IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-40-70CRI.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-2-40-70CRI
[_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] 4000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26299
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	191.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	15730
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	15730
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	421 (1.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1384 (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)	1612.7	N.A.	6.1
FM - Front-Medium (30-60)	9811.7	N.A.	37.3
FH - Front-High (60-80)	4028.8	N.A.	15.3
FVH - Front-Very High (80-90)	281.1	N.A.	1.1
BL - Back-Low (0-30)	1381.1	N.A.	5.3
BM - Back-Medium (30-60)	5725.8	N.A.	21.8
BH - Back-High (60-80)	1883.4	N.A.	7.2
BVH - Back-Very High (80-90)	315.8	N.A.	1.2
UL - Uplight-Low (90-100)	353.0	N.A.	1.3
UH - Uplight-High (100-180)	905.5	N.A.	3.4
Total	26298.9	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	2249	2249	2249	2249	2249	2249	2249	2249	2249	2249
2.5	2292	2287	2310	2344	2344	2335	2317	2266	2255	2254
5.0	2359	2348	2384	2428	2436	2422	2393	2358	2342	2353
7.5	2433	2421	2357	2382	2354	2359	2445	2451	2406	2392
10.0	2494	2503	2512	2518	2542	2472	2418	2507	2477	2482
12.5	2724	2770	2726	2698	2669	2604	2650	2554	2729	2734
15.0	2850	2845	2869	2858	2938	2825	2818	2881	2836	2943
17.5	3214	3199	3237	3067	3117	3259	3074	3184	3093	3182
20.0	3457	3455	3492	3446	3550	3427	3554	3517	3432	3431
22.5	4023	3988	4064	3954	3939	3869	3892	3839	3858	3836
25.0	4756	4727	4612	4503	4535	4318	4299	4356	4215	4212
27.5	5888	5916	5782	5550	5161	5025	4882	4822	4715	4697
30.0	7052	7101	6992	6607	6328	5744	5598	5430	5334	5352
32.5	7374	7408	7516	7735	7437	6847	6630	6190	6084	5922
35.0	7108	7060	7196	7677	8263	7910	7677	7038	6735	6564
37.5	7331	7266	7260	7481	8026	8535	8636	8224	7426	7197
40.0	7790	7696	7658	7745	8112	8590	8859	9608	8234	8034
42.5	8136	7967	7930	8010	8404	8908	9139	10011	9518	9048
45.0	8051	7934	7919	8096	8612	9350	9745	9852	10791	10480
47.5	7690	7635	7627	7958	8623	9767	10213	9989	11414	11414
50.0	7251	7189	7168	7563	8426	10062	10824	10499	11750	11820
52.5	6468	6415	6434	6835	7940	10085	11412	11529	12136	12342
55.0	5418	5393	5510	5871	7056	9671	11760	12475	12685	12950
57.5	4339	4325	4403	4811	5900	8635	11685	13098	13564	13762
60.0	3038	3076	3191	3535	4436	7049	11164	13506	14331	14357
62.5	1878	1902	1982	2264	2938	4834	9893	13223	15730	15006
65.0	1532	1531	1549	1607	1840	2731	7811	12298	15245	15489
67.5	1336	1335	1332	1388	1459	1569	5071	10259	13007	13509
70.0	989	1003	1065	1169	1281	1295	2580	7384	9510	10283
72.5	791	807	801	826	1053	1129	1396	4236	6056	6498
75.0	672	702	703	713	818	948	1070	2399	3708	3971
77.5	554	608	616	622	708	803	903	1597	2339	2318
80.0	495	547	555	544	611	701	762	1075	1384	1375
82.5	440	466	489	477	528	598	661	808	971	973
85.0	350	376	410	408	446	508	554	615	700	730
87.5	212	244	313	332	359	401	435	461	486	489
90.0	139	173	252	284	310	339	352	375	391	397
92.5	158	176	256	288	314	342	347	373	388	394
95.0	183	182	260	294	318	344	341	373	386	389
97.5	206	189	261	296	319	340	329	365	368	349
100.0	219	195	259	297	318	335	320	345	323	294
102.5	228	203	256	298	316	329	311	315	270	247
105.0	233	212	250	298	315	323	296	280	229	222
107.5	236	220	244	297	312	312	273	244	204	206
110.0	237	226	236	294	307	297	247	212	189	195
112.5	236	230	230	290	299	275	225	188	178	185
115.0	234	231	225	282	285	252	206	171	170	176
117.5	233	231	222	270	267	233	192	160	165	168
120.0	231	229	217	252	248	218	182	154	159	161
122.5	228	226	210	232	232	207	175	150	153	153
125.0	222	220	201	213	218	198	171	150	149	148
127.5	213	211	194	197	206	192	171	151	148	148
130.0	202	200	189	185	197	189	172	153	150	150

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CANDELA TABULATION - (Cont.)

132.5	194	193	185	178	191	185	166	153	154	154
135.0	190	189	184	177	181	169	153	154	157	157
137.5	189	189	182	166	155	143	136	143	153	156
140.0	168	167	158	141	123	110	113	122	133	136
142.5	139	138	128	112	88	82	87	97	109	112
145.0	109	107	98	78	61	58	62	72	83	86
147.5	76	73	65	54	42	30	36	48	55	58
150.0	53	51	46	36	18	9	13	26	32	33
152.5	31	32	23	12	4	1	3	7	11	13
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	2249	2249	2249	2249	2249	2249	2249	2249	2249	2249
2.5	2237	2223	2224	2235	2223	2245	2261	2250	2255	2274
5.0	2246	2217	2222	2310	2327	2317	2350	2318	2300	2288
7.5	2327	2269	2284	2363	2377	2316	2244	2146	2157	2181
10.0	2422	2365	2363	2424	2395	2247	2283	2240	2224	2165
12.5	2657	2550	2606	2639	2410	2353	2266	2231	2211	2340
15.0	2900	2746	2804	2801	2612	2529	2353	2435	2405	2473
17.5	3174	3040	3151	3054	2803	2609	2649	2545	2581	2849
20.0	3456	3400	3438	3249	3056	2838	2693	2895	2985	3152
22.5	3992	3841	3848	3604	3256	3023	3036	3244	3400	3748
25.0	4347	4357	4205	3914	3535	3227	3359	3675	3887	4143
27.5	4991	4835	4793	4248	3704	3578	3798	4122	4368	4683
30.0	5451	5374	5303	4722	4048	4003	4215	4495	4760	5154
32.5	5894	5790	5760	5177	4344	4396	4499	4902	5316	5613
35.0	6459	6255	6188	5401	4570	4646	4845	5316	5510	5752
37.5	7017	6818	6701	5566	4777	4841	5158	5439	5608	5781
40.0	7687	7427	7185	5635	4975	4919	5299	5468	5603	5692
42.5	8312	8079	7552	5715	5049	5037	5286	5397	5411	5365
45.0	9020	8399	8120	5824	4855	5197	5166	5161	4966	4811
47.5	9871	9158	8474	5733	4869	5066	4924	4762	4424	4243
50.0	10647	10009	8741	5796	4785	4806	4585	4296	3914	3721
52.5	11680	10831	9135	5693	4601	4460	4175	3863	3474	3349
55.0	12654	11432	9389	5217	4318	4013	3747	3438	3153	3095
57.5	13380	12292	9117	4795	3991	3595	3301	3101	2896	2859
60.0	14042	12375	8580	4373	3528	3102	2904	2794	2626	2566
62.5	14162	12044	7584	3888	3027	2622	2529	2469	2314	2235
65.0	13441	10572	6056	3236	2378	2155	2174	2135	1979	1878
67.5	11186	7773	4230	2359	1851	1698	1783	1756	1598	1546
70.0	7718	4937	2687	1591	1391	1340	1402	1339	1262	1242
72.5	4874	3153	1803	1178	1140	1076	1105	1053	1008	974
75.0	3158	2224	1385	1007	1031	925	906	857	824	832
77.5	1494	1154	1019	912	938	799	765	733	733	731

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CANDELA TABULATION - (Cont.)

80.0	905	834	794	829	833	685	659	651	685	706
82.5	674	639	629	737	700	588	582	606	709	769
85.0	543	410	509	636	573	515	528	576	714	809
87.5	449	219	448	510	474	441	454	517	587	596
90.0	333	154	378	421	406	381	386	364	339	310
92.5	263	268	323	420	404	377	384	365	343	313
95.0	257	350	296	416	401	367	380	363	345	315
97.5	280	365	308	388	386	349	371	356	342	311
100.0	299	349	313	334	368	335	362	351	339	303
102.5	293	324	302	293	342	324	353	347	337	295
105.0	276	296	283	260	310	313	344	342	333	285
107.5	253	267	261	237	279	296	333	337	329	273
110.0	230	240	238	221	247	275	319	330	321	260
112.5	210	218	216	205	219	255	301	321	312	248
115.0	193	200	198	192	199	238	281	309	302	237
117.5	179	185	184	183	184	224	264	293	287	227
120.0	168	173	173	175	176	213	249	275	268	219
122.5	159	162	163	167	172	203	236	258	247	212
125.0	151	153	155	162	171	198	226	243	226	205
127.5	148	150	153	160	171	196	217	227	207	198
130.0	149	150	154	161	172	196	212	213	193	193
132.5	152	153	156	165	171	190	207	203	183	188
135.0	158	158	161	168	169	174	190	194	180	186
137.5	162	164	165	164	158	154	161	166	173	186
140.0	150	153	152	146	136	129	125	133	149	167
142.5	125	129	128	120	109	100	92	100	118	136
145.0	98	99	100	93	82	72	66	68	88	105
147.5	64	66	68	64	56	45	42	49	60	74
150.0	37	38	39	39	32	21	17	29	43	51
152.5	17	18	19	18	13	8	7	11	21	33
155.0	5	5	6	6	5	5	5	6	9	13
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	2249	2249
2.5	2262	2281
5.0	2242	2222
7.5	2141	2163
10.0	2162	2110
12.5	2324	2341
15.0	2473	2389
17.5	2855	2912
20.0	3271	3141
22.5	3796	3791
25.0	4309	4324

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CANDELA TABULATION - (Cont.)

27.5	4840	4907
30.0	5479	5461
32.5	5772	5774
35.0	5911	5954
37.5	5948	6060
40.0	5852	5985
42.5	5434	5533
45.0	4793	4873
47.5	4225	4272
50.0	3718	3754
52.5	3337	3365
55.0	3079	3096
57.5	2825	2837
60.0	2497	2523
62.5	2148	2134
65.0	1758	1751
67.5	1465	1450
70.0	1194	1172
72.5	920	888
75.0	781	740
77.5	658	608
80.0	639	577
82.5	743	677
85.0	808	752
87.5	413	411
90.0	202	144
92.5	204	160
95.0	210	187
97.5	215	213
100.0	219	233
102.5	224	247
105.0	228	254
107.5	233	257
110.0	237	257
112.5	240	255
115.0	241	250
117.5	240	244
120.0	236	239
122.5	230	233
125.0	223	226
127.5	215	217
130.0	206	208
132.5	197	199
135.0	192	193
137.5	190	191
140.0	175	176
142.5	146	147
145.0	114	115
147.5	83	84
150.0	56	56
152.5	39	40
155.0	16	15
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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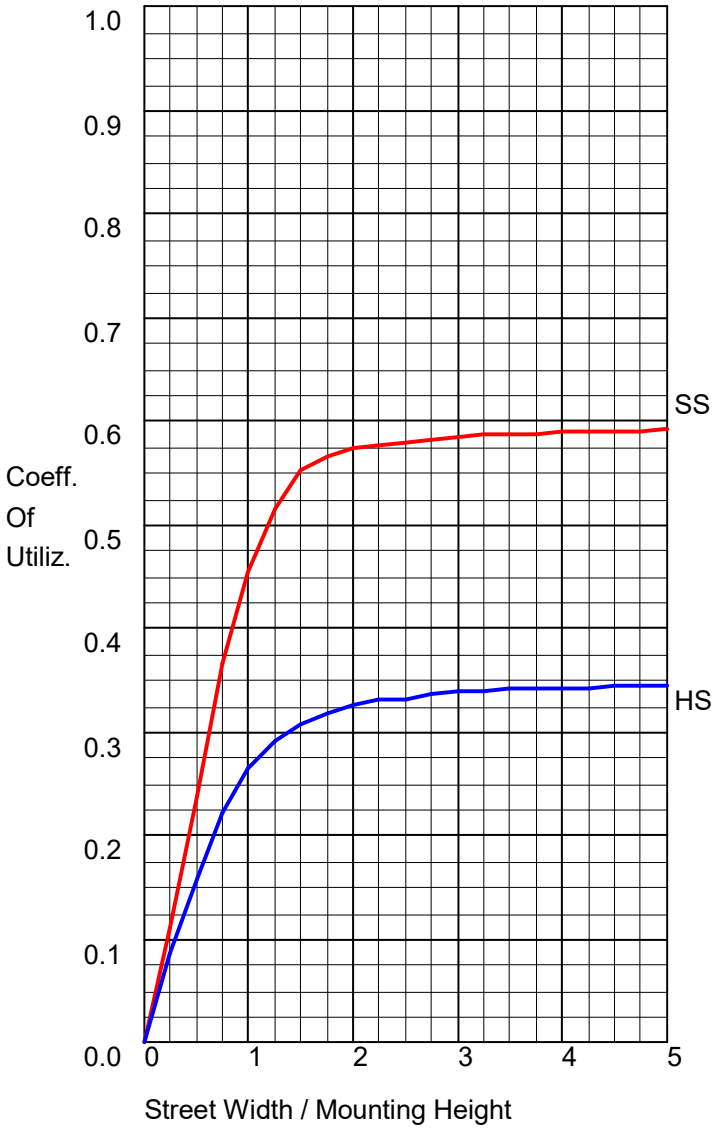
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15734.3	59.8
Downward House Side	9306.2	35.4
Downward Total	25040.5	95.2
Upward Street Side	600.4	2.3
Upward House Side	658.0	2.5
Upward Total	1258.4	4.8
Total Flux	26298.9	100.0

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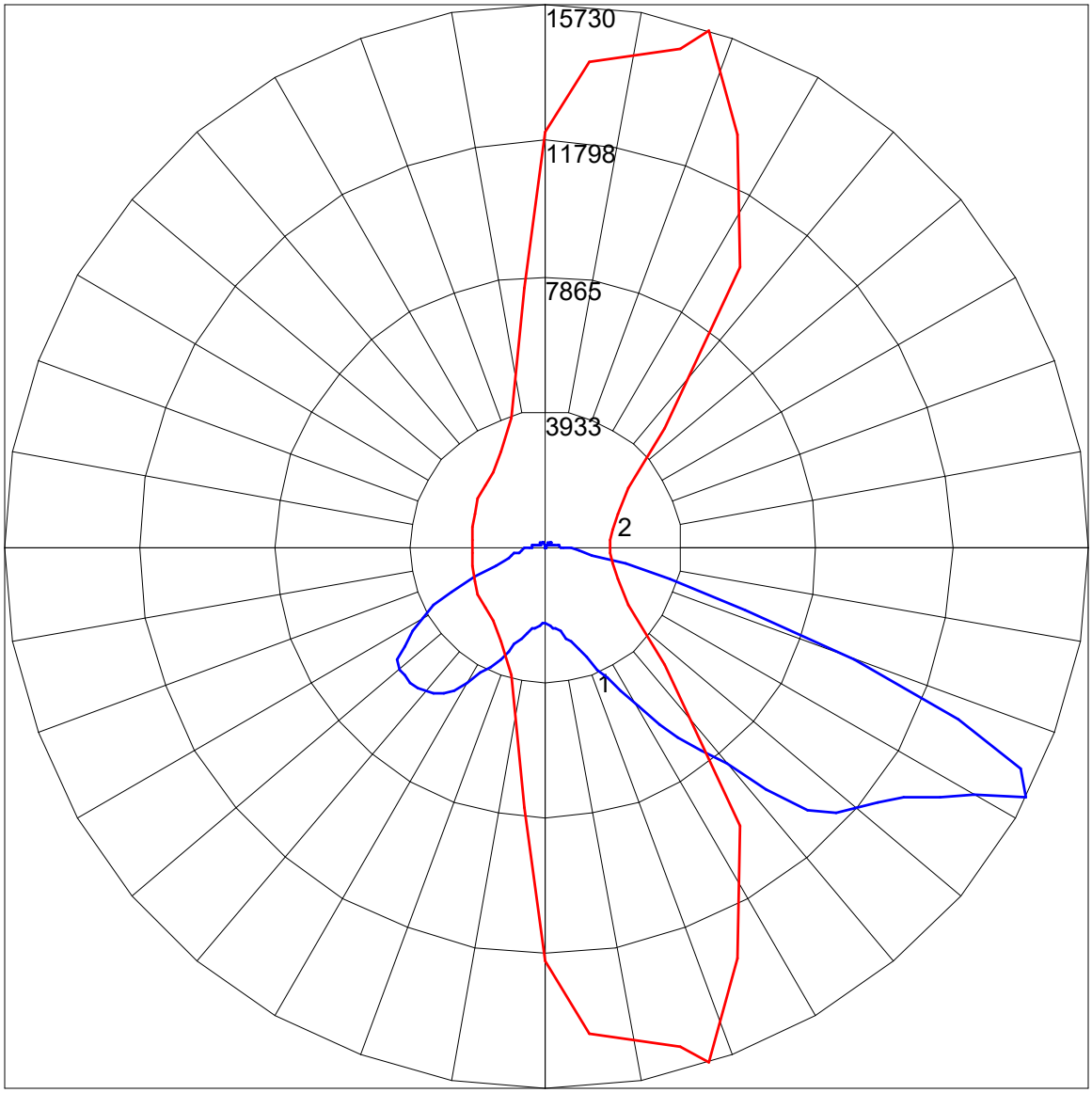
POLAR GRAPH



Maximum Candela = 15730 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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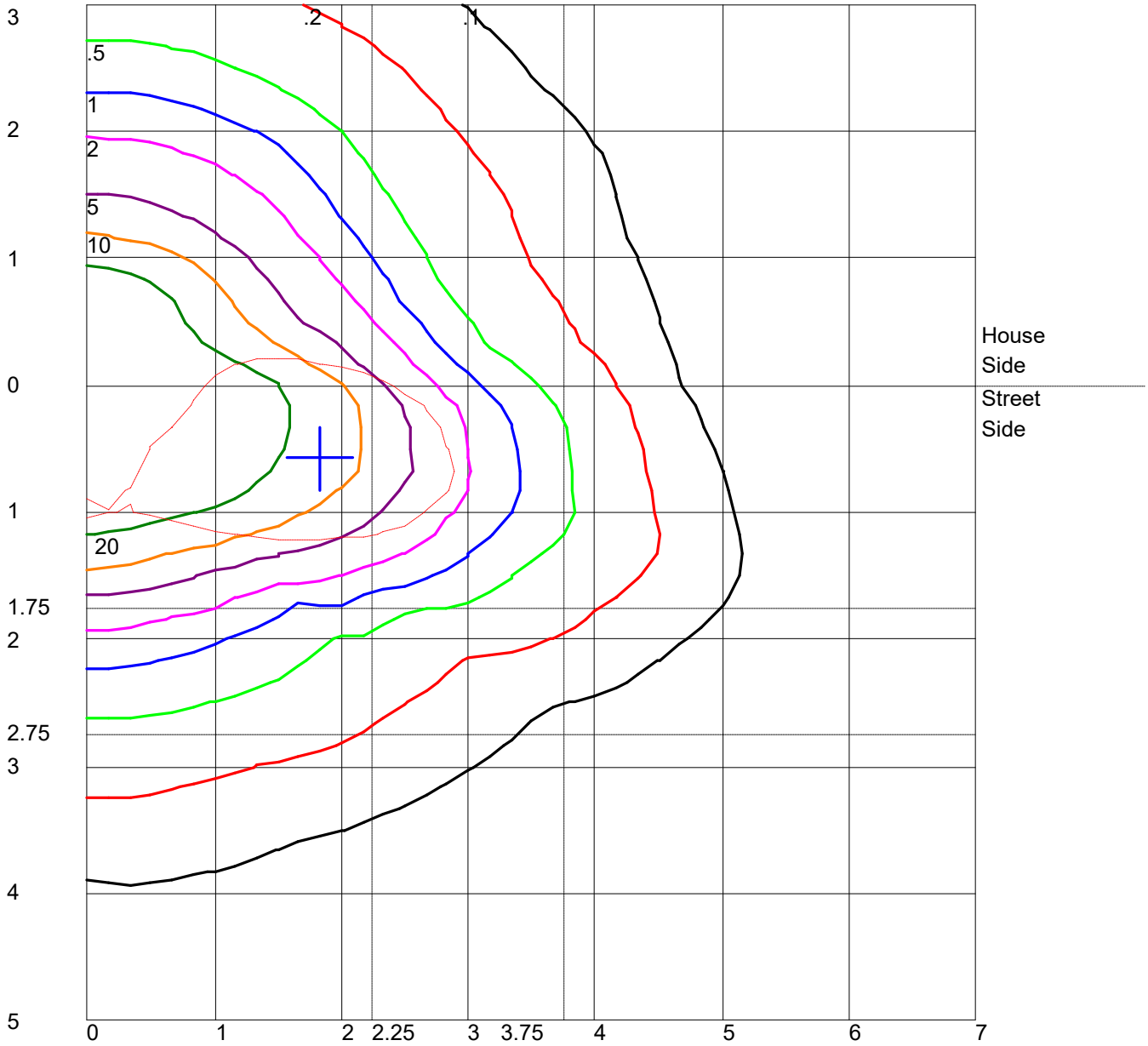
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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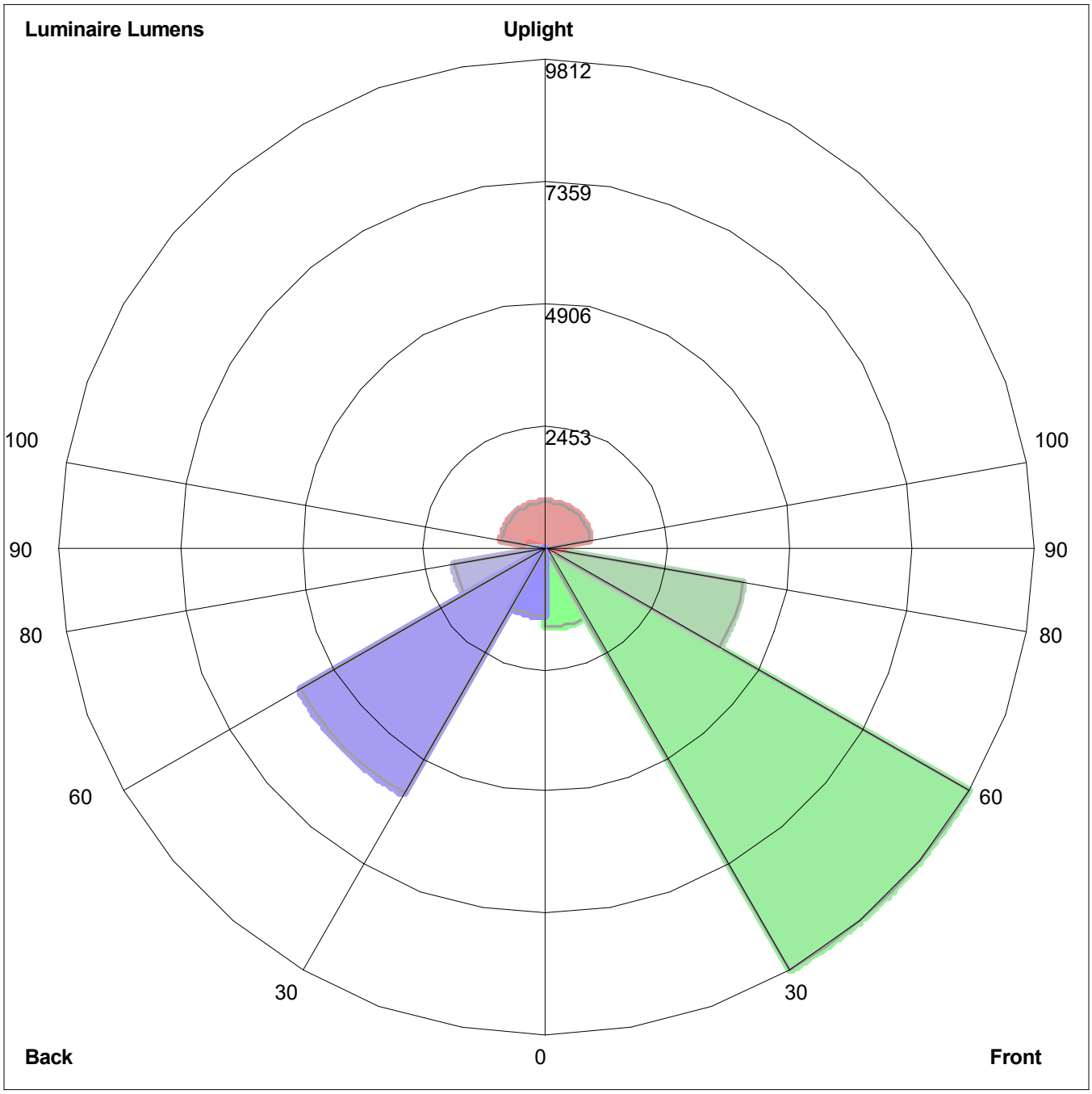
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1612.7, Medium=9811.7, High=4028.8, Very High=281.1
Back: Low=1381.1, Medium=5725.8, High=1883.4, Very High=315.8
Uplight: Low=353.0, High=905.5

BUG Rating : B4-U4-G3

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