IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-40-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12638
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-2-40-70CRI-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
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10222
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	12332
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	12332
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	225 (2.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	775 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1200.1	N.A.	11.7
FM - Front-Medium (30-60)	4876.5	N.A.	47.7
FH - Front-High (60-80)	2038.4	N.A.	19.9
FVH - Front-Very High (80-90)	222.5	N.A.	2.2
BL - Back-Low (0-30)	294.7	N.A.	2.9
BM - Back-Medium (30-60)	634.5	N.A.	6.2
BH - Back-High (60-80)	268.1	N.A.	2.6
BVH - Back-Very High (80-90)	91.2	N.A.	0.9
UL - Uplight-Low (90-100)	166.8	N.A.	1.6
UH - Uplight-High (100-180)	429.7	N.A.	4.2
Total	10222.4	N.A.	100.0
BUG Rating	B1-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605
2.5	1660	1658	1677	1685	1664	1651	1624	1605	1599	1593
5.0	1885	1870	1903	1868	1868	1856	1854	1794	1649	1608
7.5	1714	1738	1743	1795	1848	1928	1927	1887	1810	1714
10.0	1935	1936	1870	1974	1938	1891	1934	1935	1950	1868
12.5	2071	2066	1986	1992	2068	2025	1933	2072	2164	2107
15.0	2183	2300	2253	2262	2206	2114	2249	2181	2318	2314
17.5	2569	2449	2498	2423	2486	2486	2405	2447	2566	2540
20.0	2718	2744	2808	2749	2703	2717	2796	2776	2783	2800
22.5	3028	3081	3056	2978	3156	3042	3144	3142	3085	3263
25.0	3076	3072	3160	3280	3319	3524	3561	3554	3537	3613
27.5	3130	3108	3180	3226	3590	3798	4080	4133	4015	4224
30.0	2890	2937	3013	3237	3562	4167	4587	4709	4665	4677
32.5	2619	2632	2824	3056	3591	4191	5050	5489	5492	5404
35.0	2257	2264	2447	2862	3468	4283	5360	6212	6108	5915
37.5	1896	1894	2070	2499	3288	4332	5483	6743	6808	6486
40.0	1539	1523	1690	2105	2907	4206	5553	7250	7537	7105
42.5	1205	1218	1355	1718	2483	3885	5523	7619	8191	8045
45.0	960	971	1088	1400	2066	3423	5430	7961	9068	8806
47.5	811	817	900	1166	1675	2927	5192	7904	9917	9860
50.0	761	759	808	1021	1381	2430	4717	7862	10614	10724
52.5	798	784	780	949	1190	1931	4157	7645	11032	10797
55.0	1142	1099	931	932	1086	1482	3567	7097	11211	11245
57.5	2031	1945	1582	1140	1020	1187	2755	6294	11190	11677
60.0	2433	2348	2095	1730	1148	1028	1857	5106	11131	12332
62.5	1745	1695	1653	1716	1524	864	1179	3794	10772	12247
65.0	1308	1313	1272	1273	1318	1028	802	2491	9591	10806
67.5	1206	1209	1159	1120	1039	1012	709	1437	6862	8512
70.0	1125	1129	1064	1023	944	858	837	843	4156	5723
72.5	878	885	867	895	878	794	841	644	1865	2852
75.0	746	746	710	717	789	755	738	772	733	1231
77.5	656	662	652	657	720	754	658	896	408	497
80.0	600	610	603	603	667	775	648	689	428	362
82.5	512	518	536	560	629	726	700	544	446	298
85.0	313	335	358	382	458	600	674	490	397	299
87.5	167	181	214	229	253	313	395	406	282	244
90.0	91	104	137	153	171	190	216	225	206	199
92.5	73	81	112	126	138	151	156	169	182	184
95.0	82	83	113	129	142	155	155	171	182	157
97.5	94	88	117	133	144	156	153	170	168	127
100.0	101	92	118	134	145	155	150	161	133	110
102.5	106	96	118	136	145	153	145	144	111	107
105.0	110	100	117	136	144	149	136	125	98	103
107.5	112	105	116	137	144	144	123	109	90	97
110.0	113	108	114	137	142	135	111	95	85	91
112.5	114	111	113	136	138	124	101	84	80	87
115.0	115	113	113	132	131	114	94	77	77	82
117.5	116	115	112	127	123	106	88	72	75	78
120.0	116	115	110	120	115	100	84	69	73	75
122.5	116	115	107	112	109	96	81	68	70	71
125.0	114	113	104	106	104	93	79	69	68	68
127.5	110	109	102	101	100	90	79	70	68	68
130.0	107	106	100	98	97	89	81	71	69	70

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CANDELA TABULATION - (Cont.)

132.5	104	103	99	95	95	90	81	72	71	72
135.0	103	102	98	95	94	86	74	71	73	73
137.5	103	102	99	93	86	75	66	66	71	74
140.0	98	97	92	82	70	59	55	56	61	65
142.5	85	84	78	67	53	44	41	43	49	52
145.0	68	68	61	50	37	32	29	30	36	38
147.5	50	49	43	34	25	18	17	20	23	24
150.0	34	33	30	23	13	3	4	9	12	12
152.5	24	24	18	9	2	0	0	1	2	3
155.0	8	8	4	2	0	0	0	0	0	0
157.5	2	2	1	0	0	0	0	0	0	0
160.0	0	1	0	0	0	0	0	0	0	0
162.5	0	1	0	0	0	0	0	0	0	0
165.0	0	1	1	1	0	0	0	0	0	0
167.5	0	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	2	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605
2.5	1604	1602	1612	1635	1638	1624	1603	1562	1543	1546
5.0	1593	1619	1671	1642	1530	1430	1329	1219	1128	1038
7.5	1668	1668	1707	1559	1348	1101	897	766	692	624
10.0	1764	1746	1727	1439	1150	843	633	483	405	362
12.5	1924	1897	1888	1461	921	618	416	330	299	293
15.0	2086	2060	1938	1374	793	455	315	296	286	277
17.5	2371	2256	2120	1298	638	347	301	279	268	264
20.0	2648	2443	2203	1213	514	317	286	268	261	245
22.5	3049	2777	2483	1157	415	313	278	257	236	228
25.0	3424	3070	2578	1027	369	308	274	236	215	198
27.5	3985	3433	2842	900	362	305	255	215	183	177
30.0	4544	3879	3004	751	360	295	236	188	165	159
32.5	5003	4154	3065	619	347	278	207	169	156	157
35.0	5517	4421	3100	508	333	256	184	161	155	153
37.5	6178	4794	3093	438	311	227	167	162	155	147
40.0	6796	5249	3004	406	286	198	167	166	147	120
42.5	7425	5553	2894	382	256	177	178	163	122	98
45.0	8281	5900	2767	365	233	185	186	140	109	93
47.5	8795	6175	2538	381	232	196	176	124	108	94
50.0	9261	6602	2252	447	278	228	157	123	114	127
52.5	9867	6850	2001	385	294	297	171	131	160	185
55.0	10534	7230	1711	302	229	271	223	185	216	224
57.5	10911	7101	1368	249	193	190	232	244	217	165
60.0	11353	6888	1004	223	192	165	217	247	160	135
62.5	11152	6484	765	203	186	171	226	183	138	122
65.0	9883	5376	565	190	175	195	203	151	136	119
67.5	7950	4082	444	188	171	214	166	152	135	120
70.0	5795	2843	372	190	179	195	159	149	139	123
72.5	3397	1789	295	185	188	174	158	149	138	128
75.0	1850	1153	241	181	189	169	161	152	143	131
77.5	639	478	201	186	181	169	164	156	148	134

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CANDELA TABULATION - (Cont.)

80.0	406	339	178	200	183	171	169	159	151	138
82.5	288	262	157	209	190	175	176	164	156	150
85.0	230	169	164	215	198	179	187	170	160	161
87.5	200	74	185	210	195	178	184	182	167	149
90.0	162	53	174	199	189	175	183	173	163	150
92.5	113	113	152	201	193	177	186	178	169	156
95.0	102	161	142	196	189	167	181	176	170	157
97.5	124	165	140	178	180	158	175	171	166	154
100.0	132	157	141	154	172	154	169	168	165	150
102.5	128	144	135	131	159	151	165	166	163	145
105.0	120	132	126	116	143	146	161	164	162	140
107.5	112	120	117	106	127	138	157	162	159	134
110.0	103	109	107	99	113	128	150	159	157	127
112.5	95	99	98	93	102	120	142	155	152	122
115.0	88	92	91	89	94	112	134	149	146	119
117.5	82	85	84	85	88	107	126	140	139	116
120.0	78	80	79	81	84	102	120	132	129	114
122.5	73	75	75	77	82	97	114	125	120	111
125.0	70	71	71	75	81	95	109	117	111	108
127.5	69	69	70	74	81	95	105	111	103	105
130.0	70	70	71	75	81	94	103	104	98	102
132.5	71	71	73	78	80	88	98	101	94	100
135.0	74	74	76	79	80	79	86	92	94	100
137.5	75	77	78	77	72	68	68	75	83	95
140.0	67	69	69	65	60	54	50	56	67	78
142.5	55	56	56	51	44	40	36	38	50	60
145.0	41	41	41	36	31	27	24	26	34	43
147.5	25	25	24	21	19	14	12	17	22	27
150.0	12	12	11	11	9	4	3	6	14	18
152.5	3	3	3	2	2	2	1	2	5	9
155.0	0	0	0	0	1	0	1	1	2	3
157.5	0	0	0	0	0	0	1	1	2	2
160.0	0	0	0	0	0	0	0	1	2	2
162.5	0	0	0	0	0	0	0	1	2	2
165.0	0	0	0	0	0	0	0	1	2	2
167.5	0	0	0	0	0	0	0	1	2	2
170.0	0	0	0	0	0	0	0	1	1	2
172.5	0	0	0	0	0	0	0	0	1	1
175.0	0	0	0	0	0	0	0	0	1	1
177.5	0	0	0	0	0	0	0	0	0	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	1605	1605
2.5	1548	1558
5.0	1022	1009
7.5	612	612
10.0	342	345
12.5	290	290
15.0	271	269
17.5	262	262
20.0	239	238
22.5	220	219
25.0	191	192

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CANDELA TABULATION - (Cont.)

27.5	172	171
30.0	160	159
32.5	159	159
35.0	157	156
37.5	146	144
40.0	116	114
42.5	99	98
45.0	95	95
47.5	97	98
50.0	149	157
52.5	191	198
55.0	197	198
57.5	124	127
60.0	105	106
62.5	95	96
65.0	87	86
67.5	84	79
70.0	82	72
72.5	82	67
75.0	85	64
77.5	88	60
80.0	90	57
82.5	99	63
85.0	110	72
87.5	99	71
90.0	102	83
92.5	107	100
95.0	109	114
97.5	110	122
100.0	112	129
102.5	115	132
105.0	119	133
107.5	124	133
110.0	127	133
112.5	128	131
115.0	127	129
117.5	126	127
120.0	124	126
122.5	122	124
125.0	118	120
127.5	114	115
130.0	109	110
132.5	105	106
135.0	103	104
137.5	102	102
140.0	85	86
142.5	66	66
145.0	47	48
147.5	30	30
150.0	20	20
152.5	11	11
155.0	4	4
157.5	1	0
160.0	1	0
162.5	1	0
165.0	1	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	0	0

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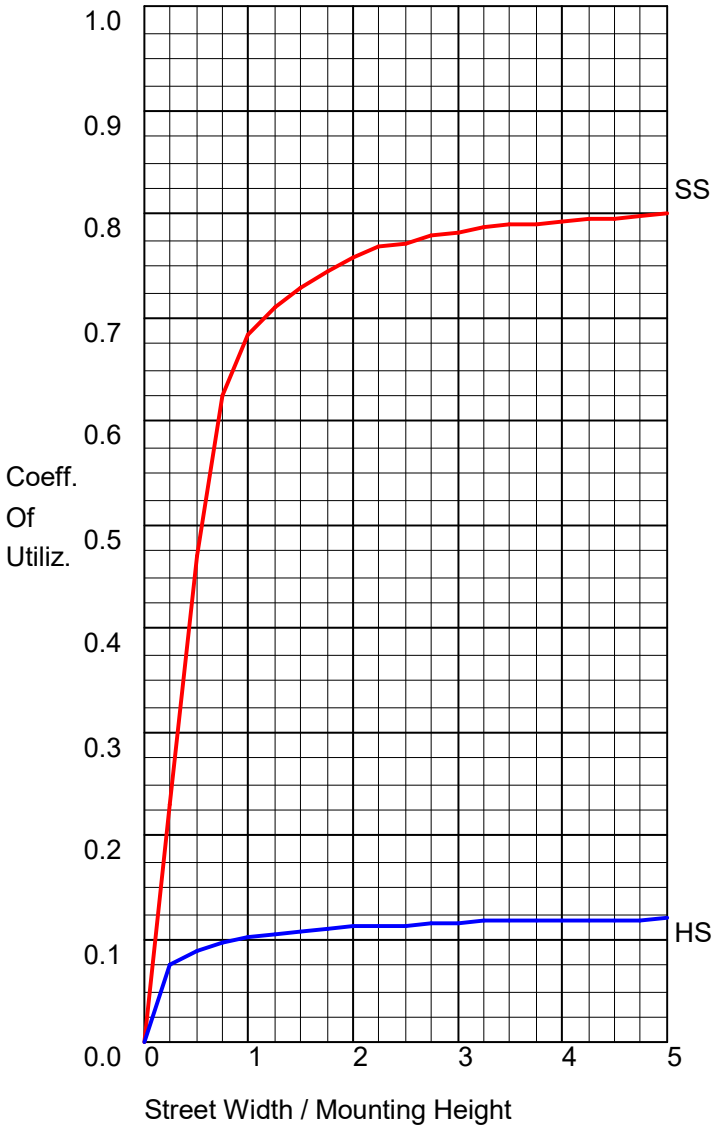
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8337.4	81.6
Downward House Side	1288.5	12.6
Downward Total	9625.9	94.2
Upward Street Side	283.8	2.8
Upward House Side	312.7	3.1
Upward Total	596.5	5.8
Total Flux	10222.4	100.0

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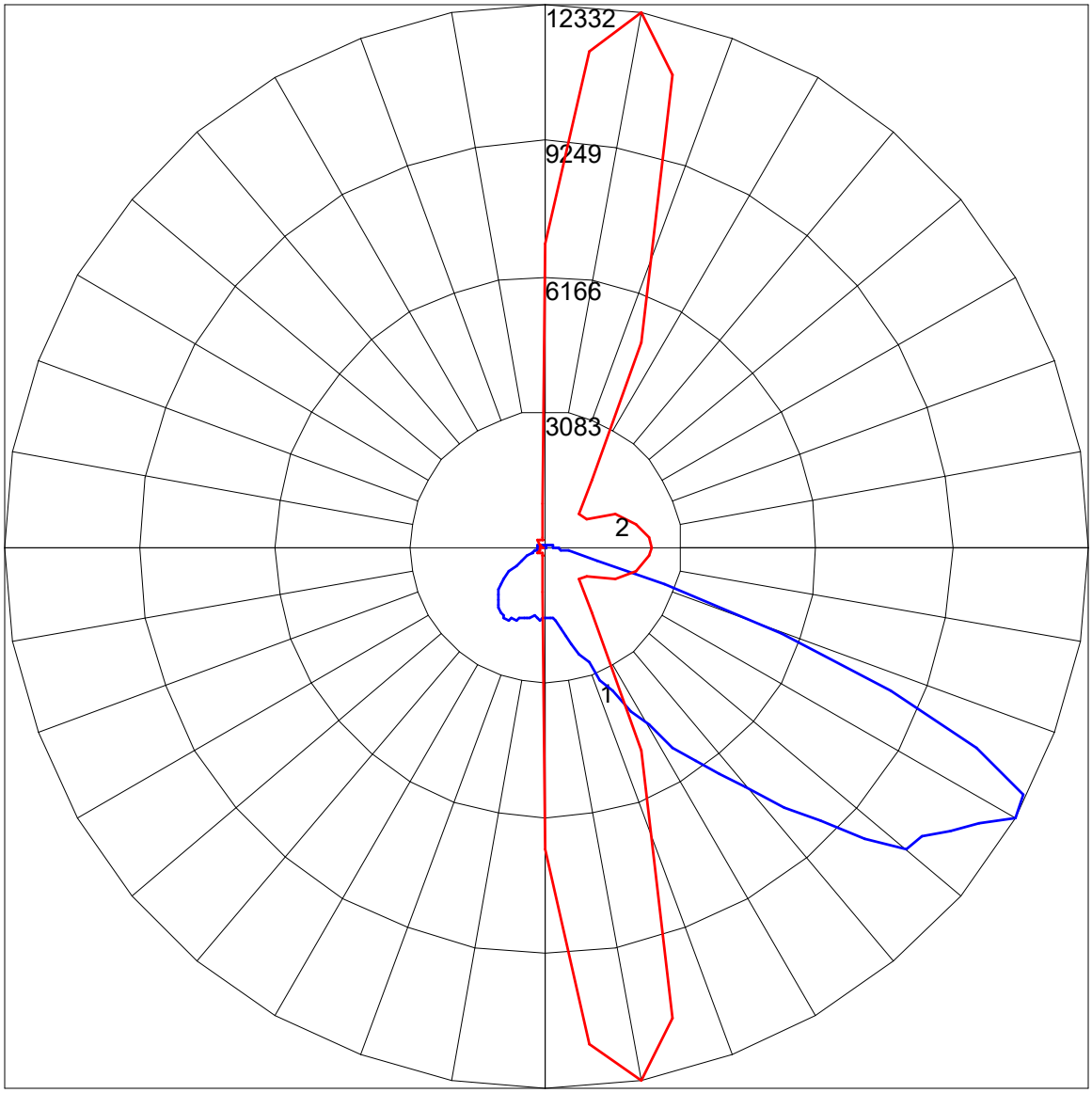
POLAR GRAPH



Maximum Candela = 12332 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

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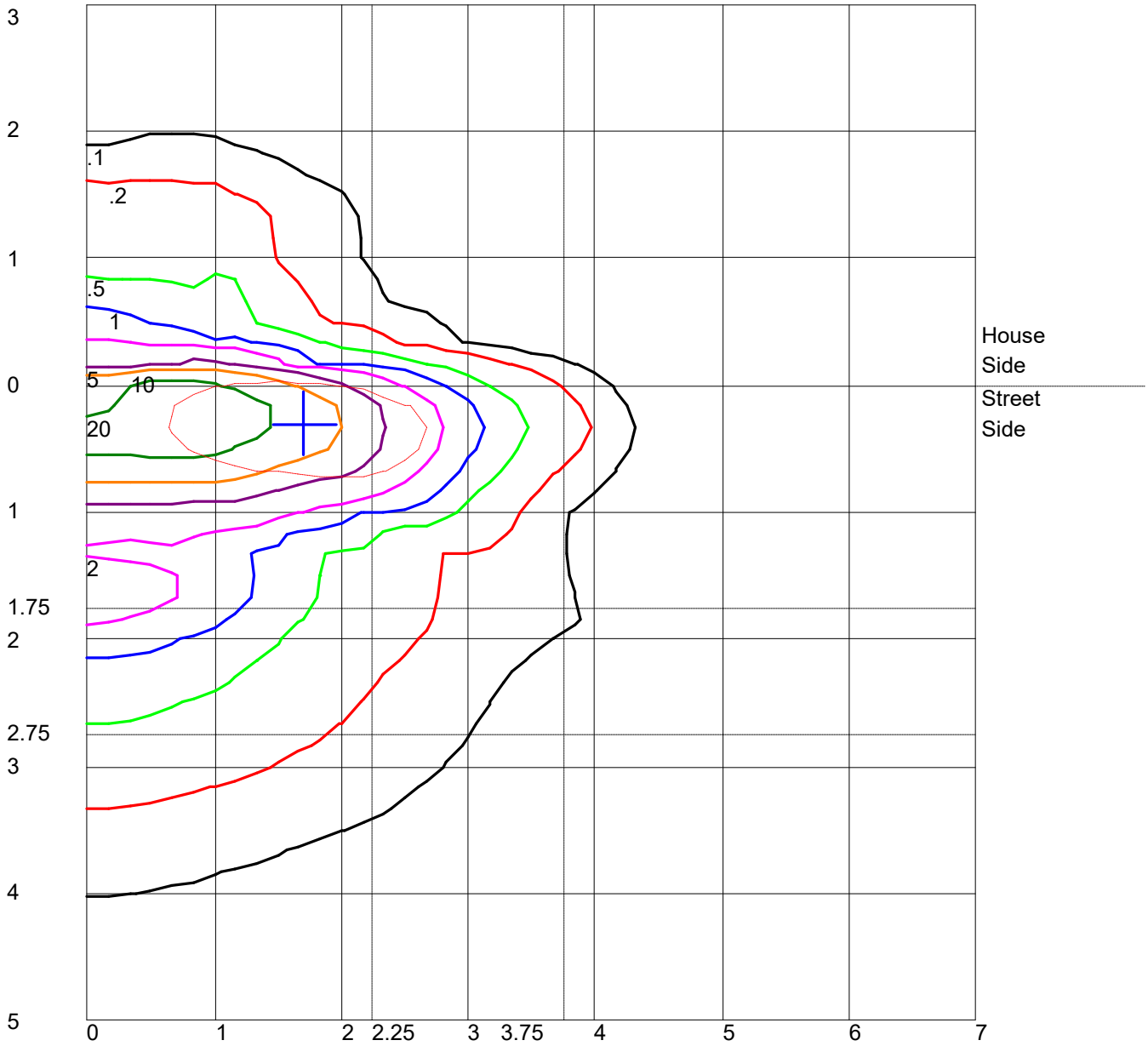
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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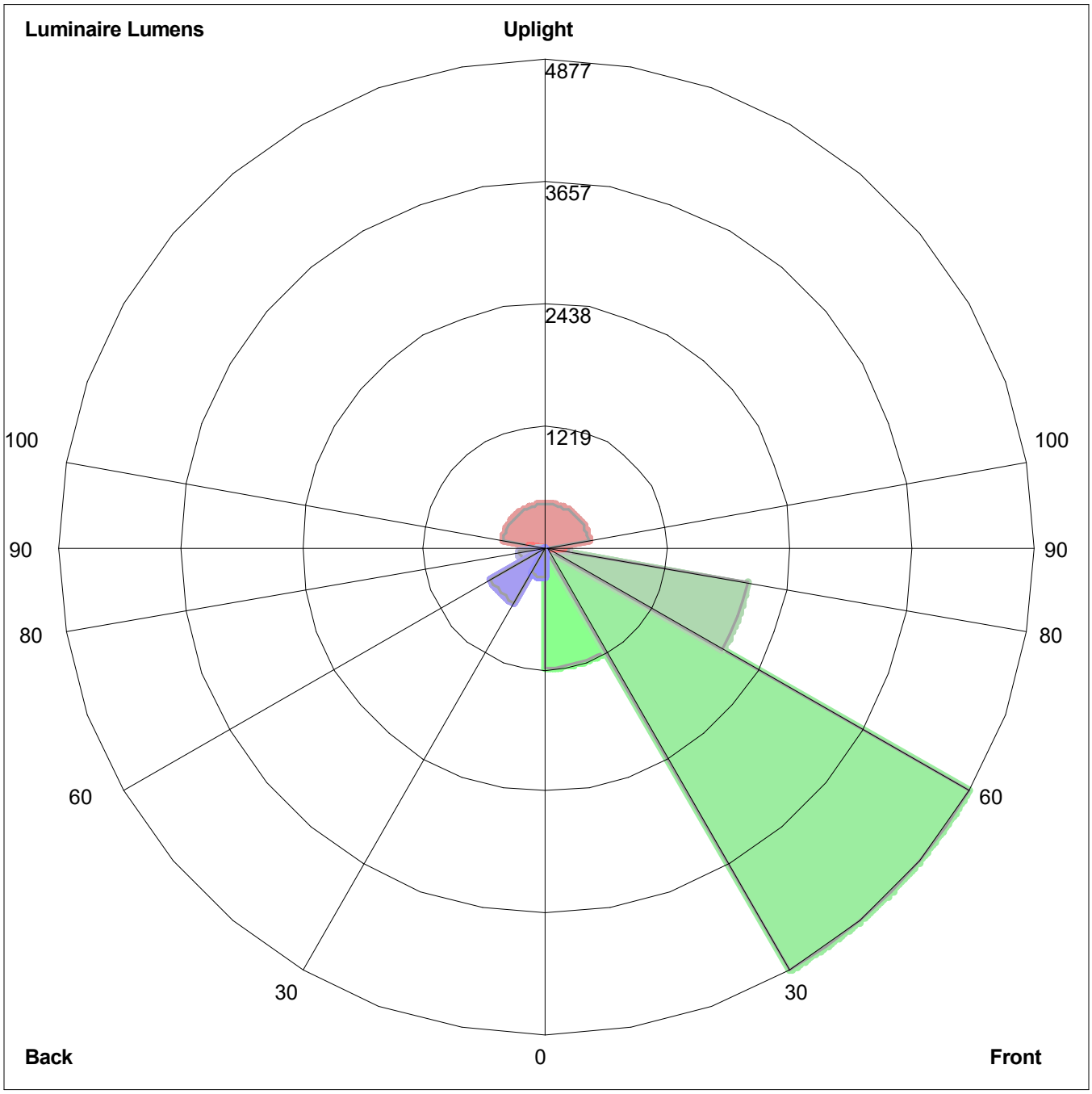
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1200.1, Medium=4876.5, High=2038.4, Very High=222.5
Back: Low=294.7, Medium=634.5, High=268.1, Very High=91.2
Uplight: Low=166.8, High=429.7

BUG Rating : B1-U3-G2

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