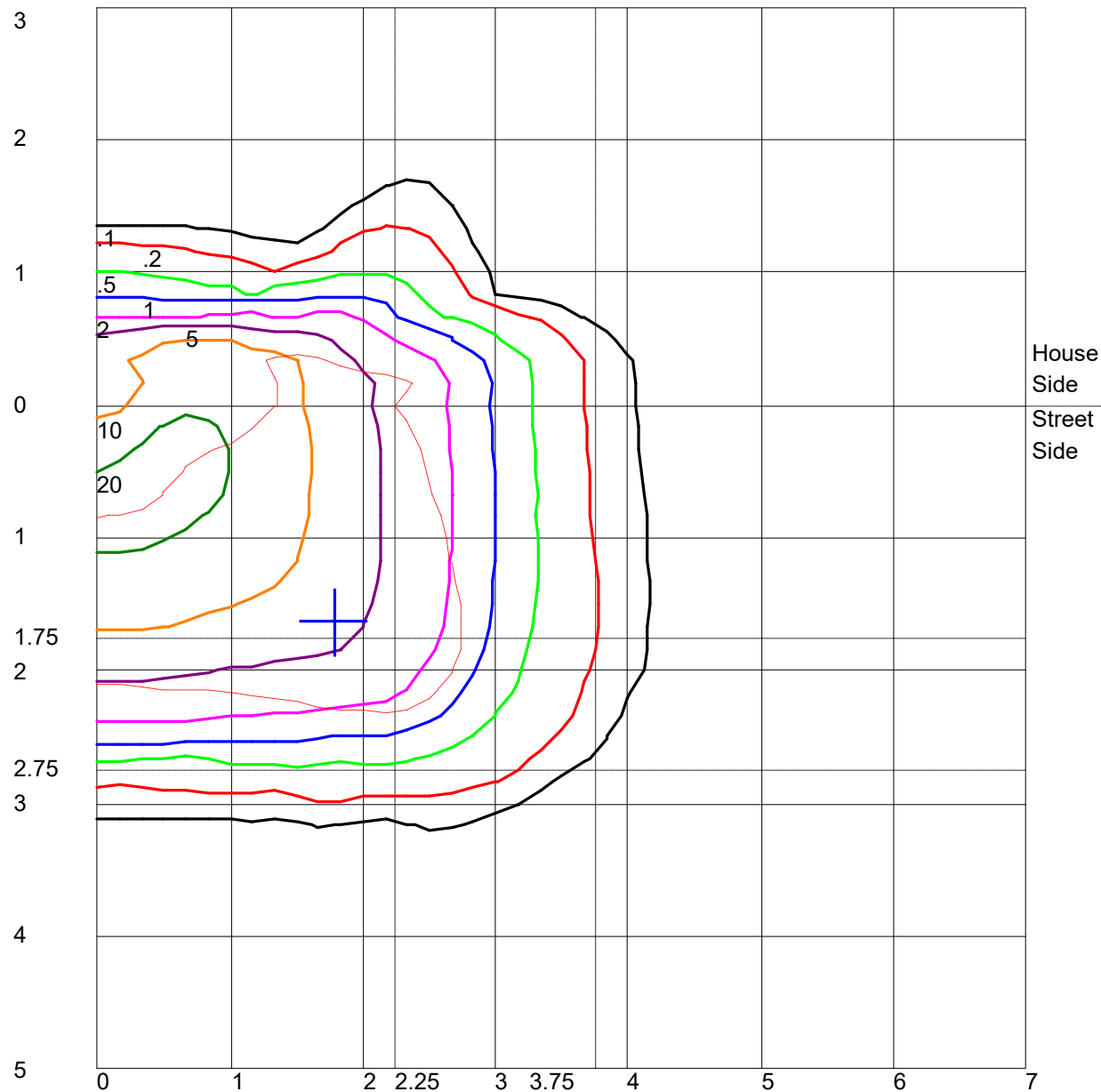
	Lumens	Percent Of Luminaire
Downward Street Side	12892.1	80.6
Downward House Side	3080.4	19.2
Downward Total	15972.5	99.8
Upward Street Side	12.5	0.1
Upward House Side	18.9	0.1
Upward Total	31.4	0.2
Total Flux	16003.9	100.0

POLAR GRAPH

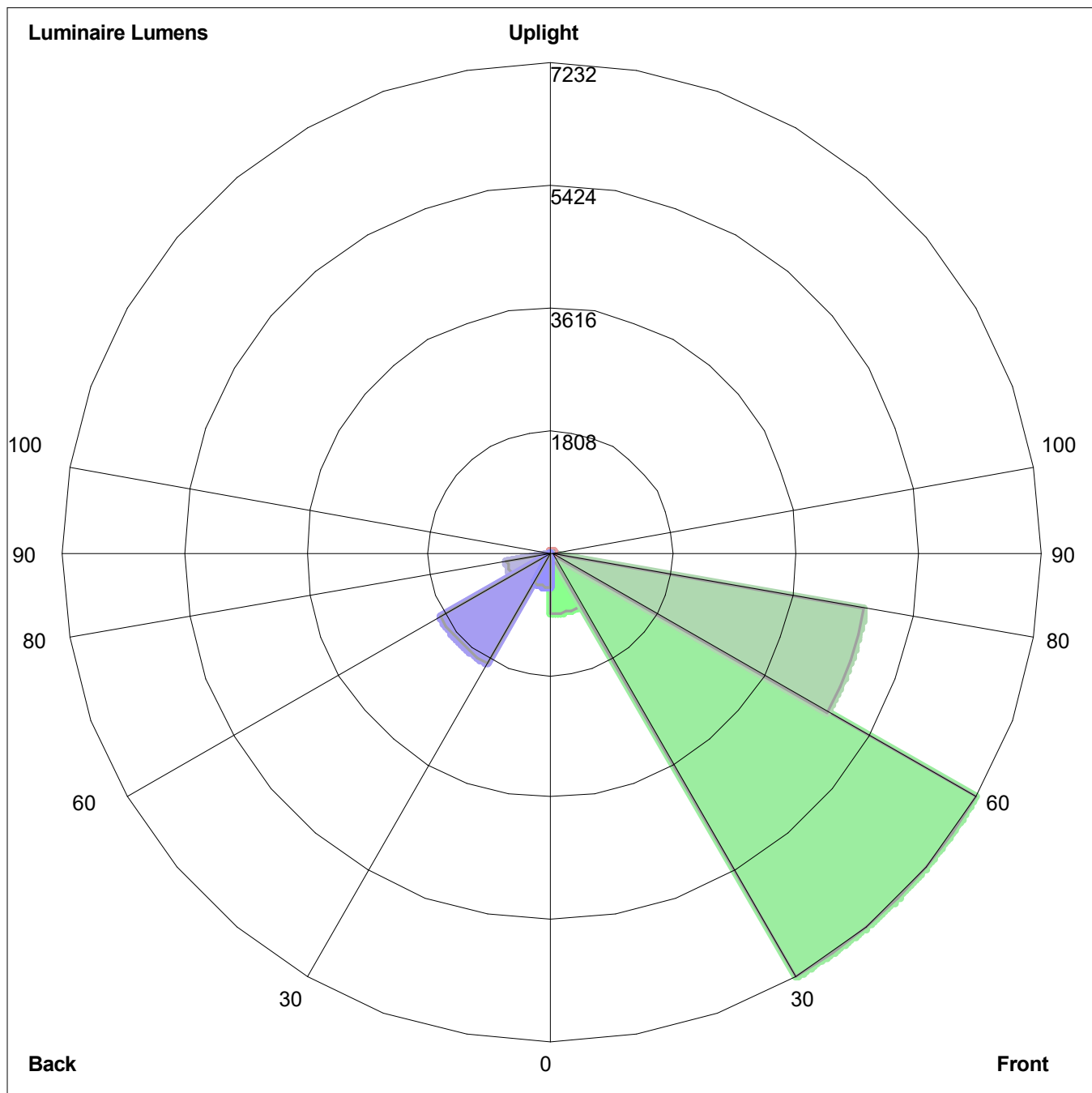


Maximum Candela = 11570 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=897.2, Medium=7232.5, High=4704.8, Very High=57.6
Back: Low=509.6, Medium= 1890.0, High=669.8, Very High=11.0
Uplight: Low=7.9, High=23.5

BUG Rating : B2-U2-G2