IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-50-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12641
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-3-50-70CRI-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13067
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	10687
Maximum Candela Angle	35H 67.5V
Maximum Candela (<90 Degrees Vertical)	10687
Maximum Candela Angle (<90 Degrees Vertical)	35H 67.5V
Maximum Candela At 90 Degrees Vertical	329 (2.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1372 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	691.9	N.A.	5.3
FM - Front-Medium (30-60)	5811.9	N.A.	44.5
FH - Front-High (60-80)	4818.3	N.A.	36.9
FVH - Front-Very High (80-90)	278.0	N.A.	2.1
BL - Back-Low (0-30)	155.6	N.A.	1.2
BM - Back-Medium (30-60)	422.0	N.A.	3.2
BH - Back-High (60-80)	283.7	N.A.	2.2
BVH - Back-Very High (80-90)	89.6	N.A.	0.7
UL - Uplight-Low (90-100)	161.4	N.A.	1.2
UH - Uplight-High (100-180)	354.7	N.A.	2.7
Total	13067.1	N.A.	100.0
BUG Rating	B1-U3-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	30	35	45	55	65	75
0.0	558	558	558	558	558	558	558	558	558	558
2.5	638	631	625	619	625	612	607	592	580	572
5.0	878	867	861	836	837	818	793	735	667	605
7.5	1022	1025	996	1012	1024	1031	997	890	799	686
10.0	1113	1127	1153	1120	1134	1143	1075	1058	957	796
12.5	1156	1153	1156	1181	1176	1170	1198	1153	1125	913
15.0	1277	1244	1262	1283	1256	1249	1255	1257	1204	1082
17.5	1311	1338	1322	1324	1368	1408	1349	1362	1353	1237
20.0	1479	1498	1511	1548	1504	1505	1558	1520	1491	1439
22.5	1737	1723	1724	1751	1757	1773	1739	1753	1740	1648
25.0	1938	1953	2046	2134	2089	2070	2099	2080	2055	2030
27.5	2337	2379	2423	2443	2507	2599	2509	2485	2520	2288
30.0	2664	2641	2834	2976	2997	3008	3198	3021	2892	2676
32.5	3054	3086	3266	3360	3477	3631	3712	3622	3418	3123
35.0	3278	3307	3503	3862	4019	4101	4370	4330	3903	3396
37.5	3371	3448	3678	4138	4369	4690	4974	4853	4233	3703
40.0	3425	3457	3799	4392	4672	5077	5517	5298	4618	3892
42.5	3424	3473	3929	4644	4975	5424	6032	5690	5011	4029
45.0	3477	3546	4122	5010	5336	5806	6405	6077	5273	4174
47.5	3623	3691	4416	5453	5810	6323	6788	6518	5380	4492
50.0	3687	3761	4622	5844	6298	6831	7198	6785	5662	4733
52.5	3699	3772	4682	6039	6626	7215	7610	7001	5981	5061
55.0	4260	4251	4920	6190	6788	7358	7882	7237	6335	5737
57.5	6401	6296	6408	6835	7165	7468	7987	7261	6577	6208
60.0	8597	8553	8583	8536	8415	8030	7810	6909	6533	6650
62.5	9411	9480	9640	9865	9801	9288	7633	6239	6336	7127
65.0	7669	7800	8844	10281	10550	10155	8272	5470	5698	7143
67.5	3108	3225	4642	8098	9921	10687	9138	4908	4566	6756
70.0	1487	1497	1867	3402	5916	8592	9824	5583	3208	5300
72.5	1169	1183	1358	1925	2563	3748	9161	7804	2219	3071
75.0	973	1003	1128	1411	1667	2032	4743	6466	2065	1099
77.5	829	853	937	1130	1261	1468	2000	3468	1229	510
80.0	727	747	800	892	957	1106	1372	1343	727	348
82.5	619	633	665	720	763	839	1054	987	595	321
85.0	401	413	433	466	500	557	767	877	544	312
87.5	219	233	251	280	307	342	495	602	437	252
90.0	108	114	139	165	186	206	274	329	262	196
92.5	57	62	87	107	116	126	156	183	171	175
95.0	61	59	84	101	107	117	137	145	158	164
97.5	68	62	85	101	108	117	134	141	154	141
100.0	73	64	86	102	109	117	132	137	144	120
102.5	75	66	86	103	109	116	130	130	126	94
105.0	77	69	85	103	110	116	127	119	106	80
107.5	78	73	84	104	110	115	120	105	88	73
110.0	79	76	83	104	109	113	110	90	74	67
112.5	79	78	82	102	107	108	97	77	65	64
115.0	79	79	81	99	101	99	85	70	59	63
117.5	80	80	80	93	93	90	76	64	55	61
120.0	80	79	78	86	85	81	71	61	53	59
122.5	79	78	73	77	77	75	67	59	53	57
125.0	77	76	69	71	72	70	65	59	54	57
127.5	73	71	66	66	68	67	63	59	55	57
130.0	69	68	64	63	65	64	62	60	56	58

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CANDELA TABULATION - (Cont.)

132.5	67	66	64	61	62	63	62	59	57	60
135.0	65	65	63	60	61	62	60	57	56	60
137.5	66	65	63	60	58	57	54	51	53	58
140.0	63	62	59	53	50	48	44	43	46	52
142.5	55	54	50	44	41	36	33	34	37	43
145.0	45	44	40	33	31	26	24	25	29	33
147.5	33	32	29	23	21	18	15	16	20	24
150.0	22	22	19	16	14	10	8	10	13	14
152.5	16	16	13	7	6	5	4	5	8	10
155.0	5	5	3	3	3	3	2	3	5	6
157.5	1	1	2	2	2	2	2	3	3	4
160.0	0	1	1	1	2	2	2	2	3	3
162.5	0	1	1	2	2	2	2	2	3	3
165.0	0	1	1	2	2	2	2	2	3	3
167.5	0	1	1	2	2	2	2	2	3	3
170.0	0	1	1	2	2	2	2	2	2	3
172.5	0	1	1	2	2	2	2	2	3	3
175.0	0	1	2	2	2	2	2	2	2	3
177.5	0	1	2	2	2	2	2	2	2	3
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	558	558	558	558	558	558	558	558	558	558
2.5	564	557	553	546	530	523	519	516	509	505
5.0	580	572	554	524	499	477	453	433	404	385
7.5	601	577	552	511	465	404	352	332	325	316
10.0	645	609	570	494	404	344	329	316	303	294
12.5	684	634	587	478	364	338	317	302	302	297
15.0	790	677	619	463	368	337	317	309	286	271
17.5	873	729	644	461	383	342	319	280	251	237
20.0	1027	825	715	496	408	353	288	246	221	208
22.5	1221	938	812	544	428	329	251	215	201	200
25.0	1486	1110	957	622	423	278	224	197	189	182
27.5	1716	1373	1092	671	375	240	204	187	171	167
30.0	2104	1548	1303	669	295	220	196	173	157	150
32.5	2382	1767	1439	636	252	211	183	160	145	141
35.0	2596	1951	1489	560	233	201	169	150	139	132
37.5	2796	2062	1501	488	223	190	158	148	137	125
40.0	2919	2166	1536	414	215	177	155	150	131	105
42.5	3073	2328	1465	328	207	172	160	148	116	92
45.0	3182	2362	1440	275	201	176	165	136	110	90
47.5	3309	2421	1520	263	202	181	161	129	111	90
50.0	3573	2624	1541	261	212	191	154	128	114	92
52.5	3812	2820	1635	249	218	214	156	131	130	159
55.0	4293	3194	1775	225	186	212	177	153	196	205
57.5	4975	3673	1892	213	172	172	188	200	227	153
60.0	5736	4203	2032	200	168	162	195	213	178	113
62.5	6356	4585	2150	190	167	166	190	174	167	125
65.0	6562	4568	1813	185	168	174	173	144	157	130
67.5	6106	3697	1242	183	166	172	160	157	145	127
70.0	4780	2339	639	175	170	180	166	153	147	129
72.5	2351	1060	262	174	170	173	161	154	142	134
75.0	658	373	218	173	171	166	165	156	146	137
77.5	432	285	196	178	175	166	169	161	152	141

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CANDELA TABULATION - (Cont.)

80.0	321	245	179	182	174	167	174	164	155	145
82.5	253	204	175	195	181	171	181	169	161	153
85.0	215	156	166	197	184	175	187	176	163	154
87.5	176	131	160	199	186	175	190	178	167	155
90.0	147	110	167	198	187	174	191	182	172	159
92.5	137	113	164	197	188	172	190	185	178	165
95.0	125	143	154	191	183	164	182	181	176	165
97.5	115	156	150	174	171	153	173	171	170	157
100.0	118	150	144	152	159	144	163	165	165	149
102.5	116	136	133	132	146	138	155	158	159	139
105.0	107	121	122	117	132	133	149	153	153	127
107.5	96	107	111	107	120	125	142	148	147	115
110.0	88	97	100	99	108	118	136	143	141	105
112.5	81	89	92	93	99	112	129	138	133	96
115.0	76	82	85	90	93	107	123	132	124	90
117.5	71	76	80	86	90	103	117	124	114	83
120.0	67	72	75	82	87	99	111	117	102	78
122.5	64	68	72	79	85	95	106	108	92	76
125.0	62	65	69	77	84	94	101	99	82	73
127.5	61	64	68	76	83	92	95	91	74	70
130.0	62	64	67	75	82	90	91	82	68	67
132.5	63	65	68	76	79	83	84	75	65	65
135.0	64	66	69	75	75	72	71	66	62	64
137.5	63	65	67	70	68	61	54	52	53	60
140.0	58	60	61	61	57	49	39	37	42	48
142.5	48	50	52	50	44	36	29	26	31	35
145.0	38	39	39	37	32	25	19	17	20	25
147.5	27	28	28	26	22	16	11	11	14	16
150.0	16	16	16	16	14	10	7	6	8	10
152.5	11	11	11	11	9	7	5	4	4	5
155.0	7	7	7	7	7	6	4	3	3	3
157.5	4	5	5	5	5	5	4	3	2	2
160.0	3	4	4	4	5	5	3	3	2	1
162.5	3	3	4	4	5	4	3	3	2	1
165.0	3	3	4	4	5	4	3	3	2	1
167.5	3	3	3	4	5	4	3	3	2	1
170.0	3	3	3	4	4	4	3	2	2	1
172.5	3	3	3	4	4	4	3	2	1	1
175.0	3	3	3	4	4	4	3	2	1	0
177.5	3	3	3	4	4	4	3	2	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	558	558
2.5	498	499
5.0	370	369
7.5	313	312
10.0	292	289
12.5	293	293
15.0	263	261
17.5	229	227
20.0	204	201
22.5	193	192
25.0	176	176

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CANDELA TABULATION - (Cont.)

27.5	160	158
30.0	146	144
32.5	138	136
35.0	131	130
37.5	121	118
40.0	101	98
42.5	92	91
45.0	89	89
47.5	89	90
50.0	93	94
52.5	176	181
55.0	205	211
57.5	86	87
60.0	80	84
62.5	80	81
65.0	79	77
67.5	79	71
70.0	77	64
72.5	79	58
75.0	84	52
77.5	85	48
80.0	88	45
82.5	92	49
85.0	93	51
87.5	95	57
90.0	97	64
92.5	102	81
95.0	104	94
97.5	104	105
100.0	102	111
102.5	100	113
105.0	97	110
107.5	95	106
110.0	93	102
112.5	92	97
115.0	90	92
117.5	88	89
120.0	85	86
122.5	81	83
125.0	78	79
127.5	74	75
130.0	70	71
132.5	67	67
135.0	65	65
137.5	63	63
140.0	51	51
142.5	38	39
145.0	28	28
147.5	17	18
150.0	11	11
152.5	6	6
155.0	2	1
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	2	2

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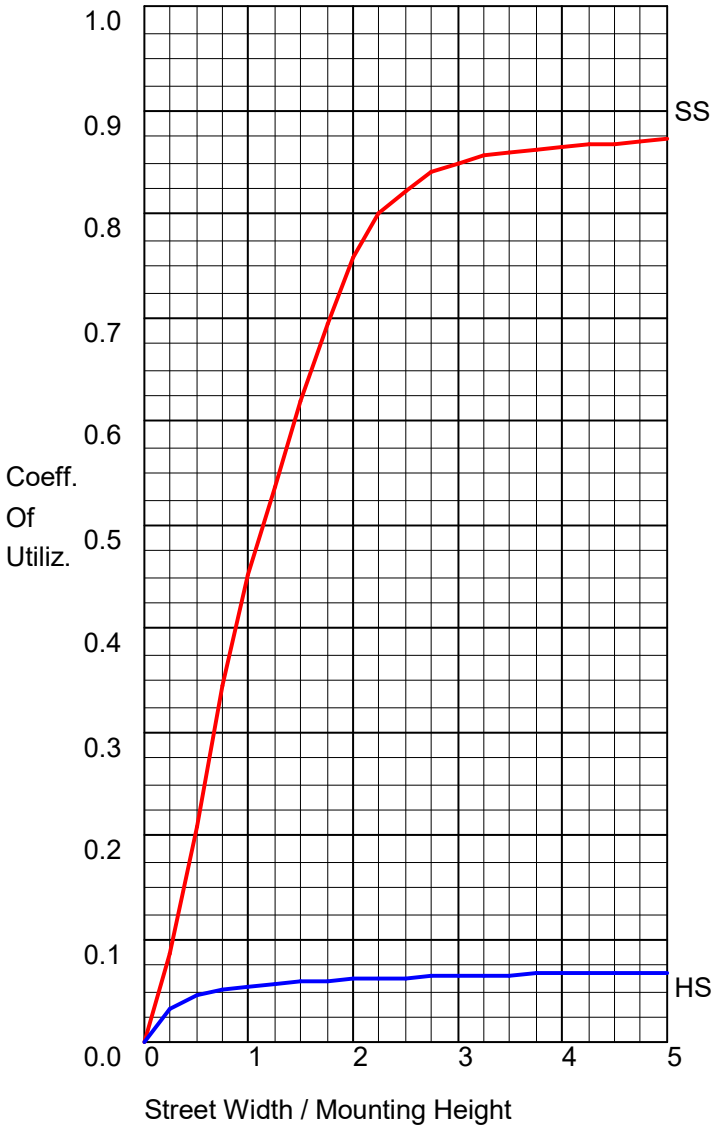
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11600.1	88.8
Downward House Side	950.9	7.3
Downward Total	12551.0	96.1
Upward Street Side	230.8	1.8
Upward House Side	285.3	2.2
Upward Total	516.1	3.9
Total Flux	13067.1	100.0

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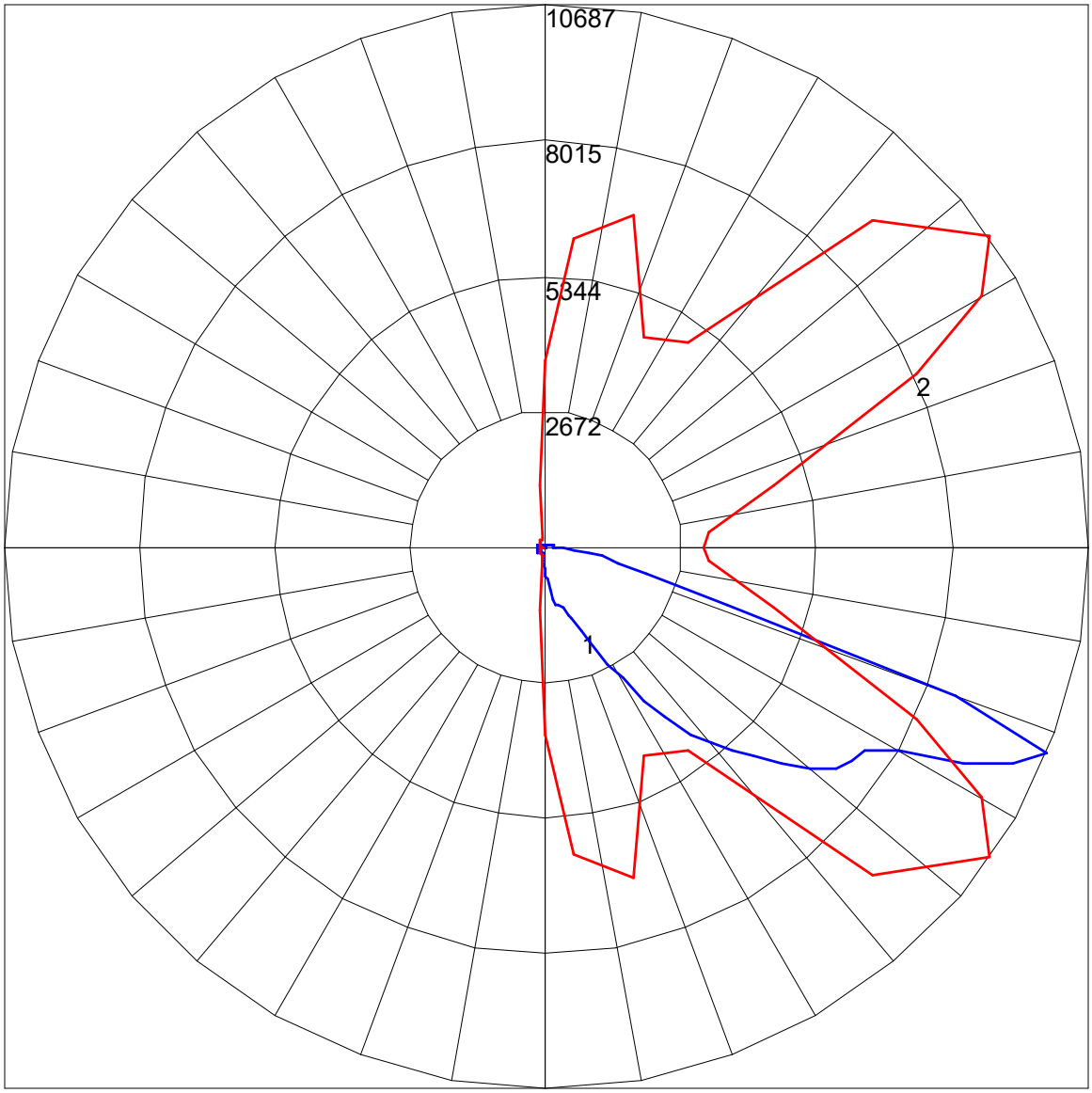
POLAR GRAPH



Maximum Candela = 10687 Located At Horizontal Angle = 35, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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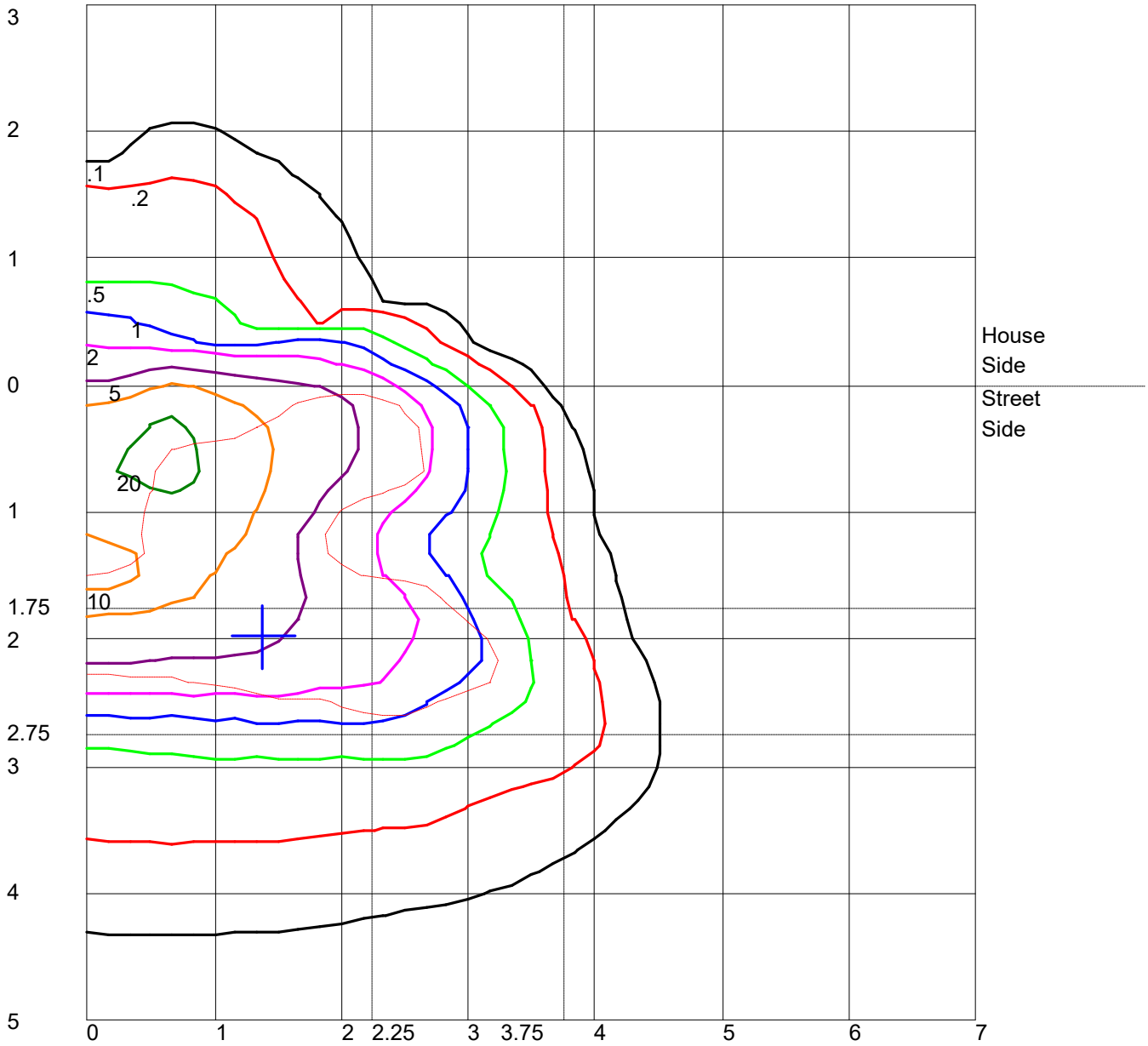
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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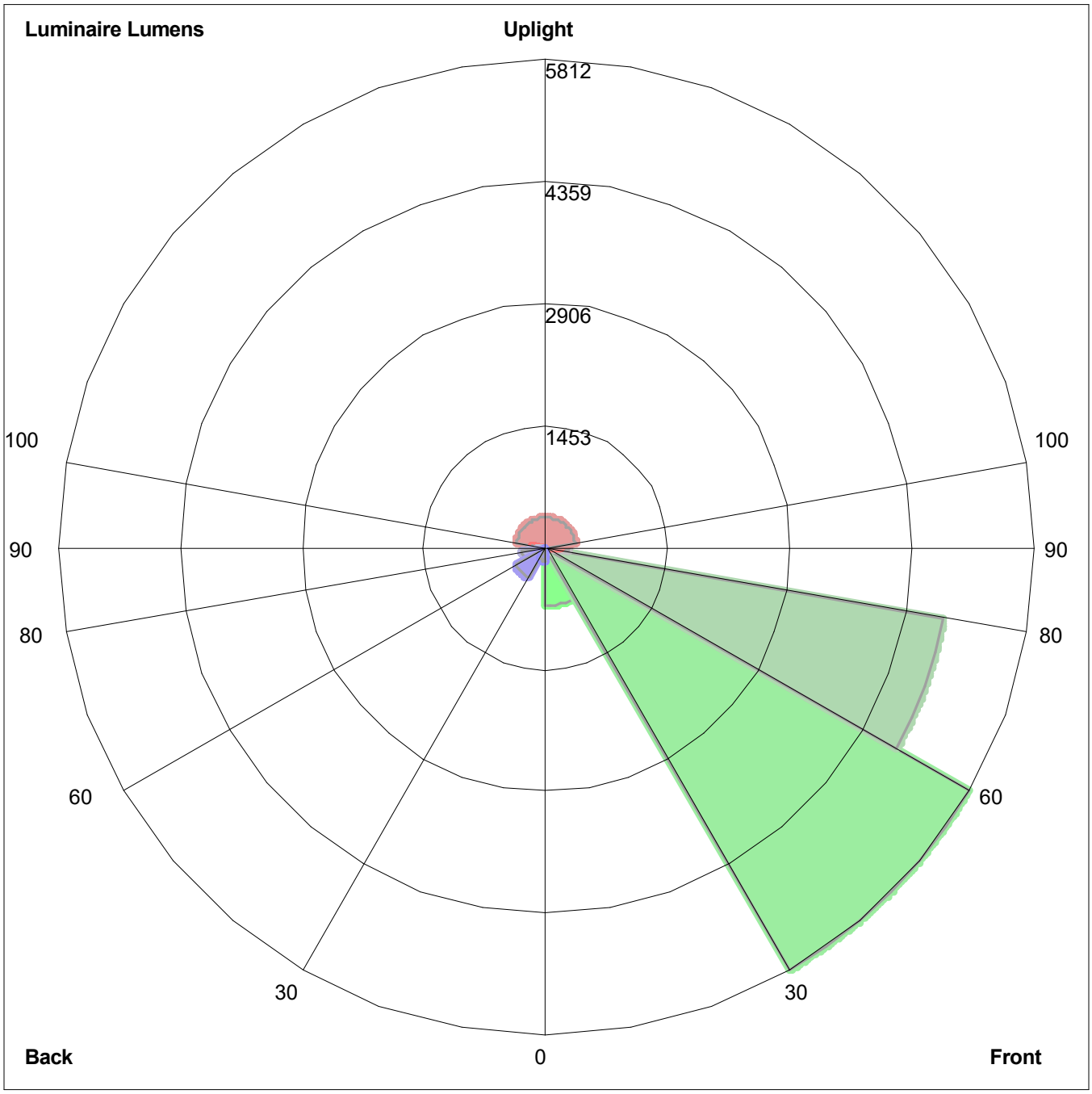
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=691.9, Medium=5811.9, High=4818.3, Very High=278.0
Back: Low=155.6, Medium=422.0, High=283.7, Very High=89.6
Uplight: Low=161.4, High=354.7

BUG Rating : B1-U3-G3

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