IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-50-70CRI.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-2-50-70CRI
[_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] 5000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25876
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	191.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	15477
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	15477
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	414 (1.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1362 (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)	1586.7	N.A.	6.1
FM - Front-Medium (30-60)	9653.7	N.A.	37.3
FH - Front-High (60-80)	3964.0	N.A.	15.3
FVH - Front-Very High (80-90)	276.5	N.A.	1.1
BL - Back-Low (0-30)	1358.9	N.A.	5.3
BM - Back-Medium (30-60)	5633.6	N.A.	21.8
BH - Back-High (60-80)	1853.0	N.A.	7.2
BVH - Back-Very High (80-90)	310.8	N.A.	1.2
UL - Uplight-Low (90-100)	347.3	N.A.	1.3
UH - Uplight-High (100-180)	890.9	N.A.	3.4
Total	25875.4	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	2213	2213	2213	2213	2213	2213	2213	2213	2213	2213
2.5	2255	2250	2273	2306	2306	2297	2280	2230	2219	2218
5.0	2321	2310	2346	2389	2397	2383	2354	2320	2304	2315
7.5	2394	2382	2319	2344	2316	2321	2406	2412	2367	2353
10.0	2454	2463	2472	2477	2501	2432	2379	2467	2437	2442
12.5	2680	2725	2682	2655	2626	2562	2607	2513	2685	2690
15.0	2804	2799	2823	2812	2891	2780	2773	2835	2790	2896
17.5	3162	3147	3185	3018	3067	3207	3025	3133	3043	3131
20.0	3401	3399	3436	3391	3493	3372	3497	3460	3377	3376
22.5	3958	3924	3999	3890	3876	3807	3829	3777	3796	3774
25.0	4679	4651	4538	4431	4462	4248	4230	4286	4147	4144
27.5	5793	5821	5689	5461	5078	4944	4803	4744	4639	4621
30.0	6938	6987	6879	6501	6226	5652	5508	5343	5248	5266
32.5	7255	7289	7395	7610	7317	6737	6523	6090	5986	5827
35.0	6994	6946	7080	7553	8130	7783	7553	6925	6627	6458
37.5	7213	7149	7143	7361	7897	8398	8497	8092	7306	7081
40.0	7665	7572	7535	7620	7981	8452	8716	9453	8101	7905
42.5	8005	7839	7802	7881	8269	8765	8992	9850	9365	8902
45.0	7921	7806	7792	7966	8473	9199	9588	9693	10617	10311
47.5	7566	7512	7504	7830	8484	9610	10049	9828	11230	11230
50.0	7134	7073	7053	7441	8290	9900	10650	10330	11561	11630
52.5	6364	6312	6330	6725	7812	9923	11228	11343	11941	12143
55.0	5331	5306	5421	5776	6942	9515	11571	12274	12481	12742
57.5	4269	4255	4332	4734	5805	8496	11497	12887	13346	13540
60.0	2989	3026	3140	3478	4365	6936	10984	13289	14100	14126
62.5	1848	1871	1950	2228	2891	4756	9734	13010	15477	14764
65.0	1507	1506	1524	1581	1810	2687	7685	12100	15000	15240
67.5	1314	1314	1311	1366	1436	1544	4989	10094	12798	13292
70.0	973	987	1048	1150	1260	1274	2538	7265	9357	10117
72.5	778	794	788	813	1036	1111	1374	4168	5958	6393
75.0	661	691	692	702	805	933	1053	2360	3648	3907
77.5	545	598	606	612	697	790	888	1571	2301	2281
80.0	487	538	546	535	601	690	750	1058	1362	1353
82.5	433	458	481	469	519	588	650	795	955	957
85.0	344	370	403	401	439	500	545	605	689	718
87.5	209	240	308	327	353	395	428	454	478	481
90.0	137	170	248	279	305	334	346	369	385	391
92.5	155	173	252	283	309	336	341	367	382	388
95.0	180	179	256	289	313	338	336	367	380	383
97.5	203	186	257	291	314	335	324	359	362	343
100.0	215	192	255	292	313	330	315	339	318	289
102.5	224	200	252	293	311	324	306	310	266	243
105.0	229	209	246	293	310	318	291	275	225	218
107.5	232	216	240	292	307	307	269	240	201	203
110.0	233	222	232	289	302	292	243	209	186	192
112.5	232	226	226	285	294	271	221	185	175	182
115.0	230	227	221	277	280	248	203	168	167	173
117.5	229	227	218	266	263	229	189	157	162	165
120.0	227	225	214	248	244	214	179	152	156	158
122.5	224	222	207	228	228	204	172	148	151	151
125.0	218	216	198	210	214	195	168	148	147	146
127.5	210	208	191	194	203	189	168	149	146	146
130.0	199	197	186	182	194	186	169	151	148	148

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CANDELA TABULATION - (Cont.)

132.5	191	190	182	175	188	182	163	151	152	152
135.0	187	186	181	174	178	166	151	152	154	154
137.5	186	186	179	163	153	141	134	141	151	153
140.0	165	164	155	139	121	108	111	120	131	134
142.5	137	136	126	110	87	81	86	95	107	110
145.0	107	105	96	77	60	57	61	71	82	85
147.5	75	72	64	53	41	30	35	47	54	57
150.0	52	50	45	35	18	9	13	26	31	32
152.5	31	31	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	2213	2213	2213	2213	2213	2213	2213	2213	2213	2213
2.5	2201	2187	2188	2199	2187	2209	2225	2214	2219	2237
5.0	2210	2181	2186	2273	2290	2280	2312	2281	2263	2251
7.5	2290	2232	2247	2325	2339	2279	2208	2111	2122	2146
10.0	2383	2327	2325	2385	2356	2211	2246	2204	2188	2130
12.5	2614	2509	2564	2597	2371	2315	2230	2195	2175	2302
15.0	2853	2702	2759	2756	2570	2488	2315	2396	2366	2433
17.5	3123	2991	3100	3005	2758	2567	2606	2504	2539	2803
20.0	3400	3345	3383	3197	3007	2792	2650	2848	2937	3101
22.5	3928	3779	3786	3546	3204	2974	2987	3192	3345	3688
25.0	4277	4287	4137	3851	3478	3175	3305	3616	3824	4076
27.5	4911	4757	4716	4180	3644	3520	3737	4056	4298	4608
30.0	5363	5287	5218	4646	3983	3939	4147	4423	4683	5071
32.5	5799	5697	5667	5094	4274	4325	4427	4823	5230	5523
35.0	6355	6154	6088	5314	4496	4571	4767	5230	5421	5659
37.5	6904	6708	6593	5476	4700	4763	5075	5351	5518	5688
40.0	7563	7307	7069	5544	4895	4840	5214	5380	5513	5600
42.5	8178	7949	7430	5623	4968	4956	5201	5310	5324	5279
45.0	8875	8264	7989	5730	4777	5113	5083	5078	4886	4734
47.5	9712	9011	8338	5641	4791	4984	4845	4685	4353	4175
50.0	10476	9848	8600	5703	4708	4729	4511	4227	3851	3661
52.5	11492	10657	8988	5601	4527	4388	4108	3801	3418	3295
55.0	12450	11248	9238	5133	4248	3948	3687	3383	3102	3045
57.5	13165	12094	8970	4718	3927	3537	3248	3051	2849	2813
60.0	13816	12176	8442	4303	3471	3052	2857	2749	2584	2525
62.5	13934	11850	7462	3825	2978	2580	2488	2429	2277	2199
65.0	13225	10402	5958	3184	2340	2120	2139	2101	1947	1848
67.5	11006	7648	4162	2321	1821	1671	1754	1728	1572	1521
70.0	7594	4858	2644	1565	1369	1318	1379	1317	1242	1222
72.5	4796	3102	1774	1159	1122	1059	1087	1036	992	958
75.0	3107	2188	1363	991	1014	910	891	843	811	819
77.5	1470	1135	1003	897	923	786	753	721	721	719

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CANDELA TABULATION - (Cont.)

80.0	890	821	781	816	820	674	648	641	674	695
82.5	663	629	619	725	689	579	573	596	698	757
85.0	534	403	501	626	564	507	519	567	703	796
87.5	442	215	441	502	466	434	447	509	578	586
90.0	328	152	372	414	399	375	380	358	334	305
92.5	259	264	318	413	397	371	378	359	337	308
95.0	253	344	291	409	395	361	374	357	339	310
97.5	275	359	303	382	380	343	365	350	336	306
100.0	294	343	308	329	362	330	356	345	334	298
102.5	288	319	297	288	336	319	347	341	332	290
105.0	272	291	278	256	305	308	338	336	328	280
107.5	249	263	257	233	275	291	328	332	324	269
110.0	226	236	234	217	243	271	314	325	316	256
112.5	207	214	213	202	215	251	296	316	307	244
115.0	190	197	195	189	196	234	276	304	297	233
117.5	176	182	181	180	181	220	260	288	282	223
120.0	165	170	170	172	173	210	245	271	264	215
122.5	156	159	160	164	169	200	232	254	243	209
125.0	149	151	153	159	168	195	222	239	222	202
127.5	146	148	151	157	168	193	214	223	204	195
130.0	147	148	152	158	169	193	209	210	190	190
132.5	150	151	153	162	168	187	204	200	180	185
135.0	155	155	158	165	166	171	187	191	177	183
137.5	159	161	162	161	155	152	158	163	170	183
140.0	148	151	150	144	134	127	123	131	147	164
142.5	123	127	126	118	107	98	91	98	116	134
145.0	96	97	98	92	81	71	65	67	87	103
147.5	63	65	67	63	55	44	41	48	59	73
150.0	36	37	38	38	31	21	17	29	42	50
152.5	17	18	19	18	13	8	7	11	21	32
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	2213	2213
2.5	2226	2244
5.0	2206	2186
7.5	2107	2128
10.0	2127	2076
12.5	2287	2303
15.0	2433	2351
17.5	2809	2865
20.0	3218	3090
22.5	3735	3730
25.0	4240	4254

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CANDELA TABULATION - (Cont.)

27.5	4762	4828
30.0	5391	5373
32.5	5679	5681
35.0	5816	5858
37.5	5852	5962
40.0	5758	5889
42.5	5347	5444
45.0	4716	4795
47.5	4157	4203
50.0	3658	3694
52.5	3283	3311
55.0	3029	3046
57.5	2780	2791
60.0	2457	2482
62.5	2113	2100
65.0	1730	1723
67.5	1441	1427
70.0	1175	1153
72.5	905	874
75.0	768	728
77.5	647	598
80.0	629	568
82.5	731	666
85.0	795	740
87.5	406	404
90.0	199	142
92.5	201	157
95.0	207	184
97.5	212	210
100.0	215	229
102.5	220	243
105.0	224	250
107.5	229	253
110.0	233	253
112.5	236	251
115.0	237	246
117.5	236	240
120.0	232	235
122.5	226	229
125.0	219	222
127.5	212	214
130.0	203	205
132.5	194	196
135.0	189	190
137.5	187	188
140.0	172	173
142.5	144	145
145.0	112	113
147.5	82	83
150.0	55	55
152.5	38	39
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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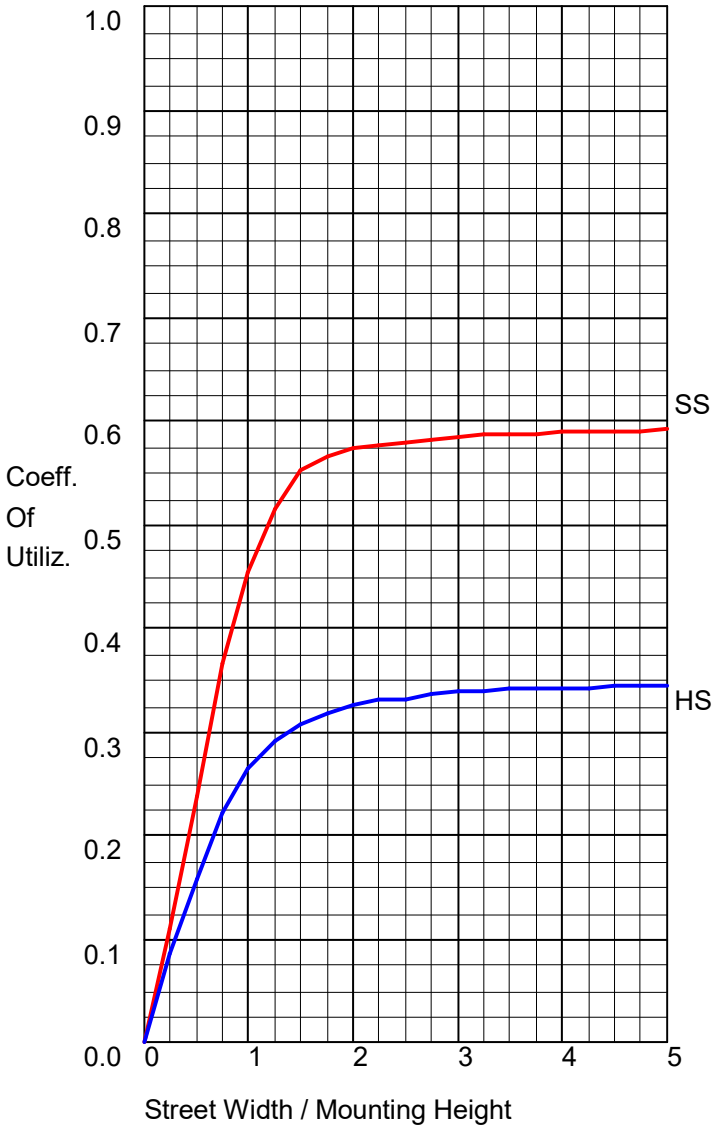
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15481.0	59.8
Downward House Side	9156.4	35.4
Downward Total	24637.4	95.2
Upward Street Side	590.8	2.3
Upward House Side	647.4	2.5
Upward Total	1238.2	4.8
Total Flux	25875.6	100.0

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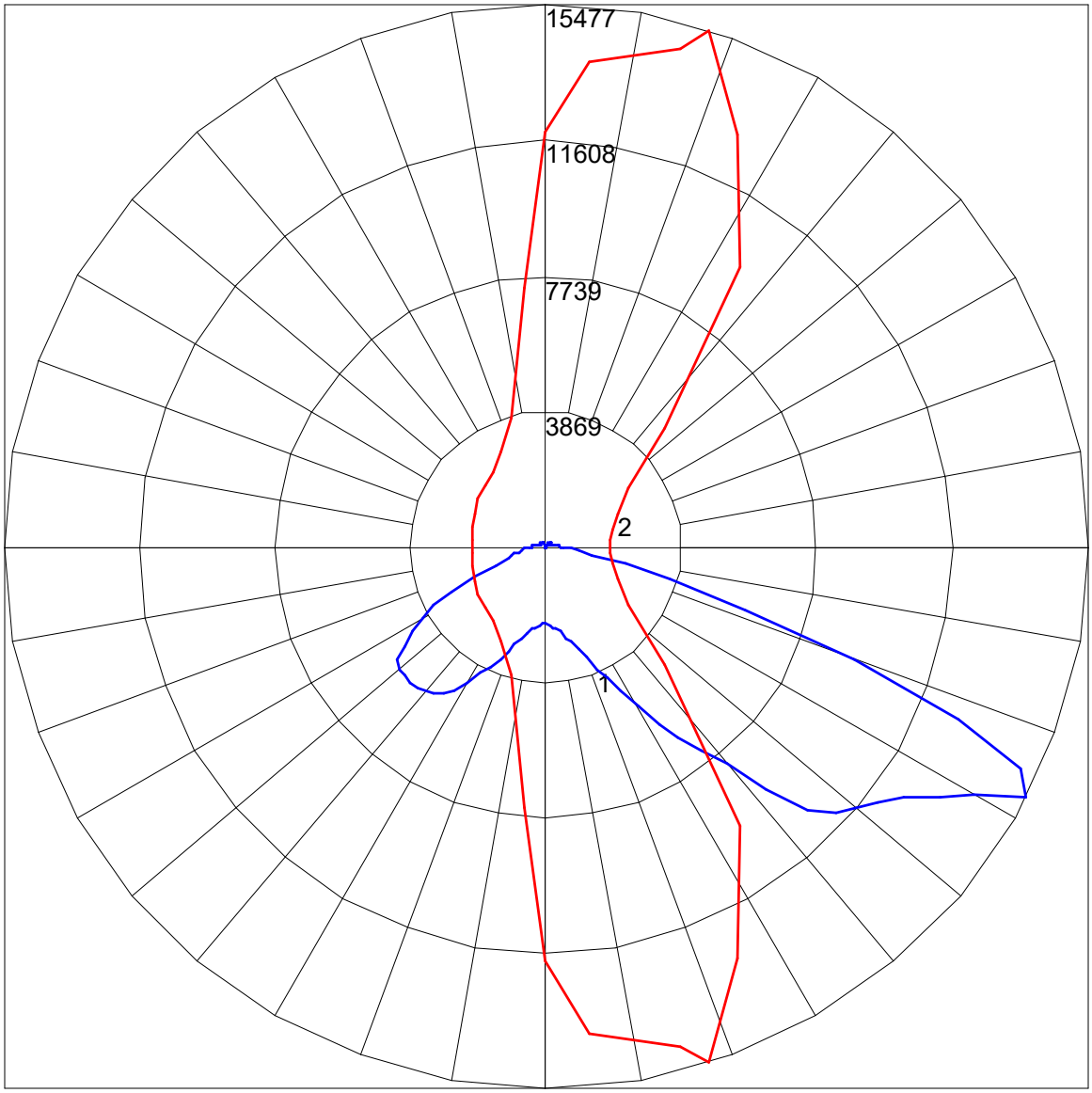
POLAR GRAPH



Maximum Candela = 15477 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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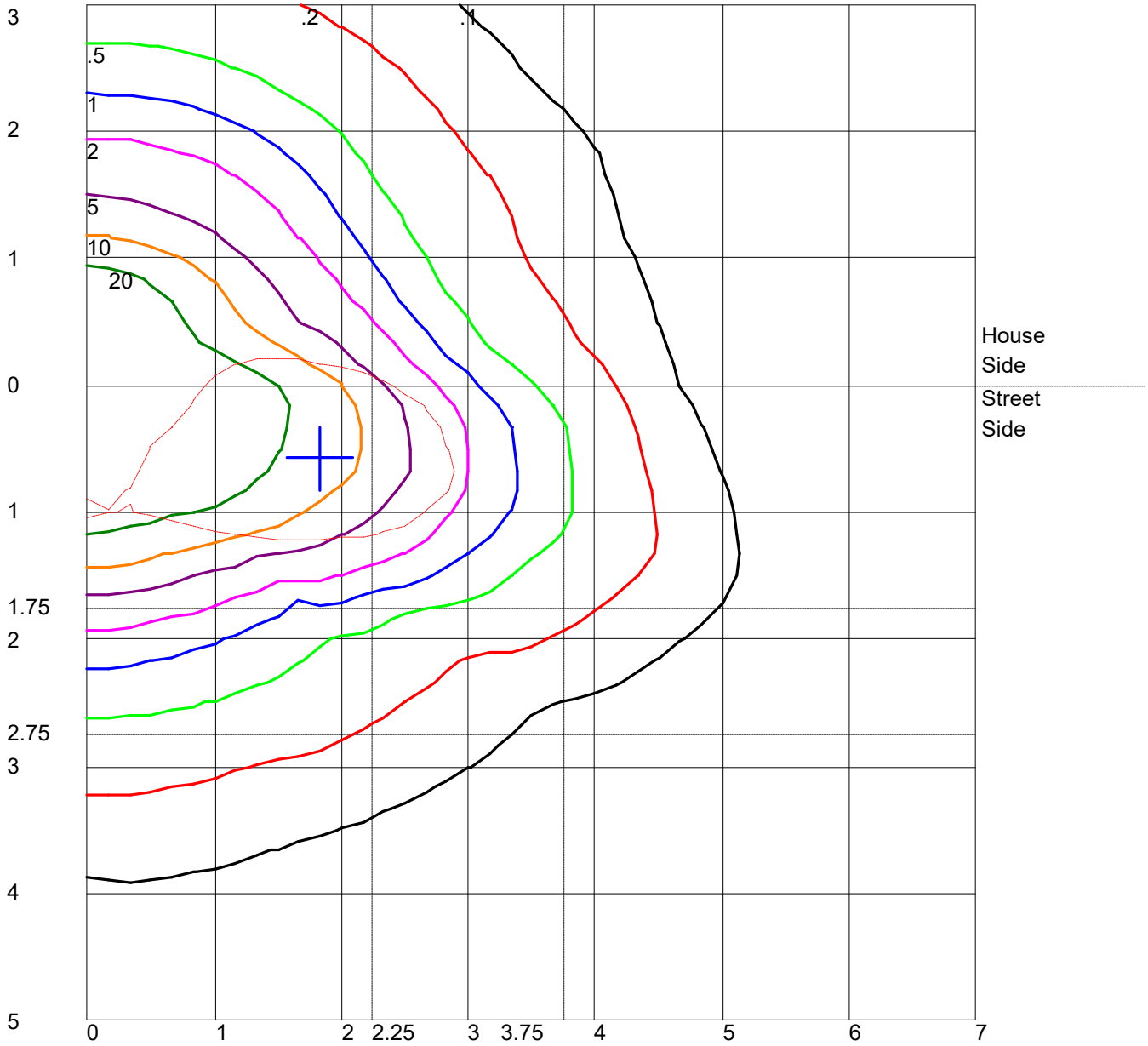
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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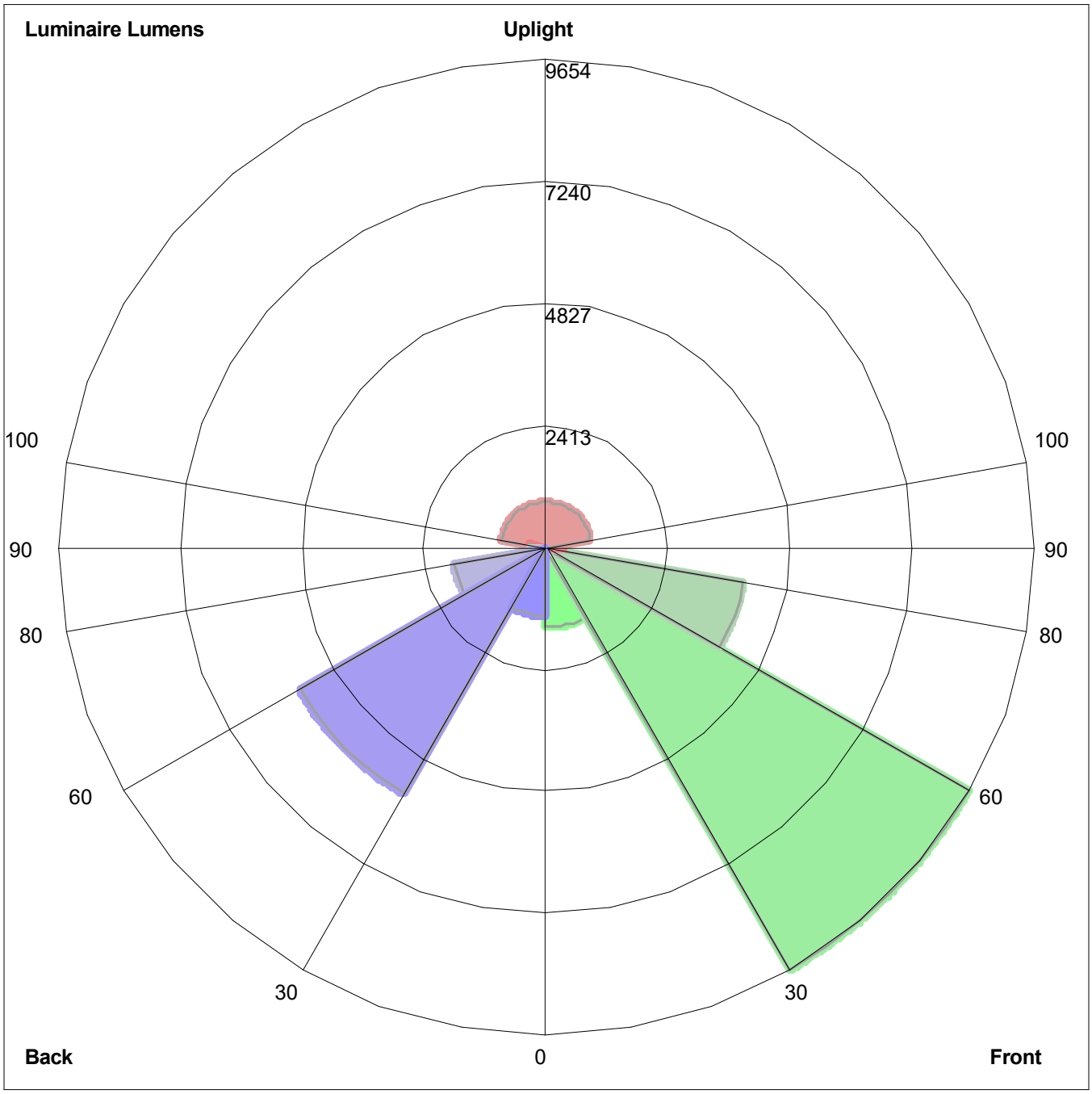
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1586.7, Medium=9653.7, High= 3964.0, Very High=276.5
Back: Low=1358.9, Medium=5633.6, High= 1853.0, Very High=310.8
Uplight: Low=347.3, High=890.9

BUG Rating : B4-U4-G3

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