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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12642
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-FT-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18929
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	12553
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	12553
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	273 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1458 (7.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1202.2	N.A.	6.4
FM - Front-Medium (30-60)	7475.4	N.A.	39.5
FH - Front-High (60-80)	6106.2	N.A.	32.3
FVH - Front-Very High (80-90)	236.6	N.A.	1.3
BL - Back-Low (0-30)	779.4	N.A.	4.1
BM - Back-Medium (30-60)	1516.2	N.A.	8.0
BH - Back-High (60-80)	617.9	N.A.	3.3
BVH - Back-Very High (80-90)	136.2	N.A.	0.7
UL - Uplight-Low (90-100)	227.9	N.A.	1.2
UH - Uplight-High (100-180)	631.0	N.A.	3.3
Total	18929.0	N.A.	100.0
BUG Rating	B2-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	42.5	45.0	55.0	65.0	75.0
0.0	2036	2036	2036	2036	2036	2036	2036	2036	2036	2036
2.5	2125	2134	2138	2130	2136	2126	2129	2110	2101	2096
5.0	1963	1936	1972	2080	2169	2194	2211	2201	2183	2142
7.5	2003	2005	1985	2014	2038	1990	1986	2069	2195	2170
10.0	1994	1975	2019	2042	2047	2054	2060	2093	2117	2233
12.5	2073	2146	2190	2155	2153	2132	2108	2134	2150	2405
15.0	2222	2218	2295	2231	2331	2302	2312	2305	2353	2412
17.5	2484	2459	2519	2506	2427	2462	2527	2478	2539	2570
20.0	2735	2777	2735	2699	2792	2639	2641	2747	2746	2709
22.5	3017	3005	3089	3041	2954	2943	2958	2895	2904	2944
25.0	3585	3524	3433	3270	3337	3221	3142	3093	3124	3030
27.5	3842	3913	3756	3722	3602	3582	3564	3342	3215	3243
30.0	4441	4476	4424	4075	3984	3916	3822	3596	3380	3372
32.5	4820	4821	4737	4614	4460	4314	4218	3914	3628	3511
35.0	5195	5161	5064	4947	4939	4800	4691	4196	3806	3587
37.5	5623	5529	5412	5326	5271	5307	5246	4585	4016	3642
40.0	6092	5954	5842	5764	5661	5736	5707	5009	4314	3681
42.5	6578	6493	6334	6271	6159	6222	6144	5623	4526	3733
45.0	7162	7094	6942	6876	6740	6740	6687	6191	4884	4090
47.5	7964	7837	7703	7614	7444	7345	7346	6788	5307	4452
50.0	8710	8639	8567	8518	8277	8165	8110	7488	5959	4832
52.5	9138	9145	9183	9391	9201	9019	8961	8403	6771	5337
55.0	9287	9344	9461	9942	10066	9945	9877	9301	7678	5761
57.5	9293	9380	9601	10267	10708	10888	10688	10166	8489	6018
60.0	9219	9328	9664	10503	11124	11510	11410	10984	9042	6413
62.5	8831	8976	9513	10684	11455	11837	12011	11592	9298	7169
65.0	7088	7269	8238	10273	11830	12264	12447	11473	9329	7316
67.5	4766	4806	5925	8406	11509	12511	12553	10878	9206	7073
70.0	2540	2814	3780	5807	9131	11174	11376	10137	8421	6052
72.5	1338	1490	2539	3719	5737	7423	8101	8902	6627	3956
75.0	961	1029	1968	2884	3852	4662	4944	5601	3488	1881
77.5	744	793	1146	1967	2824	2709	2767	2979	1947	1153
80.0	562	608	820	1054	1392	1438	1458	1455	1026	822
82.5	441	480	637	791	726	581	540	458	440	593
85.0	350	374	499	478	313	269	263	271	303	361
87.5	188	201	237	198	186	201	206	219	239	274
90.0	76	89	125	148	171	188	194	208	223	243
92.5	86	93	129	152	175	193	199	211	228	244
95.0	96	98	132	155	177	194	201	211	230	240
97.5	107	104	135	159	179	195	202	208	225	206
100.0	117	110	138	163	182	196	201	204	210	154
102.5	124	116	140	166	184	196	200	197	185	133
105.0	130	123	142	169	185	194	197	182	160	122
107.5	134	129	144	173	187	192	190	162	139	122
110.0	139	135	146	175	186	182	177	144	121	121
112.5	143	140	147	175	179	168	160	132	113	118
115.0	147	145	149	173	169	153	147	125	109	116
117.5	149	148	149	165	157	144	138	120	107	115
120.0	151	151	146	154	148	137	133	118	106	113
122.5	151	149	141	145	141	133	129	115	107	111
125.0	148	146	136	137	137	131	127	116	108	110
127.5	142	141	134	133	134	129	127	118	110	111
130.0	139	138	133	130	133	130	129	120	112	115

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CANDELA TABULATION - (Cont.)

132.5	137	136	132	130	133	130	127	116	113	118
135.0	137	137	134	130	126	119	116	108	113	120
137.5	137	136	129	118	108	101	98	97	106	118
140.0	121	120	111	98	86	80	78	82	92	104
142.5	98	98	91	78	63	59	58	64	74	88
145.0	75	74	67	54	43	42	41	44	55	67
147.5	49	49	45	37	29	22	21	26	37	47
150.0	35	34	31	23	9	7	8	13	20	29
152.5	18	16	11	6	4	4	4	7	11	15
155.0	5	5	3	2	2	3	3	4	7	9
157.5	1	1	2	2	2	2	3	3	4	6
160.0	1	1	1	2	2	2	2	3	4	4
162.5	0	1	1	2	2	2	2	3	3	4
165.0	1	1	2	2	2	2	3	3	4	4
167.5	1	1	1	2	2	2	2	3	3	4
170.0	1	1	1	2	2	2	2	3	3	4
172.5	1	1	2	2	2	3	3	3	4	4
175.0	1	1	2	2	2	3	3	3	4	4
177.5	1	1	2	2	2	3	3	3	3	4
180.0	3	3	3	3	3	3	3	3	3	3

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	2036	2036	2036	2036	2036	2036	2036	2036	2036	2036
2.5	2080	2060	2050	2006	1990	1986	1977	1975	1981	1984
5.0	2130	2064	2032	2010	2108	2150	2137	2126	2124	2099
7.5	2152	2117	2054	2104	2156	2181	2149	2045	1933	1907
10.0	2245	2181	2093	2189	2157	2099	1970	1963	1892	1888
12.5	2439	2360	2242	2345	2201	2023	1936	1884	1844	1841
15.0	2575	2478	2354	2471	2189	2064	1917	1897	1830	1750
17.5	2730	2650	2577	2595	2304	2095	2002	1785	1597	1497
20.0	2874	2803	2764	2633	2372	2072	1826	1558	1395	1261
22.5	3110	2997	2987	2739	2355	2047	1620	1371	1141	1045
25.0	3195	3174	3103	2809	2325	1862	1421	1135	1004	930
27.5	3380	3288	3263	2903	2239	1642	1219	1029	894	842
30.0	3465	3361	3364	3013	2093	1449	1111	926	839	806
32.5	3491	3370	3356	2970	1895	1296	1018	867	800	838
35.0	3495	3357	3394	2827	1661	1192	951	828	828	869
37.5	3532	3379	3419	2677	1452	1099	898	837	837	940
40.0	3594	3455	3409	2502	1319	1020	880	823	878	1065
42.5	3572	3436	3429	2304	1237	958	877	813	939	1332
45.0	3719	3437	3499	2145	1144	962	869	795	1008	1360
47.5	3787	3575	3418	2024	1051	993	843	769	1039	862
50.0	3959	3721	3419	1998	1008	983	814	735	889	603
52.5	4236	3806	3506	1972	1008	952	772	705	712	509
55.0	4541	4020	3570	2017	1037	874	712	652	576	460
57.5	4642	3977	3515	1897	970	762	619	586	502	431
60.0	4820	4143	3530	1874	814	610	522	504	448	401
62.5	5062	4171	3486	1832	603	482	444	439	404	369
65.0	4974	4088	3260	1560	463	416	401	397	365	336
67.5	4596	3697	2843	1041	407	385	375	365	326	307
70.0	3715	2763	1953	644	381	363	351	325	298	340
72.5	2164	1590	1134	419	354	344	322	303	349	423
75.0	1054	945	710	363	333	315	299	314	310	290
77.5	704	644	407	343	309	288	285	271	262	265

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CANDELA TABULATION - (Cont.)

80.0	552	482	320	327	284	276	283	260	247	242
82.5	447	374	257	306	274	268	270	257	245	237
85.0	366	246	241	284	266	249	268	257	246	235
87.5	301	122	265	275	259	246	269	259	248	235
90.0	207	108	255	273	261	248	272	263	251	235
92.5	138	194	237	278	270	253	277	270	258	241
95.0	135	240	226	275	268	242	275	270	263	247
97.5	179	238	218	256	254	220	260	259	258	242
100.0	189	223	213	231	240	212	249	251	252	234
102.5	182	206	202	208	226	208	240	244	246	223
105.0	170	188	187	189	211	205	231	238	241	211
107.5	158	172	175	175	195	200	225	235	236	197
110.0	148	159	163	165	181	194	220	231	230	182
112.5	139	150	153	157	169	188	214	228	223	167
115.0	133	142	146	153	162	184	209	224	216	156
117.5	127	136	140	150	157	180	203	217	206	149
120.0	124	131	136	147	153	177	198	209	192	146
122.5	120	126	131	143	153	174	192	199	176	142
125.0	117	122	128	140	152	171	187	189	161	140
127.5	117	121	127	140	152	170	181	177	149	139
130.0	119	123	129	141	151	169	175	166	140	138
132.5	121	125	131	142	149	163	167	154	133	136
135.0	126	129	134	143	145	148	153	145	131	135
137.5	128	132	136	139	136	128	128	125	130	135
140.0	118	122	124	123	115	106	97	100	113	126
142.5	100	104	105	100	92	81	71	76	91	103
145.0	78	81	81	77	67	57	49	53	68	80
147.5	53	56	56	53	45	36	32	38	46	56
150.0	32	33	34	32	26	17	16	25	31	36
152.5	18	19	18	17	13	10	9	10	19	25
155.0	11	11	11	10	9	7	5	6	6	9
157.5	7	7	7	7	7	6	5	4	3	2
160.0	5	6	6	6	6	6	4	3	2	1
162.5	5	5	6	6	6	5	4	3	2	0
165.0	5	5	6	6	6	5	4	3	2	0
167.5	5	5	5	6	6	5	4	3	1	0
170.0	5	5	5	6	5	5	4	3	1	0
172.5	5	5	5	5	5	5	4	3	1	0
175.0	5	5	5	5	5	4	4	2	1	0
177.5	5	5	5	5	5	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	2036	2036
2.5	1992	1998
5.0	2096	2117
7.5	1881	1881
10.0	1872	1911
12.5	1825	1813
15.0	1690	1733
17.5	1457	1448
20.0	1196	1192
22.5	1000	987
25.0	886	881

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CANDELA TABULATION - (Cont.)

27.5	838	837
30.0	813	814
32.5	863	867
35.0	920	921
37.5	1013	1019
40.0	1166	1190
42.5	1441	1381
45.0	849	812
47.5	617	613
50.0	527	524
52.5	476	477
55.0	441	445
57.5	408	411
60.0	373	376
62.5	340	343
65.0	313	319
67.5	293	298
70.0	371	372
72.5	418	355
75.0	260	240
77.5	233	196
80.0	201	148
82.5	183	118
85.0	168	101
87.5	162	105
90.0	153	102
92.5	151	120
95.0	155	146
97.5	153	163
100.0	151	175
102.5	150	180
105.0	153	182
107.5	157	180
110.0	161	175
112.5	162	170
115.0	161	165
117.5	159	161
120.0	156	158
122.5	153	155
125.0	152	153
127.5	148	149
130.0	144	145
132.5	141	141
135.0	138	138
137.5	137	137
140.0	132	133
142.5	111	112
145.0	86	88
147.5	61	62
150.0	39	40
152.5	28	28
155.0	12	12
157.5	2	2
160.0	0	0
162.5	0	0
165.0	0	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	3	3

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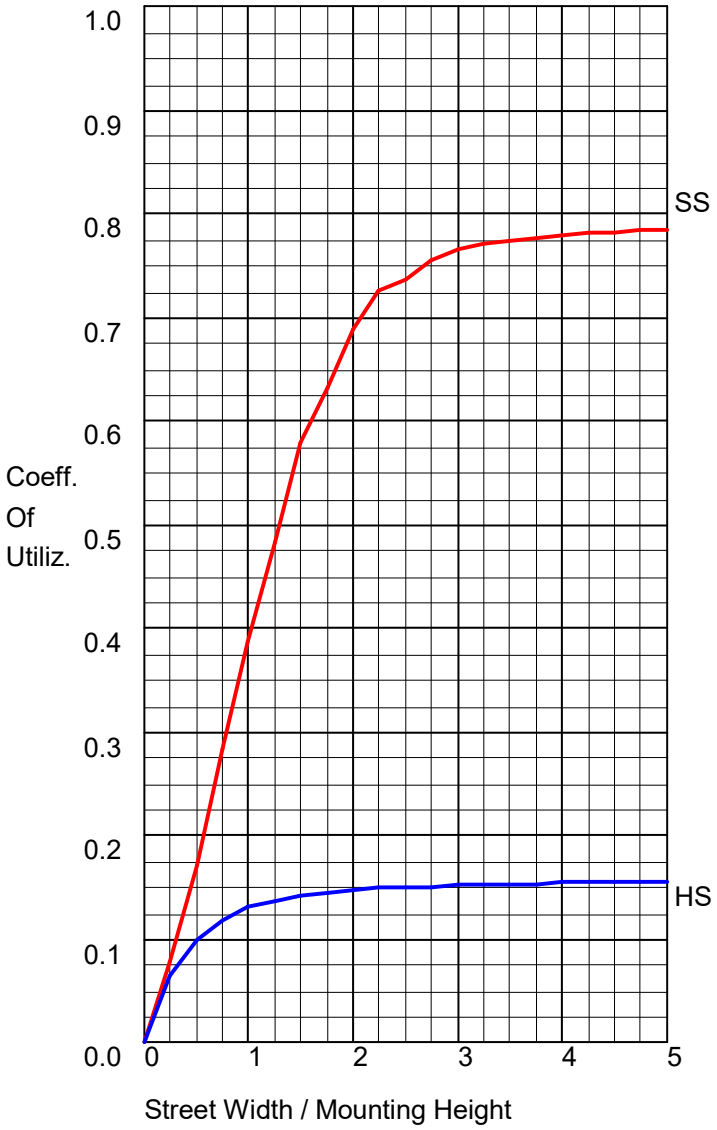
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15020.4	79.4
Downward House Side	3049.7	16.1
Downward Total	18070.1	95.5
Upward Street Side	377.3	2.0
Upward House Side	481.6	2.5
Upward Total	858.9	4.5
Total Flux	18929.0	100.0

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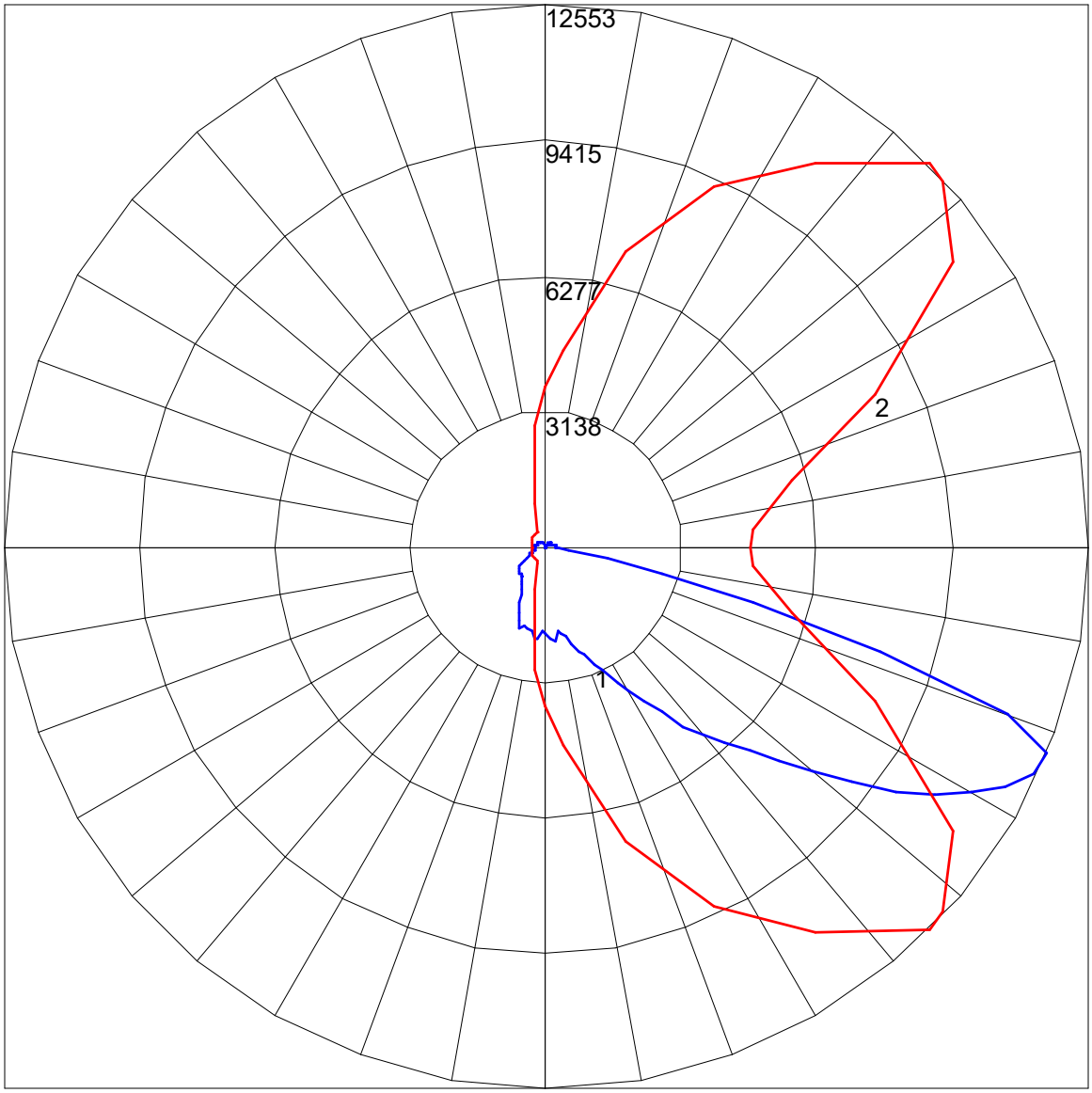
POLAR GRAPH



Maximum Candela = 12553 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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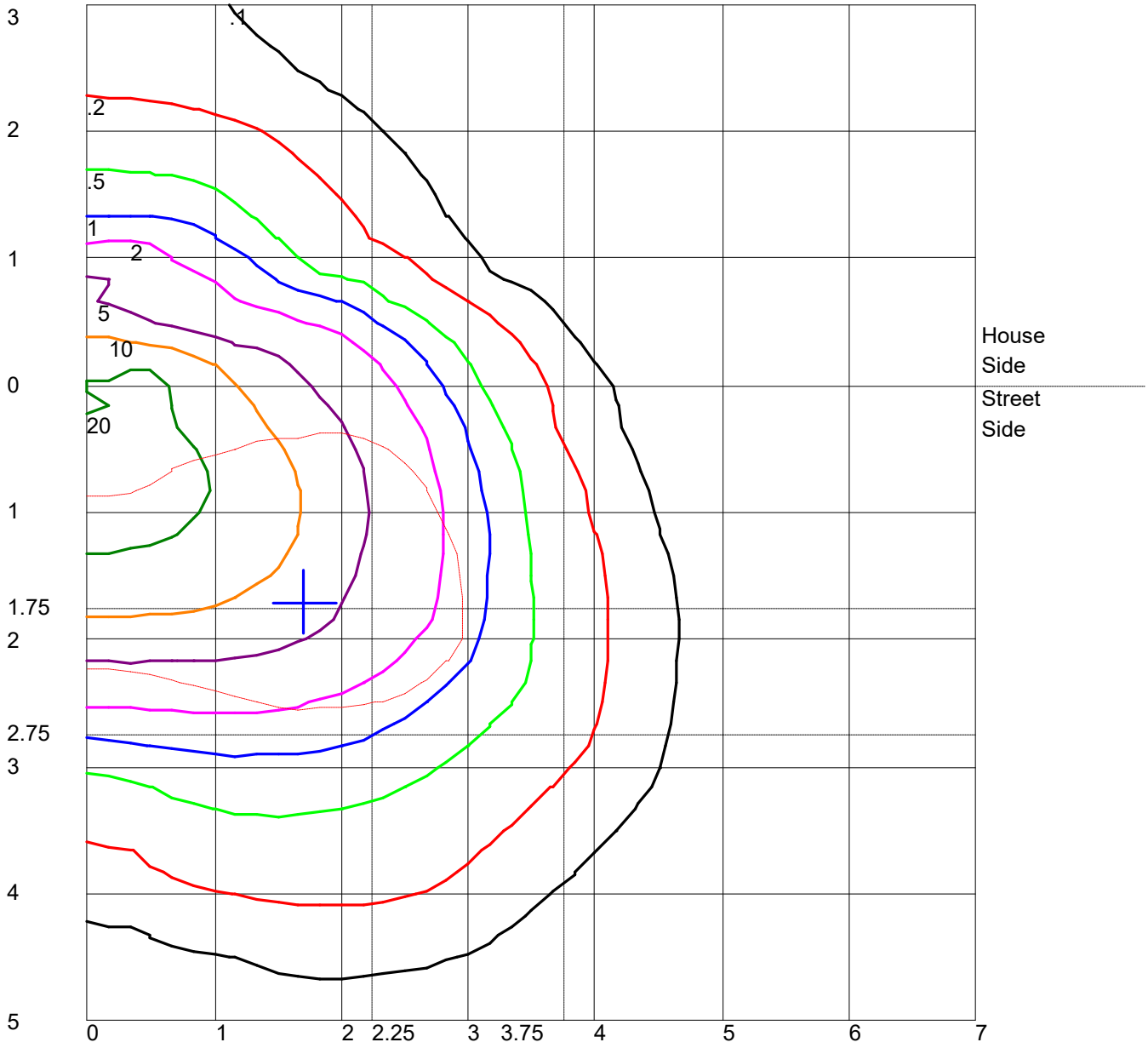
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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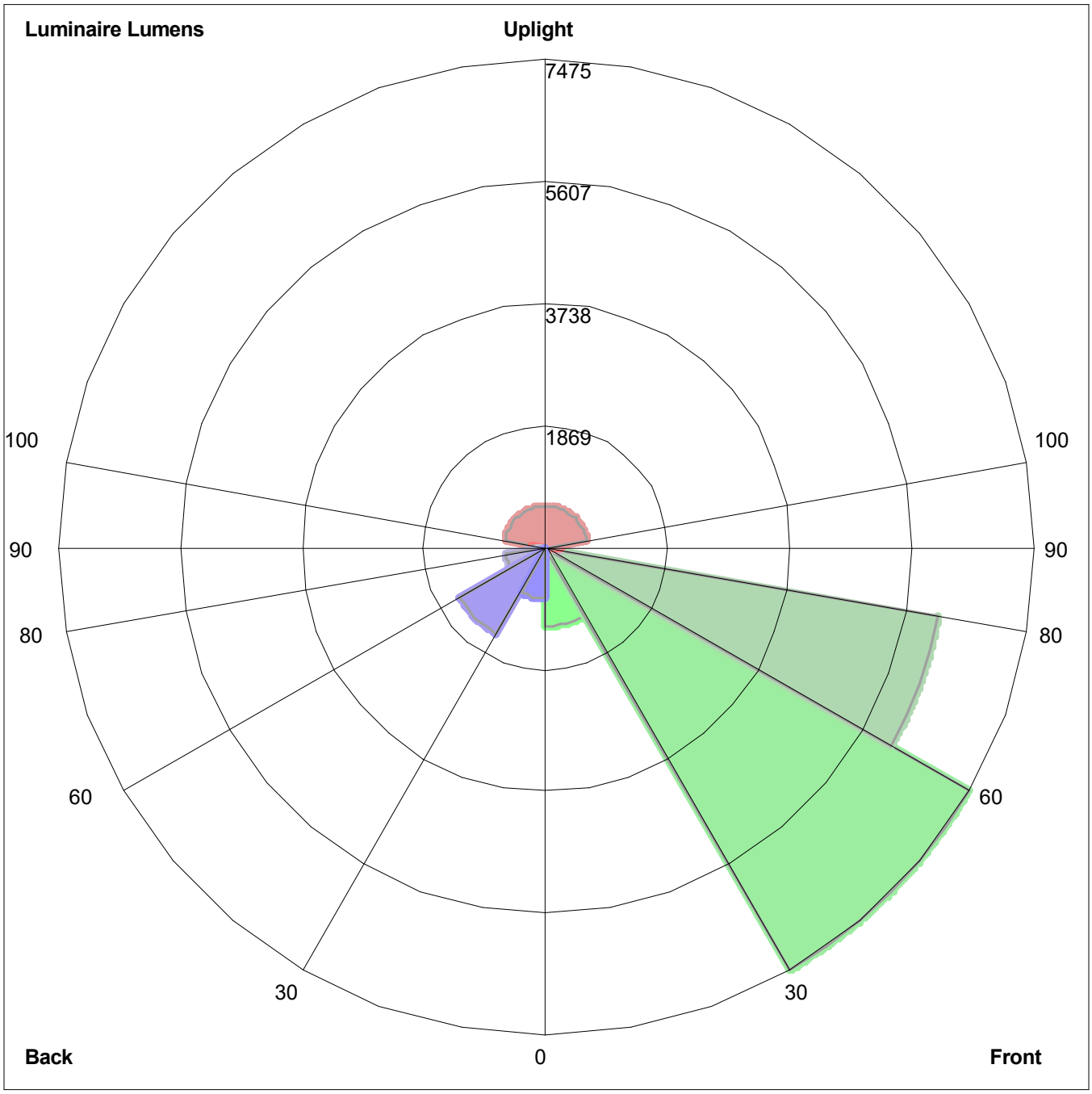
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1202.2, Medium=7475.4, High=6106.2, Very High=236.6
Back: Low=779.4, Medium=1516.2, High=617.9, Very High=136.2
Uplight: Low=227.9, High=631.0

BUG Rating : B2-U4-G3

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