IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-2-50-70CRI-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-10L-SIL-2-50-70CRI-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 I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4086
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	4929
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	4929
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	90 (2.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	310 (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)	479.7	N.A.	11.7
FM - Front-Medium (30-60)	1949.4	N.A.	47.7
FH - Front-High (60-80)	814.8	N.A.	19.9
FVH - Front-Very High (80-90)	88.9	N.A.	2.2
BL - Back-Low (0-30)	117.8	N.A.	2.9
BM - Back-Medium (30-60)	253.6	N.A.	6.2
BH - Back-High (60-80)	107.2	N.A.	2.6
BVH - Back-Very High (80-90)	36.5	N.A.	0.9
UL - Uplight-Low (90-100)	66.7	N.A.	1.6
UH - Uplight-High (100-180)	171.5	N.A.	4.2
Total	4086.1	N.A.	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	642	642	642	642	642	642	642	642	642	642
2.5	663	663	670	674	665	660	649	642	640	637
5.0	754	748	761	747	747	742	741	717	659	642
7.5	685	695	697	717	739	770	770	755	723	685
10.0	773	774	748	789	774	756	773	773	779	747
12.5	827	825	794	796	826	810	772	828	865	842
15.0	873	919	900	904	882	845	899	872	927	925
17.5	1027	979	999	968	994	994	961	978	1026	1015
20.0	1086	1097	1123	1099	1080	1086	1118	1110	1113	1120
22.5	1210	1232	1222	1191	1261	1216	1256	1256	1233	1305
25.0	1230	1228	1263	1312	1326	1409	1424	1421	1414	1444
27.5	1252	1243	1271	1290	1436	1518	1631	1652	1605	1688
30.0	1155	1174	1204	1294	1424	1666	1834	1882	1864	1869
32.5	1047	1052	1129	1222	1436	1676	2019	2194	2195	2161
35.0	902	905	978	1144	1386	1712	2143	2483	2442	2364
37.5	758	757	827	999	1314	1732	2192	2696	2721	2593
40.0	615	609	676	841	1162	1681	2220	2899	3013	2841
42.5	482	487	542	687	993	1553	2208	3045	3274	3216
45.0	384	388	435	560	825	1369	2170	3182	3625	3520
47.5	324	327	360	466	670	1170	2075	3159	3964	3942
50.0	304	303	323	408	552	971	1885	3143	4243	4287
52.5	319	314	312	380	475	772	1662	3056	4410	4316
55.0	457	440	372	373	434	592	1426	2837	4482	4495
57.5	812	777	633	456	407	474	1101	2516	4473	4668
60.0	972	939	837	692	458	411	742	2041	4449	4929
62.5	698	678	661	686	609	345	471	1516	4306	4896
65.0	522	524	509	509	526	411	321	996	3834	4319
67.5	482	483	463	448	415	404	283	575	2743	3402
70.0	450	452	425	409	378	343	335	336	1662	2288
72.5	351	354	346	358	351	318	336	258	746	1140
75.0	298	298	283	286	316	302	295	309	293	492
77.5	263	265	261	263	288	301	263	358	163	199
80.0	240	244	241	241	267	310	259	275	171	145
82.5	205	207	214	224	252	290	279	217	178	119
85.0	125	134	143	153	183	240	270	196	158	119
87.5	67	73	86	92	101	125	157	162	113	97
90.0	36	41	55	61	68	76	87	90	83	80
92.5	30	32	45	50	55	60	62	68	73	74
95.0	32	33	45	51	57	62	62	68	73	63
97.5	37	35	47	53	58	62	61	68	67	51
100.0	40	36	47	53	58	62	60	64	53	44
102.5	42	38	47	54	58	61	58	58	44	42
105.0	44	40	47	54	58	60	54	50	39	41
107.5	45	42	46	55	58	58	49	43	36	38
110.0	45	43	45	55	57	54	44	38	34	36
112.5	45	44	45	54	55	49	40	33	32	34
115.0	46	45	45	53	52	45	37	31	31	32
117.5	46	46	45	51	49	42	35	29	30	31
120.0	46	46	44	48	46	40	33	28	30	30
122.5	46	46	42	45	43	38	32	28	28	29
125.0	45	45	41	42	41	37	31	28	28	28
127.5	44	43	40	40	40	36	31	28	28	28
130.0	42	42	40	39	38	35	32	29	28	28

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CANDELA TABULATION - (Cont.)

132.5	41	41	39	38	38	36	32	29	29	29
135.0	41	40	39	38	37	34	30	29	30	30
137.5	41	40	39	37	34	30	27	27	29	30
140.0	39	38	36	32	28	24	22	23	25	26
142.5	34	33	31	27	22	18	17	17	20	21
145.0	28	28	25	20	15	13	12	12	15	15
147.5	20	20	17	14	10	7	7	8	9	10
150.0	14	13	12	9	5	1	2	4	5	5
152.5	10	10	7	4	1	0	0	0	1	1
155.0	3	3	2	1	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	1	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	642	642	642	642	642	642	642	642	642	642
2.5	642	641	644	653	654	649	641	625	617	618
5.0	637	647	668	656	612	572	531	487	451	415
7.5	667	667	683	623	539	440	358	306	276	250
10.0	705	698	691	576	459	336	253	193	162	145
12.5	769	759	755	584	368	247	166	132	119	117
15.0	834	824	774	549	317	182	126	118	114	111
17.5	947	902	847	519	255	139	120	111	107	105
20.0	1059	977	881	485	206	127	114	107	104	98
22.5	1219	1110	993	462	166	125	111	102	94	92
25.0	1369	1227	1030	410	148	123	109	94	86	79
27.5	1593	1373	1136	360	145	122	102	86	73	71
30.0	1816	1551	1200	300	144	118	94	75	66	64
32.5	2000	1661	1225	247	139	111	83	68	62	63
35.0	2205	1767	1239	203	133	102	74	64	62	61
37.5	2470	1917	1237	175	124	91	67	65	62	59
40.0	2717	2099	1200	162	114	79	67	66	59	48
42.5	2968	2220	1157	153	102	71	71	65	49	39
45.0	3310	2358	1106	146	93	74	75	56	43	37
47.5	3515	2469	1014	153	92	79	71	49	43	37
50.0	3702	2639	900	179	111	92	63	49	45	51
52.5	3944	2738	800	153	117	119	68	52	64	74
55.0	4211	2890	684	121	92	108	90	74	87	90
57.5	4362	2839	547	99	77	76	92	97	87	66
60.0	4539	2753	401	90	77	66	87	98	64	54
62.5	4458	2592	306	81	75	68	91	73	55	49
65.0	3950	2149	226	76	70	78	81	60	54	47
67.5	3178	1631	177	75	68	86	66	61	54	48
70.0	2316	1136	149	76	72	78	64	60	55	49
72.5	1358	715	118	74	75	70	63	60	55	51
75.0	740	460	96	73	76	68	64	61	57	52
77.5	256	191	81	75	73	68	66	62	59	53

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CANDELA TABULATION - (Cont.)

80.0	162	136	71	80	73	68	68	64	60	55
82.5	115	104	63	84	76	70	71	66	62	60
85.0	92	68	66	86	79	72	75	68	64	64
87.5	80	30	74	84	78	71	74	73	67	60
90.0	65	22	70	80	76	70	73	69	65	60
92.5	45	45	61	81	77	71	75	71	68	62
95.0	40	64	57	79	76	67	73	71	68	63
97.5	49	66	56	71	72	63	70	68	66	62
100.0	53	63	56	62	69	62	68	67	66	60
102.5	51	58	54	52	64	60	66	66	65	58
105.0	48	53	50	46	57	58	64	66	65	56
107.5	45	48	47	42	51	55	63	65	64	53
110.0	41	43	42	39	45	51	60	64	63	51
112.5	38	39	39	37	40	48	57	62	61	49
115.0	35	36	36	35	37	45	53	60	58	47
117.5	32	34	33	34	35	42	50	56	55	46
120.0	31	32	31	32	33	40	48	53	51	45
122.5	30	30	30	31	32	38	45	50	48	44
125.0	28	29	29	30	32	38	43	47	44	43
127.5	28	28	28	30	32	38	42	44	41	42
130.0	28	28	29	30	32	37	41	41	39	40
132.5	29	29	30	31	32	35	39	40	37	40
135.0	30	30	31	31	32	31	34	36	37	40
137.5	30	31	31	31	29	28	28	30	33	38
140.0	27	28	28	26	24	22	20	23	27	31
142.5	22	23	23	21	18	16	15	15	20	24
145.0	17	17	17	15	13	11	10	11	14	17
147.5	10	10	10	9	8	6	5	7	9	11
150.0	5	5	4	4	4	2	1	2	6	7
152.5	1	1	1	1	1	1	0	1	2	4
155.0	0	0	0	0	0	0	0	0	1	1
157.5	0	0	0	0	0	0	0	0	1	1
160.0	0	0	0	0	0	0	0	0	1	1
162.5	0	0	0	0	0	0	0	0	1	1
165.0	0	0	0	0	0	0	0	0	1	1
167.5	0	0	0	0	0	0	0	0	1	1
170.0	0	0	0	0	0	0	0	0	0	1
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	642	642
2.5	619	623
5.0	408	403
7.5	245	245
10.0	137	138
12.5	116	116
15.0	108	107
17.5	104	104
20.0	95	95
22.5	88	88
25.0	77	77

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CANDELA TABULATION - (Cont.)

27.5	69	68
30.0	64	64
32.5	64	64
35.0	63	62
37.5	58	58
40.0	46	45
42.5	39	39
45.0	38	38
47.5	38	39
50.0	60	63
52.5	77	79
55.0	79	79
57.5	49	51
60.0	42	42
62.5	38	38
65.0	34	34
67.5	33	31
70.0	32	29
72.5	32	27
75.0	34	26
77.5	35	24
80.0	36	23
82.5	39	26
85.0	44	29
87.5	39	29
90.0	40	33
92.5	42	40
95.0	43	45
97.5	44	49
100.0	45	51
102.5	46	53
105.0	47	53
107.5	49	53
110.0	51	53
112.5	51	52
115.0	51	51
117.5	50	51
120.0	49	50
122.5	49	49
125.0	47	48
127.5	45	46
130.0	43	44
132.5	42	42
135.0	41	41
137.5	40	40
140.0	34	34
142.5	27	27
145.0	19	20
147.5	12	12
150.0	8	8
152.5	4	4
155.0	2	2
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	0	0

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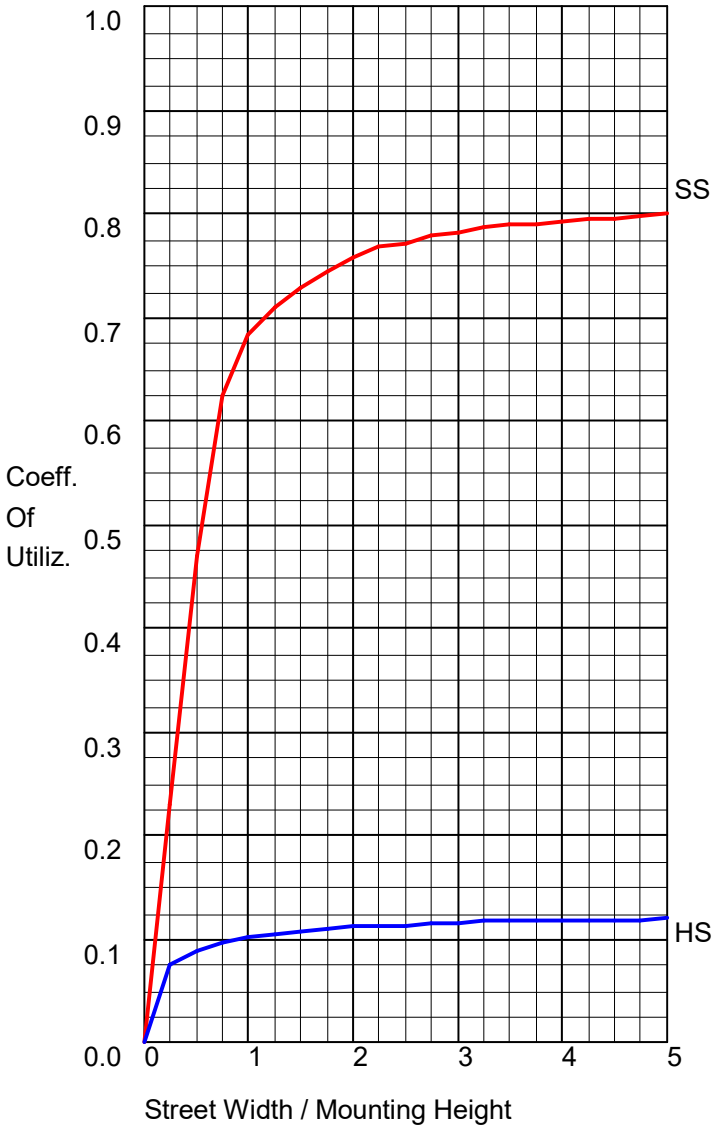
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3332.8	81.6
Downward House Side	515.1	12.6
Downward Total	3847.9	94.2
Upward Street Side	113.3	2.8
Upward House Side	124.9	3.1
Upward Total	238.2	5.8
Total Flux	4086.1	100.0

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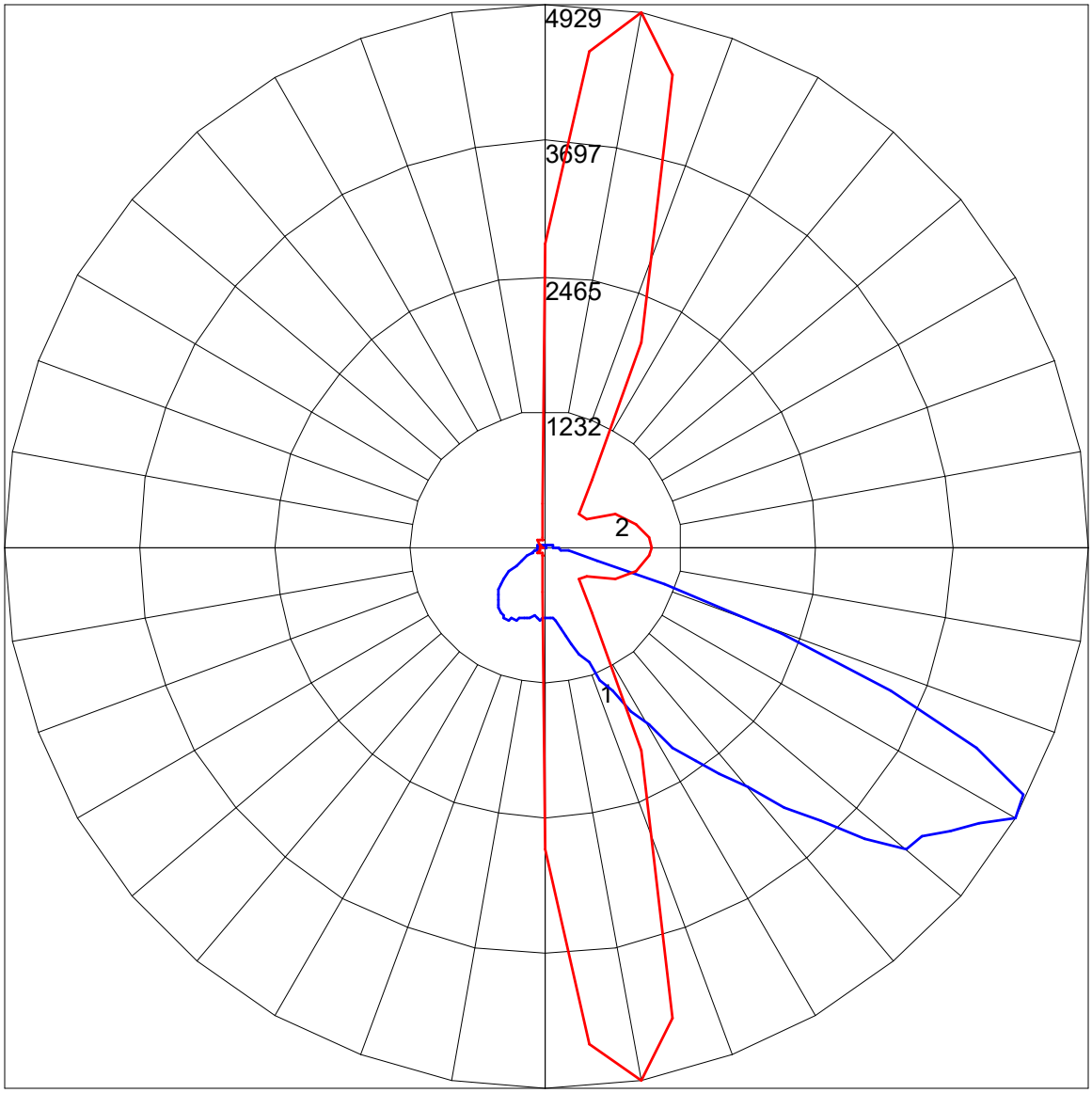
POLAR GRAPH



Maximum Candela = 4929 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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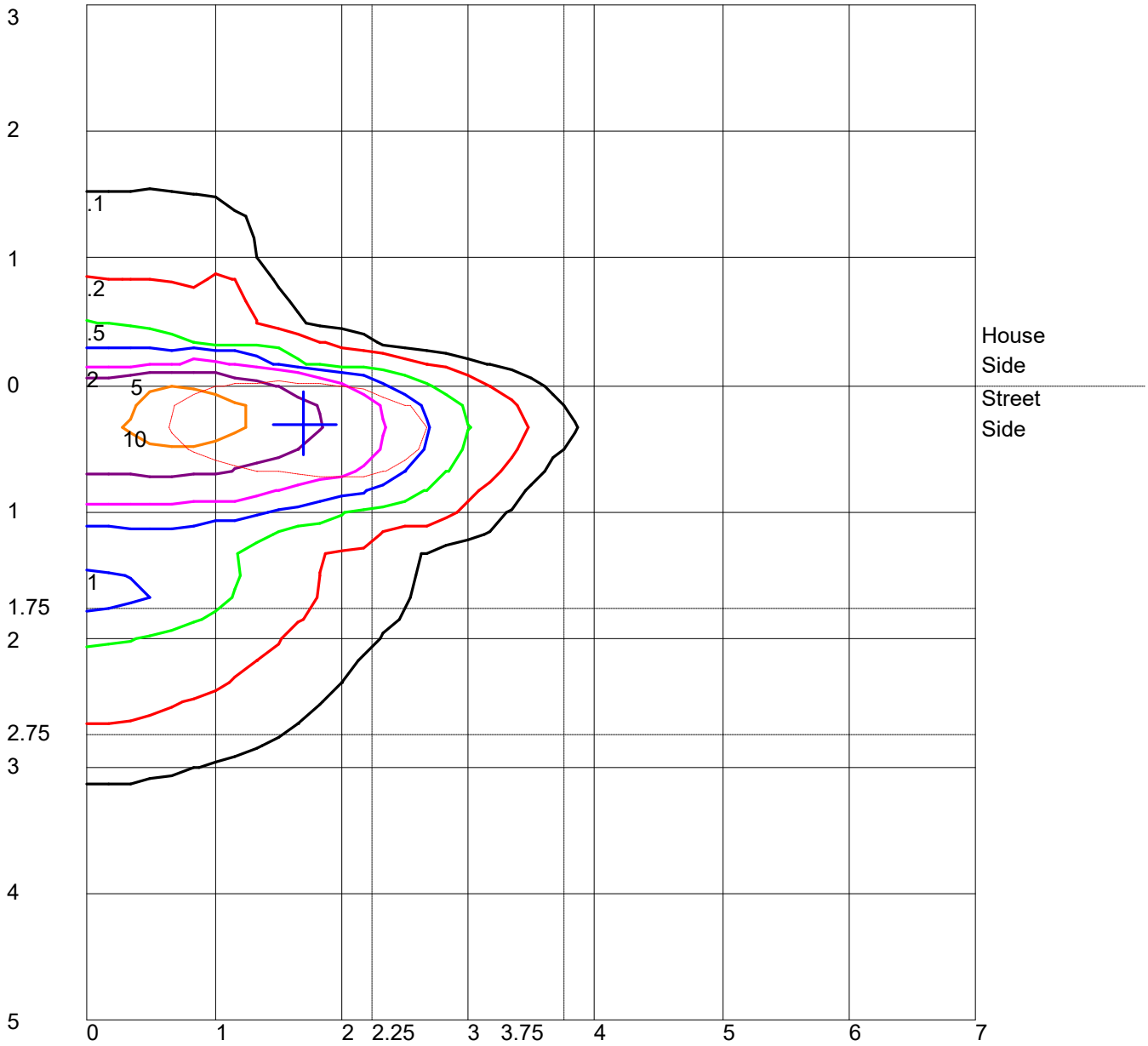
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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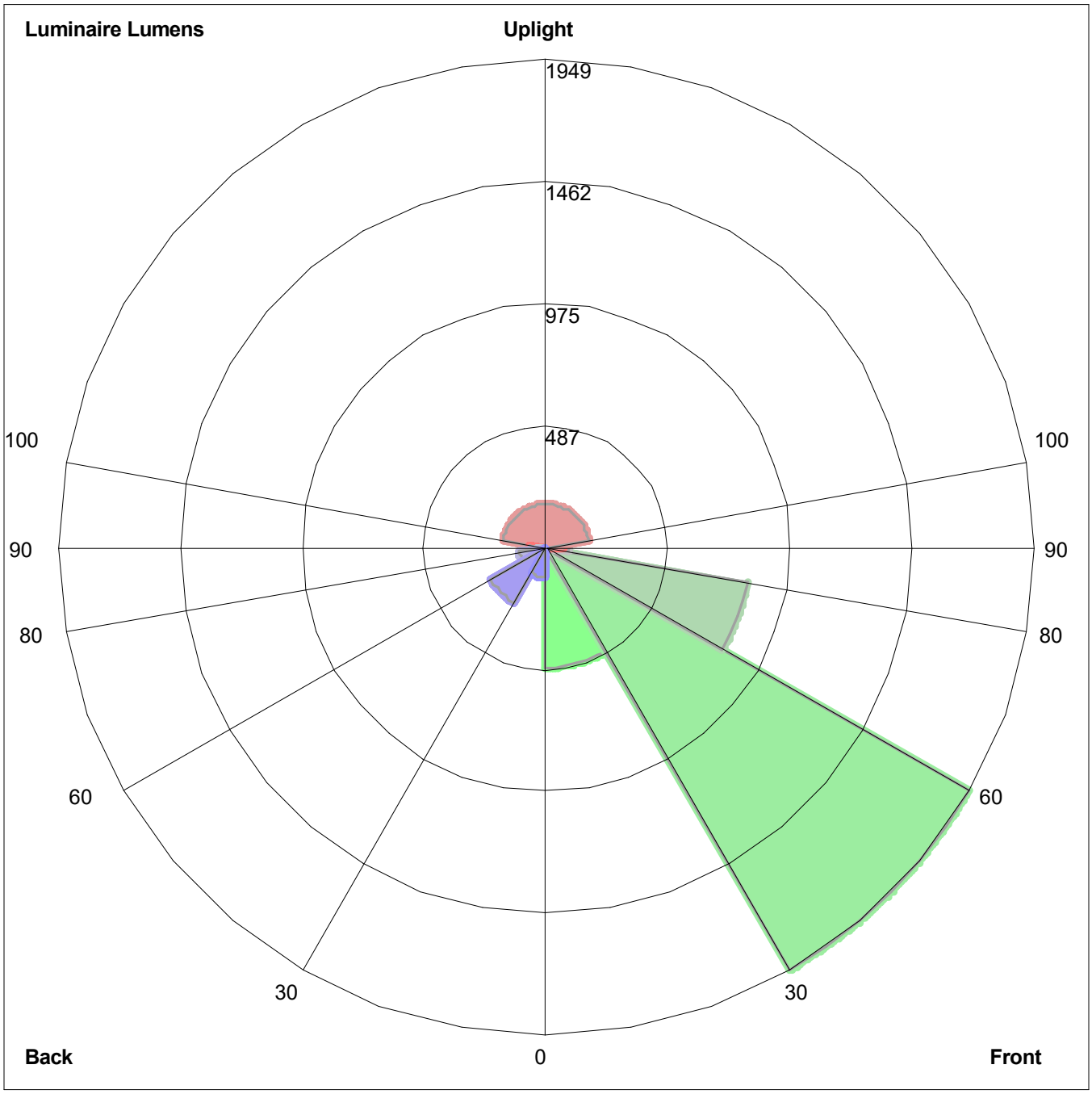
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=479.7, Medium=1949.4, High=814.8, Very High=88.9
Back: Low=117.8, Medium=253.6, High=107.2, Very High=36.5
Uplight: Low=66.7, High=171.5

BUG Rating : B1-U3-G1

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