IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12643
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5147
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	4112
Maximum Candela Angle	30H 67.5V
Maximum Candela (<90 Degrees Vertical)	4112
Maximum Candela Angle (<90 Degrees Vertical)	30H 67.5V
Maximum Candela At 90 Degrees Vertical	73 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	718 (13.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	418.5	N.A.	8.1
FM - Front-Medium (30-60)	2066.9	N.A.	40.2
FH - Front-High (60-80)	1933.6	N.A.	37.6
FVH - Front-Very High (80-90)	82.6	N.A.	1.6
BL - Back-Low (0-30)	88.4	N.A.	1.7
BM - Back-Medium (30-60)	192.4	N.A.	3.7
BH - Back-High (60-80)	106.8	N.A.	2.1
BVH - Back-Very High (80-90)	34.7	N.A.	0.7
UL - Uplight-Low (90-100)	60.8	N.A.	1.2
UH - Uplight-High (100-180)	162.2	N.A.	3.2
Total	5146.9	N.A.	100.0
BUG Rating	B0-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	30	35	45	55	65	75
0.0	392	392	392	392	392	392	392	392	392	392
2.5	461	459	446	444	443	444	438	428	417	407
5.0	508	506	492	508	505	514	524	505	478	447
7.5	697	680	672	664	650	629	584	535	519	487
10.0	745	736	734	752	740	746	713	663	568	543
12.5	824	795	824	832	822	809	781	757	685	587
15.0	840	830	828	840	852	875	889	840	821	670
17.5	941	914	941	946	945	926	941	959	922	799
20.0	1055	1050	1055	1029	1037	1051	1016	1042	1028	894
22.5	1141	1141	1170	1180	1158	1129	1153	1114	1122	1018
25.0	1254	1265	1293	1248	1262	1291	1233	1199	1214	1099
27.5	1311	1314	1318	1369	1386	1362	1378	1307	1259	1204
30.0	1305	1328	1372	1402	1409	1471	1466	1411	1307	1308
32.5	1249	1255	1318	1441	1497	1533	1592	1507	1397	1367
35.0	1205	1202	1256	1389	1464	1575	1701	1595	1465	1389
37.5	1164	1166	1216	1341	1422	1542	1806	1735	1569	1398
40.0	1163	1164	1213	1333	1410	1521	1828	1854	1692	1431
42.5	1241	1231	1277	1375	1435	1536	1842	2025	1759	1520
45.0	1395	1391	1423	1494	1519	1601	1864	2126	1859	1606
47.5	1630	1626	1662	1706	1690	1738	1922	2206	2037	1729
50.0	1905	1890	1937	2006	1953	1947	2017	2269	2203	1922
52.5	2036	2040	2132	2281	2243	2207	2124	2334	2303	1984
55.0	2095	2097	2206	2434	2458	2430	2246	2315	2255	2062
57.5	2424	2410	2403	2516	2543	2545	2377	2185	2187	2151
60.0	3065	3093	2995	2851	2737	2592	2327	1984	2044	2281
62.5	3479	3525	3561	3574	3367	2976	2096	1790	1817	2324
65.0	3555	3617	3729	3988	3955	3719	2178	1568	1495	2156
67.5	3365	3409	3595	4016	4112	4074	3106	1291	1138	1723
70.0	2590	2612	3021	3550	3767	3932	3533	1528	809	1198
72.5	1012	1133	1666	2540	3135	3621	3263	2108	525	638
75.0	360	392	670	1092	1469	2174	3099	1865	364	303
77.5	265	274	357	585	710	977	1550	1166	342	161
80.0	186	191	224	323	380	497	692	718	365	124
82.5	103	108	121	149	174	222	342	358	244	149
85.0	55	60	69	85	102	130	193	243	171	124
87.5	31	34	43	59	68	73	100	119	100	82
90.0	22	24	33	40	43	47	59	69	66	67
92.5	24	24	33	39	43	46	52	54	59	65
95.0	27	25	34	41	43	47	54	55	60	61
97.5	29	26	35	41	44	48	54	55	59	51
100.0	30	28	35	42	44	48	53	54	54	42
102.5	32	29	35	42	45	48	52	51	46	35
105.0	33	31	36	43	45	48	51	46	39	33
107.5	34	33	36	44	46	48	48	39	34	32
110.0	35	34	36	44	46	47	43	35	31	31
112.5	35	35	37	44	45	44	39	32	29	30
115.0	36	36	37	43	43	41	35	30	28	30
117.5	37	37	37	40	39	38	33	30	27	30
120.0	37	37	36	37	37	35	32	29	27	29
122.5	37	37	35	35	35	34	32	29	27	29
125.0	36	35	33	34	34	33	31	29	27	28
127.5	35	35	33	33	33	33	31	30	28	29
130.0	34	34	33	32	33	33	32	30	29	30

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CANDELA TABULATION - (Cont.)

132.5	34	34	33	32	33	33	31	29	29	30
135.0	34	34	33	32	32	31	29	28	29	31
137.5	34	33	32	29	28	27	24	24	27	30
140.0	30	30	28	25	23	22	20	20	23	27
142.5	25	24	22	19	17	15	15	16	19	23
145.0	19	18	16	13	12	11	11	11	14	17
147.5	12	12	11	9	9	7	5	7	10	12
150.0	9	9	8	5	4	2	2	3	6	8
152.5	4	3	2	2	2	1	1	2	3	4
155.0	1	1	1	1	1	1	1	2	2	3
157.5	0	0	1	1	1	1	1	1	2	2
160.0	0	0	1	1	1	1	1	1	2	2
162.5	0	0	1	1	1	1	1	1	2	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	2	2
170.0	0	0	1	1	1	1	1	1	2	2
172.5	0	0	1	1	1	1	1	1	1	2
175.0	0	0	1	1	1	1	1	1	1	2
177.5	0	0	1	1	1	1	1	1	1	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	392	392	392	392	392	392	392	392	392	392
2.5	399	399	395	388	376	362	350	347	345	341
5.0	418	407	396	365	343	347	343	329	321	312
7.5	440	420	402	356	349	327	303	277	250	221
10.0	474	445	409	375	336	297	231	176	152	130
12.5	542	497	437	402	334	230	165	123	104	99
15.0	595	540	479	423	303	184	116	97	93	91
17.5	669	598	524	433	262	137	95	89	88	86
20.0	743	646	576	432	218	103	91	85	83	84
22.5	806	738	625	429	164	94	87	80	80	78
25.0	892	769	662	409	119	92	84	77	74	75
27.5	971	824	716	376	102	89	81	73	70	69
30.0	997	874	732	314	99	85	77	69	65	65
32.5	1073	900	754	265	96	83	74	65	65	68
35.0	1110	938	770	223	95	80	69	65	70	76
37.5	1147	1000	773	172	91	77	65	69	77	78
40.0	1192	1031	777	134	88	73	66	77	79	68
42.5	1286	1049	791	115	85	69	74	81	65	49
45.0	1328	1112	785	107	81	72	83	72	52	41
47.5	1380	1127	790	108	79	79	85	59	47	39
50.0	1476	1144	757	119	97	86	74	54	46	40
52.5	1499	1196	739	101	101	111	67	52	53	70
55.0	1585	1251	696	90	76	110	78	62	96	120
57.5	1710	1307	698	85	73	73	97	104	129	111
60.0	1865	1457	718	80	72	65	95	128	94	46
62.5	1961	1493	695	76	70	63	98	99	58	46
65.0	1986	1444	597	74	67	77	86	63	60	50
67.5	1782	1218	453	72	63	78	61	63	61	50
70.0	1337	793	248	69	65	69	64	67	58	51
72.5	672	366	121	67	64	68	65	61	59	52
75.0	295	191	90	66	69	67	63	61	59	56
77.5	196	134	78	65	69	63	65	63	60	58

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CANDELA TABULATION - (Cont.)

80.0	143	111	70	69	66	63	67	63	61	58
82.5	108	88	63	74	69	65	69	65	63	60
85.0	87	62	62	78	72	67	72	67	64	61
87.5	67	45	60	76	72	68	74	70	65	62
90.0	51	36	63	73	71	65	73	71	68	63
92.5	43	43	62	74	73	66	74	73	71	66
95.0	44	56	59	73	72	64	73	74	73	69
97.5	46	59	56	67	67	60	69	70	71	68
100.0	49	56	54	59	63	56	65	67	68	65
102.5	47	52	51	52	58	55	62	64	65	61
105.0	44	48	48	48	54	54	60	62	63	56
107.5	41	45	46	45	51	54	59	61	62	52
110.0	39	42	43	43	48	52	58	61	60	48
112.5	37	40	41	41	45	50	57	60	58	45
115.0	35	38	39	41	43	49	55	59	56	42
117.5	34	36	37	40	42	48	54	57	53	39
120.0	33	35	36	39	41	47	52	55	49	38
122.5	32	33	35	38	41	46	51	52	46	37
125.0	31	33	34	37	40	45	49	49	41	37
127.5	31	32	34	37	40	45	47	46	38	36
130.0	31	33	34	37	40	44	45	42	36	35
132.5	32	33	35	37	39	42	43	39	34	35
135.0	33	34	35	38	38	37	39	37	33	34
137.5	33	35	35	36	35	32	32	31	33	34
140.0	31	32	33	32	30	26	24	25	28	32
142.5	26	27	27	26	24	20	17	19	22	26
145.0	20	21	21	20	17	15	12	13	16	20
147.5	14	14	14	14	12	9	8	9	11	14
150.0	9	9	9	9	7	4	4	6	7	9
152.5	5	5	5	5	4	3	2	2	4	6
155.0	3	3	3	3	2	2	1	2	2	2
157.5	2	2	2	2	2	2	1	1	1	1
160.0	2	2	2	2	2	2	1	1	1	1
162.5	2	2	2	2	2	1	1	1	1	1
165.0	2	2	2	2	2	1	1	1	1	0
167.5	2	2	2	2	2	1	1	1	1	0
170.0	2	2	2	2	2	1	1	1	1	0
172.5	2	2	2	2	2	1	1	1	0	0
175.0	2	2	2	2	2	1	1	1	0	0
177.5	2	2	2	2	2	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	392	392
2.5	340	341
5.0	308	312
7.5	210	212
10.0	121	123
12.5	95	93
15.0	90	90
17.5	85	84
20.0	82	83
22.5	77	77
25.0	73	73

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CANDELA TABULATION - (Cont.)

27.5	67	67
30.0	65	65
32.5	71	71
35.0	78	78
37.5	78	78
40.0	62	60
42.5	46	45
45.0	40	39
47.5	38	38
50.0	41	41
52.5	86	93
55.0	125	128
57.5	76	76
60.0	37	40
62.5	36	38
65.0	37	38
67.5	35	35
70.0	35	32
72.5	35	29
75.0	35	26
77.5	36	24
80.0	37	22
82.5	39	21
85.0	38	21
87.5	39	22
90.0	40	24
92.5	42	29
95.0	44	36
97.5	45	41
100.0	43	44
102.5	42	46
105.0	41	45
107.5	40	44
110.0	40	43
112.5	40	43
115.0	41	42
117.5	40	41
120.0	40	41
122.5	40	40
125.0	39	39
127.5	39	39
130.0	37	37
132.5	36	36
135.0	35	35
137.5	35	35
140.0	33	34
142.5	28	28
145.0	21	22
147.5	15	15
150.0	10	10
152.5	7	7
155.0	3	3
157.5	1	1
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

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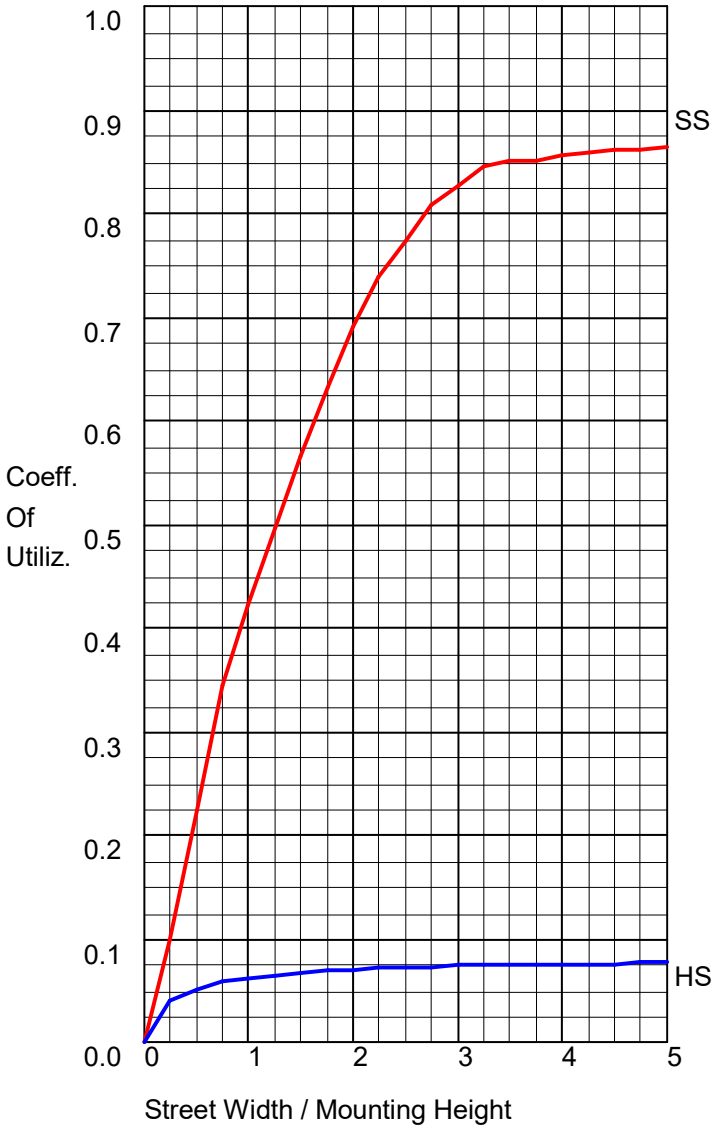
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4501.7	87.5
Downward House Side	422.3	8.2
Downward Total	4924.0	95.7
Upward Street Side	96.5	1.9
Upward House Side	126.5	2.5
Upward Total	223.0	4.3
Total Flux	5147.0	100.0

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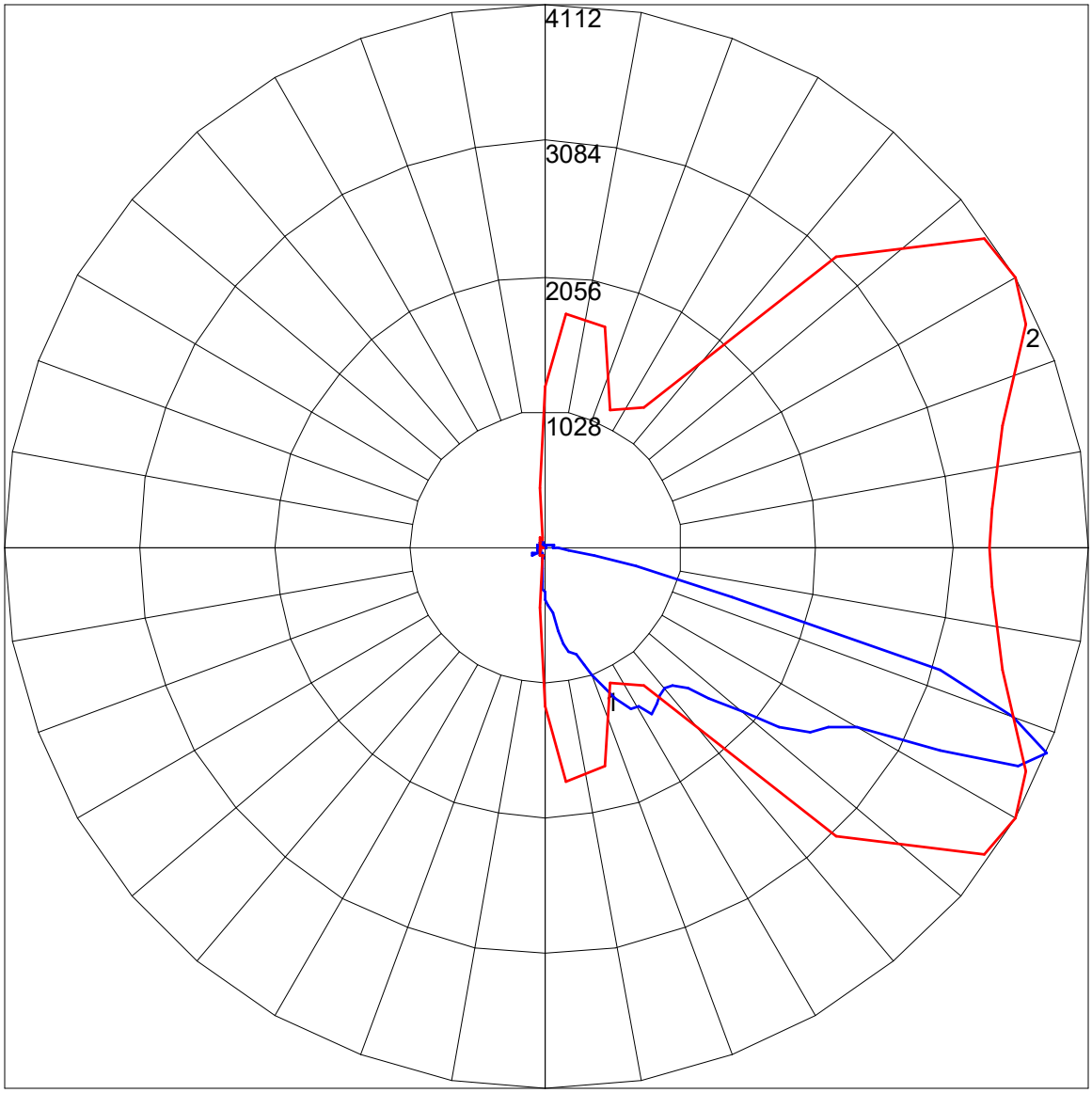
POLAR GRAPH



Maximum Candela = 4112 Located At Horizontal Angle = 30, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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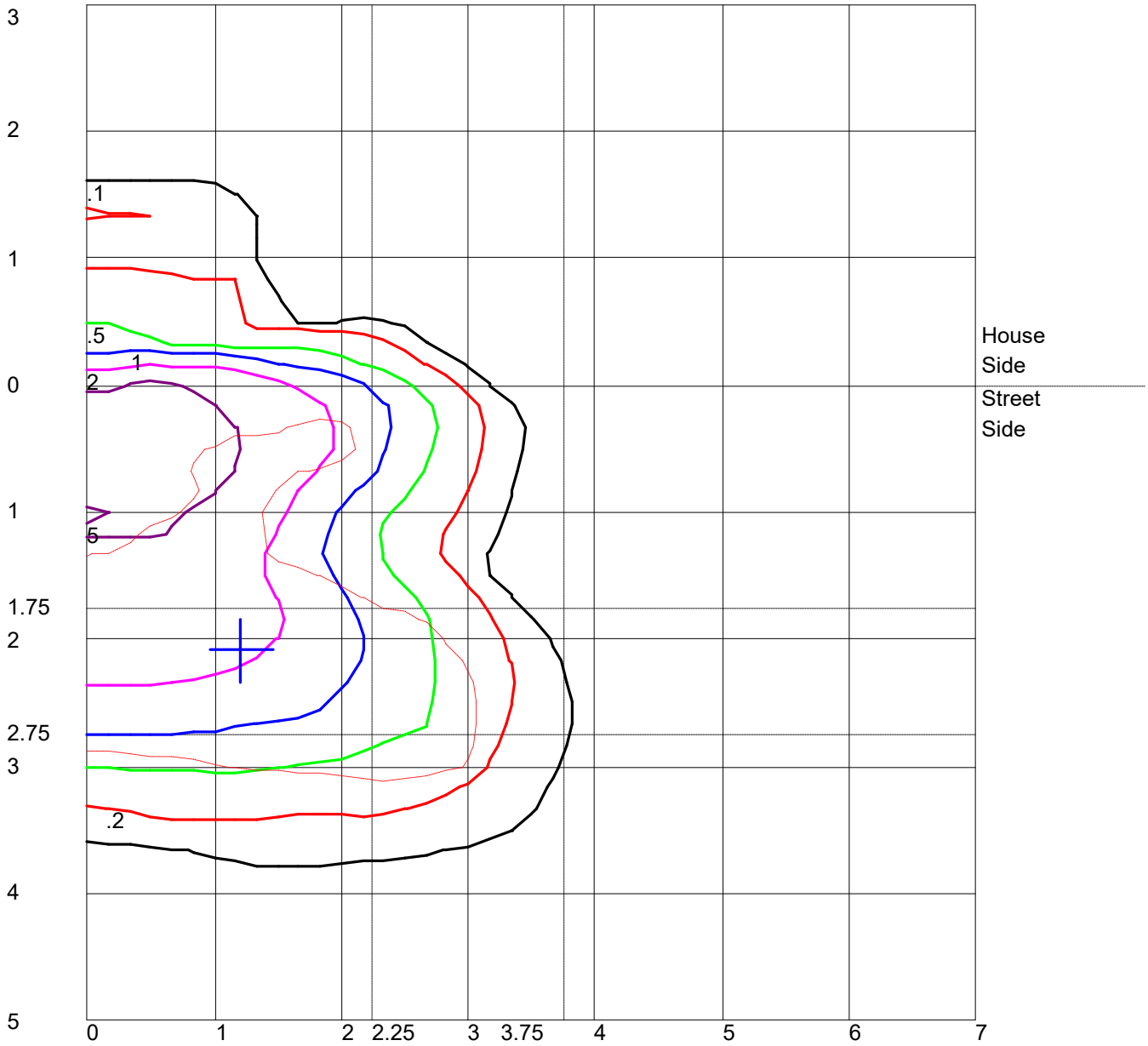
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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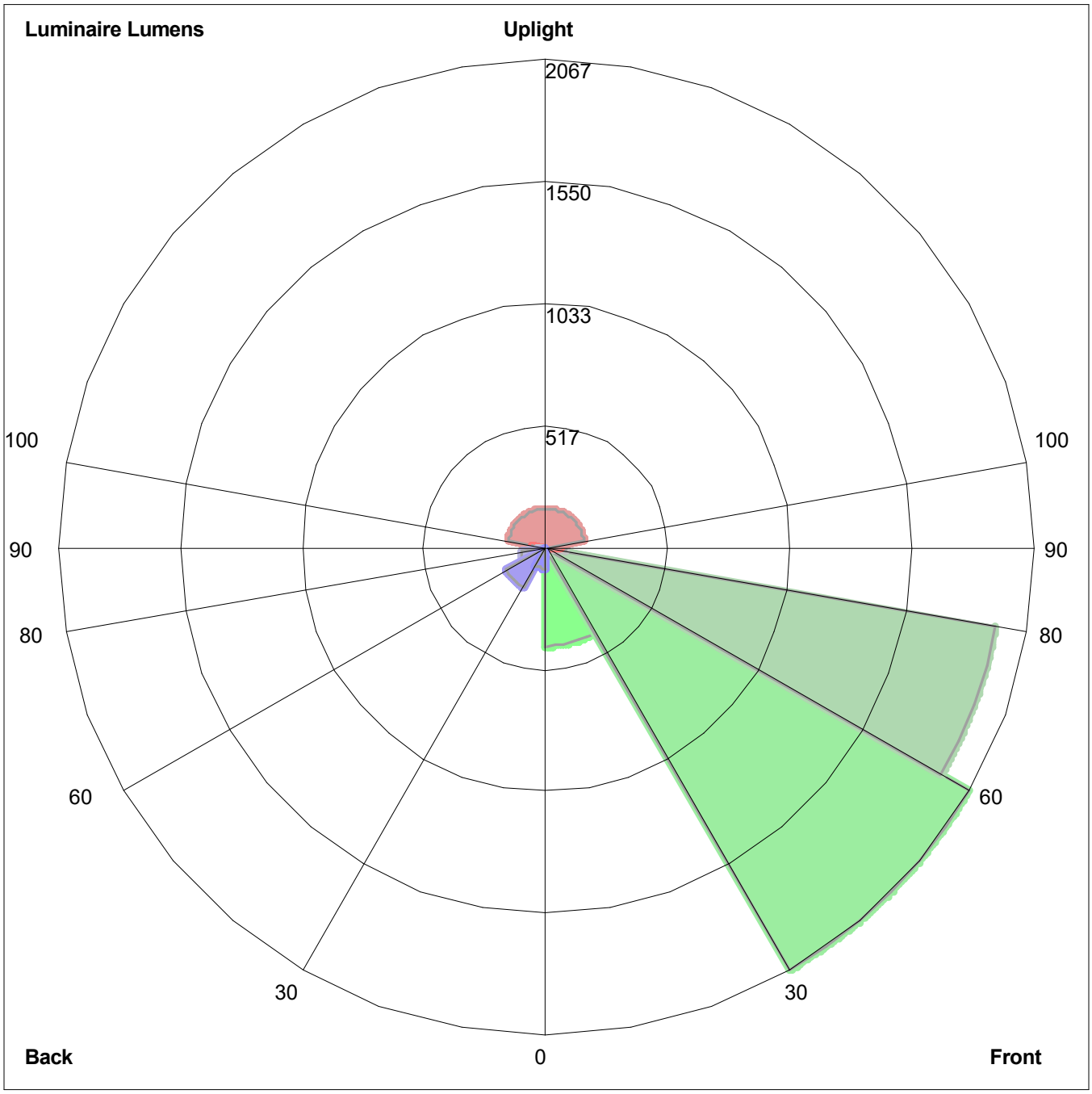
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=418.5, Medium=2066.9, High=1933.6, Very High=82.6
Back: Low=88.4, Medium=192.4, High=106.8, Very High=34.7
Uplight: Low=60.8, High=162.2

BUG Rating : B0-U3-G2

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