



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-05L-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	4485
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4900
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	4900
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	12 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	209 (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)	166.8	N.A.	3.7
FM - Front-Medium (30-60)	2658.8	N.A.	59.3
FH - Front-High (60-80)	1168.4	N.A.	26.1
FVH - Front-Very High (80-90)	27.8	N.A.	0.6
BL - Back-Low (0-30)	80.8	N.A.	1.8
BM - Back-Medium (30-60)	304.2	N.A.	6.8
BH - Back-High (60-80)	60.1	N.A.	1.3
BVH - Back-Very High (80-90)	6.5	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.1
UH - Uplight-High (100-180)	9.0	N.A.	0.2
Total	4485.3	N.A.	100.0
BUG Rating	B1-U1-G1		

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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	217	217	217	217	217	217	217	217	217	217
2.5	214	213	213	212	216	215	215	214	215	213
5.0	218	213	215	215	214	209	206	206	205	205
7.5	210	208	212	211	207	205	209	208	209	209
10.0	208	208	214	203	212	212	221	220	220	218
12.5	228	228	224	220	226	224	232	232	235	231
15.0	245	241	242	246	255	252	252	252	254	256
17.5	258	263	258	268	279	292	278	277	277	279
20.0	299	309	305	303	313	326	329	330	316	314
22.5	346	345	358	362	378	389	408	408	389	375
25.0	437	430	440	457	477	491	525	525	509	464
27.5	607	609	614	598	621	654	682	679	692	612
30.0	798	790	782	800	816	868	893	901	894	797
32.5	1031	1032	987	973	1025	1080	1138	1141	1146	983
35.0	1249	1241	1214	1241	1226	1339	1387	1399	1359	1176
37.5	1563	1558	1479	1465	1493	1544	1611	1607	1553	1295
40.0	1843	1844	1803	1748	1732	1779	1825	1800	1707	1432
42.5	2171	2200	2137	2044	1997	2012	1984	1981	1826	1552
45.0	2532	2567	2534	2404	2305	2267	2164	2149	1962	1696
47.5	2890	2918	2902	2798	2695	2567	2383	2366	2158	1925
50.0	3156	3188	3270	3216	3073	2920	2726	2687	2461	2215
52.5	3139	3202	3412	3560	3582	3382	3195	3160	2916	2549
55.0	2933	2964	3224	3594	3859	3891	3938	3921	3538	2816
57.5	2366	2426	2794	3322	3900	4267	4633	4641	3986	2899
60.0	1521	1596	2027	2734	3623	4342	4883	4900	4078	2769
62.5	808	835	1170	1889	2982	3998	4699	4712	3915	2489
65.0	433	447	598	1081	2076	3287	4217	4248	3434	1963
67.5	252	255	330	576	1248	2226	3288	3366	2633	1265
70.0	166	176	223	380	694	1260	2217	2264	1735	717
72.5	123	130	161	280	461	632	1182	1281	939	313
75.0	84	89	117	219	354	362	533	591	398	152
77.5	60	63	87	181	278	239	237	261	205	96
80.0	46	48	67	143	209	156	124	131	125	71
82.5	36	38	54	113	140	93	75	73	82	56
85.0	26	27	40	82	85	46	46	45	47	38
87.5	16	17	28	47	31	17	17	16	18	18
90.0	3	4	6	12	6	4	3	3	3	2
92.5	1	1	2	2	2	2	2	2	2	2
95.0	1	1	1	2	2	2	2	2	2	2
97.5	1	1	1	2	2	2	2	2	1	1
100.0	1	1	1	2	2	2	2	2	1	1
102.5	1	1	1	2	2	2	2	2	1	1
105.0	1	1	1	2	2	2	2	2	1	1
107.5	1	1	1	2	2	2	2	1	1	1
110.0	1	1	1	2	2	2	2	2	1	1
112.5	1	1	1	2	2	2	2	2	2	2
115.0	1	1	1	2	2	2	2	2	2	2
117.5	1	1	1	2	2	2	2	2	2	2
120.0	1	1	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

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CANDELA TABULATION - (Cont.)

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	2	2	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	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	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	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	217	217	217	217	217	217	217	217	217	217
2.5	215	216	216	216	218	220	218	218	218	218
5.0	207	207	207	204	212	214	215	214	213	210
7.5	206	207	208	211	209	206	202	197	193	195
10.0	215	212	211	223	212	206	188	182	168	166
12.5	225	224	224	224	211	198	176	155	146	140
15.0	236	231	231	233	214	185	158	143	133	127
17.5	257	250	252	234	207	168	150	140	131	124
20.0	282	271	262	244	195	160	144	140	133	123
22.5	339	316	303	261	191	160	146	142	137	127
25.0	416	381	355	277	196	170	146	143	152	147
27.5	531	469	425	295	217	184	148	150	183	188
30.0	665	578	496	310	229	192	157	163	224	236
32.5	778	668	556	319	231	197	163	181	264	300
35.0	892	741	602	323	226	198	168	184	310	375
37.5	991	817	641	329	216	195	166	187	373	470
40.0	1089	884	683	333	207	188	163	182	436	472
42.5	1201	958	726	338	197	177	154	169	471	374
45.0	1367	1086	790	347	187	165	141	154	382	278
47.5	1597	1240	869	360	175	146	124	140	250	207
50.0	1836	1405	969	366	158	119	100	119	142	158
52.5	2046	1543	1020	360	130	86	72	90	92	127
55.0	2141	1575	1000	329	101	65	55	62	65	103
57.5	2111	1487	889	278	83	55	45	43	45	83
60.0	1959	1309	699	216	70	48	39	34	34	67
62.5	1638	1019	479	156	60	42	31	26	25	55
65.0	1087	670	295	107	50	35	26	20	19	45
67.5	623	392	174	73	41	28	20	16	15	37
70.0	282	198	100	52	34	22	15	13	10	28
72.5	122	103	69	43	26	18	13	10	7	21
75.0	76	70	59	39	22	16	10	7	4	16
77.5	57	55	49	36	19	14	9	6	3	12

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CANDELA TABULATION - (Cont.)

80.0	51	46	41	31	17	13	8	5	2	9
82.5	38	35	34	26	15	12	8	5	2	7
85.0	23	22	24	19	13	10	8	4	2	6
87.5	12	10	13	12	10	9	7	4	2	5
90.0	2	2	4	7	8	8	6	4	1	3
92.5	2	1	3	5	7	7	5	3	1	1
95.0	2	1	3	5	6	6	5	3	1	1
97.5	2	1	2	4	5	5	4	3	1	1
100.0	2	1	2	3	4	4	3	2	1	1
102.5	2	1	2	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	2	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	2	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	2	3	3	3	3	2	2	1
117.5	2	2	2	3	3	3	3	3	2	1
120.0	2	2	2	3	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	2	3	3	3	3	3	2	2
127.5	2	2	3	3	3	3	3	3	2	2
130.0	2	2	3	3	3	3	3	3	2	2
132.5	2	2	2	3	3	3	3	3	2	2
135.0	2	2	2	3	3	3	3	3	2	2
137.5	2	2	2	2	3	3	3	2	2	1
140.0	2	2	2	2	2	2	2	2	2	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	1	2	2	2	2	2	2	1	1
147.5	1	1	2	2	2	2	2	2	1	1
150.0	1	1	2	2	2	2	2	2	1	1
152.5	1	1	1	2	2	2	2	1	1	1
155.0	1	1	1	2	2	2	2	1	1	0
157.5	1	1	1	1	2	2	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	0	0
165.0	1	1	1	1	1	1	1	1	0	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	1	0	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	217	217
2.5	219	219
5.0	208	209
7.5	191	189
10.0	160	160
12.5	139	137
15.0	128	126
17.5	122	122
20.0	121	119
22.5	118	115
25.0	127	122

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CANDELA TABULATION - (Cont.)

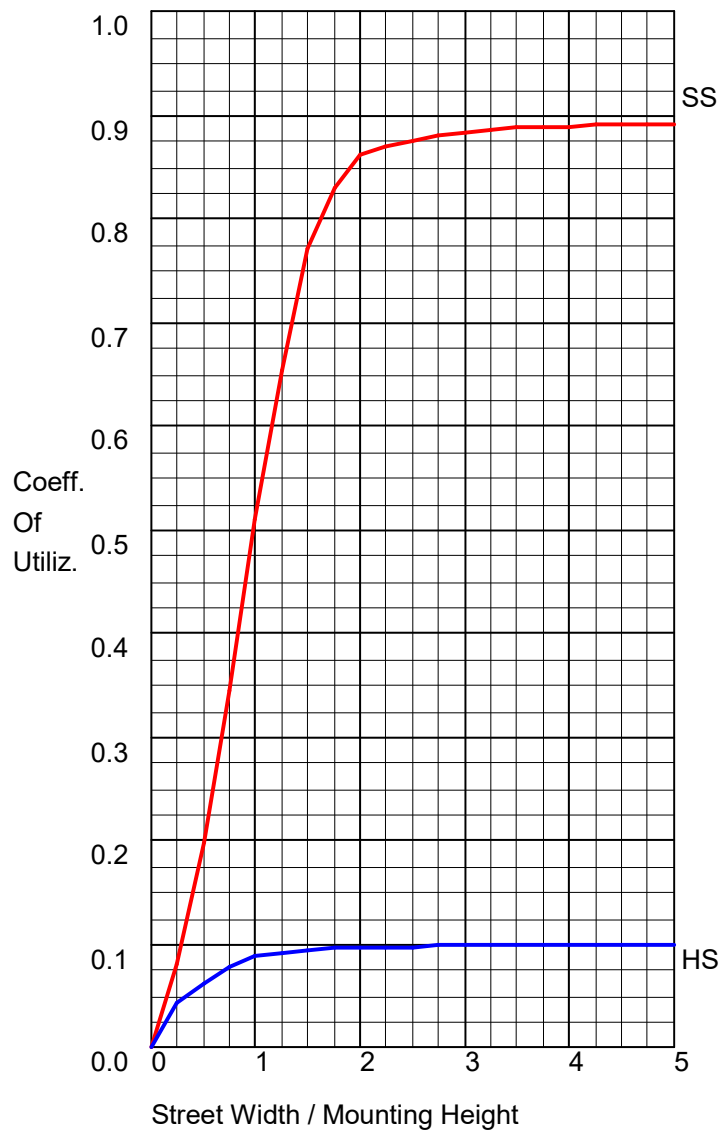
27.5	150	145
30.0	185	181
32.5	236	226
35.0	292	279
37.5	298	275
40.0	238	212
42.5	177	152
45.0	132	118
47.5	107	93
50.0	91	77
52.5	85	66
55.0	83	61
57.5	85	63
60.0	89	70
62.5	93	79
65.0	94	85
67.5	90	86
70.0	81	82
72.5	70	72
75.0	55	58
77.5	43	47
80.0	35	39
82.5	28	31
85.0	22	24
87.5	17	18
90.0	7	9
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	0	0
110.0	0	0
112.5	1	0
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	2	1
130.0	2	2
132.5	2	1
135.0	1	1
137.5	1	1
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

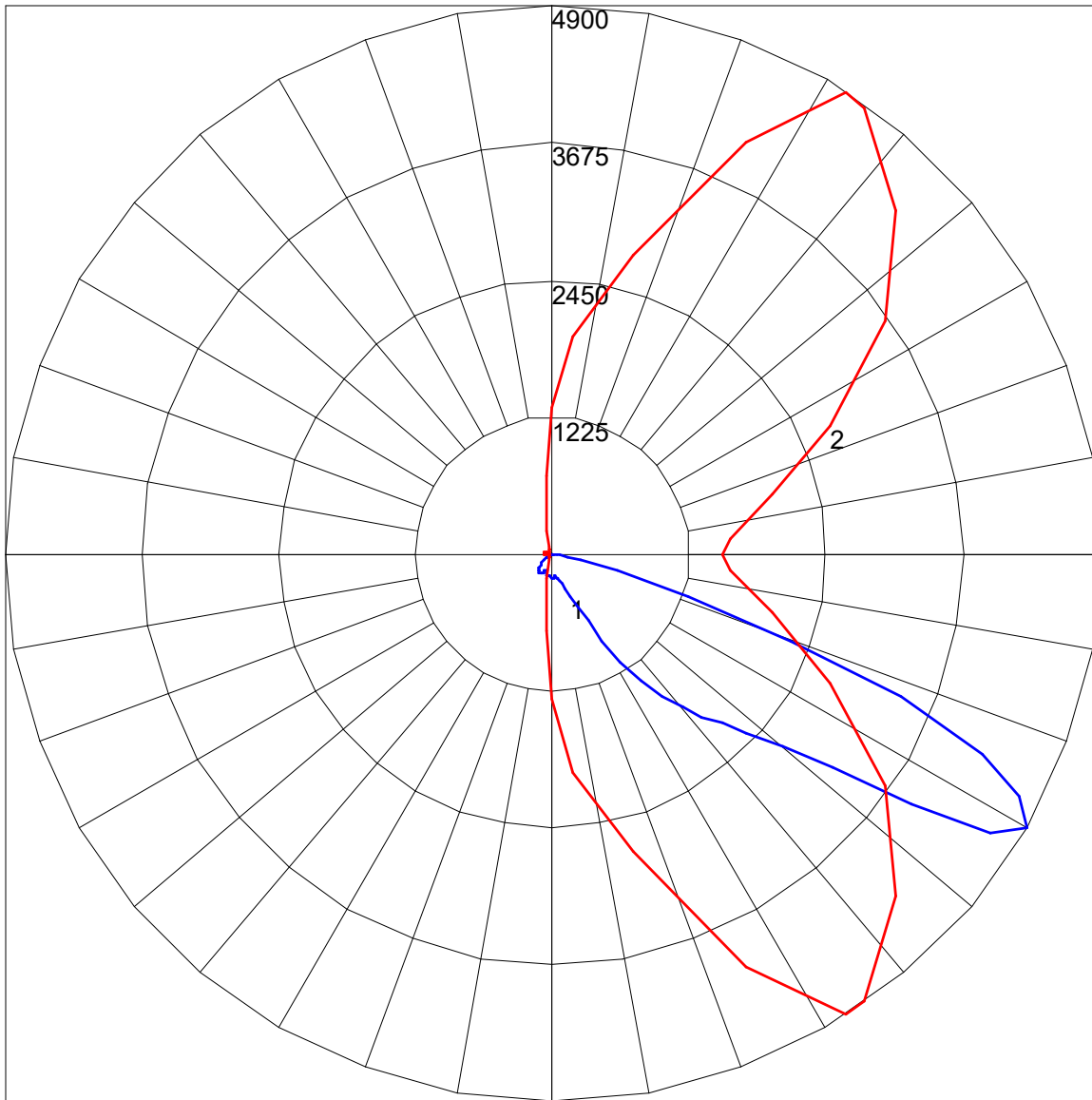
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

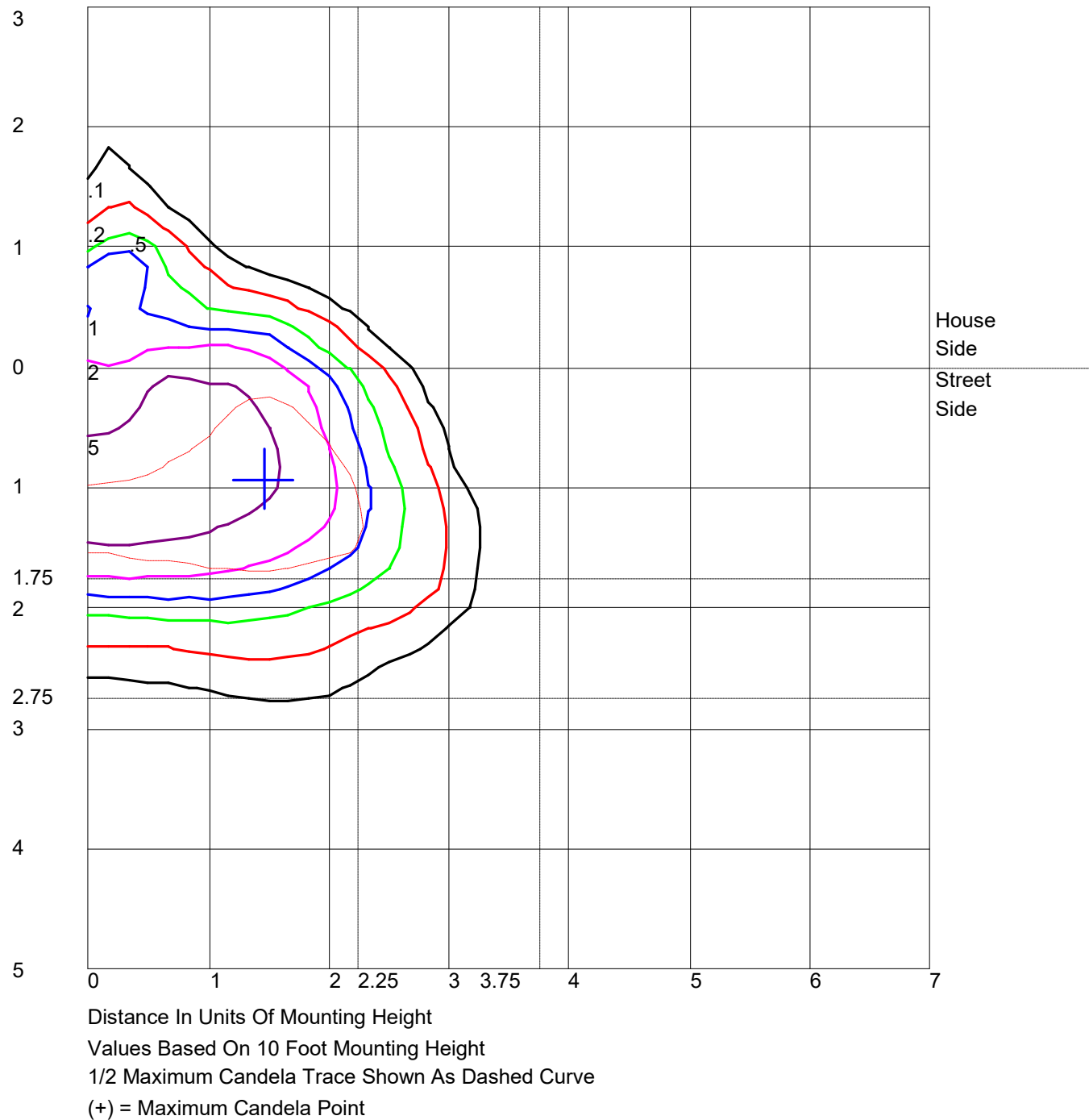
	Lumens	Percent Of Luminaire
Downward Street Side	4021.8	89.7
Downward House Side	451.5	10.1
Downward Total	4473.3	99.7
Upward Street Side	5.0	0.1
Upward House Side	6.9	0.2
Upward Total	11.9	0.3
Total Flux	4485.2	100.0

POLAR GRAPH

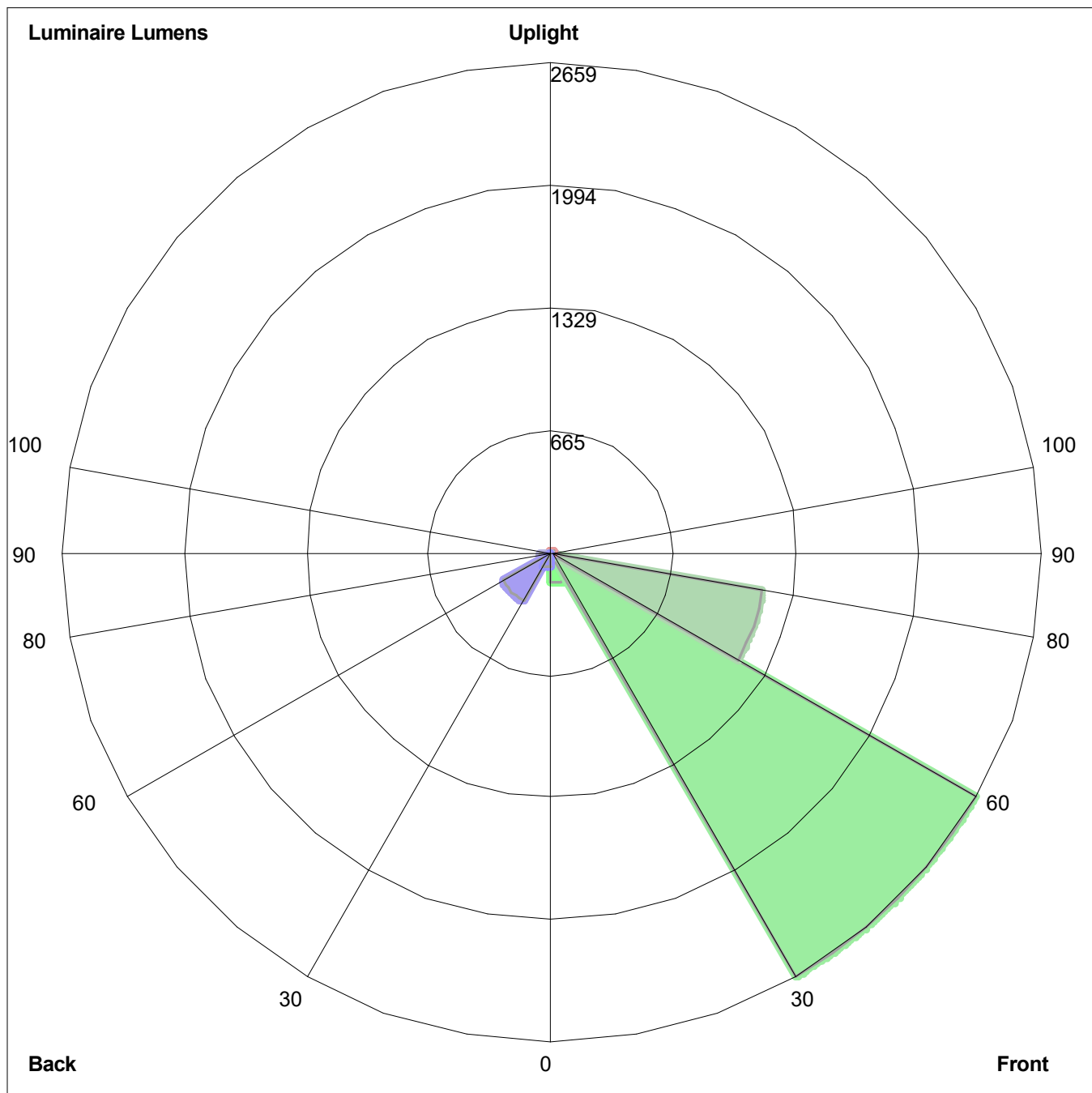


Maximum Candela = 4900 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=166.8, Medium=2658.8, High=1168.4, Very High=27.8
Back: Low=80.8, Medium=304.2, High=60.1, Very High=6.5
Uplight: Low=2.9, High=9.0

BUG Rating : B1-U1-G1