IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-2-50-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12637
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-2-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17848
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	13900
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	13900
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	305 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1179 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1372.7	N.A.	7.7
FM - Front-Medium (30-60)	9251.7	N.A.	51.8
FH - Front-High (60-80)	3492.5	N.A.	19.6
FVH - Front-Very High (80-90)	161.2	N.A.	0.9
BL - Back-Low (0-30)	652.4	N.A.	3.7
BM - Back-Medium (30-60)	1378.3	N.A.	7.7
BH - Back-High (60-80)	515.9	N.A.	2.9
BVH - Back-Very High (80-90)	140.4	N.A.	0.8
UL - Uplight-Low (90-100)	252.1	N.A.	1.4
UH - Uplight-High (100-180)	630.8	N.A.	3.5
Total	17848.0	N.A.	100.0
BUG Rating	B2-U4-G2		

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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	1889	1889	1889	1889	1889	1889	1889	1889	1889	1889
2.5	1864	1848	1856	1869	1866	1860	1839	1836	1846	1846
5.0	2012	2001	2040	2008	2013	2008	2026	1985	1873	1852
7.5	1869	1875	1882	1937	1996	2061	2065	2033	2020	1974
10.0	2069	2067	2011	2111	2071	2030	2055	2076	2079	2109
12.5	2210	2220	2148	2139	2210	2163	2106	2220	2320	2341
15.0	2342	2464	2415	2416	2387	2271	2400	2337	2491	2480
17.5	2763	2655	2719	2587	2661	2672	2557	2606	2690	2748
20.0	2991	3011	3063	2939	2904	2876	2957	2936	2925	2962
22.5	3565	3591	3580	3345	3429	3216	3298	3303	3248	3241
25.0	4030	4058	4050	3952	3786	3780	3717	3711	3661	3682
27.5	5149	5098	4961	4537	4498	4280	4283	4247	4216	4162
30.0	6051	6151	5898	5561	5248	5170	4981	4838	4807	4818
32.5	6836	6838	6819	6579	6370	5973	5887	5637	5594	5606
35.0	6579	6590	6671	6944	7279	7150	6989	6642	6358	6183
37.5	6676	6562	6536	6692	7346	7866	8102	7669	7103	6867
40.0	7168	6973	6849	6881	7316	8140	8486	8996	7826	7630
42.5	7658	7410	7225	7255	7615	8412	8669	9740	8848	8517
45.0	7812	7600	7414	7510	7959	8774	9291	9905	9866	9854
47.5	7619	7452	7276	7521	8153	9233	9982	9886	10726	10750
50.0	7140	6997	6856	7230	8098	9649	10566	10274	11565	11550
52.5	6344	6222	6107	6678	7751	9778	11029	11133	12149	12249
55.0	5350	5208	5123	5763	7072	9547	11427	12160	12832	12909
57.5	4163	4142	4058	4586	5900	8742	11515	12934	13100	13271
60.0	2978	2977	2980	3369	4365	7256	10899	12983	13219	13479
62.5	1767	1791	1874	2195	2891	5112	9636	12672	13900	13653
65.0	1109	1131	1225	1410	1772	2921	7708	11031	13312	13275
67.5	757	756	789	989	1231	1568	4946	8636	11148	11367
70.0	654	656	672	736	915	1066	2705	6286	8493	8892
72.5	516	512	545	608	745	822	1401	4023	5549	5881
75.0	362	365	397	456	597	692	895	2260	3481	3666
77.5	235	258	296	340	444	570	685	1385	2117	2077
80.0	139	168	214	250	336	447	530	791	1179	1177
82.5	105	133	176	197	237	311	402	488	682	738
85.0	80	109	156	179	205	240	279	342	426	468
87.5	80	106	153	175	198	225	250	275	300	314
90.0	85	105	152	173	195	219	236	255	270	274
92.5	99	110	155	178	200	223	235	256	271	275
95.0	116	116	161	185	207	229	235	261	275	278
97.5	132	121	164	189	209	229	230	257	263	256
100.0	142	127	166	192	211	228	225	244	230	202
102.5	149	134	166	194	211	225	218	218	182	165
105.0	153	140	165	195	211	221	206	191	151	142
107.5	155	146	162	196	210	214	187	166	132	131
110.0	156	150	160	195	207	202	167	142	120	125
112.5	157	153	158	193	201	184	151	122	113	119
115.0	158	156	157	189	190	167	137	110	109	113
117.5	159	158	155	181	177	153	126	102	106	109
120.0	160	158	153	170	164	143	118	98	103	105
122.5	159	157	149	157	153	135	113	97	99	101
125.0	155	153	143	147	145	129	111	97	97	98
127.5	150	148	138	138	138	125	111	99	98	97
130.0	143	142	134	132	133	124	113	101	99	99

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CANDELA TABULATION - (Cont.)

132.5	139	137	132	127	130	125	113	101	101	102
135.0	135	135	131	126	128	119	105	101	103	104
137.5	135	135	132	124	116	104	93	94	99	102
140.0	128	128	122	110	96	84	78	80	86	88
142.5	111	110	104	92	74	62	60	63	69	71
145.0	91	89	82	68	51	45	42	45	51	53
147.5	67	66	57	45	36	28	26	31	34	35
150.0	45	44	39	31	19	7	8	15	19	20
152.5	32	31	25	13	5	2	2	4	5	5
155.0	11	10	6	4	2	1	1	1	2	2
157.5	3	2	2	2	1	1	1	1	1	1
160.0	1	1	1	2	1	1	0	0	1	0
162.5	1	1	1	2	1	1	0	0	0	0
165.0	1	1	2	2	1	1	0	0	0	0
167.5	1	1	2	2	1	1	0	0	0	0
170.0	1	1	2	2	1	1	0	0	0	0
172.5	1	1	2	2	1	1	0	0	0	0
175.0	1	1	2	2	2	1	0	0	0	0
177.5	1	1	2	2	2	1	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	1889	1889	1889	1889	1889	1889	1889	1889	1889	1889
2.5	1863	1864	1893	1943	1956	1970	1972	1957	1959	1944
5.0	1838	1890	1977	2028	1990	1987	1978	1961	1890	1810
7.5	1888	1919	2003	2005	1983	1857	1799	1800	1773	1739
10.0	1982	2006	2060	2005	1919	1878	1795	1698	1617	1547
12.5	2133	2169	2276	2215	1935	1797	1618	1483	1387	1359
15.0	2307	2351	2382	2229	2011	1706	1477	1338	1193	1132
17.5	2590	2571	2645	2359	2000	1570	1344	1135	1014	959
20.0	2876	2794	2820	2477	1987	1478	1170	989	876	817
22.5	3301	3184	3224	2668	1866	1347	1040	844	765	751
25.0	3690	3565	3458	2700	1864	1215	896	758	703	667
27.5	4271	3997	3931	2852	1701	1079	790	699	629	601
30.0	4873	4540	4311	2960	1573	931	738	633	571	545
32.5	5321	4905	4620	2956	1408	844	674	577	542	524
35.0	5825	5297	4885	2822	1215	792	614	547	519	494
37.5	6497	5822	5103	2581	1032	718	558	528	491	458
40.0	7100	6438	5273	2267	923	628	531	506	457	417
42.5	7708	6897	5503	1930	810	550	519	476	419	379
45.0	8615	7425	5635	1594	701	534	500	439	386	347
47.5	9222	8019	5754	1302	610	525	467	401	361	327
50.0	9951	8720	5662	1066	545	503	435	377	345	312
52.5	10914	9151	5639	909	519	477	407	359	334	300
55.0	11659	9546	5324	813	519	451	384	346	324	291
57.5	11921	9459	4745	686	535	426	367	336	315	280
60.0	12125	9071	3823	575	515	404	351	325	298	260
62.5	11802	8367	2902	510	466	383	337	309	276	253
65.0	10423	6836	1937	477	418	363	323	287	300	321
67.5	8348	4994	1293	455	392	344	304	315	355	394
70.0	6278	3558	902	428	372	328	321	351	382	338
72.5	4095	2356	659	399	346	312	330	344	279	253
75.0	2582	1542	518	379	330	309	336	287	252	217
77.5	1154	745	407	356	315	321	299	255	228	208

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CANDELA TABULATION - (Cont.)

80.0	693	539	339	334	309	302	271	251	235	214
82.5	496	419	285	312	313	274	274	258	242	221
85.0	400	270	272	315	284	272	279	264	248	227
87.5	319	117	287	300	287	273	285	270	254	233
90.0	230	92	278	305	291	276	290	276	262	240
92.5	160	196	253	313	300	282	297	285	272	249
95.0	151	260	236	310	295	268	290	280	271	249
97.5	186	263	233	283	280	250	279	274	267	243
100.0	204	249	231	248	268	242	271	269	264	236
102.5	201	230	219	215	247	234	263	265	260	227
105.0	189	208	203	192	223	224	253	259	255	215
107.5	173	186	184	173	199	210	242	253	249	203
110.0	156	165	166	158	175	194	230	244	241	190
112.5	142	150	150	146	156	180	214	235	232	177
115.0	130	136	136	136	143	168	201	223	220	167
117.5	120	126	126	129	132	159	189	211	207	160
120.0	113	117	118	122	126	152	179	198	190	154
122.5	107	109	111	116	123	146	170	186	173	150
125.0	102	104	106	112	122	143	162	174	157	144
127.5	100	102	105	112	122	142	157	161	144	140
130.0	101	102	105	113	122	141	153	152	133	136
132.5	103	104	108	116	121	132	146	144	127	133
135.0	106	108	111	119	120	119	127	129	127	132
137.5	108	111	114	116	109	104	101	104	112	125
140.0	97	101	102	98	92	84	76	79	91	104
142.5	81	84	84	79	71	62	53	55	68	80
145.0	61	64	63	58	50	42	36	38	47	57
147.5	39	39	40	37	32	25	20	26	31	38
150.0	21	21	22	22	17	10	9	12	21	26
152.5	7	8	8	8	7	7	6	7	8	13
155.0	3	4	4	5	5	5	6	6	6	6
157.5	1	2	2	3	4	5	5	6	5	4
160.0	1	1	2	3	4	5	5	5	5	4
162.5	1	1	2	3	4	4	5	5	4	3
165.0	0	1	1	2	3	4	4	4	4	3
167.5	0	0	1	2	3	3	4	4	4	2
170.0	0	0	0	1	2	3	3	3	3	2
172.5	0	0	0	1	2	2	3	3	3	2
175.0	0	0	0	1	1	2	2	2	2	1
177.5	0	0	0	1	1	1	2	2	2	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1889	1889
2.5	1955	1968
5.0	1752	1751
7.5	1747	1744
10.0	1483	1475
12.5	1300	1286
15.0	1087	1082
17.5	918	919
20.0	793	791
22.5	731	728
25.0	648	646

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CANDELA TABULATION - (Cont.)

27.5	590	588
30.0	553	552
32.5	521	522
35.0	491	490
37.5	455	455
40.0	414	416
42.5	376	381
45.0	347	352
47.5	325	330
50.0	305	309
52.5	287	289
55.0	268	271
57.5	243	245
60.0	211	207
62.5	214	217
65.0	281	278
67.5	345	335
70.0	223	198
72.5	176	148
75.0	132	93
77.5	125	73
80.0	131	69
82.5	137	74
85.0	141	82
87.5	147	92
90.0	153	116
92.5	161	145
95.0	164	168
97.5	164	184
100.0	167	197
102.5	171	203
105.0	178	205
107.5	184	204
110.0	187	200
112.5	187	194
115.0	183	188
117.5	178	180
120.0	172	174
122.5	166	168
125.0	159	161
127.5	152	153
130.0	145	146
132.5	139	140
135.0	136	137
137.5	133	132
140.0	111	110
142.5	87	87
145.0	63	64
147.5	41	41
150.0	29	29
152.5	17	16
155.0	6	6
157.5	2	1
160.0	1	0
162.5	1	0
165.0	1	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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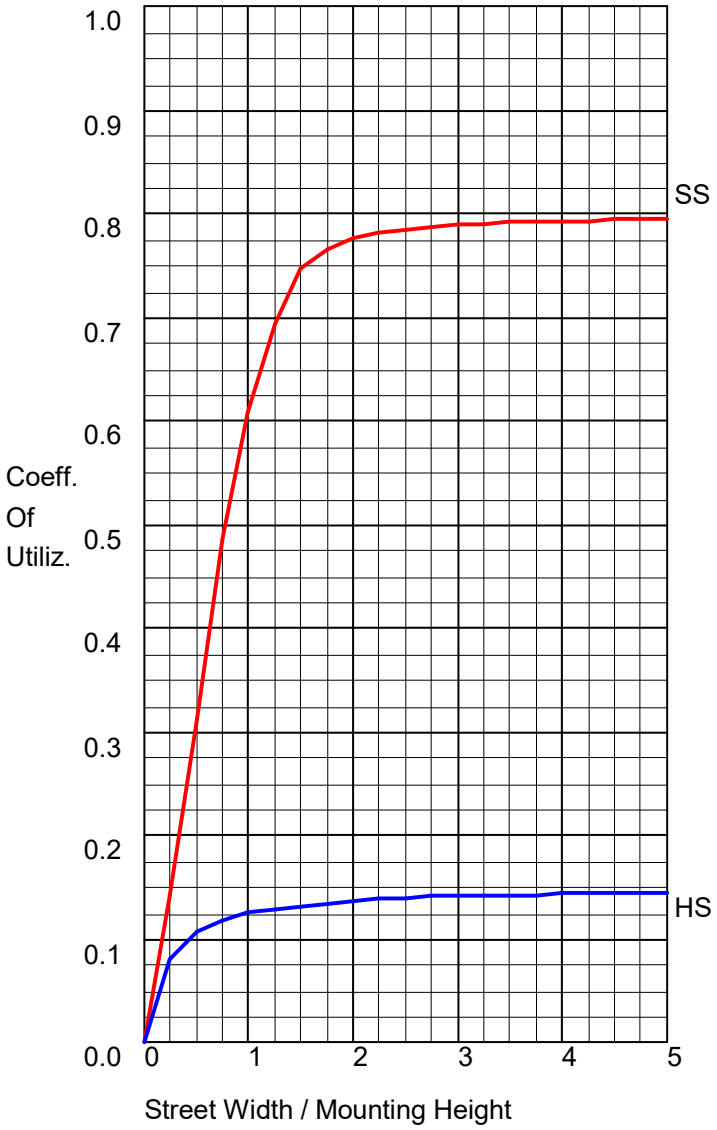
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14278.0	80.0
Downward House Side	2687.0	15.1
Downward Total	16965.0	95.1
Upward Street Side	406.0	2.3
Upward House Side	477.0	2.7
Upward Total	883.0	4.9
Total Flux	17848.0	100.0

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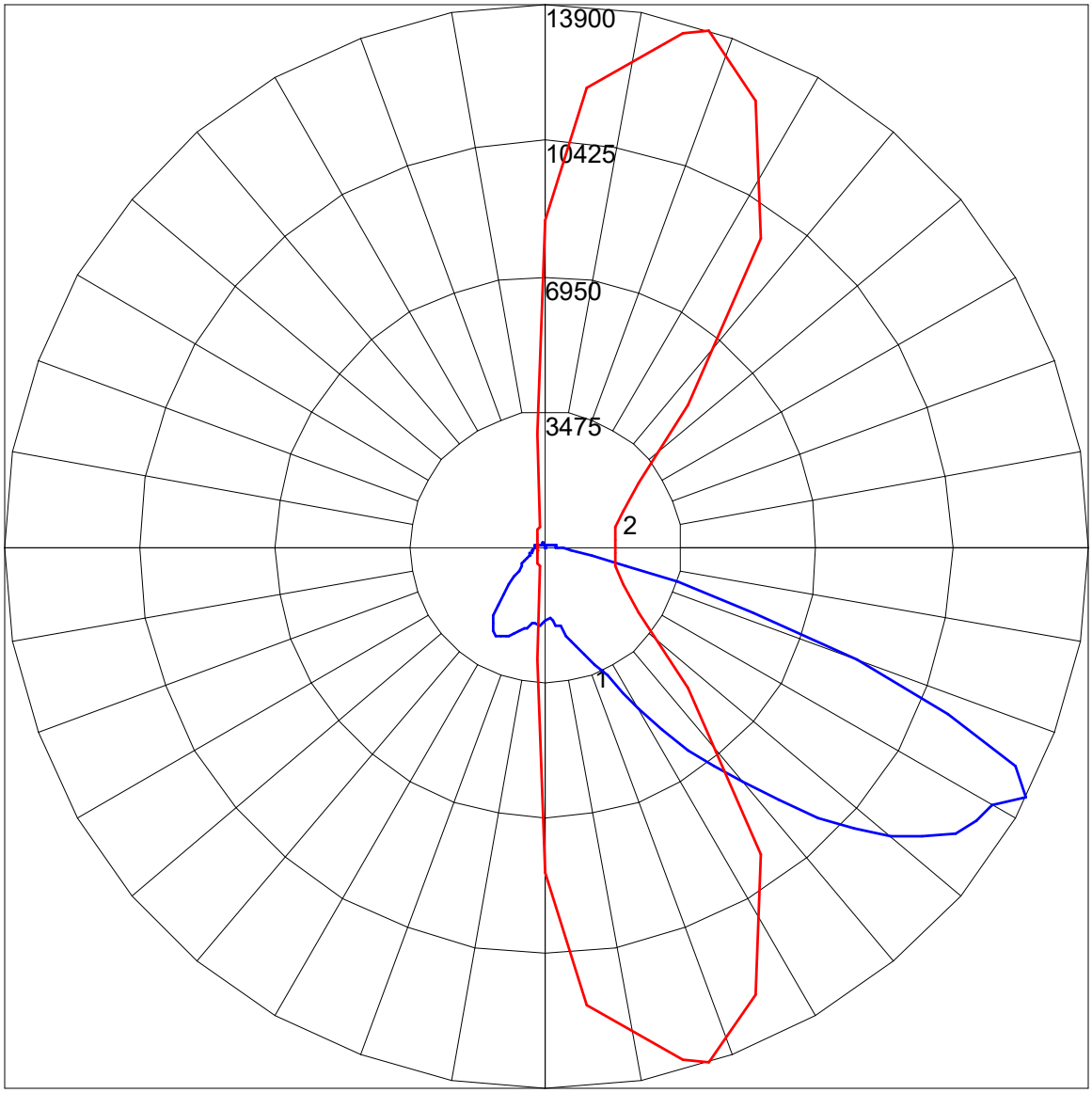
POLAR GRAPH



Maximum Candela = 13900 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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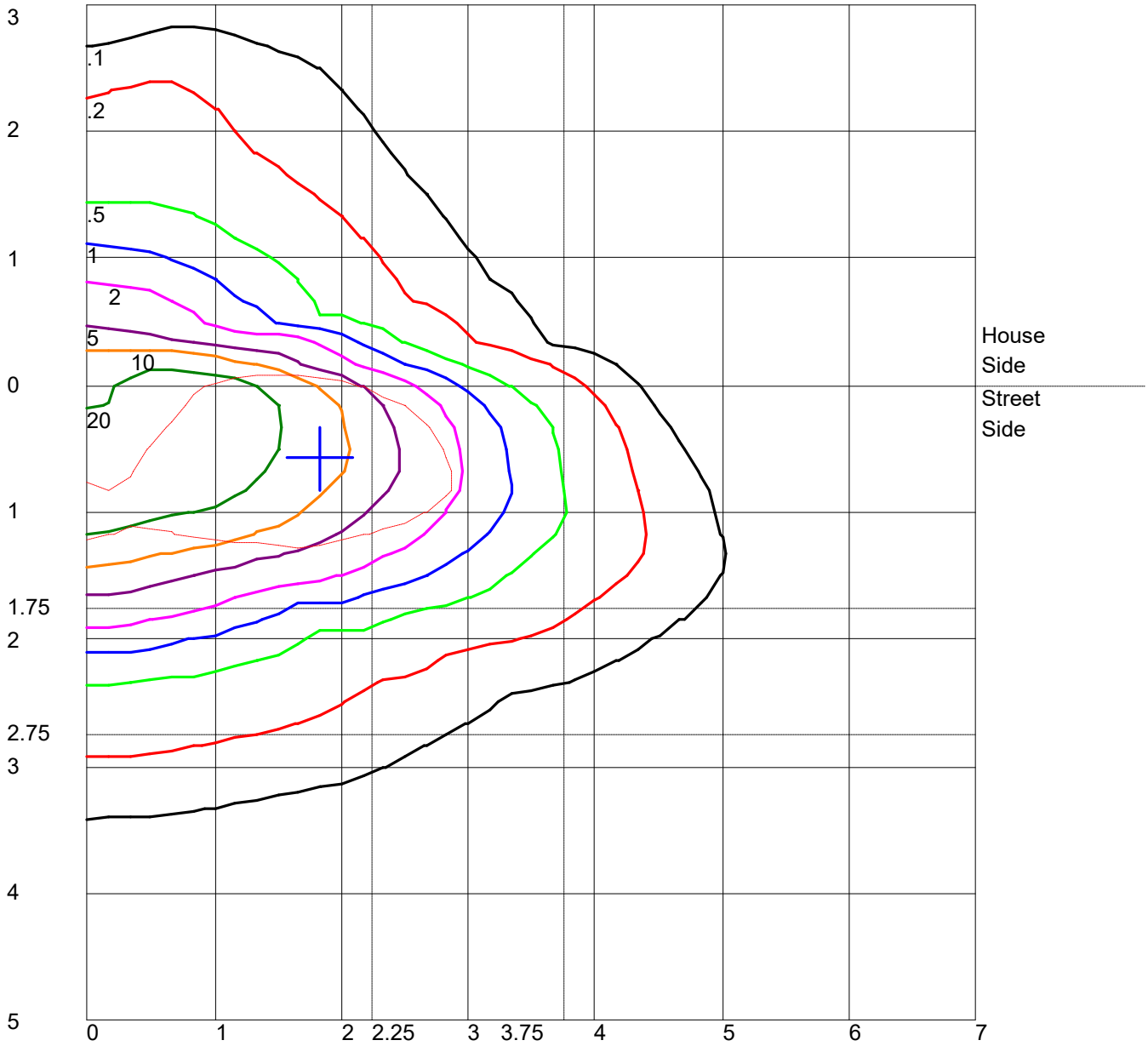
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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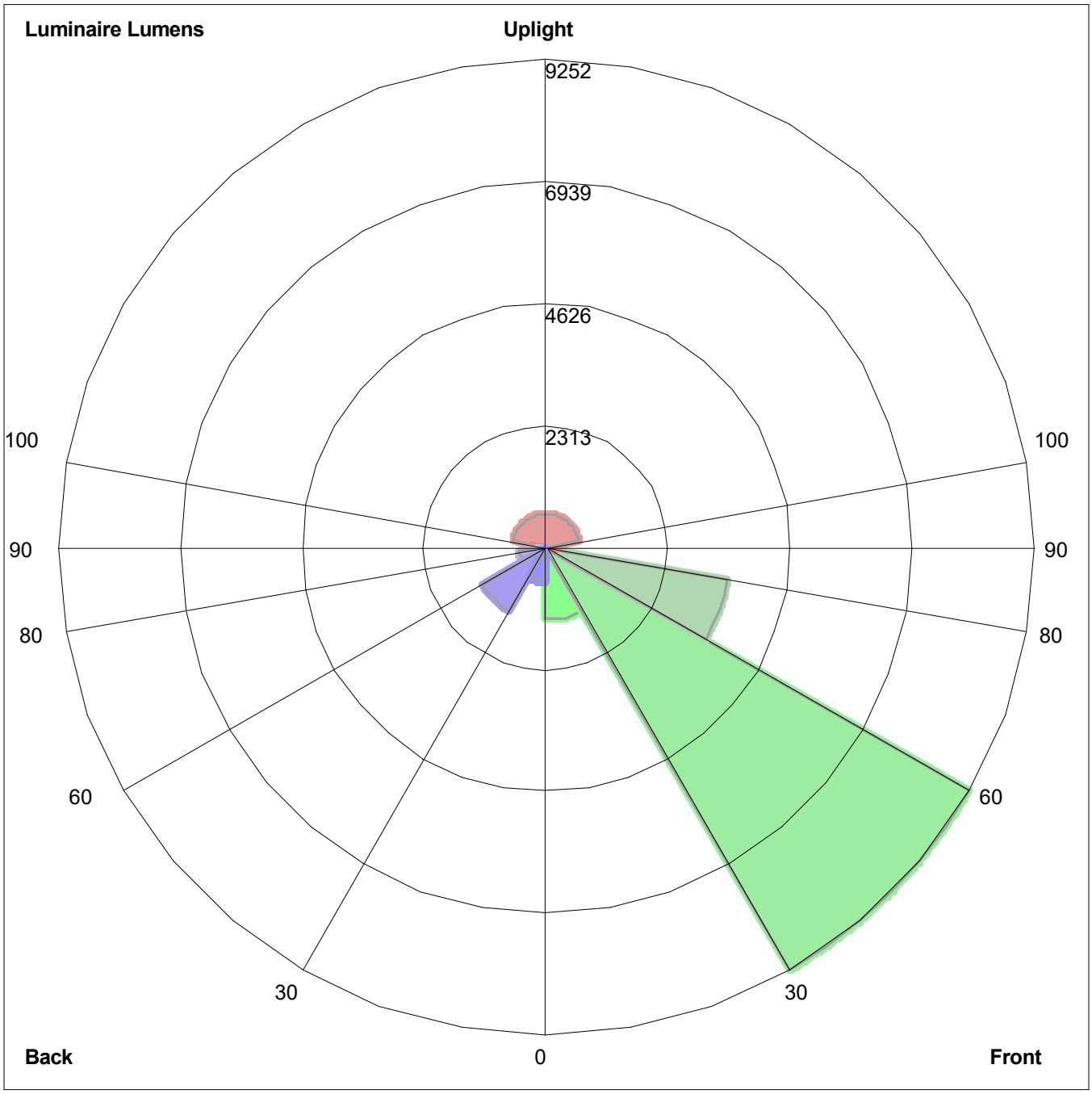
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1372.7, Medium=9251.7, High=3492.5, Very High=161.2
Back: Low=652.4, Medium=1378.3, High=515.9, Very High=140.4
Uplight: Low=252.1, High=630.8

BUG Rating : B2-U4-G2