IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-30-70CRI-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-2-30-70CRI-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] 3000

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9815
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	11840
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	11840
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	216 (2.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	744 (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)	1152.2	N.A.	11.7
FM - Front-Medium (30-60)	4682.0	N.A.	47.7
FH - Front-High (60-80)	1957.1	N.A.	19.9
FVH - Front-Very High (80-90)	213.6	N.A.	2.2
BL - Back-Low (0-30)	283.0	N.A.	2.9
BM - Back-Medium (30-60)	609.2	N.A.	6.2
BH - Back-High (60-80)	257.4	N.A.	2.6
BVH - Back-Very High (80-90)	87.5	N.A.	0.9
UL - Uplight-Low (90-100)	160.2	N.A.	1.6
UH - Uplight-High (100-180)	412.5	N.A.	4.2
Total	9814.7	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	1541	1541	1541	1541	1541	1541	1541	1541	1541	1541
2.5	1594	1592	1610	1618	1598	1585	1559	1541	1535	1529
5.0	1810	1795	1827	1793	1793	1782	1780	1722	1583	1544
7.5	1646	1669	1673	1723	1774	1851	1850	1812	1738	1646
10.0	1858	1859	1795	1895	1861	1816	1857	1858	1872	1793
12.5	1988	1984	1907	1913	1985	1944	1856	1989	2078	2023
15.0	2096	2208	2163	2172	2118	2030	2159	2094	2226	2222
17.5	2466	2351	2398	2326	2387	2387	2309	2349	2464	2439
20.0	2610	2635	2696	2639	2595	2609	2684	2665	2672	2688
22.5	2907	2958	2934	2859	3030	2921	3019	3017	2962	3133
25.0	2953	2949	3034	3149	3187	3383	3419	3412	3396	3469
27.5	3005	2984	3053	3097	3447	3646	3917	3968	3855	4055
30.0	2775	2820	2893	3108	3420	4001	4404	4521	4479	4490
32.5	2515	2527	2711	2934	3448	4024	4849	5270	5273	5188
35.0	2167	2174	2349	2748	3330	4112	5146	5964	5864	5679
37.5	1820	1818	1987	2399	3157	4159	5264	6474	6536	6227
40.0	1478	1462	1623	2021	2791	4038	5331	6961	7236	6822
42.5	1157	1169	1301	1649	2384	3730	5303	7315	7864	7724
45.0	922	932	1045	1344	1984	3286	5213	7643	8706	8455
47.5	779	784	864	1119	1608	2810	4985	7589	9521	9467
50.0	731	729	776	980	1326	2333	4529	7548	10191	10296
52.5	766	753	749	911	1143	1854	3991	7340	10592	10366
55.0	1096	1055	894	895	1043	1423	3425	6814	10764	10796
57.5	1950	1867	1519	1095	979	1140	2645	6043	10744	11211
60.0	2336	2254	2011	1661	1102	987	1783	4902	10687	11840
62.5	1675	1627	1587	1648	1463	830	1132	3643	10342	11758
65.0	1256	1261	1221	1222	1265	987	770	2392	9208	10375
67.5	1158	1161	1113	1075	998	972	681	1380	6588	8172
70.0	1080	1084	1022	982	906	824	804	809	3990	5495
72.5	843	850	832	859	843	762	807	618	1791	2738
75.0	716	716	682	688	758	725	709	741	704	1182
77.5	630	636	626	631	691	724	632	860	392	477
80.0	576	586	579	579	640	744	622	662	411	348
82.5	492	497	515	538	604	697	672	522	428	286
85.0	301	322	344	367	440	576	647	470	381	287
87.5	160	174	205	220	243	301	379	390	271	234
90.0	87	100	132	147	164	182	207	216	198	191
92.5	70	78	108	121	132	145	150	162	175	177
95.0	79	80	108	124	136	149	149	164	175	151
97.5	90	84	112	128	138	150	147	163	161	122
100.0	97	88	113	129	139	149	144	155	128	106
102.5	102	92	113	131	139	147	139	138	107	103
105.0	106	96	112	131	138	143	131	120	94	99
107.5	108	101	111	132	138	138	118	105	86	93
110.0	108	104	109	132	136	130	107	91	82	87
112.5	109	107	108	131	132	119	97	81	77	84
115.0	110	108	108	127	126	109	90	74	74	79
117.5	111	110	108	122	118	102	84	69	72	75
120.0	111	110	106	115	110	96	81	66	70	72
122.5	111	110	103	108	105	92	78	65	67	68
125.0	109	108	100	102	100	89	76	66	65	65
127.5	106	105	98	97	96	86	76	67	65	65
130.0	103	102	96	94	93	85	78	68	66	67

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CANDELA TABULATION - (Cont.)

132.5	100	99	95	91	91	86	78	69	68	69
135.0	99	98	94	91	90	83	71	68	70	70
137.5	99	98	95	89	83	72	63	63	68	71
140.0	94	93	88	79	67	57	53	54	59	62
142.5	82	81	75	64	51	42	39	41	47	50
145.0	65	65	59	48	36	31	28	29	35	36
147.5	48	47	41	33	24	17	16	19	22	23
150.0	33	32	29	22	12	3	4	9	12	12
152.5	23	23	17	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	1541	1541	1541	1541	1541	1541	1541	1541	1541	1541
2.5	1540	1538	1548	1570	1573	1559	1539	1500	1481	1484
5.0	1529	1554	1604	1576	1469	1373	1276	1170	1083	997
7.5	1601	1601	1639	1497	1294	1057	861	735	664	599
10.0	1694	1676	1658	1382	1104	809	608	464	389	348
12.5	1847	1821	1813	1403	884	593	399	317	287	281
15.0	2003	1978	1861	1319	761	437	302	284	275	266
17.5	2276	2166	2035	1246	613	333	289	268	257	253
20.0	2542	2346	2115	1165	493	304	275	257	251	235
22.5	2927	2666	2384	1111	398	301	267	247	227	219
25.0	3287	2948	2475	986	354	296	263	227	206	190
27.5	3826	3296	2729	864	348	293	245	206	176	170
30.0	4363	3724	2884	721	346	283	227	180	158	153
32.5	4803	3988	2943	594	333	267	199	162	150	151
35.0	5297	4245	2976	488	320	246	177	155	149	147
37.5	5931	4603	2970	421	299	218	160	156	149	141
40.0	6525	5040	2884	390	275	190	160	159	141	115
42.5	7129	5331	2779	367	246	170	171	156	117	94
45.0	7951	5665	2657	350	224	178	179	134	105	89
47.5	8444	5929	2437	366	223	188	169	119	104	90
50.0	8891	6339	2162	429	267	219	151	118	109	122
52.5	9473	6577	1921	370	282	285	164	126	154	178
55.0	10114	6942	1643	290	220	260	214	178	207	215
57.5	10476	6818	1313	239	185	182	223	234	208	158
60.0	10900	6613	964	214	184	158	208	237	154	130
62.5	10707	6225	734	195	179	164	217	176	132	117
65.0	9489	5161	542	182	168	187	195	145	131	114
67.5	7633	3919	426	180	164	205	159	146	130	115
70.0	5564	2730	357	182	172	187	153	143	133	118
72.5	3261	1718	283	178	180	167	152	143	132	123
75.0	1776	1107	231	174	181	162	155	146	137	126
77.5	614	459	193	179	174	162	157	150	142	129

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CANDELA TABULATION - (Cont.)

80.0	390	325	171	192	176	164	162	153	145	132
82.5	277	252	151	201	182	168	169	157	150	144
85.0	221	162	157	206	190	172	180	163	154	155
87.5	192	71	178	202	187	171	177	175	160	143
90.0	156	51	167	191	181	168	176	166	156	144
92.5	108	108	146	193	185	170	179	171	162	150
95.0	98	155	136	188	181	160	174	169	163	151
97.5	119	158	134	171	173	152	168	164	159	148
100.0	127	151	135	148	165	148	162	161	158	144
102.5	123	138	130	126	153	145	158	159	156	139
105.0	115	127	121	111	137	140	155	157	156	134
107.5	108	115	112	102	122	132	151	156	153	129
110.0	99	105	103	95	108	123	144	153	151	122
112.5	91	95	94	89	98	115	136	149	146	117
115.0	84	88	87	85	90	108	129	143	140	114
117.5	79	82	81	82	84	103	121	134	133	111
120.0	75	77	76	78	81	98	115	127	124	109
122.5	70	72	72	74	79	93	109	120	115	107
125.0	67	68	68	72	78	91	105	112	107	104
127.5	66	66	67	71	78	91	101	107	99	101
130.0	67	67	68	72	78	90	99	100	94	98
132.5	68	68	70	75	77	84	94	97	90	96
135.0	71	71	73	76	77	76	83	88	90	96
137.5	72	74	75	74	69	65	65	72	80	91
140.0	64	66	66	62	58	52	48	54	64	75
142.5	53	54	54	49	42	38	35	36	48	58
145.0	39	39	39	35	30	26	23	25	33	41
147.5	24	24	23	20	18	13	12	16	21	26
150.0	12	12	11	11	9	4	3	6	13	17
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	1541	1541
2.5	1486	1496
5.0	981	969
7.5	588	588
10.0	328	331
12.5	278	278
15.0	260	258
17.5	252	252
20.0	229	229
22.5	211	210
25.0	183	184

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CANDELA TABULATION - (Cont.)

27.5	165	164
30.0	154	153
32.5	153	153
35.0	151	150
37.5	140	138
40.0	111	109
42.5	95	94
45.0	91	91
47.5	93	94
50.0	143	151
52.5	183	190
55.0	189	190
57.5	119	122
60.0	101	102
62.5	91	92
65.0	84	83
67.5	81	76
70.0	79	69
72.5	79	64
75.0	82	61
77.5	84	58
80.0	86	55
82.5	95	60
85.0	106	69
87.5	95	68
90.0	98	80
92.5	103	96
95.0	105	109
97.5	106	117
100.0	108	124
102.5	110	127
105.0	114	128
107.5	119	128
110.0	122	128
112.5	123	126
115.0	122	124
117.5	121	122
120.0	119	121
122.5	117	119
125.0	113	115
127.5	109	110
130.0	105	106
132.5	101	102
135.0	99	100
137.5	98	98
140.0	82	83
142.5	63	63
145.0	45	46
147.5	29	29
150.0	19	19
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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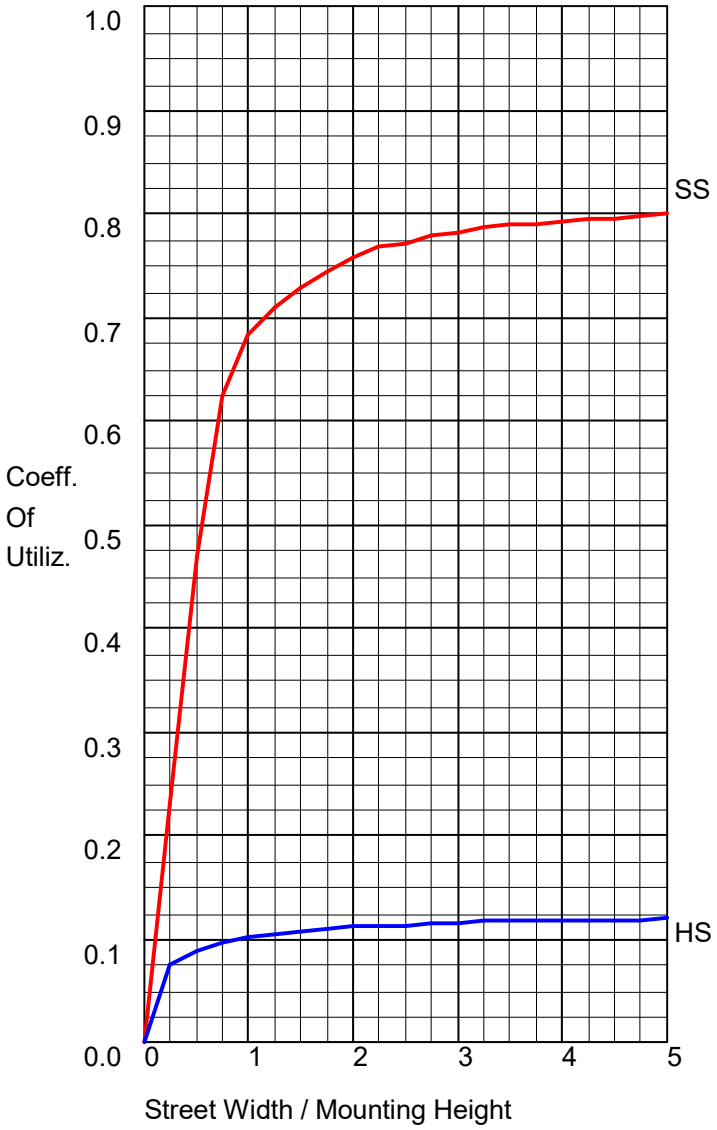
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8004.8	81.6
Downward House Side	1237.1	12.6
Downward Total	9241.9	94.2
Upward Street Side	272.4	2.8
Upward House Side	300.2	3.1
Upward Total	572.6	5.8
Total Flux	9814.5	100.0

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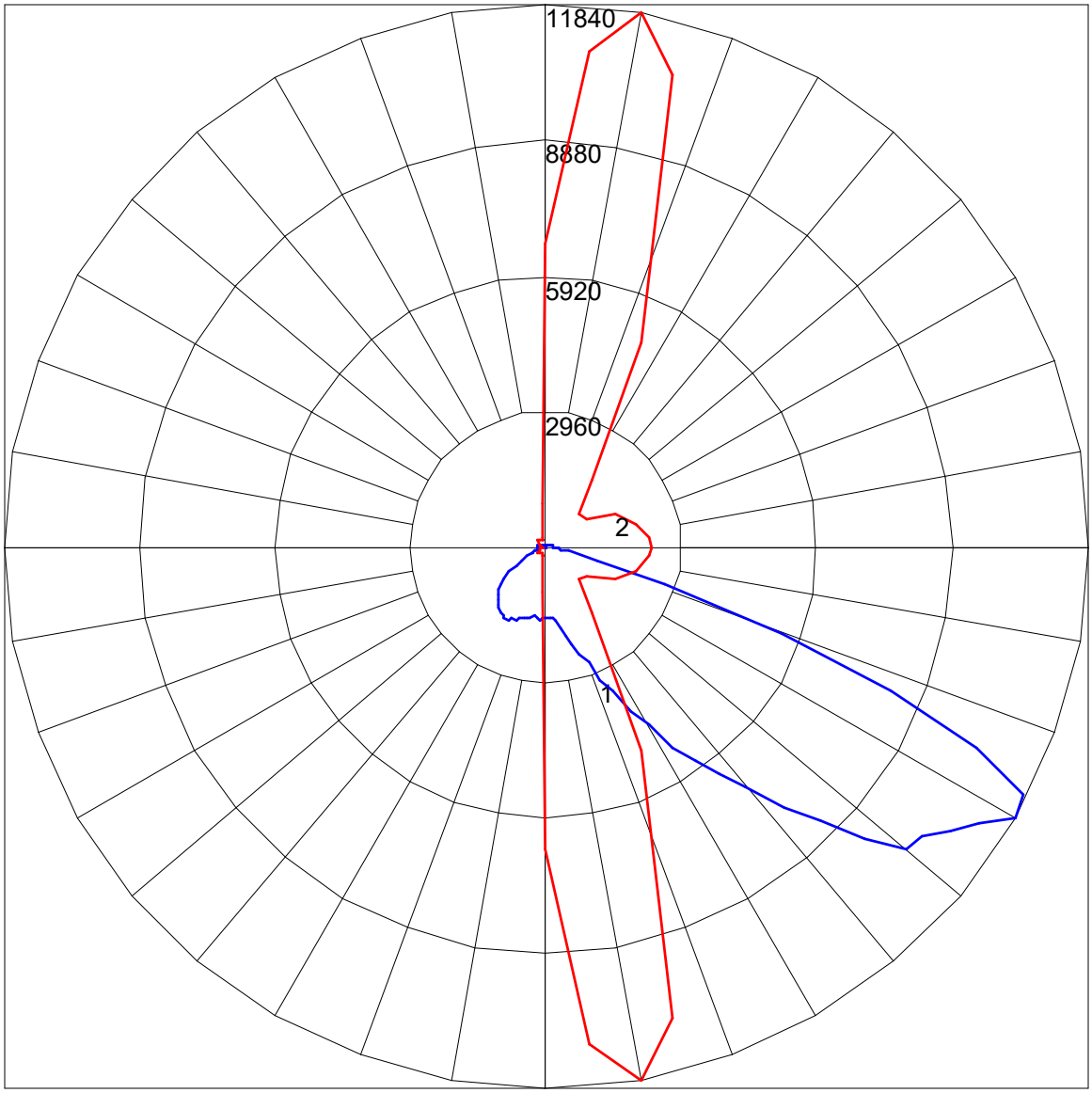
POLAR GRAPH



Maximum Candela = 11840 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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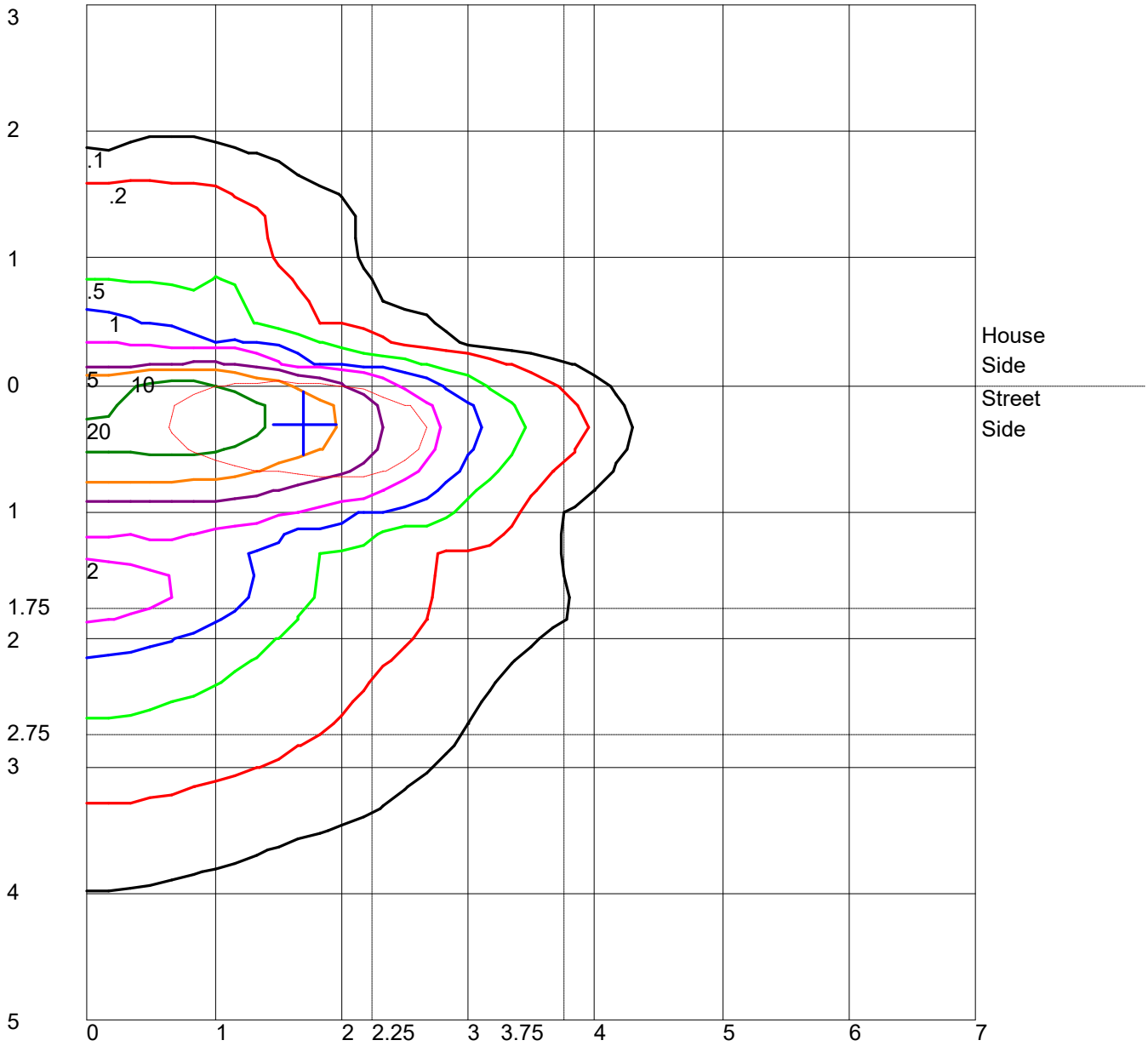
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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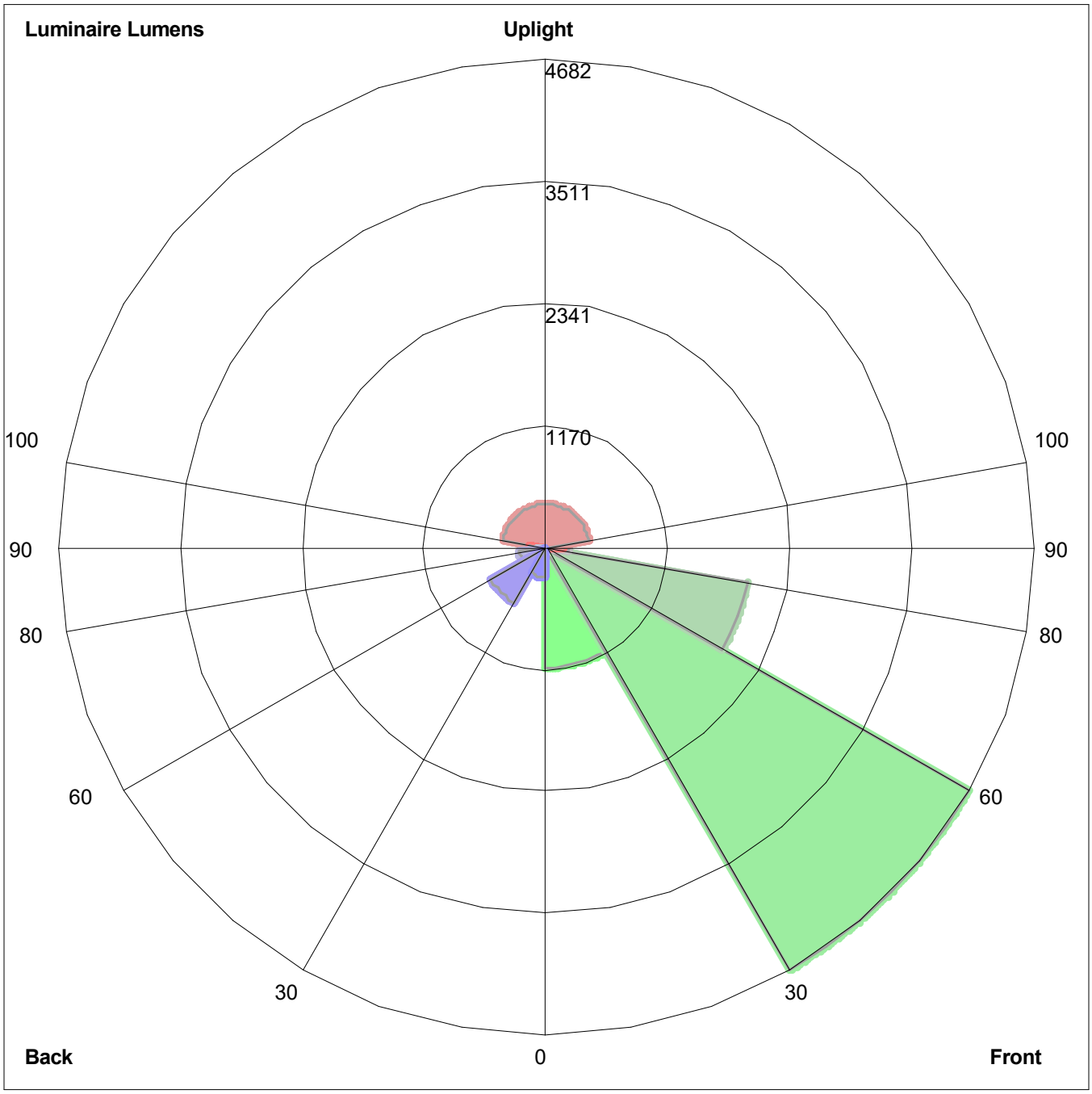
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1152.2, Medium= 4682.0, High=1957.1, Very High=213.6
Back: Low=283.0, Medium=609.2, High=257.4, Very High=87.5
Uplight: Low=160.2, High=412.5

BUG Rating : B1-U3-G2

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