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

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18140
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	14127
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	14127
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	310 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1198 (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)	1395.1	N.A.	7.7
FM - Front-Medium (30-60)	9403.0	N.A.	51.8
FH - Front-High (60-80)	3549.6	N.A.	19.6
FVH - Front-Very High (80-90)	163.8	N.A.	0.9
BL - Back-Low (0-30)	663.1	N.A.	3.7
BM - Back-Medium (30-60)	1400.8	N.A.	7.7
BH - Back-High (60-80)	524.3	N.A.	2.9
BVH - Back-Very High (80-90)	142.7	N.A.	0.8
UL - Uplight-Low (90-100)	256.3	N.A.	1.4
UH - Uplight-High (100-180)	641.2	N.A.	3.5
Total	18139.9	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	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920
2.5	1895	1878	1886	1900	1897	1890	1869	1866	1876	1876
5.0	2045	2034	2073	2041	2046	2041	2059	2017	1904	1882
7.5	1900	1906	1913	1969	2029	2095	2099	2066	2053	2006
10.0	2103	2101	2044	2146	2105	2063	2089	2110	2113	2144
12.5	2246	2256	2183	2174	2246	2198	2140	2256	2358	2379
15.0	2380	2504	2455	2456	2426	2308	2439	2375	2532	2521
17.5	2808	2698	2764	2629	2705	2716	2599	2649	2734	2793
20.0	3040	3060	3113	2987	2952	2923	3005	2984	2973	3010
22.5	3623	3650	3639	3400	3485	3269	3352	3357	3301	3294
25.0	4096	4124	4116	4017	3848	3842	3778	3772	3721	3742
27.5	5233	5181	5042	4611	4572	4350	4353	4316	4285	4230
30.0	6150	6252	5995	5652	5334	5255	5063	4917	4886	4897
32.5	6948	6950	6931	6687	6474	6071	5983	5729	5686	5698
35.0	6687	6698	6780	7058	7398	7267	7103	6751	6462	6284
37.5	6785	6669	6643	6801	7466	7995	8235	7794	7219	6979
40.0	7285	7087	6961	6994	7436	8273	8625	9143	7954	7755
42.5	7783	7531	7343	7374	7740	8550	8811	9899	8993	8656
45.0	7940	7724	7535	7633	8089	8918	9443	10067	10027	10015
47.5	7744	7574	7395	7644	8286	9384	10145	10048	10902	10926
50.0	7257	7112	6968	7348	8231	9807	10739	10442	11754	11739
52.5	6448	6324	6207	6787	7878	9938	11209	11315	12348	12449
55.0	5438	5293	5207	5857	7188	9703	11614	12359	13042	13120
57.5	4231	4210	4124	4661	5997	8885	11703	13146	13314	13488
60.0	3027	3026	3029	3424	4436	7375	11077	13195	13435	13700
62.5	1796	1820	1905	2231	2938	5196	9794	12879	14127	13876
65.0	1127	1149	1245	1433	1801	2969	7834	11212	13530	13492
67.5	769	768	802	1005	1251	1594	5027	8777	11330	11553
70.0	665	667	683	748	930	1083	2749	6389	8632	9037
72.5	524	520	554	618	757	835	1424	4089	5640	5977
75.0	368	371	404	463	607	703	910	2297	3538	3726
77.5	239	262	301	346	451	579	696	1408	2152	2111
80.0	141	171	218	254	342	454	539	804	1198	1196
82.5	107	135	179	200	241	316	409	496	693	750
85.0	81	111	159	182	208	244	284	348	433	476
87.5	81	108	156	178	201	229	254	279	305	319
90.0	86	107	154	176	198	223	240	259	274	278
92.5	101	112	158	181	203	227	239	260	275	280
95.0	118	118	164	188	210	233	239	265	279	283
97.5	134	123	167	192	212	233	234	261	267	260
100.0	144	129	169	195	214	232	229	248	234	205
102.5	151	136	169	197	214	229	222	222	185	168
105.0	155	142	168	198	214	225	209	194	153	144
107.5	158	148	165	199	213	217	190	169	134	133
110.0	159	152	163	198	210	205	170	144	122	127
112.5	160	156	161	196	204	187	153	124	115	121
115.0	161	159	160	192	193	170	139	112	111	115
117.5	162	161	158	184	180	156	128	104	108	111
120.0	163	161	155	173	167	145	120	100	105	107
122.5	162	160	151	160	156	137	115	99	101	103
125.0	158	156	145	149	147	131	113	99	99	100
127.5	152	150	140	140	140	127	113	101	100	99
130.0	145	144	136	134	135	126	115	103	101	101

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CANDELA TABULATION - (Cont.)

132.5	141	139	134	129	132	127	115	103	103	104
135.0	137	137	133	128	130	121	107	103	105	106
137.5	137	137	134	126	118	106	95	96	101	104
140.0	130	130	124	112	98	85	79	81	87	89
142.5	113	112	106	93	75	63	61	64	70	72
145.0	92	90	83	69	52	46	43	46	52	54
147.5	68	67	58	46	37	28	26	31	35	36
150.0	46	45	40	32	19	7	8	15	19	20
152.5	33	32	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	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920
2.5	1893	1895	1924	1975	1988	2002	2004	1989	1991	1976
5.0	1868	1921	2009	2061	2023	2020	2010	1993	1921	1840
7.5	1919	1950	2036	2038	2015	1887	1828	1829	1802	1767
10.0	2014	2039	2094	2038	1950	1909	1824	1726	1643	1572
12.5	2168	2205	2313	2251	1967	1826	1644	1507	1410	1381
15.0	2345	2389	2421	2265	2044	1734	1501	1360	1213	1151
17.5	2632	2613	2688	2398	2033	1596	1366	1154	1031	975
20.0	2923	2840	2866	2518	2020	1502	1189	1005	890	830
22.5	3355	3236	3277	2712	1897	1369	1057	858	778	763
25.0	3750	3623	3515	2744	1895	1235	911	770	714	678
27.5	4341	4062	3995	2899	1729	1097	803	710	639	611
30.0	4953	4614	4382	3008	1599	946	750	643	580	554
32.5	5408	4985	4696	3004	1431	858	685	586	551	533
35.0	5920	5384	4965	2868	1235	805	624	556	528	502
37.5	6603	5917	5187	2623	1049	730	567	537	499	465
40.0	7216	6543	5359	2304	938	638	540	514	464	424
42.5	7834	7010	5593	1962	823	559	527	484	426	385
45.0	8756	7547	5727	1620	712	543	508	446	392	353
47.5	9373	8150	5848	1323	620	534	475	408	367	332
50.0	10114	8863	5755	1083	554	511	442	383	351	317
52.5	11093	9301	5731	924	527	485	414	365	339	305
55.0	11850	9702	5411	826	527	458	390	352	329	296
57.5	12116	9614	4823	697	544	433	373	341	320	285
60.0	12323	9219	3886	584	523	411	357	330	303	264
62.5	11995	8504	2949	518	474	389	343	314	281	257
65.0	10594	6948	1969	485	425	369	328	292	305	326
67.5	8485	5076	1314	462	398	350	309	320	361	400
70.0	6381	3616	917	435	378	333	326	357	388	344
72.5	4162	2395	670	406	352	317	335	350	284	257
75.0	2624	1567	526	385	335	314	341	292	256	221
77.5	1173	757	414	362	320	326	304	259	232	211

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CANDELA TABULATION - (Cont.)

80.0	704	548	345	339	314	307	275	255	239	218
82.5	504	426	290	317	318	278	278	262	246	225
85.0	407	274	276	320	289	276	284	268	252	231
87.5	324	119	292	305	292	277	290	274	258	237
90.0	234	93	283	310	296	281	295	281	266	244
92.5	163	199	257	318	305	287	302	290	276	253
95.0	153	264	240	315	300	272	295	285	275	253
97.5	189	267	237	288	285	254	284	278	271	247
100.0	207	253	235	252	272	246	275	273	268	240
102.5	204	234	223	219	251	238	267	269	264	231
105.0	192	211	206	195	227	228	257	263	259	219
107.5	176	189	187	176	202	213	246	257	253	206
110.0	159	168	169	161	178	197	234	248	245	193
112.5	144	152	152	148	159	183	218	239	236	180
115.0	132	138	138	138	145	171	204	227	224	170
117.5	122	128	128	131	134	162	192	214	210	163
120.0	115	119	120	124	128	154	182	201	193	157
122.5	109	111	113	118	125	148	173	189	176	152
125.0	104	106	108	114	124	145	165	177	160	146
127.5	102	104	107	114	124	144	160	164	146	142
130.0	103	104	107	115	124	143	156	154	135	138
132.5	105	106	110	118	123	134	148	146	129	135
135.0	108	110	113	121	122	121	129	131	129	134
137.5	110	113	116	118	111	106	103	106	114	127
140.0	99	103	104	100	93	85	77	80	92	106
142.5	82	85	85	80	72	63	54	56	69	81
145.0	62	65	64	59	51	43	37	39	48	58
147.5	40	40	41	38	33	25	20	26	32	39
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	1920	1920
2.5	1987	2000
5.0	1781	1780
7.5	1776	1773
10.0	1507	1499
12.5	1321	1307
15.0	1105	1100
17.5	933	934
20.0	806	804
22.5	743	740
25.0	659	657

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CANDELA TABULATION - (Cont.)

27.5	600	598
30.0	562	561
32.5	530	531
35.0	499	498
37.5	462	462
40.0	421	423
42.5	382	387
45.0	353	358
47.5	330	335
50.0	310	314
52.5	292	294
55.0	272	275
57.5	247	249
60.0	214	210
62.5	217	221
65.0	286	283
67.5	351	340
70.0	227	201
72.5	179	150
75.0	134	95
77.5	127	74
80.0	133	70
82.5	139	75
85.0	143	83
87.5	149	94
90.0	155	118
92.5	164	147
95.0	167	171
97.5	167	187
100.0	170	200
102.5	174	206
105.0	181	208
107.5	187	207
110.0	190	203
112.5	190	197
115.0	186	191
117.5	181	183
120.0	175	177
122.5	169	171
125.0	162	164
127.5	154	156
130.0	147	148
132.5	141	142
135.0	138	139
137.5	135	134
140.0	113	112
142.5	88	88
145.0	64	65
147.5	42	42
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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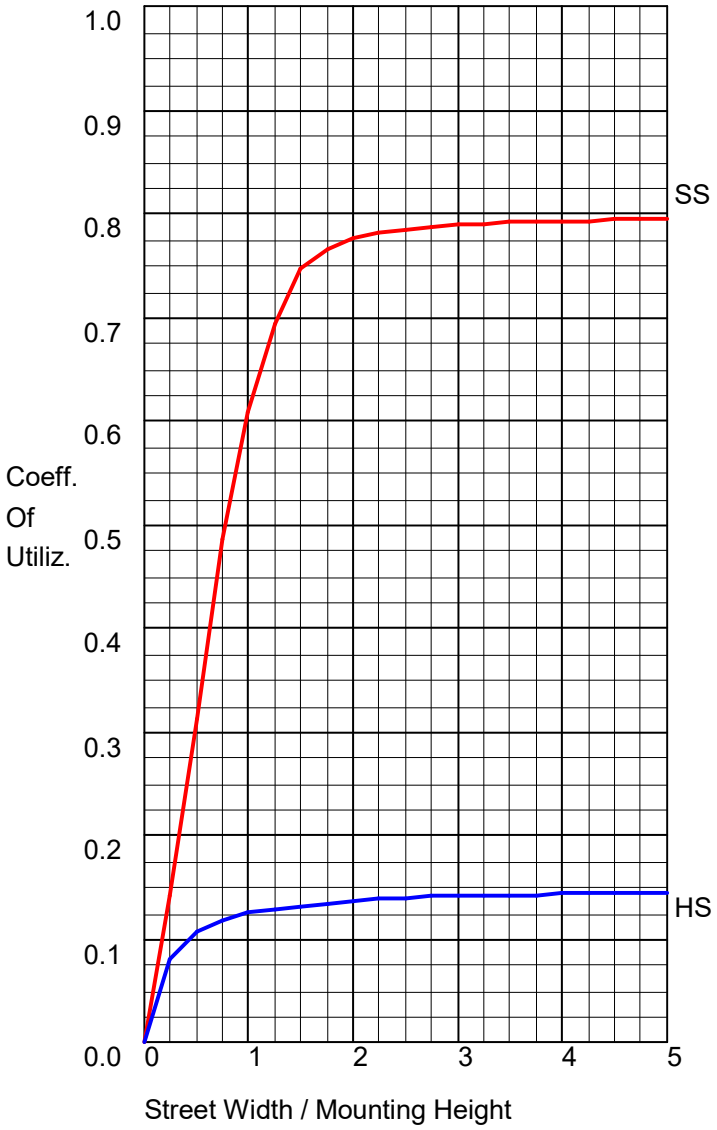
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14511.6	80.0
Downward House Side	2730.9	15.1
Downward Total	17242.5	95.1
Upward Street Side	412.7	2.3
Upward House Side	484.8	2.7
Upward Total	897.5	4.9
Total Flux	18140.0	100.0

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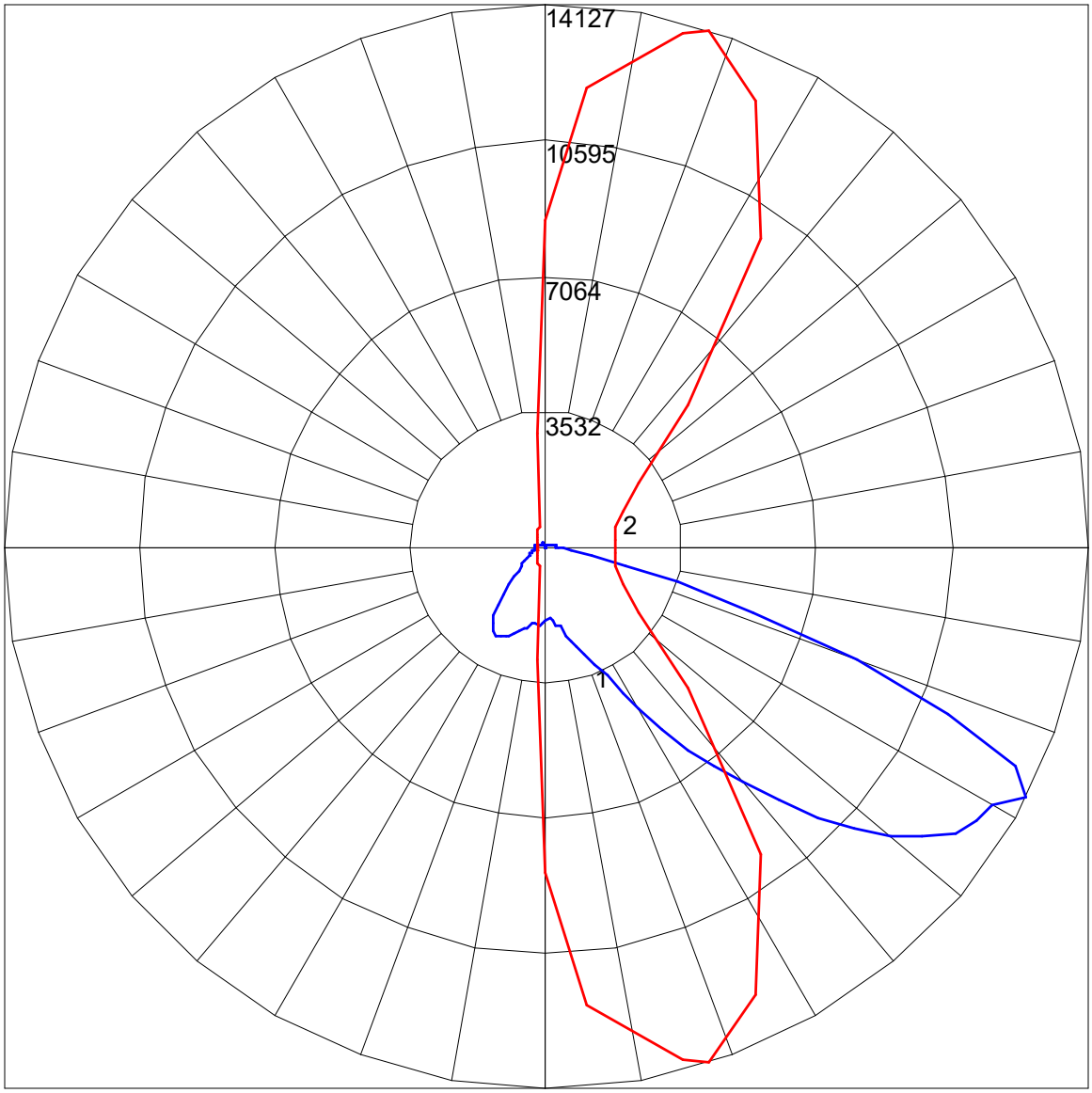
POLAR GRAPH



Maximum Candela = 14127 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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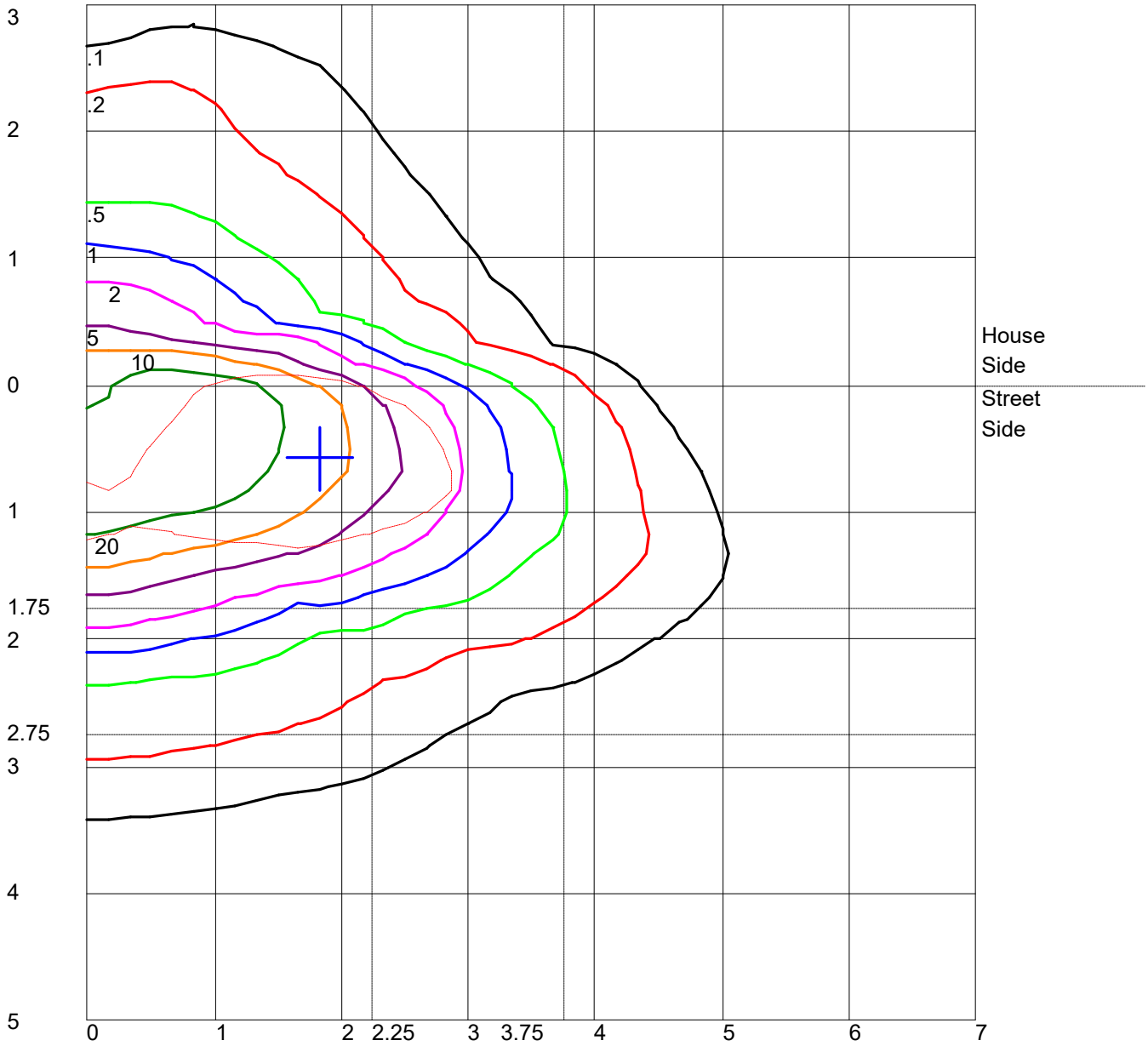
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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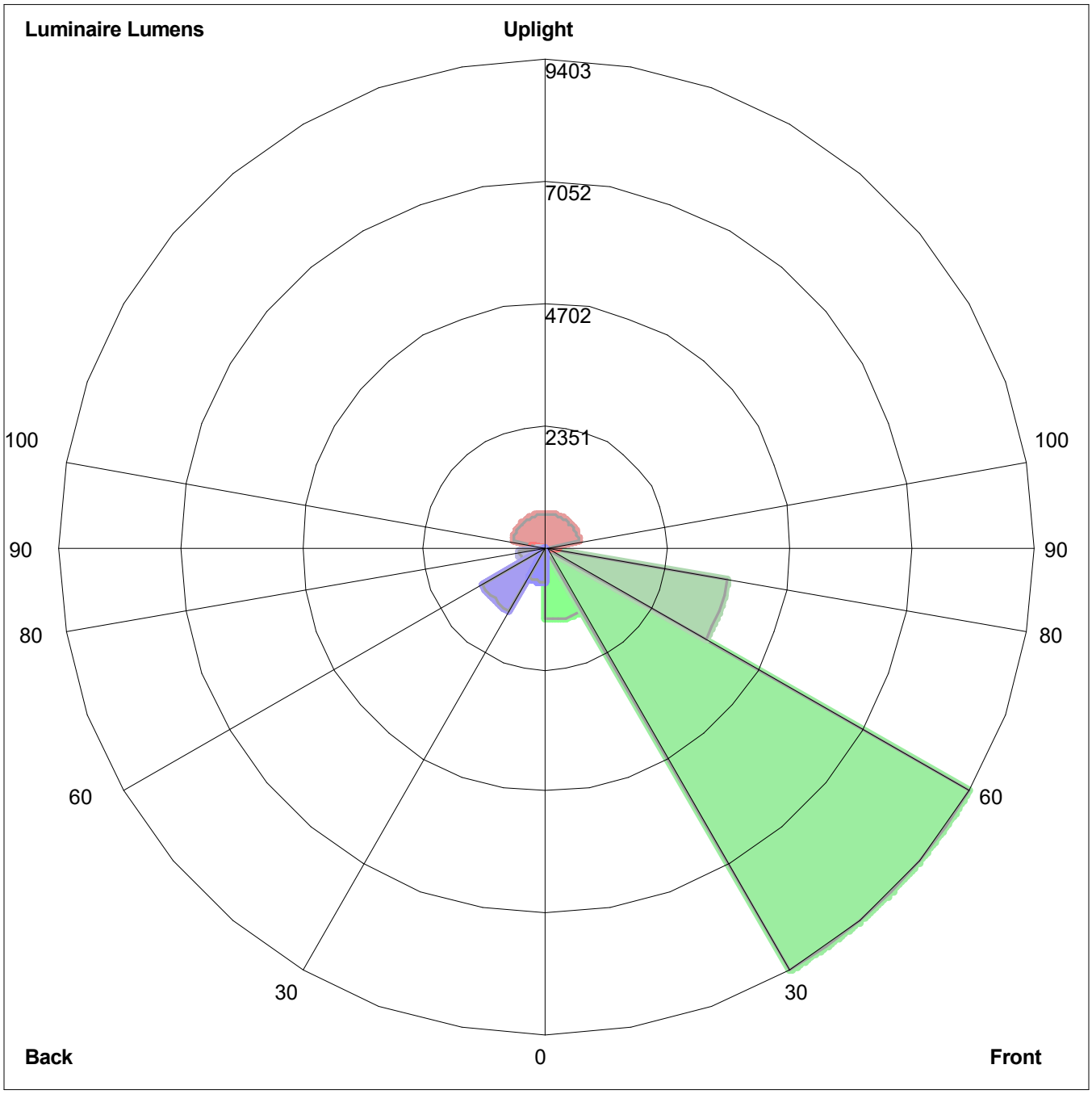
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1395.1, Medium= 9403.0, High=3549.6, Very High=163.8
Back: Low=663.1, Medium=1400.8, High=524.3, Very High=142.7
Uplight: Low=256.3, High=641.2

BUG Rating : B2-U4-G2

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