IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-30-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12640
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-3-30-70CRI-IH
[_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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8034
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	7065
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	7065
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	117 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	604 (7.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	312.1	N.A.	3.9
FM - Front-Medium (30-60)	3412.5	N.A.	42.5
FH - Front-High (60-80)	3099.6	N.A.	38.6
FVH - Front-Very High (80-90)	103.1	N.A.	1.3
BL - Back-Low (0-30)	131.0	N.A.	1.6
BM - Back-Medium (30-60)	413.7	N.A.	5.1
BH - Back-High (60-80)	217.0	N.A.	2.7
BVH - Back-Very High (80-90)	57.6	N.A.	0.7
UL - Uplight-Low (90-100)	91.2	N.A.	1.1
UH - Uplight-High (100-180)	196.7	N.A.	2.4
Total	8034.5	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	50	55	65	75
0.0	391	391	391	391	391	391	391	391	391	391
2.5	403	402	398	397	397	397	395	396	392	392
5.0	455	456	451	447	448	444	436	425	404	394
7.5	458	462	455	467	482	481	471	461	445	414
10.0	491	497	506	494	502	484	477	485	471	442
12.5	515	515	517	520	517	528	518	512	512	477
15.0	564	552	558	565	556	556	546	553	533	521
17.5	585	595	590	589	619	601	591	602	594	562
20.0	654	662	665	683	664	686	690	676	654	624
22.5	769	755	762	770	778	759	759	778	762	702
25.0	842	857	900	933	904	903	892	907	884	852
27.5	1060	1095	1103	1083	1127	1072	1082	1059	1071	959
30.0	1310	1315	1356	1373	1328	1351	1316	1267	1220	1120
32.5	1713	1708	1719	1662	1651	1597	1620	1506	1428	1292
35.0	1978	1967	1977	2040	1964	1913	1882	1799	1611	1416
37.5	2189	2204	2223	2323	2366	2248	2167	2018	1745	1536
40.0	2426	2423	2468	2598	2672	2611	2471	2241	1902	1609
42.5	2687	2694	2747	2878	2981	2946	2783	2472	2074	1663
45.0	3038	3056	3131	3252	3302	3230	3085	2738	2182	1730
47.5	3471	3460	3572	3708	3699	3524	3350	3075	2257	1875
50.0	3905	3893	4028	4193	4174	3862	3625	3312	2444	1986
52.5	4375	4372	4478	4672	4685	4264	3937	3543	2710	2136
55.0	4875	4897	4980	5186	5166	4713	4324	3845	3092	2432
57.5	5392	5382	5488	5745	5736	5217	4810	4233	3502	2727
60.0	5313	5379	5616	6109	6268	5856	5386	4740	3933	3071
62.5	4584	4704	5086	5799	6570	6424	6037	5413	4490	3509
65.0	2958	3046	3741	4975	6054	6946	6726	6204	5078	3918
67.5	991	1040	1600	3242	5326	6531	7065	6802	5378	4210
70.0	618	638	782	1375	3945	5752	6436	6978	5287	3925
72.5	443	459	542	845	1829	4638	5322	5832	5079	3180
75.0	323	337	408	592	1030	2519	3320	3594	3950	1349
77.5	219	229	299	456	686	1102	1201	1748	1167	501
80.0	147	158	212	343	472	590	578	604	455	304
82.5	110	122	168	276	315	335	310	294	270	229
85.0	84	95	134	225	231	201	181	165	166	180
87.5	63	73	107	177	151	119	111	111	118	133
90.0	44	52	78	104	80	83	86	90	98	108
92.5	27	31	44	53	64	77	81	84	93	101
95.0	32	32	45	54	64	77	81	84	93	95
97.5	36	34	46	56	64	76	80	82	90	80
100.0	38	35	46	56	64	75	79	79	84	67
102.5	39	36	46	57	64	73	76	74	73	52
105.0	40	37	46	57	64	71	73	68	60	44
107.5	41	38	45	57	64	67	66	60	48	40
110.0	41	40	45	57	62	61	58	50	39	36
112.5	41	41	44	57	60	54	49	42	36	36
115.0	42	41	43	54	55	46	42	37	32	35
117.5	41	41	42	51	49	40	37	34	30	34
120.0	41	41	41	46	43	36	35	32	29	33
122.5	41	40	38	40	38	35	33	31	29	32
125.0	39	39	36	36	36	33	32	31	29	32
127.5	37	36	34	34	35	32	32	31	30	32
130.0	35	35	33	32	33	32	32	32	30	32

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CANDELA TABULATION - (Cont.)

132.5	34	33	32	30	32	32	32	32	31	33
135.0	33	32	32	30	31	31	31	30	31	34
137.5	32	32	32	29	28	27	27	27	29	32
140.0	31	31	29	26	23	22	22	23	26	29
142.5	27	27	25	21	18	16	17	18	21	25
145.0	22	21	20	16	12	12	12	13	15	19
147.5	16	16	13	11	9	8	8	8	11	13
150.0	11	11	10	8	5	4	4	5	7	9
152.5	9	8	7	4	2	2	2	3	4	6
155.0	2	2	2	1	1	1	2	2	3	4
157.5	1	1	1	1	1	1	1	1	2	2
160.0	0	0	0	1	1	1	1	1	2	2
162.5	0	0	0	1	1	1	1	1	2	2
165.0	0	0	0	1	1	1	1	1	2	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	2	2	2
175.0	0	0	1	1	1	1	1	2	2	2
177.5	0	0	1	1	1	1	1	1	2	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	391	391	391	391	391	391	391	391	391	391
2.5	393	392	393	391	388	389	385	386	385	383
5.0	396	398	395	391	386	381	373	358	342	334
7.5	397	398	396	392	380	349	323	309	300	289
10.0	409	415	407	393	349	320	295	279	263	253
12.5	425	428	422	391	328	298	271	252	244	238
15.0	458	445	445	385	323	285	257	245	228	221
17.5	490	468	461	380	317	276	251	229	220	220
20.0	544	514	493	388	314	274	241	231	221	216
22.5	616	559	537	394	315	272	246	231	226	229
25.0	718	638	586	412	319	277	250	236	231	232
27.5	803	735	630	430	328	284	257	244	244	255
30.0	955	789	700	445	333	292	267	254	260	290
32.5	1047	860	740	472	340	297	271	269	302	359
35.0	1120	916	756	473	338	298	275	288	356	457
37.5	1190	954	772	469	337	296	278	306	432	551
40.0	1239	997	815	461	329	288	283	322	482	528
42.5	1304	1066	820	452	313	281	281	323	477	381
45.0	1349	1086	853	450	286	269	267	296	408	281
47.5	1400	1132	911	438	246	244	237	263	325	227
50.0	1512	1229	928	424	210	209	208	228	253	201
52.5	1616	1335	989	420	183	180	179	190	206	188
55.0	1868	1510	1088	405	171	163	158	166	174	178
57.5	2165	1726	1195	381	163	152	148	151	156	168
60.0	2448	1899	1331	346	152	146	141	141	143	159
62.5	2657	2017	1454	286	144	139	134	134	133	152
65.0	2723	1993	1353	229	137	134	130	127	130	163
67.5	2595	1638	951	177	134	129	126	129	150	202
70.0	2105	1080	535	141	129	125	129	144	189	254
72.5	1173	550	206	131	124	121	136	168	186	165
75.0	392	227	167	125	119	124	126	134	107	119
77.5	251	170	133	122	118	125	115	107	100	103

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CANDELA TABULATION - (Cont.)

80.0	196	149	118	120	114	118	113	105	99	98
82.5	163	124	112	120	112	106	110	105	100	100
85.0	142	98	105	116	110	104	112	107	102	100
87.5	112	85	100	116	108	104	113	108	104	98
90.0	89	75	105	117	110	104	114	109	104	96
92.5	80	72	103	117	110	102	112	110	107	99
95.0	75	88	97	114	108	98	108	107	104	97
97.5	67	94	93	106	101	91	102	101	100	92
100.0	69	89	88	93	94	84	97	97	96	86
102.5	68	80	82	82	86	80	91	92	93	81
105.0	62	71	74	73	78	76	86	89	89	73
107.5	56	62	65	65	70	72	82	85	85	65
110.0	50	56	59	60	63	67	77	82	81	59
112.5	45	50	53	56	59	64	73	78	75	52
115.0	41	46	48	53	55	61	69	74	69	47
117.5	39	42	45	50	53	60	66	69	62	42
120.0	37	40	42	48	52	58	63	64	56	39
122.5	36	38	40	46	50	56	60	60	49	37
125.0	35	37	39	44	49	55	58	56	43	36
127.5	35	36	38	44	48	54	55	50	38	34
130.0	35	36	38	43	48	52	52	44	35	33
132.5	36	36	38	43	46	48	47	39	32	32
135.0	36	37	39	42	43	42	39	35	31	32
137.5	36	36	37	39	39	36	31	27	27	29
140.0	33	35	36	36	34	29	22	19	21	23
142.5	28	30	30	29	26	21	15	13	15	17
145.0	23	23	24	22	19	14	11	9	11	12
147.5	16	16	16	15	12	9	7	6	7	7
150.0	11	11	11	10	9	6	4	4	4	5
152.5	7	7	7	7	6	4	3	2	2	2
155.0	4	5	5	4	4	4	3	2	1	1
157.5	3	3	4	4	4	3	2	2	1	0
160.0	2	3	3	3	3	3	2	2	1	0
162.5	2	3	3	3	3	3	2	1	1	0
165.0	2	3	3	3	3	3	2	1	0	0
167.5	2	3	3	3	3	3	2	1	0	0
170.0	2	3	3	3	3	3	2	1	0	0
172.5	2	2	3	3	3	3	2	1	0	0
175.0	2	2	2	3	3	3	2	1	0	0
177.5	2	2	2	3	3	2	2	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	391	391
2.5	382	381
5.0	333	331
7.5	286	285
10.0	249	249
12.5	233	233
15.0	216	214
17.5	215	214
20.0	213	211
22.5	224	223
25.0	233	232

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CANDELA TABULATION - (Cont.)

27.5	253	252
30.0	297	289
32.5	349	338
35.0	440	422
37.5	483	455
40.0	378	351
42.5	253	242
45.0	210	202
47.5	187	182
50.0	175	171
52.5	166	163
55.0	158	158
57.5	153	156
60.0	149	156
62.5	148	158
65.0	178	192
67.5	228	232
70.0	147	132
72.5	127	116
75.0	110	91
77.5	86	62
80.0	78	52
82.5	143	143
85.0	102	73
87.5	69	48
90.0	57	35
92.5	60	45
95.0	60	53
97.5	59	59
100.0	57	62
102.5	56	64
105.0	54	63
107.5	53	60
110.0	51	57
112.5	49	53
115.0	47	49
117.5	44	46
120.0	42	43
122.5	40	40
125.0	38	38
127.5	36	36
130.0	34	35
132.5	33	33
135.0	32	32
137.5	31	31
140.0	25	25
142.5	19	19
145.0	12	12
147.5	8	8
150.0	5	5
152.5	2	2
155.0	0	0
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	1	1

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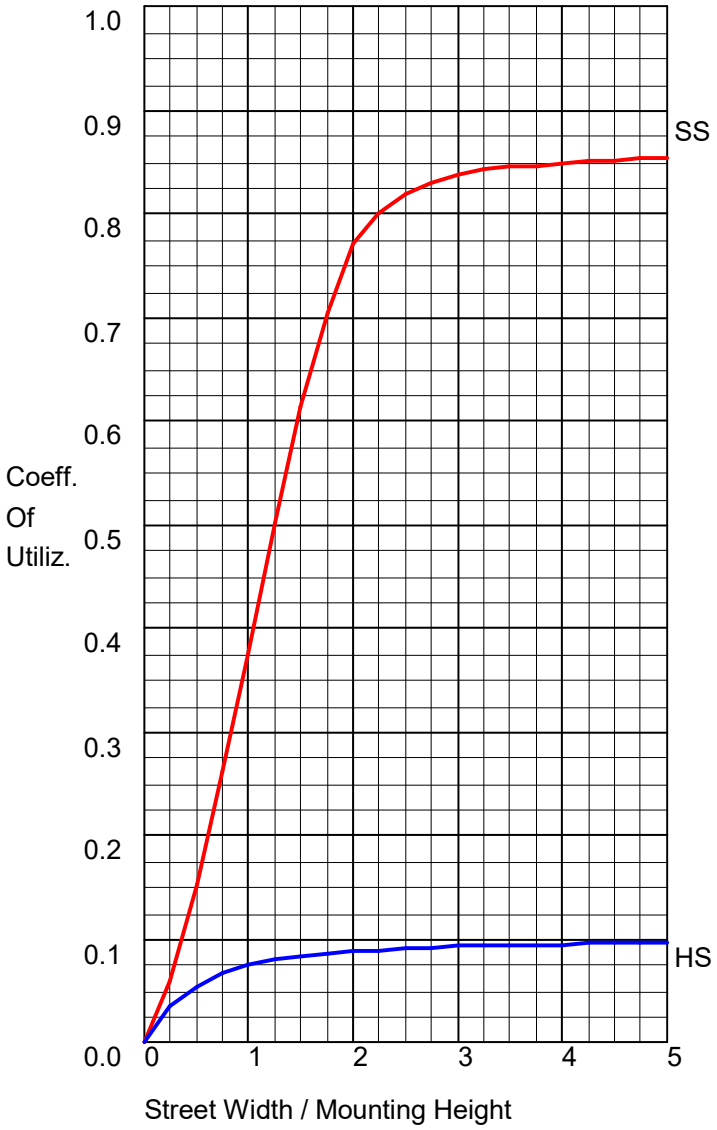
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6927.3	86.2
Downward House Side	819.3	10.2
Downward Total	7746.6	96.4
Upward Street Side	124.0	1.5
Upward House Side	163.9	2.0
Upward Total	287.9	3.6
Total Flux	8034.5	100.0

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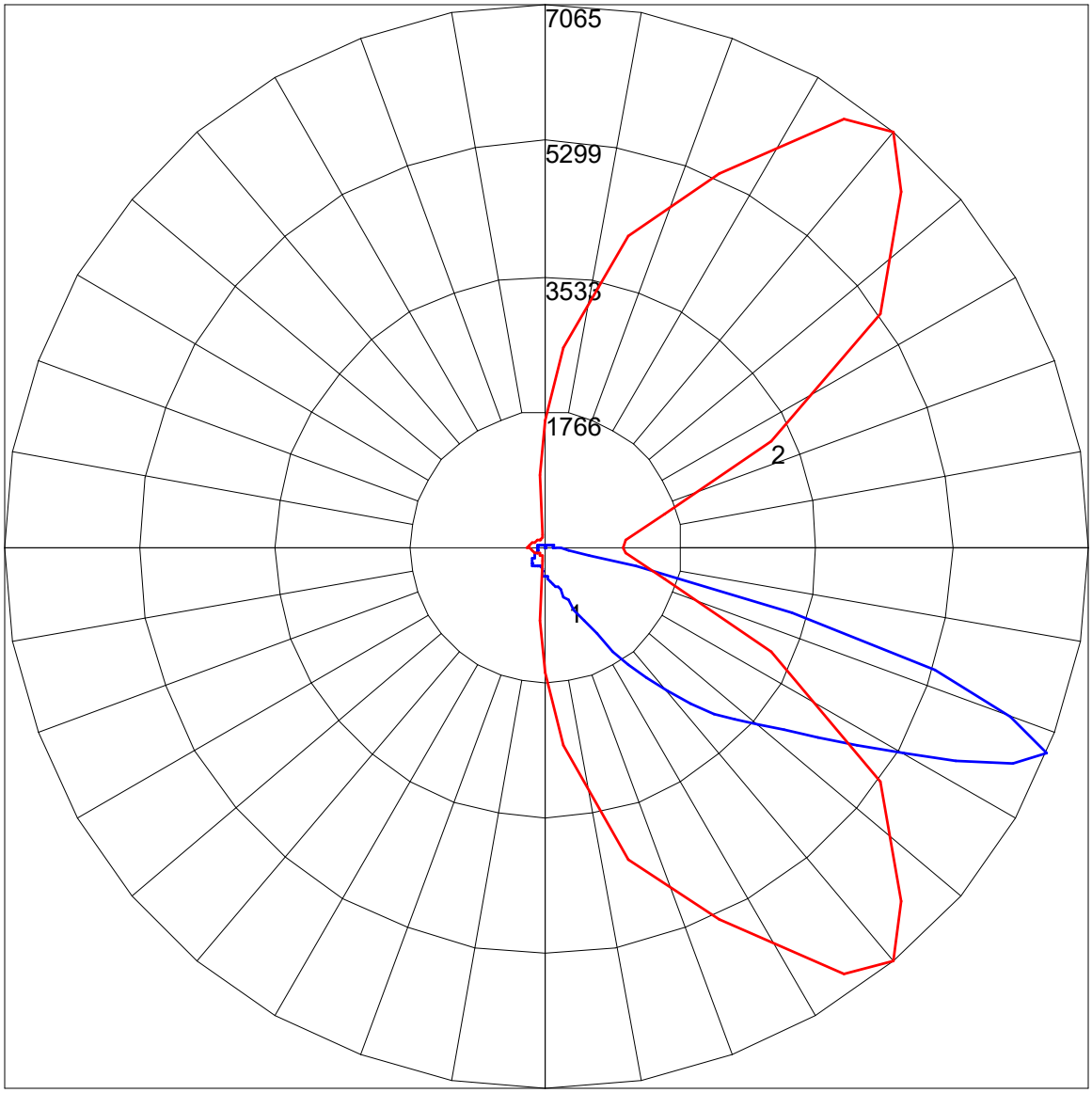
POLAR GRAPH



Maximum Candela = 7065 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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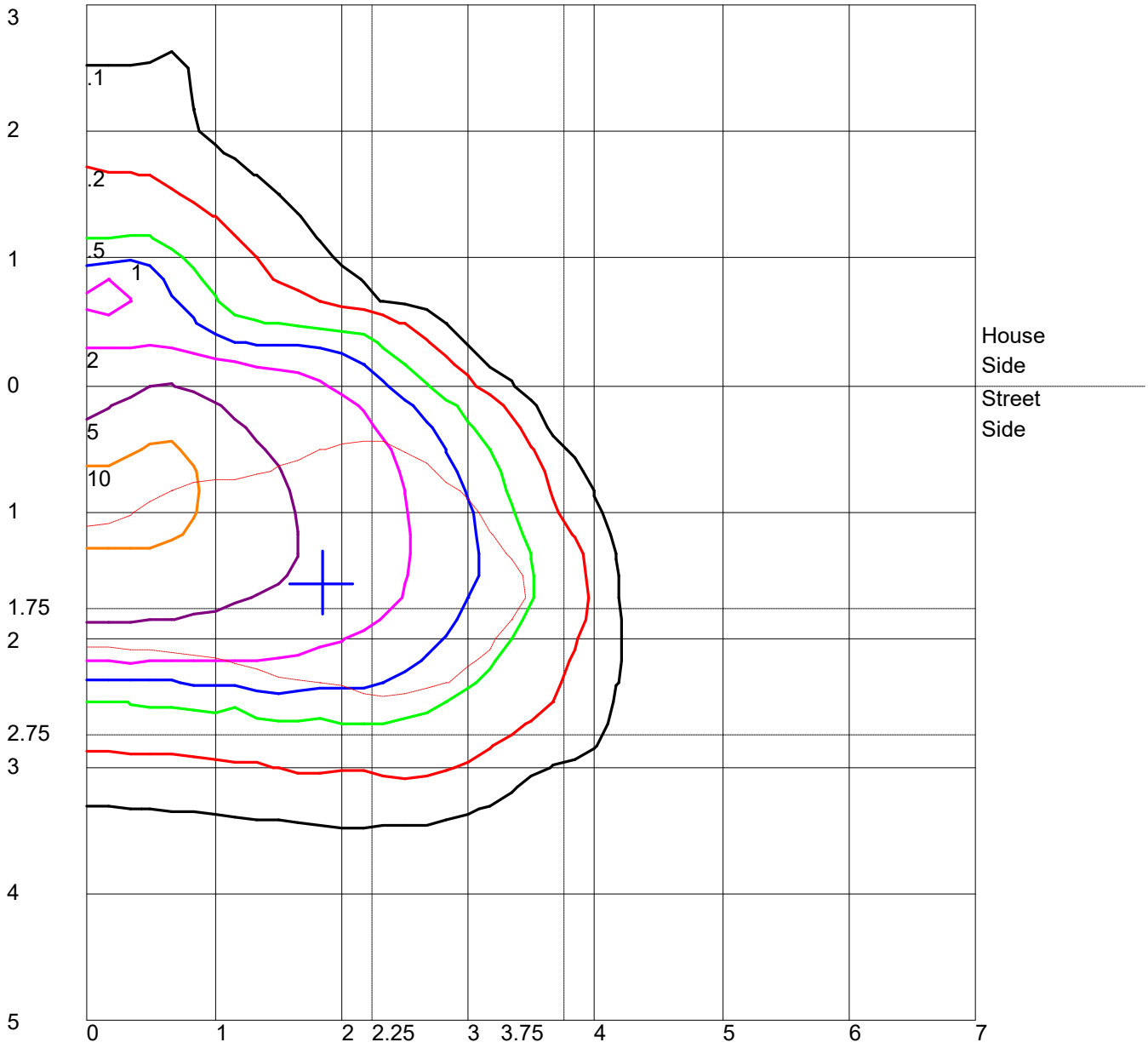
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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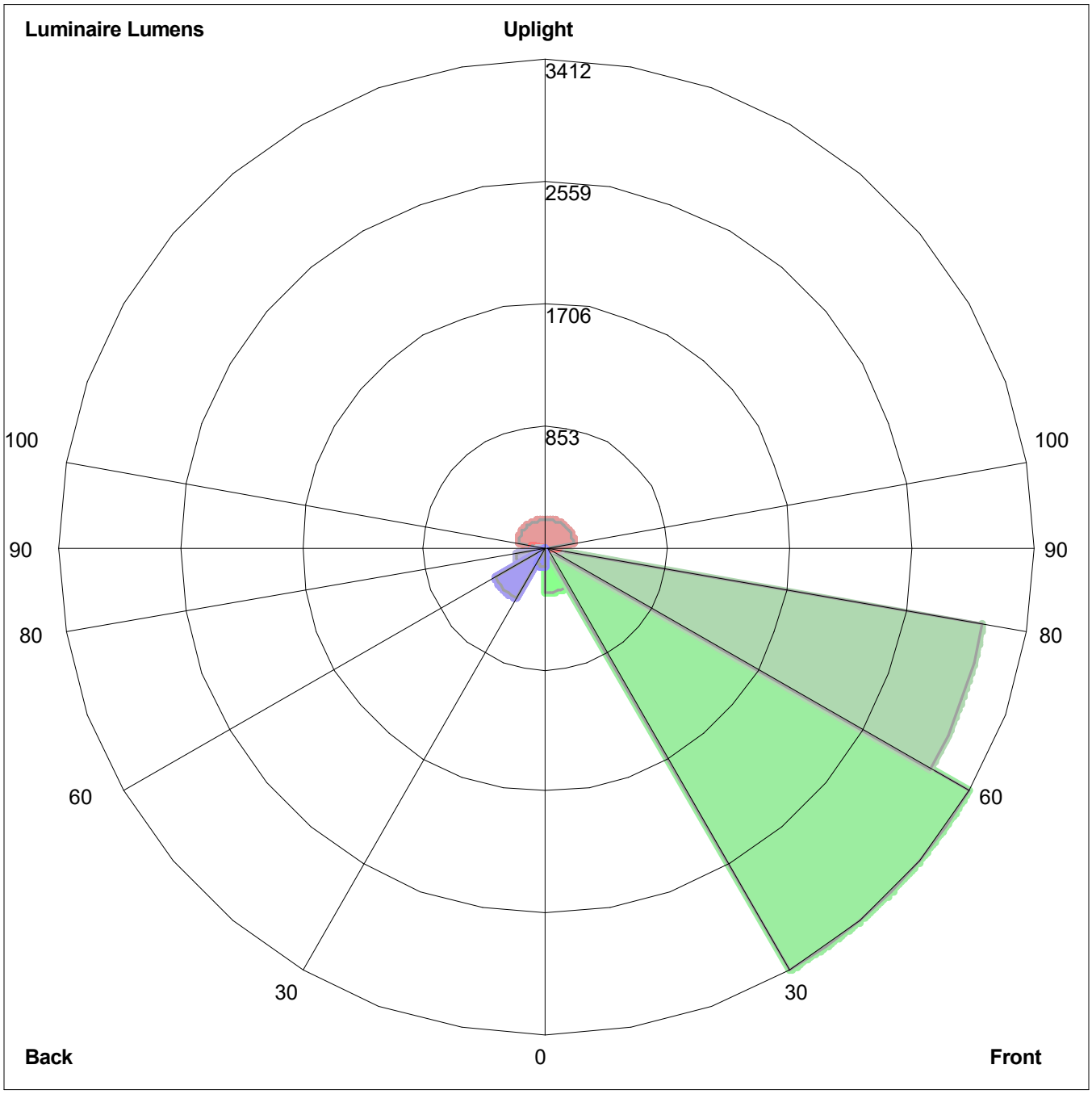
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=312.1, Medium=3412.5, High=3099.6, Very High=103.1
Back: Low=131.0, Medium=413.7, High=217.0, Very High=57.6
Uplight: Low=91.2, High=196.7

BUG Rating : B1-U3-G2

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