IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-50-70CRI-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-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5064
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	4046
Maximum Candela Angle	30H 67.5V
Maximum Candela (<90 Degrees Vertical)	4046
Maximum Candela Angle (<90 Degrees Vertical)	30H 67.5V
Maximum Candela At 90 Degrees Vertical	72 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	706 (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)	411.8	N.A.	8.1
FM - Front-Medium (30-60)	2033.7	N.A.	40.2
FH - Front-High (60-80)	1902.5	N.A.	37.6
FVH - Front-Very High (80-90)	81.3	N.A.	1.6
BL - Back-Low (0-30)	87.0	N.A.	1.7
BM - Back-Medium (30-60)	189.3	N.A.	3.7
BH - Back-High (60-80)	105.1	N.A.	2.1
BVH - Back-Very High (80-90)	34.2	N.A.	0.7
UL - Uplight-Low (90-100)	59.7	N.A.	1.2
UH - Uplight-High (100-180)	159.2	N.A.	3.1
Total	5063.8	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	386	386	386	386	386	386	386	386	386	386
2.5	454	452	439	437	436	437	431	421	410	400
5.0	500	498	484	500	497	506	516	497	470	440
7.5	686	669	661	653	640	619	575	526	511	479
10.0	733	724	722	740	728	734	702	652	559	534
12.5	811	782	811	819	809	796	768	745	674	578
15.0	826	817	815	826	838	861	875	826	808	659
17.5	926	899	926	931	930	911	926	944	907	786
20.0	1038	1033	1038	1012	1020	1034	1000	1025	1011	880
22.5	1123	1123	1151	1161	1139	1111	1134	1096	1104	1002
25.0	1234	1245	1272	1228	1242	1270	1213	1180	1194	1081
27.5	1290	1293	1297	1347	1364	1340	1356	1286	1239	1185
30.0	1284	1307	1350	1379	1386	1447	1442	1388	1286	1287
32.5	1229	1235	1297	1418	1473	1508	1566	1483	1375	1345
35.0	1186	1183	1236	1367	1440	1550	1674	1569	1441	1367
37.5	1145	1147	1196	1319	1399	1517	1777	1707	1544	1375
40.0	1144	1145	1193	1312	1387	1497	1799	1824	1665	1408
42.5	1221	1211	1256	1353	1412	1511	1812	1992	1731	1496
45.0	1373	1369	1400	1470	1495	1575	1834	2092	1829	1580
47.5	1604	1600	1635	1679	1663	1710	1891	2170	2004	1701
50.0	1874	1860	1906	1974	1922	1916	1985	2232	2168	1891
52.5	2003	2007	2098	2244	2207	2171	2090	2296	2266	1952
55.0	2061	2063	2170	2395	2418	2391	2210	2278	2219	2029
57.5	2385	2371	2364	2475	2502	2504	2339	2150	2152	2116
60.0	3016	3043	2947	2805	2693	2550	2290	1952	2011	2244
62.5	3423	3468	3504	3516	3313	2928	2062	1761	1788	2287
65.0	3498	3559	3669	3924	3891	3659	2143	1543	1471	2121
67.5	3311	3354	3537	3951	4046	4008	3056	1270	1120	1695
70.0	2548	2570	2972	3493	3706	3869	3476	1503	796	1179
72.5	996	1115	1639	2499	3085	3563	3210	2074	517	628
75.0	354	386	659	1074	1445	2139	3049	1835	358	298
77.5	261	270	351	576	699	961	1525	1147	336	158
80.0	183	188	220	318	374	489	681	706	359	122
82.5	101	106	119	147	171	218	336	352	240	147
85.0	54	59	68	84	100	128	190	239	168	122
87.5	31	33	42	58	67	72	98	117	98	81
90.0	22	24	32	39	42	46	58	68	65	66
92.5	24	24	32	38	42	45	51	53	58	64
95.0	27	25	33	40	42	46	53	54	59	60
97.5	29	26	34	40	43	47	53	54	58	50
100.0	30	28	34	41	43	47	52	53	53	41
102.5	31	29	34	41	44	47	51	50	45	34
105.0	32	31	35	42	44	47	50	45	38	32
107.5	33	32	35	43	45	47	47	38	33	31
110.0	34	33	35	43	45	46	42	34	31	31
112.5	34	34	36	43	44	43	38	31	29	30
115.0	35	35	36	42	42	40	34	30	28	30
117.5	36	36	36	39	38	37	32	30	27	30
120.0	36	36	35	36	36	34	31	29	27	29
122.5	36	36	34	34	34	33	31	29	27	29
125.0	35	34	32	33	33	32	31	29	27	28
127.5	34	34	32	32	32	32	31	30	28	29
130.0	33	33	32	31	32	32	31	30	29	30

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CANDELA TABULATION - (Cont.)

132.5	33	33	32	31	32	32	31	29	29	30
135.0	33	33	32	31	31	31	29	28	29	31
137.5	33	32	31	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	386	386	386	386	386	386	386	386	386	386
2.5	393	393	389	382	370	356	344	341	339	336
5.0	411	400	390	359	337	341	337	324	316	307
7.5	433	413	396	350	343	322	298	273	246	217
10.0	466	438	402	369	331	292	227	173	150	128
12.5	533	489	430	396	329	226	162	121	102	97
15.0	585	531	471	416	298	181	114	95	92	90
17.5	658	588	516	426	258	135	93	88	87	85
20.0	731	636	567	425	214	101	90	84	82	83
22.5	793	726	615	422	161	92	86	79	79	77
25.0	878	757	651	402	117	91	83	76	73	74
27.5	955	811	704	370	100	88	80	72	69	68
30.0	981	860	720	309	97	84	76	68	64	64
32.5	1056	886	742	261	94	82	73	64	64	67
35.0	1092	923	758	219	93	79	68	64	69	75
37.5	1129	984	761	169	90	76	64	68	76	77
40.0	1173	1014	764	132	87	72	65	76	78	67
42.5	1265	1032	778	113	84	68	73	80	64	48
45.0	1307	1094	772	105	80	71	82	71	51	40
47.5	1358	1109	777	106	78	78	84	58	46	38
50.0	1452	1126	745	117	95	85	73	53	45	39
52.5	1475	1177	727	99	99	109	66	51	52	69
55.0	1559	1231	685	89	75	108	77	61	94	118
57.5	1682	1286	687	84	72	72	95	102	127	109
60.0	1835	1434	706	79	71	64	93	126	92	45
62.5	1929	1469	684	75	69	62	96	97	57	45
65.0	1954	1421	587	73	66	76	85	62	59	49
67.5	1753	1198	446	71	62	77	60	62	60	49
70.0	1315	780	244	68	64	68	63	66	57	50
72.5	661	360	119	66	63	67	64	60	58	51
75.0	290	188	89	65	68	66	62	60	58	55
77.5	193	132	77	64	68	62	64	62	59	57

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CANDELA TABULATION - (Cont.)

80.0	141	109	69	68	65	62	66	62	60	57
82.5	106	87	62	73	68	64	68	64	62	59
85.0	86	61	61	77	71	66	71	66	63	60
87.5	66	44	59	75	71	67	73	69	64	61
90.0	50	35	62	72	70	64	72	70	67	62
92.5	42	42	61	73	72	65	73	72	70	65
95.0	43	55	58	72	71	63	72	73	72	68
97.5	45	58	55	66	66	59	68	69	70	67
100.0	48	55	53	58	62	55	64	66	67	64
102.5	46	51	50	51	57	54	61	63	64	60
105.0	43	47	47	47	53	53	59	61	62	55
107.5	40	44	45	44	50	53	58	60	61	51
110.0	38	41	42	42	47	51	57	60	59	47
112.5	36	39	40	40	44	49	56	59	57	44
115.0	34	37	38	40	42	48	54	58	55	41
117.5	33	35	36	39	41	47	53	56	52	38
120.0	32	34	35	38	40	46	51	54	48	37
122.5	31	32	34	37	40	45	50	51	45	36
125.0	31	32	33	36	39	44	48	48	40	36
127.5	31	31	33	36	39	44	46	45	37	35
130.0	31	32	33	36	39	43	44	41	35	34
132.5	31	32	34	36	38	41	42	38	33	34
135.0	32	33	34	37	37	36	38	36	32	33
137.5	32	34	34	35	34	31	31	31	32	33
140.0	31	31	32	31	30	26	24	25	28	31
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	386	386
2.5	335	336
5.0	303	307
7.5	207	209
10.0	119	121
12.5	93	92
15.0	89	89
17.5	84	83
20.0	81	82
22.5	76	76
25.0	72	72

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CANDELA TABULATION - (Cont.)

27.5	66	66
30.0	64	64
32.5	70	70
35.0	77	77
37.5	77	77
40.0	61	59
42.5	45	44
45.0	39	38
47.5	37	37
50.0	40	40
52.5	85	92
55.0	123	126
57.5	75	75
60.0	36	39
62.5	35	37
65.0	36	37
67.5	34	34
70.0	34	31
72.5	34	29
75.0	34	26
77.5	35	24
80.0	36	22
82.5	38	21
85.0	37	21
87.5	38	22
90.0	39	24
92.5	41	29
95.0	43	35
97.5	44	40
100.0	42	43
102.5	41	45
105.0	40	44
107.5	39	43
110.0	39	42
112.5	39	42
115.0	40	41
117.5	39	40
120.0	39	40
122.5	39	39
125.0	38	38
127.5	38	38
130.0	36	36
132.5	35	35
135.0	34	34
137.5	34	34
140.0	32	33
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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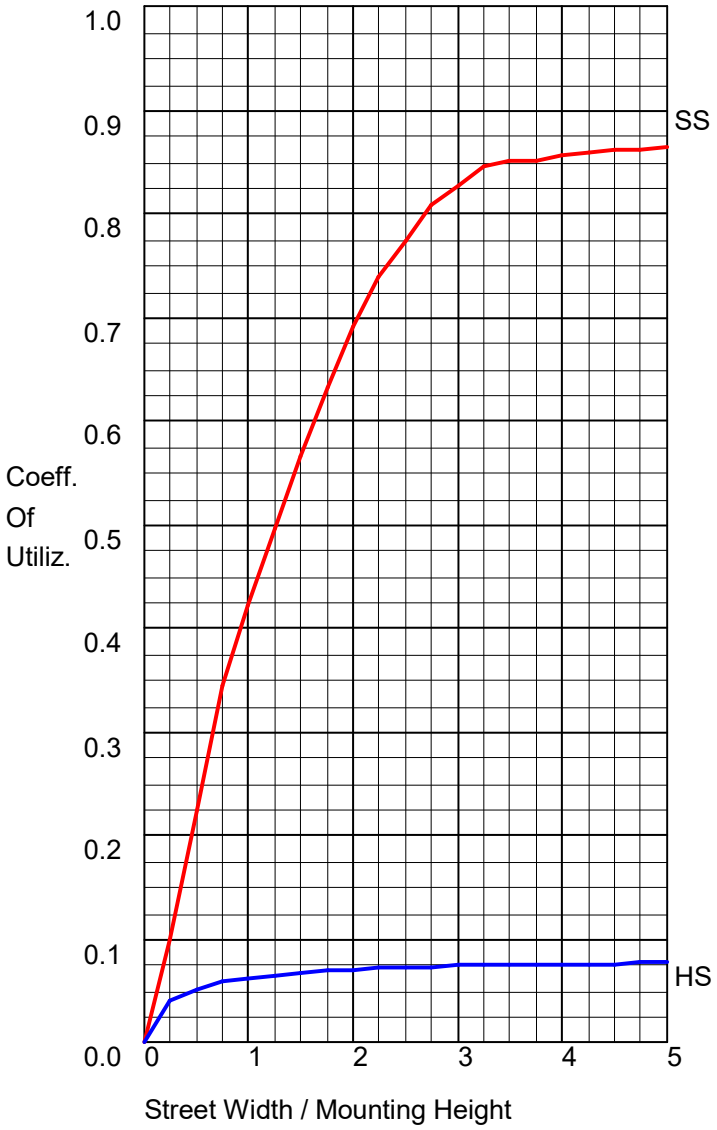
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4429.2	87.5
Downward House Side	415.5	8.2
Downward Total	4844.7	95.7
Upward Street Side	94.8	1.9
Upward House Side	124.1	2.5
Upward Total	218.9	4.3
Total Flux	5063.6	100.0

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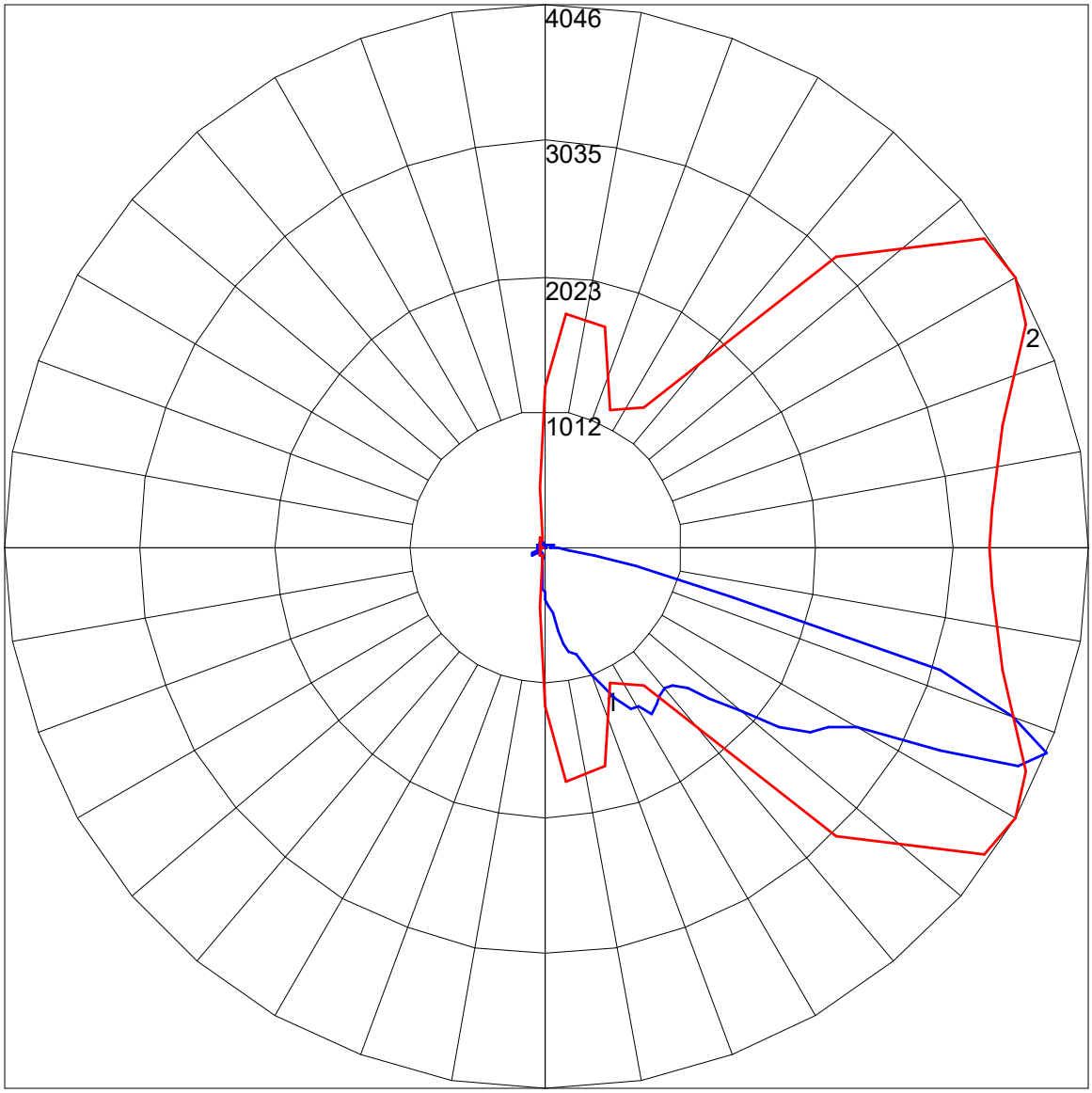
POLAR GRAPH



Maximum Candela = 4046 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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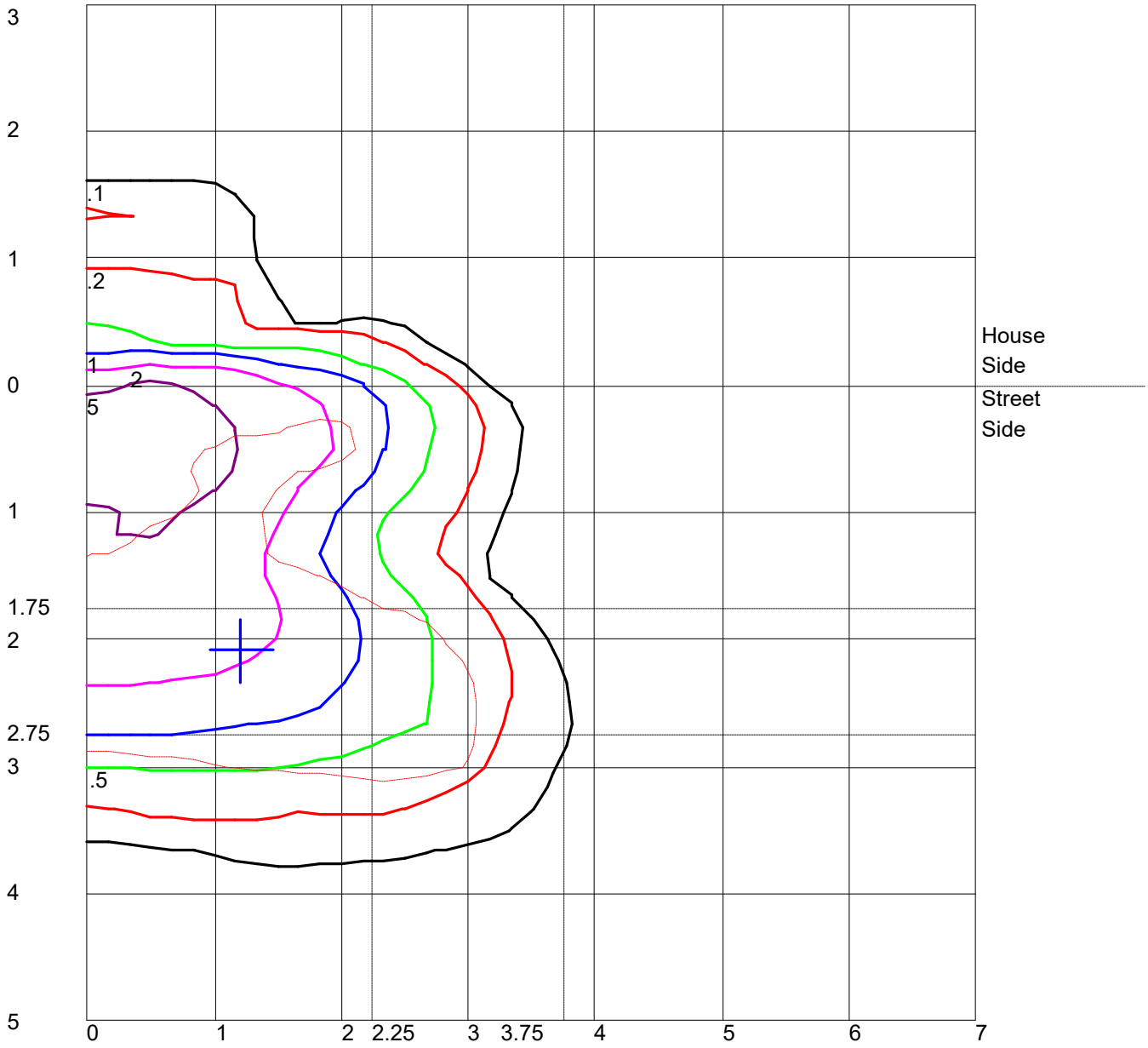
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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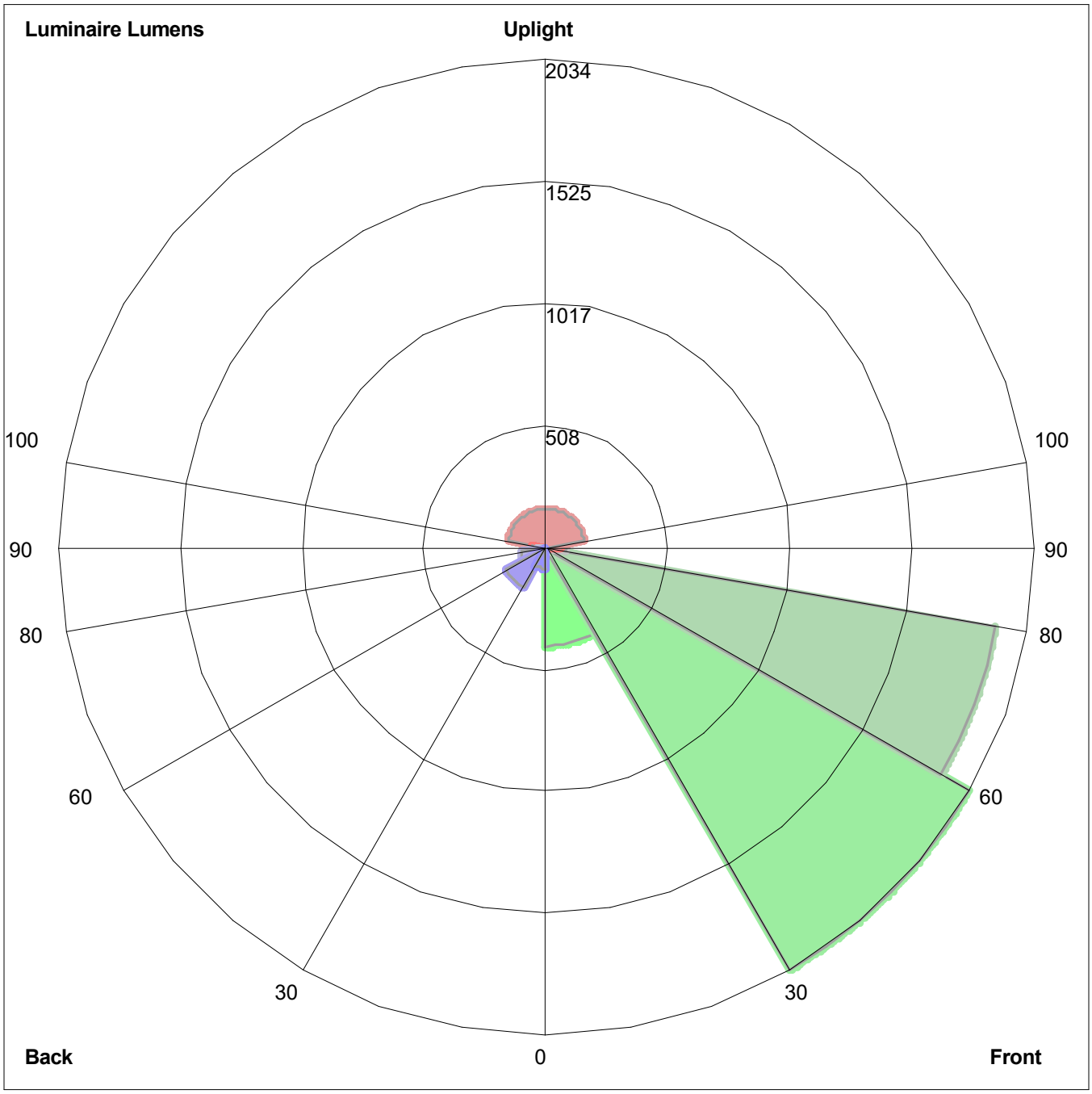
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=411.8, Medium=2033.7, High=1902.5, Very High=81.3
Back: Low=87.0, Medium=189.3, High=105.1, Very High=34.2
Uplight: Low=59.7, High=159.2

BUG Rating : B0-U3-G2

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