IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-50-70CRI-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-3-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8233
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	7241
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	7241
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	120 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	619 (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)	319.9	N.A.	3.9
FM - Front-Medium (30-60)	3497.1	N.A.	42.5
FH - Front-High (60-80)	3176.5	N.A.	38.6
FVH - Front-Very High (80-90)	105.6	N.A.	1.3
BL - Back-Low (0-30)	134.2	N.A.	1.6
BM - Back-Medium (30-60)	423.9	N.A.	5.1
BH - Back-High (60-80)	222.4	N.A.	2.7
BVH - Back-Very High (80-90)	59.0	N.A.	0.7
UL - Uplight-Low (90-100)	93.3	N.A.	1.1
UH - Uplight-High (100-180)	201.1	N.A.	2.4
Total	8233.0	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	400	400	400	400	400	400	400	400	400	400
2.5	413	412	408	407	407	407	404	405	401	401
5.0	466	467	462	458	459	455	447	436	414	403
7.5	469	473	466	478	494	493	483	472	456	424
10.0	503	510	519	507	515	496	489	497	483	453
12.5	527	527	529	533	529	541	531	524	524	489
15.0	578	566	572	579	570	570	560	567	546	534
17.5	599	610	604	603	635	616	606	617	609	576
20.0	670	679	682	700	681	703	707	693	670	640
22.5	788	773	781	789	797	778	778	797	781	719
25.0	863	879	922	956	927	926	914	930	906	873
27.5	1086	1122	1131	1110	1155	1099	1109	1085	1098	983
30.0	1342	1348	1389	1407	1361	1384	1349	1299	1251	1148
32.5	1755	1750	1761	1703	1692	1636	1660	1544	1463	1324
35.0	2027	2016	2026	2091	2013	1961	1928	1844	1651	1451
37.5	2243	2259	2278	2381	2424	2303	2221	2068	1788	1574
40.0	2486	2483	2530	2662	2738	2676	2533	2296	1949	1649
42.5	2754	2761	2815	2950	3055	3019	2852	2534	2125	1704
45.0	3113	3132	3208	3332	3384	3310	3161	2806	2236	1773
47.5	3557	3546	3660	3800	3791	3611	3433	3151	2313	1922
50.0	4002	3990	4127	4297	4277	3957	3715	3394	2505	2036
52.5	4484	4481	4589	4788	4801	4369	4035	3631	2778	2189
55.0	4996	5019	5103	5315	5294	4830	4431	3941	3168	2492
57.5	5526	5516	5624	5888	5878	5347	4929	4338	3589	2794
60.0	5445	5513	5755	6261	6424	6001	5520	4858	4030	3147
62.5	4698	4821	5212	5943	6733	6583	6187	5547	4602	3596
65.0	3031	3122	3833	5099	6204	7119	6892	6358	5204	4015
67.5	1015	1066	1640	3323	5458	6692	7241	6971	5511	4314
70.0	634	654	801	1409	4043	5895	6595	7151	5418	4022
72.5	454	470	556	866	1874	4753	5454	5976	5205	3259
75.0	331	345	418	607	1056	2582	3402	3683	4048	1382
77.5	224	234	306	467	703	1130	1231	1792	1196	514
80.0	151	162	217	351	484	605	592	619	466	312
82.5	113	125	172	282	323	343	318	301	276	235
85.0	86	97	138	230	237	206	186	169	170	184
87.5	65	75	109	181	154	122	114	114	121	137
90.0	45	53	80	106	82	85	89	92	100	111
92.5	28	31	45	54	66	79	83	87	95	103
95.0	32	32	46	55	66	79	83	87	95	97
97.5	36	34	47	57	66	78	82	84	92	82
100.0	39	35	47	57	66	77	81	81	86	69
102.5	40	36	47	58	66	75	78	76	75	53
105.0	41	38	47	58	66	73	75	70	62	45
107.5	42	39	46	58	66	69	68	61	49	41
110.0	42	41	46	58	64	63	59	51	40	37
112.5	42	42	45	58	61	55	50	43	36	36
115.0	43	42	44	55	56	47	43	38	32	35
117.5	42	42	43	52	50	41	38	34	31	34
120.0	42	42	42	47	44	37	35	32	30	33
122.5	42	41	39	41	39	35	33	31	30	32
125.0	40	40	36	37	36	33	32	31	30	32
127.5	38	37	34	34	35	32	32	31	31	32
130.0	35	35	33	32	33	32	32	32	31	32

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CANDELA TABULATION - (Cont.)

132.5	34	33	32	31	32	32	32	32	31	33
135.0	33	32	32	31	31	31	31	31	31	34
137.5	32	32	32	30	29	28	28	28	30	32
140.0	31	31	30	27	24	23	23	24	27	30
142.5	28	28	26	22	19	17	18	19	22	26
145.0	23	22	21	17	13	12	13	14	16	20
147.5	17	17	14	11	9	8	8	8	11	14
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	400	400	400	400	400	400	400	400	400	400
2.5	402	401	402	400	397	398	395	396	395	393
5.0	405	408	404	400	396	391	382	367	350	342
7.5	407	408	405	401	390	358	331	317	307	296
10.0	419	425	417	402	358	328	302	286	270	260
12.5	436	439	433	400	336	305	277	258	250	244
15.0	469	457	457	395	331	292	264	251	233	226
17.5	502	479	472	390	325	282	257	235	225	225
20.0	558	526	506	397	322	280	247	237	226	221
22.5	632	573	550	403	323	278	252	237	231	235
25.0	736	653	600	422	327	283	256	242	237	238
27.5	823	754	645	441	336	291	264	250	250	262
30.0	979	809	717	457	341	299	274	261	267	297
32.5	1072	882	759	484	348	304	277	275	310	368
35.0	1148	939	774	485	346	305	281	295	365	468
37.5	1219	978	791	480	345	303	285	314	443	565
40.0	1269	1021	835	472	337	295	290	330	494	541
42.5	1336	1092	840	463	321	288	288	331	489	391
45.0	1382	1113	874	461	293	275	274	303	418	288
47.5	1435	1160	934	449	252	250	243	270	334	232
50.0	1550	1259	951	435	215	214	214	233	260	206
52.5	1656	1369	1013	430	188	184	183	195	212	193
55.0	1915	1548	1115	415	175	167	162	170	178	182
57.5	2219	1769	1225	391	167	155	152	154	159	172
60.0	2509	1946	1364	354	155	150	145	145	147	163
62.5	2722	2067	1490	293	148	143	138	138	137	155
65.0	2790	2043	1386	235	141	138	133	130	133	167
67.5	2659	1679	975	181	138	132	129	132	153	207
70.0	2157	1107	548	145	132	128	132	148	194	261
72.5	1202	564	212	134	127	124	140	172	191	169
75.0	401	232	171	128	122	127	129	138	109	122
77.5	257	174	137	125	121	128	118	109	102	105

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CANDELA TABULATION - (Cont.)

80.0	201	153	121	123	117	121	116	107	101	100
82.5	167	127	115	123	115	108	113	107	102	102
85.0	146	100	107	119	113	106	115	109	104	102
87.5	115	88	102	119	111	106	116	111	106	100
90.0	92	77	107	120	113	106	117	112	106	98
92.5	82	74	105	120	113	104	115	113	109	101
95.0	77	91	99	117	110	100	111	109	106	99
97.5	69	96	95	108	103	93	104	103	102	94
100.0	71	92	91	95	96	87	99	99	98	89
102.5	70	82	84	84	89	82	93	94	95	83
105.0	64	73	76	75	80	78	89	92	92	75
107.5	57	64	67	67	72	74	84	88	88	67
110.0	51	57	60	62	65	69	79	84	83	60
112.5	46	51	54	57	60	66	75	80	77	53
115.0	42	47	49	54	56	63	71	76	71	48
117.5	40	43	46	51	54	61	68	71	64	43
120.0	38	41	43	49	53	59	65	66	57	40
122.5	36	39	41	47	51	57	62	62	50	38
125.0	35	38	40	45	50	56	59	57	44	36
127.5	35	37	39	45	49	55	56	51	39	34
130.0	35	37	39	44	49	53	53	45	35	33
132.5	36	37	39	44	47	49	48	40	32	32
135.0	36	38	40	43	44	43	40	35	31	32
137.5	36	37	38	40	40	36	31	28	28	30
140.0	33	35	36	36	34	30	23	20	22	24
142.5	29	31	31	30	27	22	16	14	16	18
145.0	24	24	25	23	20	15	11	9	11	13
147.5	17	17	17	16	13	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	400	400
2.5	392	391
5.0	341	339
7.5	293	292
10.0	255	255
12.5	239	239
15.0	221	219
17.5	220	219
20.0	218	216
22.5	229	228
25.0	239	238

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CANDELA TABULATION - (Cont.)

27.5	259	258
30.0	304	296
32.5	358	346
35.0	451	433
37.5	495	466
40.0	388	360
42.5	259	248
45.0	215	207
47.5	192	187
50.0	179	175
52.5	170	167
55.0	162	162
57.5	156	159
60.0	153	160
62.5	152	162
65.0	182	197
67.5	233	238
70.0	151	135
72.5	130	119
75.0	113	93
77.5	89	64
80.0	80	53
82.5	147	147
85.0	104	75
87.5	71	49
90.0	58	35
92.5	61	46
95.0	61	54
97.5	60	60
100.0	58	64
102.5	57	66
105.0	55	65
107.5	54	62
110.0	52	58
112.5	50	54
115.0	48	50
117.5	45	47
120.0	43	44
122.5	41	41
125.0	39	39
127.5	36	37
130.0	34	35
132.5	33	33
135.0	32	32
137.5	31	31
140.0	26	26
142.5	20	20
145.0	13	13
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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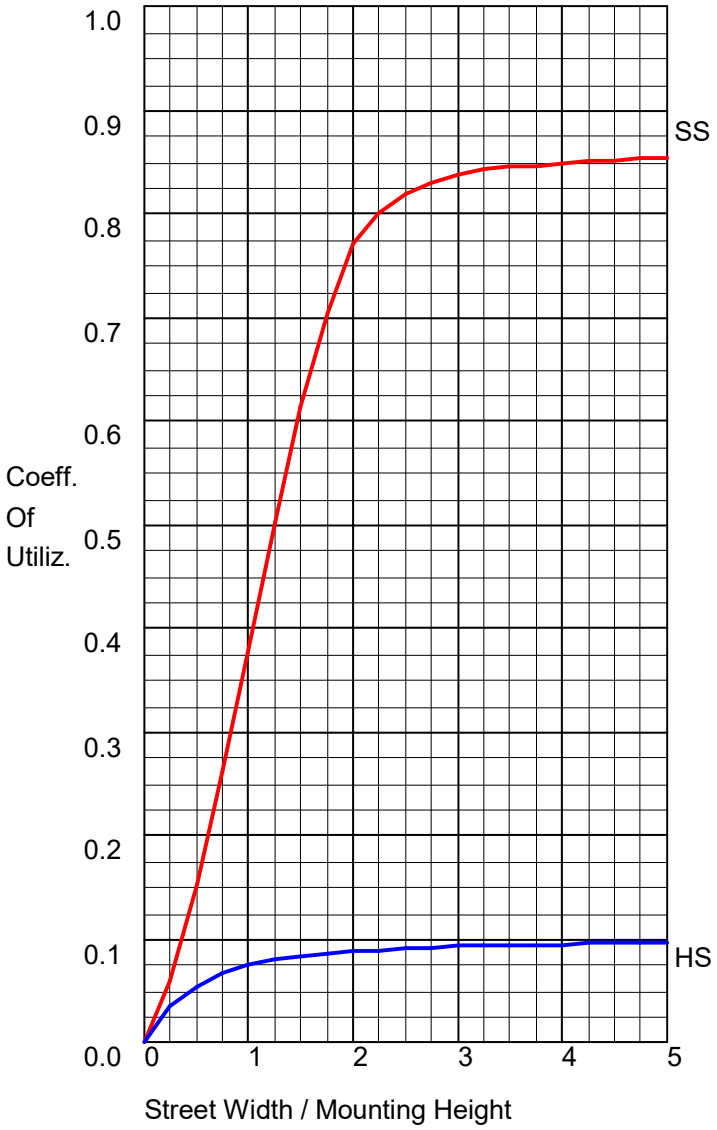
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7099.0	86.2
Downward House Side	839.5	10.2
Downward Total	7938.5	96.4
Upward Street Side	126.7	1.5
Upward House Side	167.7	2.0
Upward Total	294.4	3.6
Total Flux	8232.9	100.0

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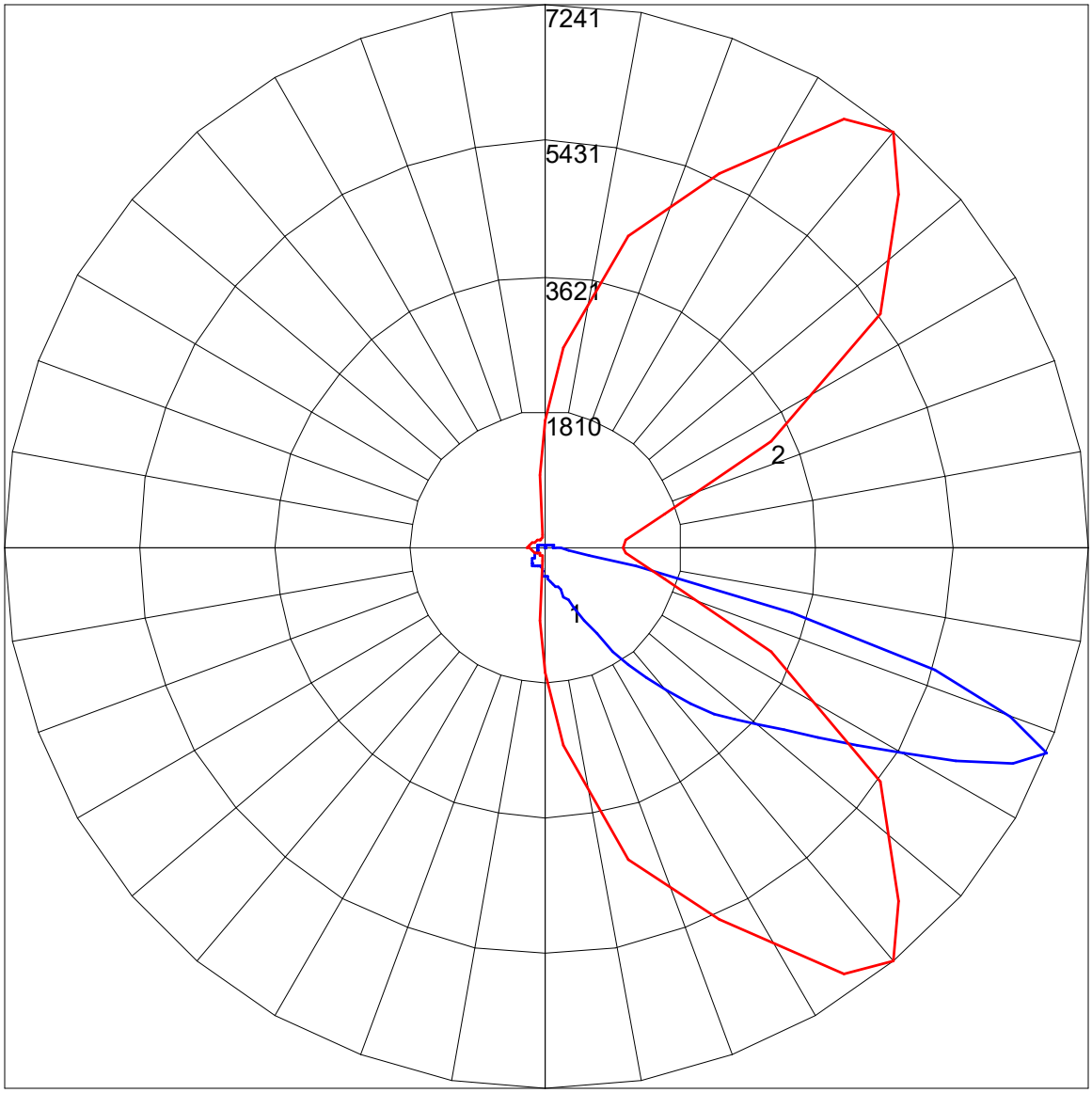
POLAR GRAPH



Maximum Candela = 7241 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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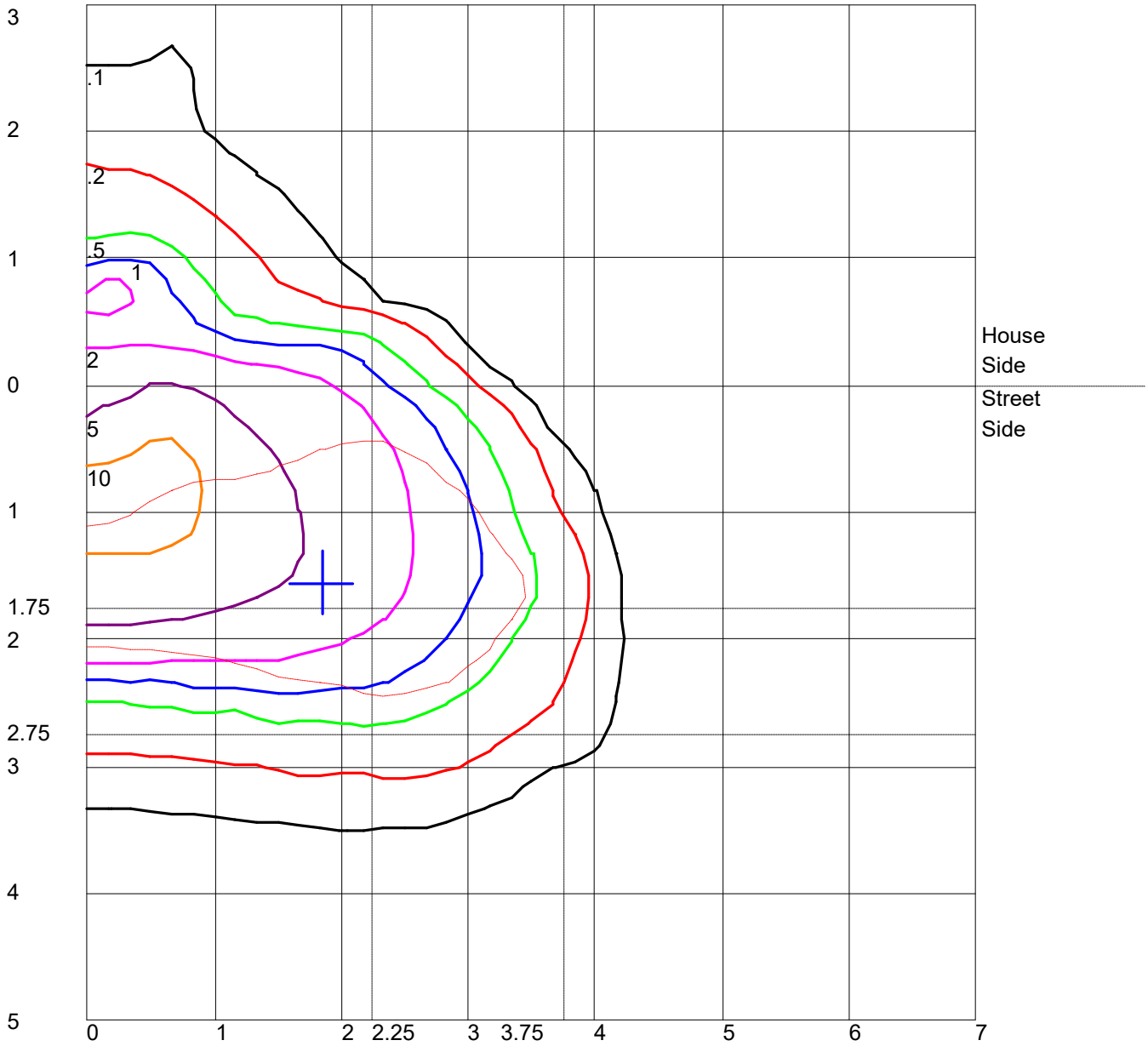
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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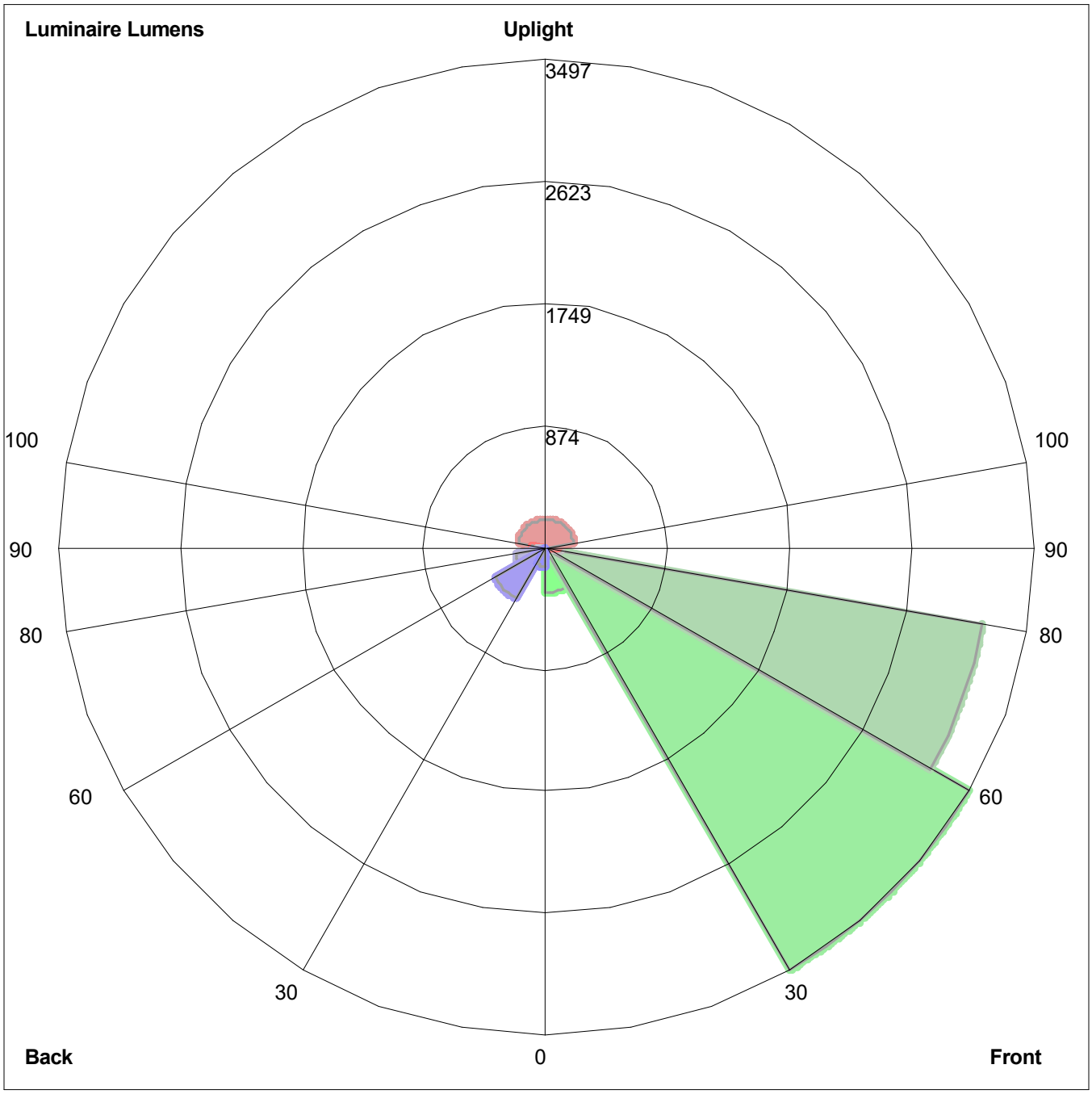
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=319.9, Medium=3497.1, High=3176.5, Very High=105.6
Back: Low=134.2, Medium=423.9, High=222.4, Very High=59.0
Uplight: Low=93.3, High=201.1

BUG Rating : B1-U3-G2

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