IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-40-70CRI-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-3-40-70CRI-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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8368
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	7359
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	7359
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	122 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	629 (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)	325.1	N.A.	3.9
FM - Front-Medium (30-60)	3554.3	N.A.	42.5
FH - Front-High (60-80)	3228.5	N.A.	38.6
FVH - Front-Very High (80-90)	107.4	N.A.	1.3
BL - Back-Low (0-30)	136.4	N.A.	1.6
BM - Back-Medium (30-60)	430.9	N.A.	5.1
BH - Back-High (60-80)	226.0	N.A.	2.7
BVH - Back-Very High (80-90)	60.0	N.A.	0.7
UL - Uplight-Low (90-100)	95.0	N.A.	1.1
UH - Uplight-High (100-180)	204.6	N.A.	2.4
Total	8368.2	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	407	407	407	407	407	407	407	407	407	407
2.5	420	419	415	414	414	414	411	412	408	408
5.0	474	475	470	466	467	462	454	443	421	410
7.5	477	481	474	486	502	501	491	480	463	431
10.0	511	518	527	515	523	504	497	505	491	460
12.5	536	536	538	542	538	550	540	533	533	497
15.0	587	575	581	588	579	579	569	576	555	543
17.5	609	620	614	613	645	626	616	627	619	585
20.0	681	690	693	711	692	714	719	704	681	650
22.5	801	786	794	802	810	791	791	810	794	731
25.0	877	893	937	972	942	941	929	945	921	887
27.5	1104	1140	1149	1128	1174	1117	1127	1103	1116	999
30.0	1364	1370	1412	1430	1383	1407	1371	1320	1271	1167
32.5	1784	1779	1790	1731	1720	1663	1687	1569	1487	1346
35.0	2060	2049	2059	2125	2046	1993	1960	1874	1678	1475
37.5	2280	2296	2315	2420	2464	2341	2257	2102	1817	1600
40.0	2527	2524	2571	2706	2783	2720	2574	2334	1981	1676
42.5	2799	2806	2861	2998	3105	3068	2899	2575	2160	1732
45.0	3164	3183	3261	3387	3439	3364	3213	2852	2273	1802
47.5	3615	3604	3720	3862	3853	3670	3489	3203	2351	1953
50.0	4067	4055	4195	4367	4347	4022	3776	3450	2546	2069
52.5	4557	4554	4664	4866	4880	4441	4101	3690	2823	2225
55.0	5078	5101	5187	5402	5381	4909	4504	4005	3220	2533
57.5	5616	5606	5716	5984	5974	5434	5010	4409	3648	2840
60.0	5534	5603	5849	6363	6529	6099	5610	4937	4096	3199
62.5	4775	4900	5297	6040	6843	6691	6288	5638	4677	3655
65.0	3081	3173	3896	5182	6306	7235	7005	6462	5289	4081
67.5	1032	1083	1667	3377	5547	6802	7359	7085	5601	4385
70.0	644	665	814	1432	4109	5991	6703	7268	5507	4088
72.5	461	478	565	880	1905	4831	5543	6074	5290	3312
75.0	336	351	425	617	1073	2624	3458	3743	4114	1405
77.5	228	238	311	475	714	1148	1251	1821	1216	522
80.0	153	165	221	357	492	615	602	629	474	317
82.5	115	127	175	287	328	349	323	306	281	239
85.0	87	99	140	234	241	209	189	172	173	187
87.5	66	76	111	184	157	124	116	116	123	139
90.0	46	54	81	108	83	86	90	94	102	113
92.5	28	32	46	55	67	80	84	88	97	105
95.0	33	33	47	56	67	80	84	88	97	99
97.5	37	35	48	58	67	79	83	85	94	83
100.0	40	36	48	58	67	78	82	82	87	70
102.5	41	37	48	59	67	76	79	77	76	54
105.0	42	39	48	59	67	74	76	71	63	46
107.5	43	40	47	59	67	70	69	62	50	42
110.0	43	42	47	59	65	64	60	52	41	38
112.5	43	43	46	59	62	56	51	44	37	37
115.0	44	43	45	56	57	48	44	39	33	36
117.5	43	43	44	53	51	42	39	35	31	35
120.0	43	43	43	48	45	38	36	33	30	34
122.5	43	42	40	42	40	36	34	32	30	33
125.0	41	41	37	38	37	34	33	32	30	33
127.5	39	38	35	35	36	33	33	32	31	33
130.0	36	36	34	33	34	33	33	33	31	33

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CANDELA TABULATION - (Cont.)

132.5	35	34	33	31	33	33	33	33	32	34
135.0	34	33	33	31	32	32	32	31	32	35
137.5	33	33	33	30	29	28	28	28	30	33
140.0	32	32	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	407	407	407	407	407	407	407	407	407	407
2.5	409	408	409	407	404	405	401	402	401	399
5.0	412	415	411	407	402	397	388	373	356	348
7.5	414	415	412	408	396	364	336	322	312	301
10.0	426	432	424	409	364	333	307	291	274	264
12.5	443	446	440	407	342	310	282	262	254	248
15.0	477	464	464	401	336	297	268	255	237	230
17.5	510	487	480	396	330	287	261	239	229	229
20.0	567	535	514	404	327	285	251	241	230	225
22.5	642	582	559	410	328	283	256	241	235	239
25.0	748	664	610	429	332	288	260	246	241	242
27.5	836	766	656	448	342	296	268	254	254	266
30.0	995	822	729	464	347	304	278	265	271	302
32.5	1090	896	771	492	354	309	282	280	315	374
35.0	1167	954	787	493	352	310	286	300	371	476
37.5	1239	994	804	488	351	308	290	319	450	574
40.0	1290	1038	849	480	343	300	295	335	502	550
42.5	1358	1110	854	471	326	293	293	336	497	397
45.0	1405	1131	888	469	298	280	278	308	425	293
47.5	1458	1179	949	456	256	254	247	274	339	236
50.0	1575	1280	967	442	219	218	217	237	264	209
52.5	1683	1391	1030	437	191	187	186	198	215	196
55.0	1946	1573	1133	422	178	170	165	173	181	185
57.5	2255	1798	1245	397	170	158	154	157	162	175
60.0	2550	1978	1386	360	158	152	147	147	149	166
62.5	2767	2101	1514	298	150	145	140	140	139	158
65.0	2836	2076	1409	239	143	140	135	132	135	170
67.5	2703	1706	991	184	140	134	131	134	156	210
70.0	2192	1125	557	147	134	130	134	150	197	265
72.5	1222	573	215	136	129	126	142	175	194	172
75.0	408	236	174	130	124	129	131	140	111	124
77.5	261	177	139	127	123	130	120	111	104	107

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CANDELA TABULATION - (Cont.)

80.0	204	155	123	125	119	123	118	109	103	102
82.5	170	129	117	125	117	110	115	109	104	104
85.0	148	102	109	121	115	108	117	111	106	104
87.5	117	89	104	121	113	108	118	113	108	102
90.0	93	78	109	122	115	108	119	114	108	100
92.5	83	75	107	122	115	106	117	115	111	103
95.0	78	92	101	119	112	102	113	111	108	101
97.5	70	98	97	110	105	95	106	105	104	96
100.0	72	93	92	97	98	88	101	101	100	90
102.5	71	83	85	85	90	83	95	96	97	84
105.0	65	74	77	76	81	79	90	93	93	76
107.5	58	65	68	68	73	75	85	89	89	68
110.0	52	58	61	63	66	70	80	85	84	61
112.5	47	52	55	58	61	67	76	81	78	54
115.0	43	48	50	55	57	64	72	77	72	49
117.5	41	44	47	52	55	62	69	72	65	44
120.0	39	42	44	50	54	60	66	67	58	41
122.5	37	40	42	48	52	58	63	63	51	39
125.0	36	39	41	46	51	57	60	58	45	37
127.5	36	38	40	46	50	56	57	52	40	35
130.0	36	38	40	45	50	54	54	46	36	34
132.5	37	38	40	45	48	50	49	41	33	33
135.0	37	39	41	44	45	44	41	36	32	33
137.5	37	38	39	41	41	37	32	28	28	30
140.0	34	36	37	37	35	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	407	407
2.5	398	397
5.0	347	345
7.5	298	297
10.0	259	259
12.5	243	243
15.0	225	223
17.5	224	223
20.0	222	220
22.5	233	232
25.0	243	242

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CANDELA TABULATION - (Cont.)

27.5	263	262
30.0	309	301
32.5	364	352
35.0	458	440
37.5	503	474
40.0	394	366
42.5	263	252
45.0	219	210
47.5	195	190
50.0	182	178
52.5	173	170
55.0	165	165
57.5	159	162
60.0	155	163
62.5	154	165
65.0	185	200
67.5	237	242
70.0	153	137
72.5	132	121
75.0	115	95
77.5	90	65
80.0	81	54
82.5	149	149
85.0	106	76
87.5	72	50
90.0	59	36
92.5	62	47
95.0	62	55
97.5	61	61
100.0	59	65
102.5	58	67
105.0	56	66
107.5	55	63
110.0	53	59
112.5	51	55
115.0	49	51
117.5	46	48
120.0	44	45
122.5	42	42
125.0	40	40
127.5	37	38
130.0	35	36
132.5	34	34
135.0	33	33
137.5	32	32
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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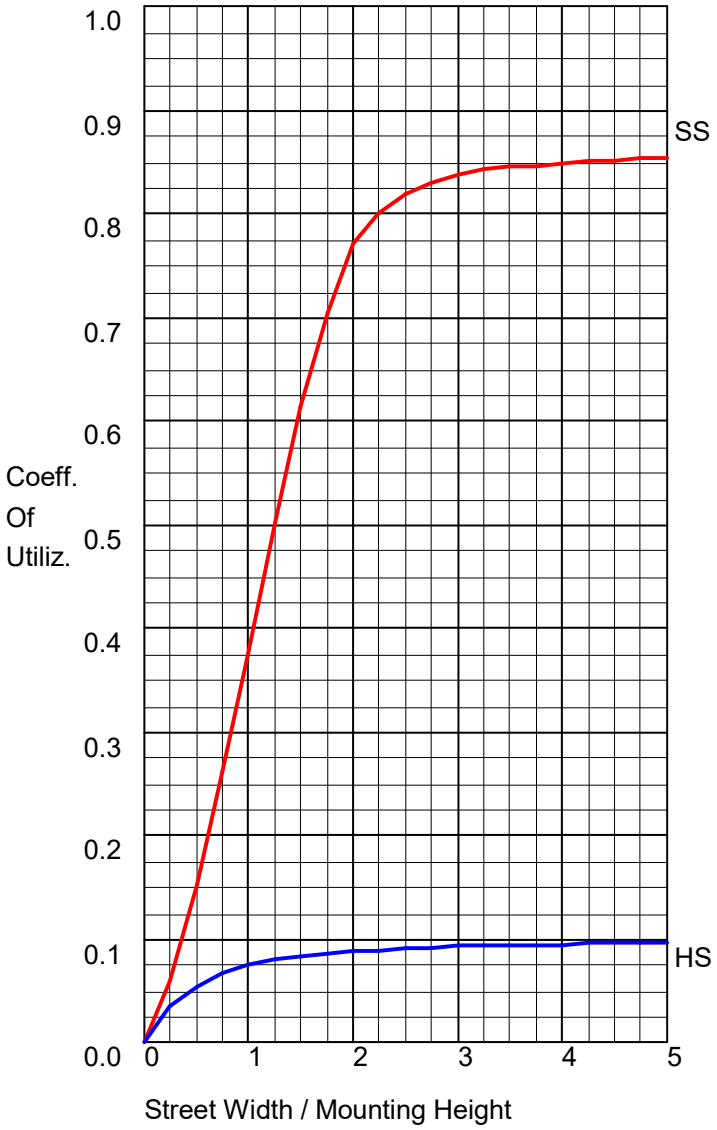
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7215.2	86.2
Downward House Side	853.3	10.2
Downward Total	8068.5	96.4
Upward Street Side	129.0	1.5
Upward House Side	170.6	2.0
Upward Total	299.6	3.6
Total Flux	8368.1	100.0

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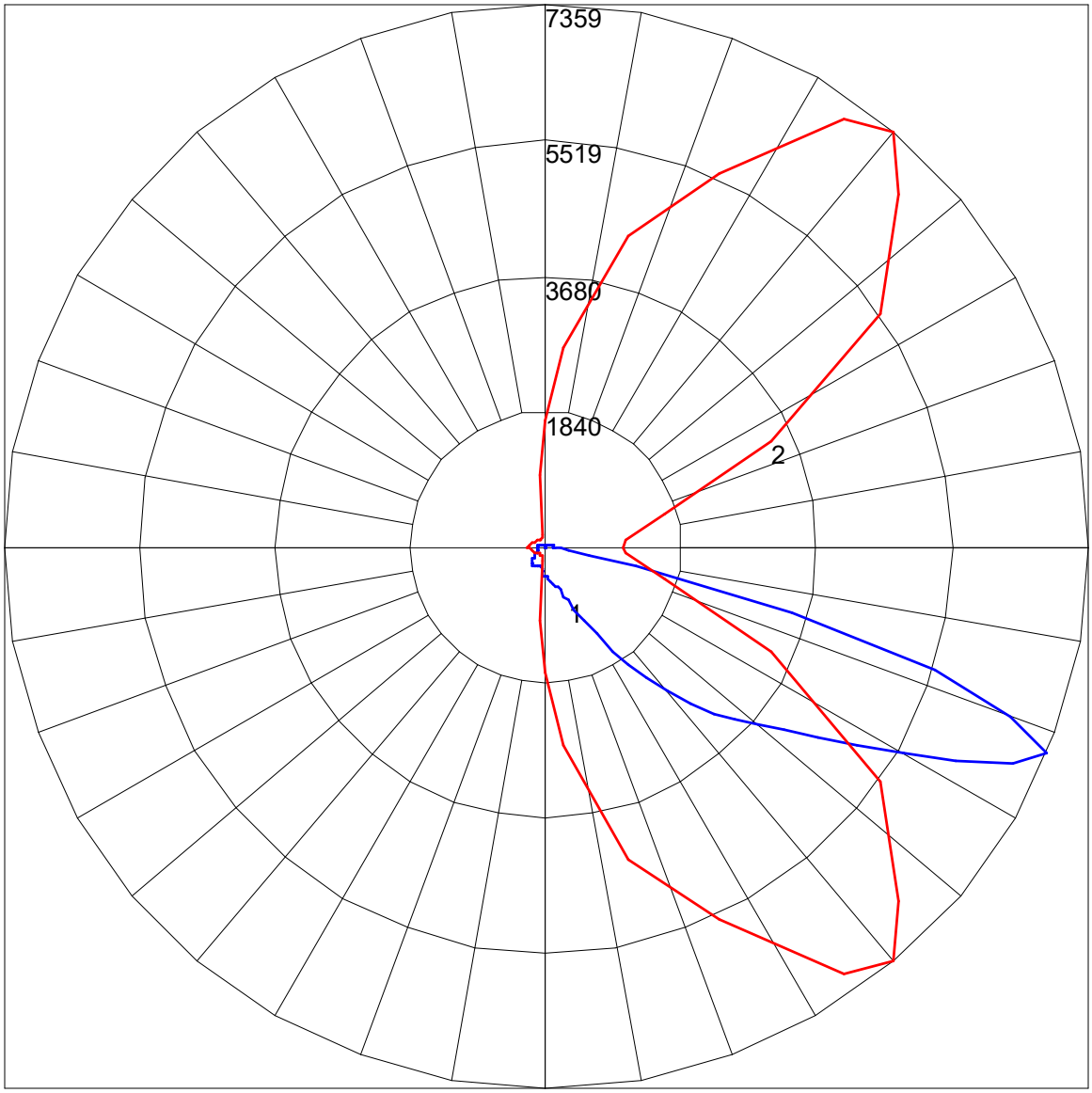
POLAR GRAPH



Maximum Candela = 7359 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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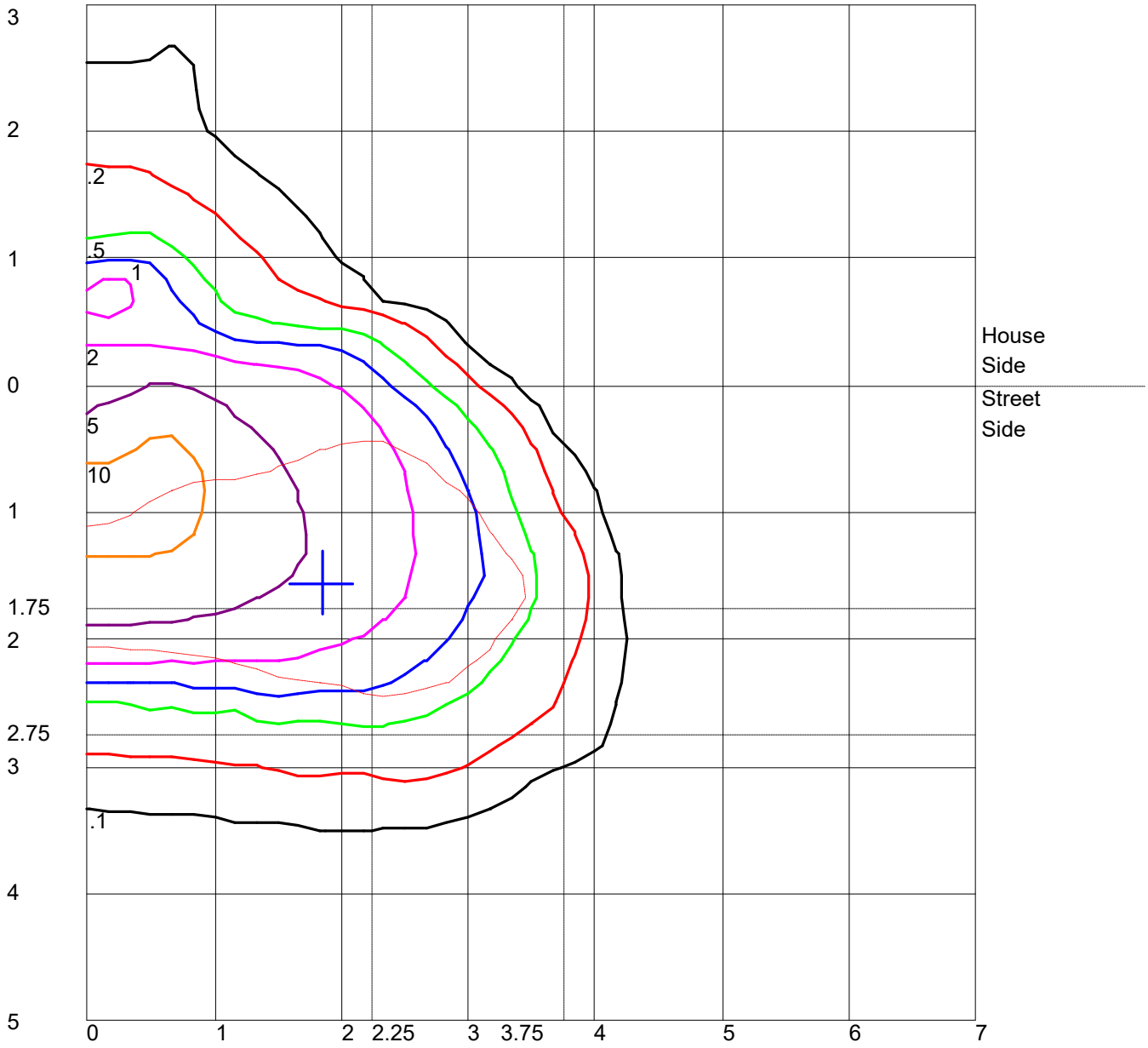
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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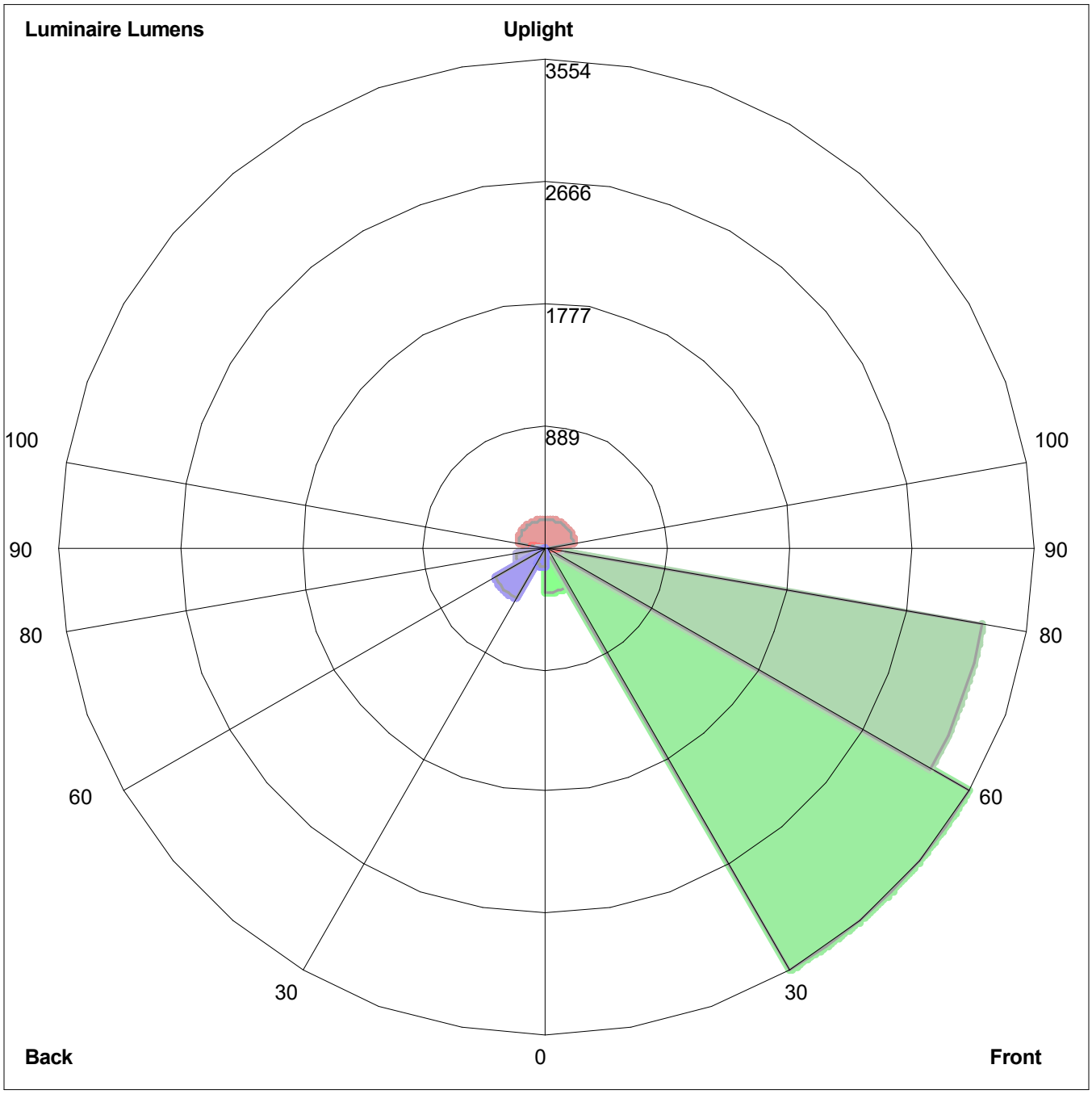
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=325.1, Medium=3554.3, High=3228.5, Very High=107.4
Back: Low=136.4, Medium=430.9, High=226.0, Very High=60.0
Uplight: Low=95.0, High=204.6

BUG Rating : B1-U3-G2

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