IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-30-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12569
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-2-30-70CRI
[_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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25250
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	191.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	15102
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	15102
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	404 (1.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1329 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1548.3	N.A.	6.1
FM - Front-Medium (30-60)	9420.2	N.A.	37.3
FH - Front-High (60-80)	3868.1	N.A.	15.3
FVH - Front-Very High (80-90)	269.9	N.A.	1.1
BL - Back-Low (0-30)	1326.0	N.A.	5.3
BM - Back-Medium (30-60)	5497.4	N.A.	21.8
BH - Back-High (60-80)	1808.3	N.A.	7.2
BVH - Back-Very High (80-90)	303.3	N.A.	1.2
UL - Uplight-Low (90-100)	338.9	N.A.	1.3
UH - Uplight-High (100-180)	869.5	N.A.	3.4
Total	25249.9	N.A.	100.0
BUG Rating	B4-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	72.5	75.0
0.0	2159	2159	2159	2159	2159	2159	2159	2159	2159	2159
2.5	2201	2196	2218	2250	2250	2242	2225	2176	2165	2164
5.0	2265	2254	2289	2331	2339	2325	2298	2264	2249	2259
7.5	2336	2324	2263	2287	2260	2265	2347	2353	2310	2297
10.0	2394	2403	2412	2418	2441	2373	2322	2407	2378	2383
12.5	2615	2659	2617	2590	2563	2500	2544	2452	2620	2625
15.0	2736	2731	2755	2744	2821	2712	2706	2766	2723	2826
17.5	3086	3071	3108	2945	2993	3129	2951	3057	2970	3055
20.0	3319	3317	3353	3309	3408	3290	3412	3377	3295	3294
22.5	3862	3829	3902	3796	3782	3715	3737	3686	3704	3683
25.0	4566	4538	4428	4323	4354	4146	4127	4182	4047	4044
27.5	5653	5680	5551	5329	4955	4825	4687	4630	4527	4510
30.0	6771	6818	6713	6343	6076	5515	5375	5213	5121	5138
32.5	7080	7112	7216	7426	7140	6574	6365	5943	5841	5686
35.0	6824	6778	6909	7371	7933	7594	7371	6757	6466	6302
37.5	7038	6976	6970	7183	7706	8194	8291	7896	7130	6910
40.0	7479	7389	7352	7436	7788	8247	8506	9225	7905	7713
42.5	7811	7649	7614	7690	8069	8553	8774	9612	9138	8687
45.0	7730	7617	7603	7773	8268	8977	9356	9459	10360	10062
47.5	7383	7330	7323	7640	8279	9377	9806	9590	10959	10959
50.0	6962	6902	6882	7261	8090	9661	10392	10080	11281	11348
52.5	6210	6159	6177	6562	7623	9683	10957	11069	11652	11850
55.0	5202	5178	5290	5637	6774	9285	11291	11977	12179	12433
57.5	4166	4152	4227	4619	5665	8290	11219	12575	13023	13213
60.0	2917	2953	3064	3394	4259	6768	10719	12967	13759	13784
62.5	1803	1826	1903	2174	2821	4641	9498	12695	15102	14407
65.0	1471	1470	1487	1543	1767	2622	7499	11807	14637	14871
67.5	1283	1282	1279	1333	1401	1506	4869	9850	12488	12970
70.0	950	963	1023	1122	1230	1243	2477	7089	9131	9873
72.5	759	775	769	793	1011	1084	1340	4067	5814	6239
75.0	645	674	675	685	785	910	1027	2303	3560	3813
77.5	532	584	591	597	680	771	867	1533	2246	2226
80.0	475	525	533	522	587	673	732	1032	1329	1320
82.5	422	447	469	458	507	574	635	776	932	934
85.0	336	361	394	392	428	488	532	590	672	701
87.5	204	234	301	319	345	385	418	443	467	469
90.0	133	166	242	273	298	325	338	360	375	381
92.5	152	169	246	277	301	328	333	358	373	378
95.0	176	175	250	282	305	330	327	358	371	373
97.5	198	181	251	284	306	326	316	350	353	335
100.0	210	187	249	285	305	322	307	331	310	282
102.5	219	195	246	286	303	316	299	302	259	237
105.0	224	204	240	286	302	310	284	269	220	213
107.5	227	211	234	285	300	300	262	234	196	198
110.0	228	217	227	282	295	285	237	204	181	187
112.5	227	221	221	278	287	264	216	180	171	178
115.0	225	222	216	271	274	242	198	164	163	169
117.5	224	222	213	259	256	224	184	154	158	161
120.0	222	220	208	242	238	209	175	148	153	155
122.5	219	217	202	223	223	199	168	144	147	147
125.0	213	211	193	205	209	190	164	144	143	142
127.5	205	203	186	189	198	184	164	145	142	142
130.0	194	192	181	178	189	181	165	147	144	144

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CANDELA TABULATION - (Cont.)

132.5	186	185	178	171	183	178	159	147	148	148
135.0	182	181	177	170	174	162	147	148	151	151
137.5	181	181	175	159	149	137	131	137	147	150
140.0	161	160	152	135	118	106	108	117	128	131
142.5	133	132	123	108	84	79	84	93	105	108
145.0	105	103	94	75	59	56	60	69	80	83
147.5	73	70	62	52	40	29	35	46	53	56
150.0	51	49	44	35	17	9	12	25	31	32
152.5	30	31	22	12	4	1	3	7	11	12
155.0	11	10	7	3	0	0	0	1	2	3
157.5	3	3	1	0	0	0	0	0	0	0
160.0	2	2	0	0	0	0	0	0	0	0
162.5	2	2	0	0	0	0	0	0	0	0
165.0	2	2	0	0	0	0	0	0	0	0
167.5	2	1	1	0	0	0	0	0	0	0
170.0	2	1	1	0	0	0	0	0	0	0
172.5	2	1	1	1	0	0	0	0	0	0
175.0	2	1	1	1	0	0	0	0	0	0
177.5	2	2	1	1	1	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**									
	85.0	**90.0**	**95.0**	**105.0**	**115.0**	**125.0**	**135.0**	**145.0**	**155.0**	**165.0**
0.0	2159	2159	2159	2159	2159	2159	2159	2159	2159	2159
2.5	2148	2134	2135	2146	2134	2155	2171	2160	2165	2183
5.0	2156	2129	2133	2218	2234	2225	2256	2226	2208	2197
7.5	2234	2178	2193	2269	2282	2224	2154	2060	2071	2094
10.0	2325	2271	2269	2327	2299	2157	2192	2151	2135	2079
12.5	2551	2448	2502	2534	2314	2259	2176	2142	2123	2247
15.0	2784	2636	2692	2689	2508	2428	2259	2338	2309	2374
17.5	3047	2919	3025	2932	2691	2505	2543	2443	2478	2735
20.0	3318	3264	3301	3119	2934	2725	2586	2779	2866	3026
22.5	3833	3688	3694	3460	3126	2902	2915	3115	3264	3598
25.0	4174	4183	4037	3758	3394	3098	3225	3528	3732	3978
27.5	4792	4642	4602	4079	3556	3435	3646	3958	4194	4496
30.0	5234	5160	5091	4534	3886	3843	4047	4316	4570	4948
32.5	5659	5559	5530	4970	4171	4221	4319	4706	5104	5389
35.0	6201	6005	5941	5186	4388	4461	4652	5104	5290	5522
37.5	6737	6546	6434	5344	4586	4648	4952	5222	5384	5550
40.0	7380	7131	6898	5410	4776	4723	5088	5250	5379	5465
42.5	7980	7757	7251	5487	4848	4836	5075	5182	5195	5151
45.0	8660	8064	7796	5592	4661	4990	4960	4955	4768	4619
47.5	9477	8793	8136	5504	4675	4864	4728	4572	4247	4074
50.0	10222	9610	8392	5565	4594	4614	4402	4125	3758	3573
52.5	11214	10399	8771	5466	4417	4282	4008	3709	3335	3215
55.0	12149	10976	9014	5009	4146	3853	3597	3301	3027	2972
57.5	12846	11802	8753	4604	3832	3452	3169	2977	2780	2745
60.0	13482	11881	8238	4199	3387	2978	2788	2683	2521	2464
62.5	13597	11563	7281	3733	2906	2517	2428	2370	2222	2146
65.0	12905	10150	5814	3107	2283	2069	2087	2050	1900	1803
67.5	10740	7463	4061	2265	1777	1630	1712	1686	1534	1484
70.0	7410	4740	2580	1528	1335	1287	1346	1286	1212	1192
72.5	4680	3027	1731	1131	1095	1033	1061	1011	968	935
75.0	3032	2135	1330	967	990	888	870	823	791	799
77.5	1434	1108	978	876	901	767	734	704	704	702

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CANDELA TABULATION - (Cont.)

80.0	869	801	762	796	800	658	633	625	658	678
82.5	647	614	604	708	672	565	559	582	681	738
85.0	521	394	489	611	550	494	507	553	686	777
87.5	431	210	430	490	455	423	436	496	564	572
90.0	320	148	363	404	390	366	371	349	325	298
92.5	253	257	310	403	388	362	369	350	329	301
95.0	247	336	284	399	385	352	365	349	331	302
97.5	269	350	296	373	371	335	356	342	328	299
100.0	287	335	301	321	353	322	348	337	325	291
102.5	281	311	290	281	328	311	339	333	324	283
105.0	265	284	272	250	298	301	330	328	320	274
107.5	243	256	251	228	268	284	320	324	316	262
110.0	221	230	229	212	237	264	306	317	308	250
112.5	202	209	207	197	210	245	289	308	300	238
115.0	185	192	190	184	191	229	270	297	290	228
117.5	172	178	177	176	177	215	253	281	276	218
120.0	161	166	166	168	169	205	239	264	257	210
122.5	153	156	156	160	165	195	227	248	237	204
125.0	145	147	149	156	164	190	217	233	217	197
127.5	142	144	147	154	164	188	208	218	199	190
130.0	143	144	148	155	165	188	204	205	185	185
132.5	146	147	150	158	164	182	199	195	176	180
135.0	152	152	155	161	162	167	182	186	173	179
137.5	156	157	158	157	152	148	155	159	166	179
140.0	144	147	146	140	131	124	120	128	143	160
142.5	120	124	123	115	105	96	88	96	113	131
145.0	94	95	96	89	79	69	63	65	84	101
147.5	61	63	65	61	54	43	40	47	58	71
150.0	36	36	37	37	31	20	16	28	41	49
152.5	16	17	18	17	12	8	7	11	20	32
155.0	5	5	6	6	5	5	5	6	9	12
157.5	0	1	1	2	3	3	4	5	5	6
160.0	0	0	0	1	2	3	4	5	5	5
162.5	0	0	0	1	2	3	4	5	5	4
165.0	0	0	0	1	2	3	4	5	5	4
167.5	0	0	0	1	2	3	4	4	5	4
170.0	0	0	0	1	2	3	4	4	5	4
172.5	0	0	0	1	2	3	3	4	4	4
175.0	0	0	0	1	1	2	3	4	4	3
177.5	0	0	0	1	2	2	3	4	4	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	2159	2159
2.5	2172	2190
5.0	2153	2133
7.5	2056	2077
10.0	2076	2026
12.5	2231	2248
15.0	2374	2294
17.5	2741	2796
20.0	3140	3016
22.5	3645	3640
25.0	4137	4151

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CANDELA TABULATION - (Cont.)

27.5	4647	4711
30.0	5260	5243
32.5	5542	5544
35.0	5675	5716
37.5	5711	5818
40.0	5619	5746
42.5	5217	5312
45.0	4602	4679
47.5	4056	4102
50.0	3570	3604
52.5	3204	3231
55.0	2956	2972
57.5	2712	2724
60.0	2397	2422
62.5	2062	2049
65.0	1688	1681
67.5	1407	1392
70.0	1146	1125
72.5	883	853
75.0	750	710
77.5	632	584
80.0	614	554
82.5	713	650
85.0	776	722
87.5	397	395
90.0	194	138
92.5	196	154
95.0	202	180
97.5	206	205
100.0	210	224
102.5	215	237
105.0	219	244
107.5	224	247
110.0	228	247
112.5	230	245
115.0	231	240
117.5	230	234
120.0	227	229
122.5	221	224
125.0	214	217
127.5	206	208
130.0	198	200
132.5	189	191
135.0	184	185
137.5	182	183
140.0	168	169
142.5	140	141
145.0	109	110
147.5	80	81
150.0	54	54
152.5	37	38
155.0	15	14
157.5	8	7
160.0	5	5
162.5	4	4
165.0	4	4

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CANDELA TABULATION - (Cont.)

167.5	3	3
170.0	3	3
172.5	3	3
175.0	3	3
177.5	3	3
180.0	1	1

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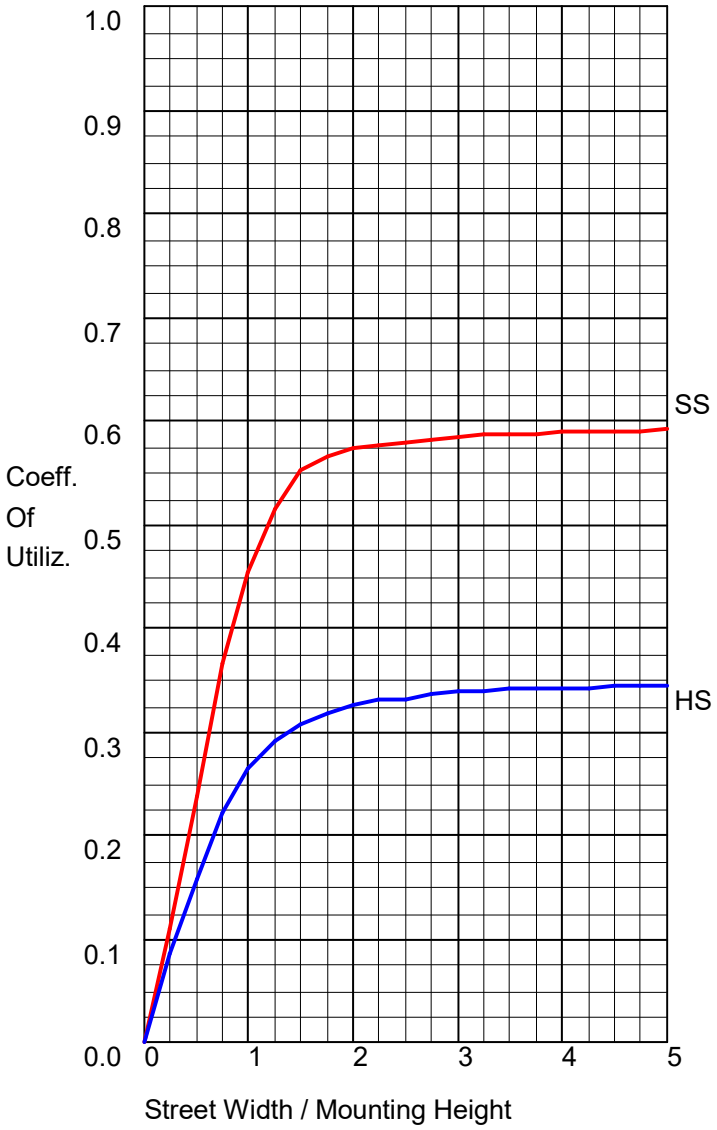
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15106.5	59.8
Downward House Side	8934.9	35.4
Downward Total	24041.4	95.2
Upward Street Side	576.5	2.3
Upward House Side	631.8	2.5
Upward Total	1208.3	4.8
Total Flux	25249.7	100.0

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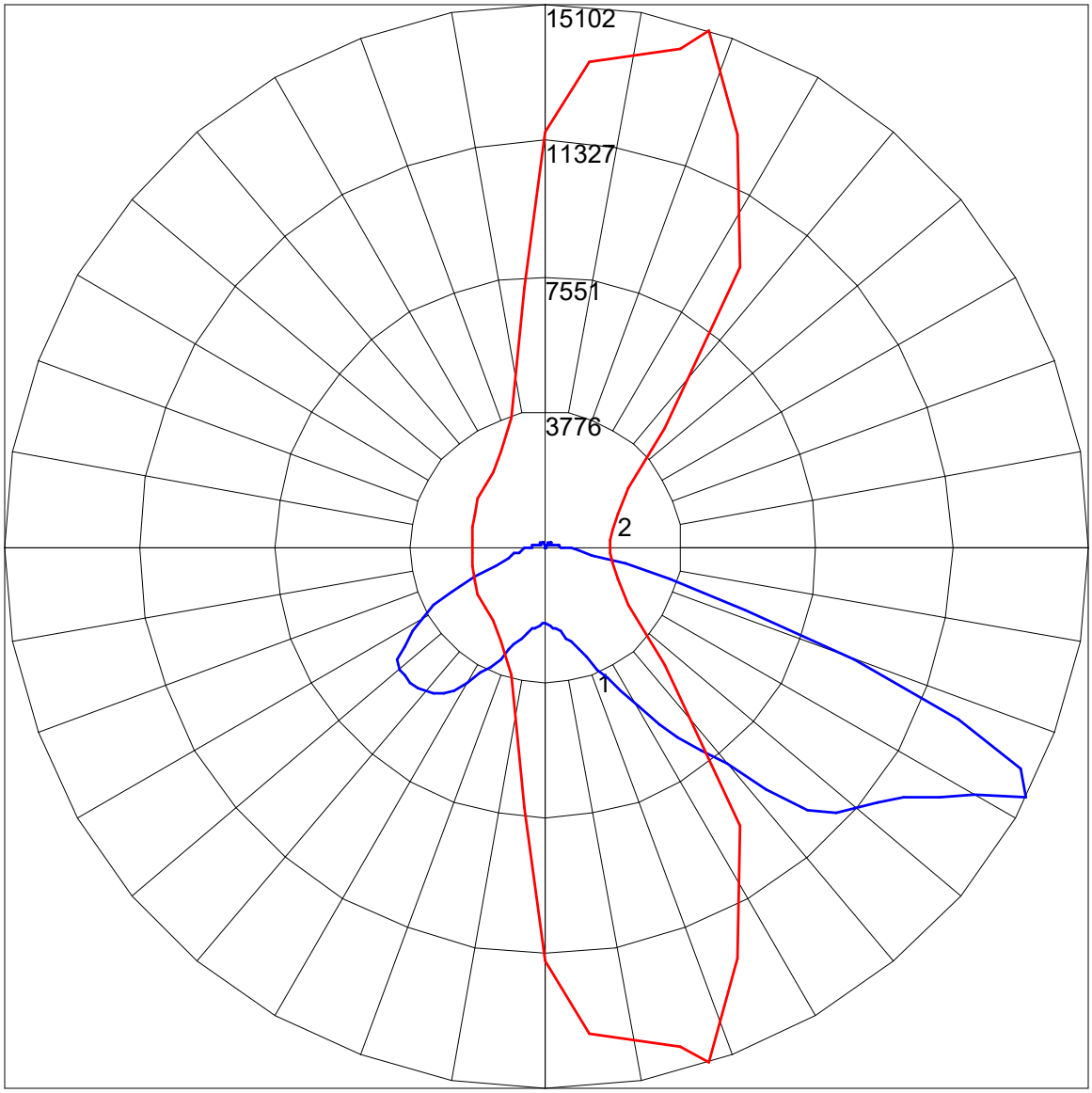
POLAR GRAPH



Maximum Candela = 15102 Located At Horizontal Angle = 72.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (72.5 - 252.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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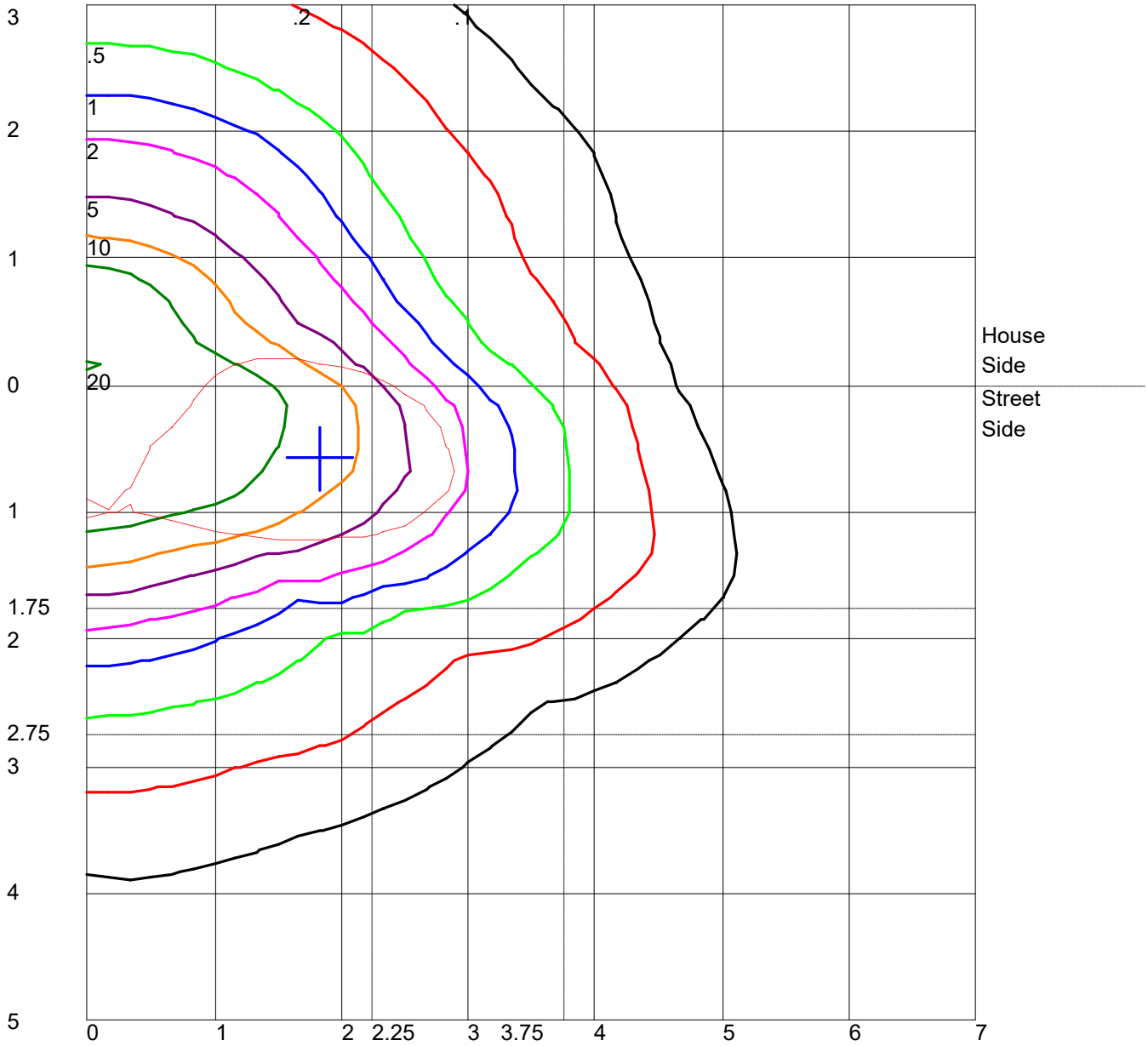
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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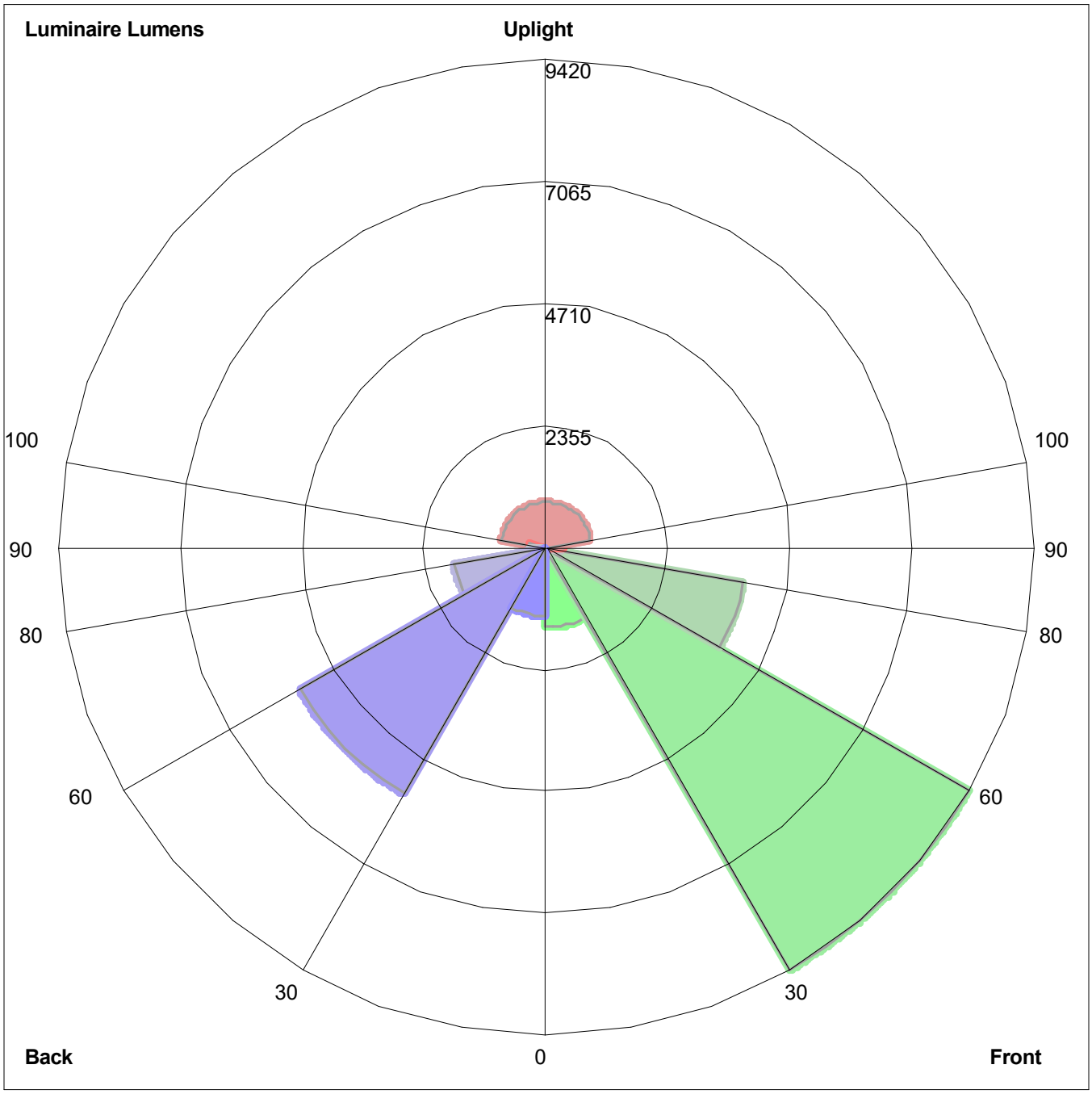
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1548.3, Medium=9420.2, High=3868.1, Very High=269.9
Back: Low= 1326.0, Medium=5497.4, High=1808.3, Very High=303.3
Uplight: Low=338.9, High=869.5

BUG Rating : B4-U4-G3

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