IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI-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-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19239
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	12758
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	12758
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	277 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1482 (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)	1221.8	N.A.	6.4
FM - Front-Medium (30-60)	7597.7	N.A.	39.5
FH - Front-High (60-80)	6206.2	N.A.	32.3
FVH - Front-Very High (80-90)	240.5	N.A.	1.2
BL - Back-Low (0-30)	792.1	N.A.	4.1
BM - Back-Medium (30-60)	1541.0	N.A.	8.0
BH - Back-High (60-80)	628.1	N.A.	3.3
BVH - Back-Very High (80-90)	138.4	N.A.	0.7
UL - Uplight-Low (90-100)	231.5	N.A.	1.2
UH - Uplight-High (100-180)	641.2	N.A.	3.3
Total	19238.5	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	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069
2.5	2160	2169	2173	2165	2171	2161	2164	2145	2135	2130
5.0	1995	1968	2004	2114	2205	2230	2247	2237	2219	2177
7.5	2036	2038	2017	2047	2071	2023	2019	2103	2231	2206
10.0	2027	2007	2052	2075	2081	2088	2094	2127	2152	2270
12.5	2107	2181	2226	2190	2188	2167	2142	2169	2185	2444
15.0	2258	2254	2333	2268	2369	2340	2350	2343	2391	2451
17.5	2525	2499	2560	2547	2467	2502	2568	2519	2581	2612
20.0	2780	2822	2780	2743	2838	2682	2684	2792	2791	2753
22.5	3066	3054	3140	3091	3002	2991	3006	2942	2952	2992
25.0	3644	3582	3489	3324	3392	3274	3193	3144	3175	3080
27.5	3905	3977	3817	3783	3661	3641	3622	3397	3268	3296
30.0	4514	4549	4496	4142	4049	3980	3885	3655	3435	3427
32.5	4899	4900	4815	4690	4533	4385	4287	3978	3687	3568
35.0	5280	5245	5147	5028	5020	4879	4768	4265	3868	3646
37.5	5715	5619	5501	5413	5357	5394	5332	4660	4082	3702
40.0	6192	6051	5938	5858	5754	5830	5800	5091	4385	3741
42.5	6686	6599	6438	6374	6260	6324	6245	5715	4600	3794
45.0	7279	7210	7056	6989	6850	6850	6796	6292	4964	4157
47.5	8094	7965	7829	7739	7566	7465	7466	6899	5394	4525
50.0	8853	8780	8707	8657	8412	8299	8243	7611	6057	4911
52.5	9288	9295	9333	9545	9352	9167	9108	8540	6882	5424
55.0	9439	9497	9616	10105	10231	10108	10039	9453	7804	5855
57.5	9445	9533	9758	10435	10883	11066	10863	10332	8628	6116
60.0	9370	9481	9822	10675	11306	11698	11597	11164	9190	6518
62.5	8975	9123	9669	10859	11642	12031	12208	11782	9450	7286
65.0	7204	7388	8373	10441	12024	12465	12651	11661	9482	7436
67.5	4844	4885	6022	8544	11697	12716	12758	11056	9357	7189
70.0	2582	2860	3842	5902	9280	11357	11562	10303	8559	6151
72.5	1360	1514	2581	3780	5831	7544	8234	9048	6735	4021
75.0	977	1046	2000	2931	3915	4738	5025	5693	3545	1912
77.5	756	806	1165	1999	2870	2753	2812	3028	1979	1172
80.0	571	618	833	1071	1415	1462	1482	1479	1043	835
82.5	448	488	647	804	738	590	549	465	447	603
85.0	356	380	507	486	318	273	267	275	308	367
87.5	191	204	241	201	189	204	209	223	243	278
90.0	77	90	127	150	174	191	197	211	227	247
92.5	87	95	131	154	178	196	202	214	232	248
95.0	98	100	134	158	180	197	204	214	234	244
97.5	109	106	137	162	182	198	205	211	229	209
100.0	119	112	140	166	185	199	204	207	213	157
102.5	126	118	142	169	187	199	203	200	188	135
105.0	132	125	144	172	188	197	200	185	163	124
107.5	136	131	146	176	190	195	193	165	141	124
110.0	141	137	148	178	189	185	180	146	123	123
112.5	145	142	149	178	182	171	163	134	115	120
115.0	149	147	151	176	172	156	149	127	111	118
117.5	151	150	151	168	160	146	140	122	109	117
120.0	153	153	148	157	150	139	135	120	108	115
122.5	153	151	143	147	143	135	131	117	109	113
125.0	150	148	138	139	139	133	129	118	110	112
127.5	144	143	136	135	136	131	129	120	112	113
130.0	141	140	135	132	135	132	131	122	114	117

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CANDELA TABULATION - (Cont.)

132.5	139	138	134	132	135	132	129	118	115	120
135.0	139	139	136	132	128	121	118	110	115	122
137.5	139	138	131	120	110	103	100	99	108	120
140.0	123	122	113	100	87	81	79	83	93	106
142.5	100	100	92	79	64	60	59	65	75	89
145.0	76	75	68	55	44	43	42	45	56	68
147.5	50	50	46	38	29	22	21	26	38	48
150.0	36	35	32	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	2069	2069	2069	2069	2069	2069	2069	2069	2069	2069
2.5	2114	2094	2084	2039	2023	2018	2009	2007	2013	2016
5.0	2165	2098	2065	2043	2142	2185	2172	2161	2159	2133
7.5	2187	2152	2088	2138	2191	2217	2184	2078	1965	1938
10.0	2282	2217	2127	2225	2192	2133	2002	1995	1923	1919
12.5	2479	2399	2279	2383	2237	2056	1968	1915	1874	1871
15.0	2617	2519	2393	2511	2225	2098	1948	1928	1860	1779
17.5	2775	2693	2619	2637	2342	2129	2035	1814	1623	1521
20.0	2921	2849	2809	2676	2411	2106	1856	1583	1418	1282
22.5	3161	3046	3036	2784	2394	2081	1647	1393	1160	1062
25.0	3247	3226	3154	2855	2363	1892	1444	1154	1020	945
27.5	3435	3342	3316	2951	2276	1669	1239	1046	909	856
30.0	3522	3416	3419	3062	2127	1473	1129	941	853	819
32.5	3548	3425	3411	3019	1926	1317	1035	881	813	852
35.0	3552	3412	3450	2873	1688	1211	967	842	842	883
37.5	3590	3434	3475	2721	1476	1117	913	851	851	955
40.0	3653	3512	3465	2543	1341	1037	894	836	892	1082
42.5	3630	3492	3485	2342	1257	974	891	826	954	1354
45.0	3780	3493	3556	2180	1163	978	883	808	1024	1382
47.5	3849	3633	3474	2057	1068	1009	857	782	1056	876
50.0	4024	3782	3475	2031	1024	999	827	747	904	613
52.5	4305	3868	3563	2004	1025	968	785	717	724	517
55.0	4615	4086	3628	2050	1054	888	724	663	585	468
57.5	4718	4042	3573	1928	986	774	629	596	510	438
60.0	4899	4211	3588	1905	827	620	531	512	455	408
62.5	5145	4239	3543	1862	613	490	451	446	411	375
65.0	5055	4155	3313	1586	471	423	408	403	371	341
67.5	4671	3757	2890	1058	414	391	381	371	331	312
70.0	3776	2808	1985	655	387	369	357	330	303	346
72.5	2199	1616	1153	426	360	350	327	308	355	430
75.0	1071	960	722	369	338	320	304	319	315	295
77.5	716	655	414	349	314	293	290	275	266	269

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CANDELA TABULATION - (Cont.)

80.0	561	490	325	332	289	281	288	264	251	246
82.5	454	380	261	311	278	272	274	261	249	241
85.0	372	250	245	289	270	253	272	261	250	239
87.5	306	124	269	279	263	250	273	263	252	239
90.0	210	110	259	277	265	252	276	267	255	239
92.5	140	197	241	283	274	257	282	274	262	245
95.0	137	244	230	279	272	246	279	274	267	251
97.5	182	242	222	260	258	224	264	263	262	246
100.0	192	227	216	235	244	215	253	255	256	238
102.5	185	209	205	211	230	211	244	248	250	227
105.0	173	191	190	192	214	208	235	242	245	214
107.5	161	175	178	178	198	203	229	239	240	200
110.0	150	162	166	168	184	197	224	235	234	185
112.5	141	152	156	160	172	191	218	232	227	170
115.0	135	144	148	156	165	187	212	228	220	159
117.5	129	138	142	152	160	183	206	221	209	151
120.0	126	133	138	149	156	180	201	212	195	148
122.5	122	128	133	145	155	177	195	202	179	144
125.0	119	124	130	142	154	174	190	192	164	142
127.5	119	123	129	142	154	173	184	180	151	141
130.0	121	125	131	143	153	172	178	169	142	140
132.5	123	127	133	144	151	166	170	157	135	138
135.0	128	131	136	145	147	150	155	147	133	137
137.5	130	134	138	141	138	130	130	127	132	137
140.0	120	124	126	125	117	108	99	102	115	128
142.5	102	106	107	102	94	82	72	77	92	105
145.0	79	82	82	78	68	58	50	54	69	81
147.5	54	57	57	54	46	37	33	39	47	57
150.0	33	34	35	33	26	17	16	25	32	37
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	2069	2069
2.5	2025	2031
5.0	2130	2152
7.5	1912	1912
10.0	1903	1942
12.5	1855	1843
15.0	1718	1761
17.5	1481	1472
20.0	1216	1212
22.5	1016	1003
25.0	900	895

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CANDELA TABULATION - (Cont.)

27.5	852	851
30.0	826	827
32.5	877	881
35.0	935	936
37.5	1030	1036
40.0	1185	1209
42.5	1465	1404
45.0	863	825
47.5	627	623
50.0	536	533
52.5	484	485
55.0	448	452
57.5	415	418
60.0	379	382
62.5	346	349
65.0	318	324
67.5	298	303
70.0	377	378
72.5	425	361
75.0	264	244
77.5	237	199
80.0	204	150
82.5	186	120
85.0	171	103
87.5	165	107
90.0	155	104
92.5	153	122
95.0	158	148
97.5	156	166
100.0	153	178
102.5	152	183
105.0	155	185
107.5	160	183
110.0	164	178
112.5	165	173
115.0	164	168
117.5	162	164
120.0	159	161
122.5	156	158
125.0	154	155
127.5	150	151
130.0	146	147
132.5	143	143
135.0	140	140
137.5	139	139
140.0	134	135
142.5	113	114
145.0	87	89
147.5	62	63
150.0	40	41
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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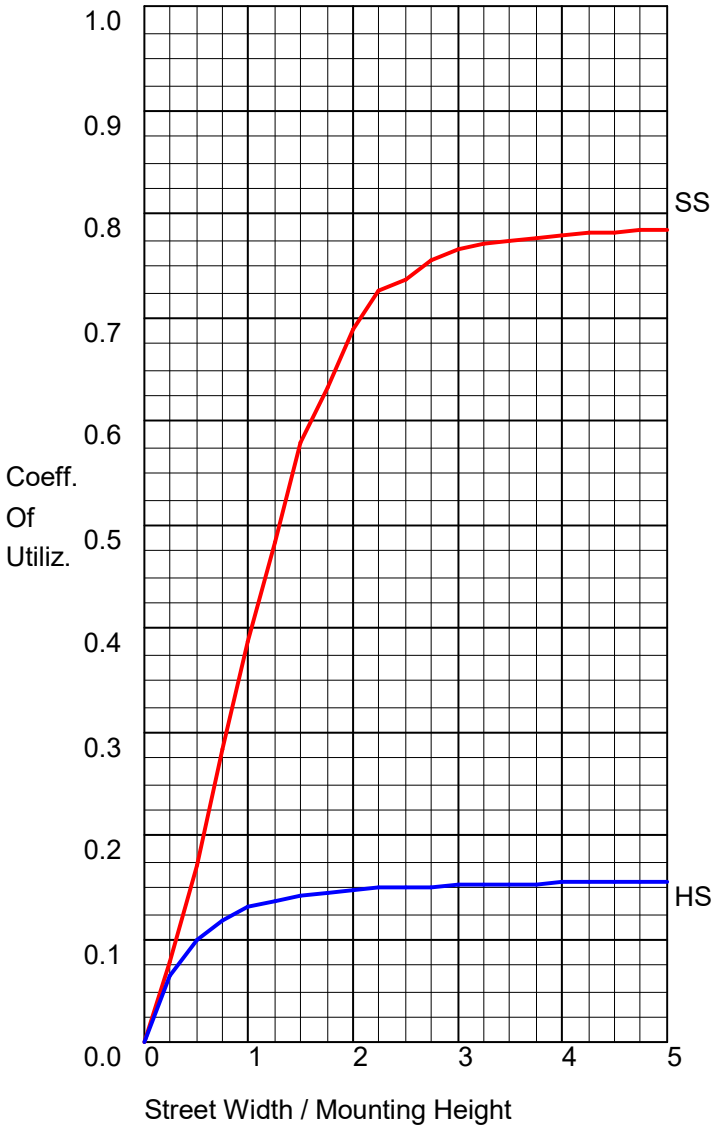
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15266.2	79.4
Downward House Side	3099.7	16.1
Downward Total	18365.9	95.5
Upward Street Side	383.4	2.0
Upward House Side	489.3	2.5
Upward Total	872.7	4.5
Total Flux	19238.6	100.0

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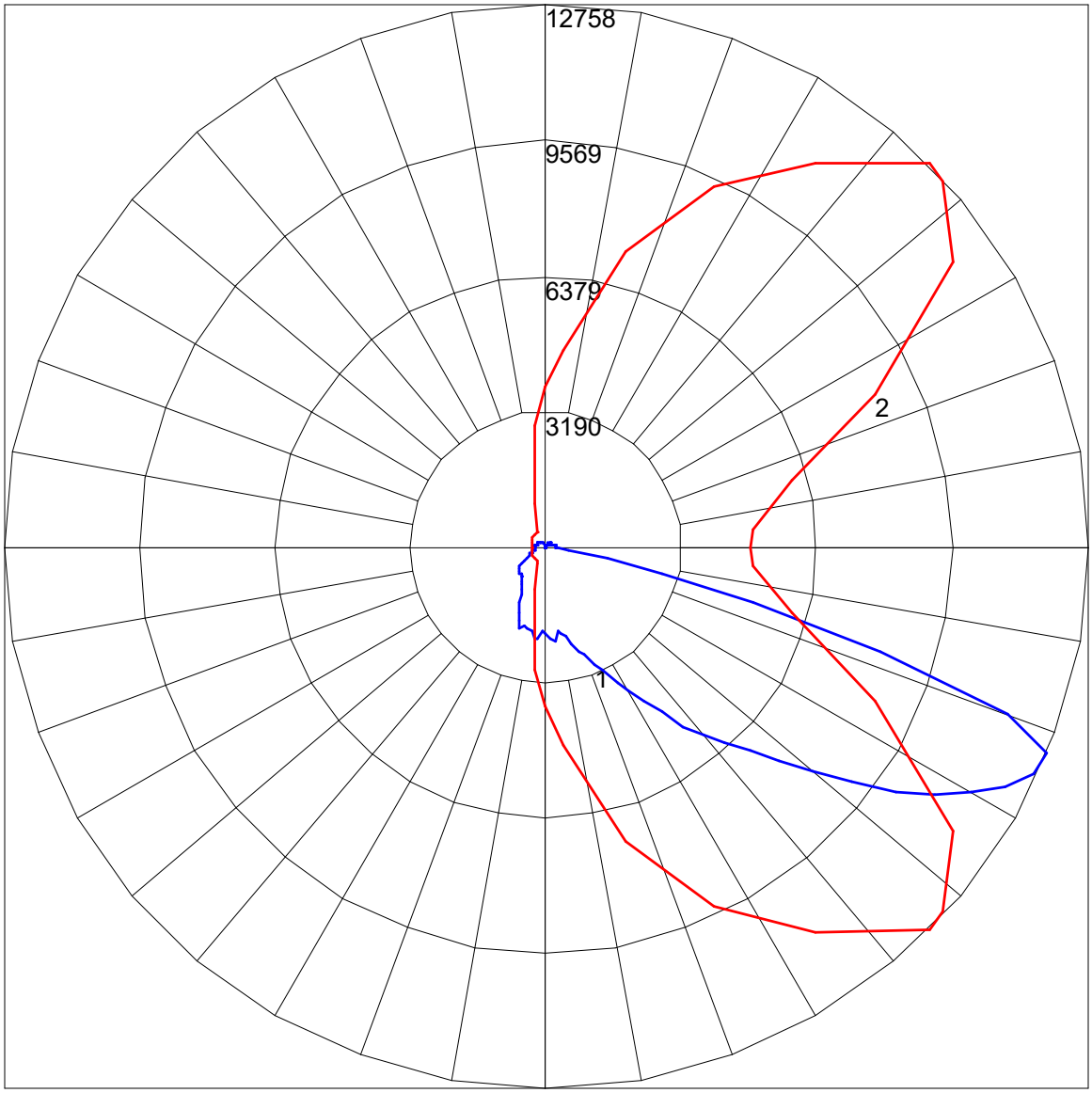
POLAR GRAPH



Maximum Candela = 12758 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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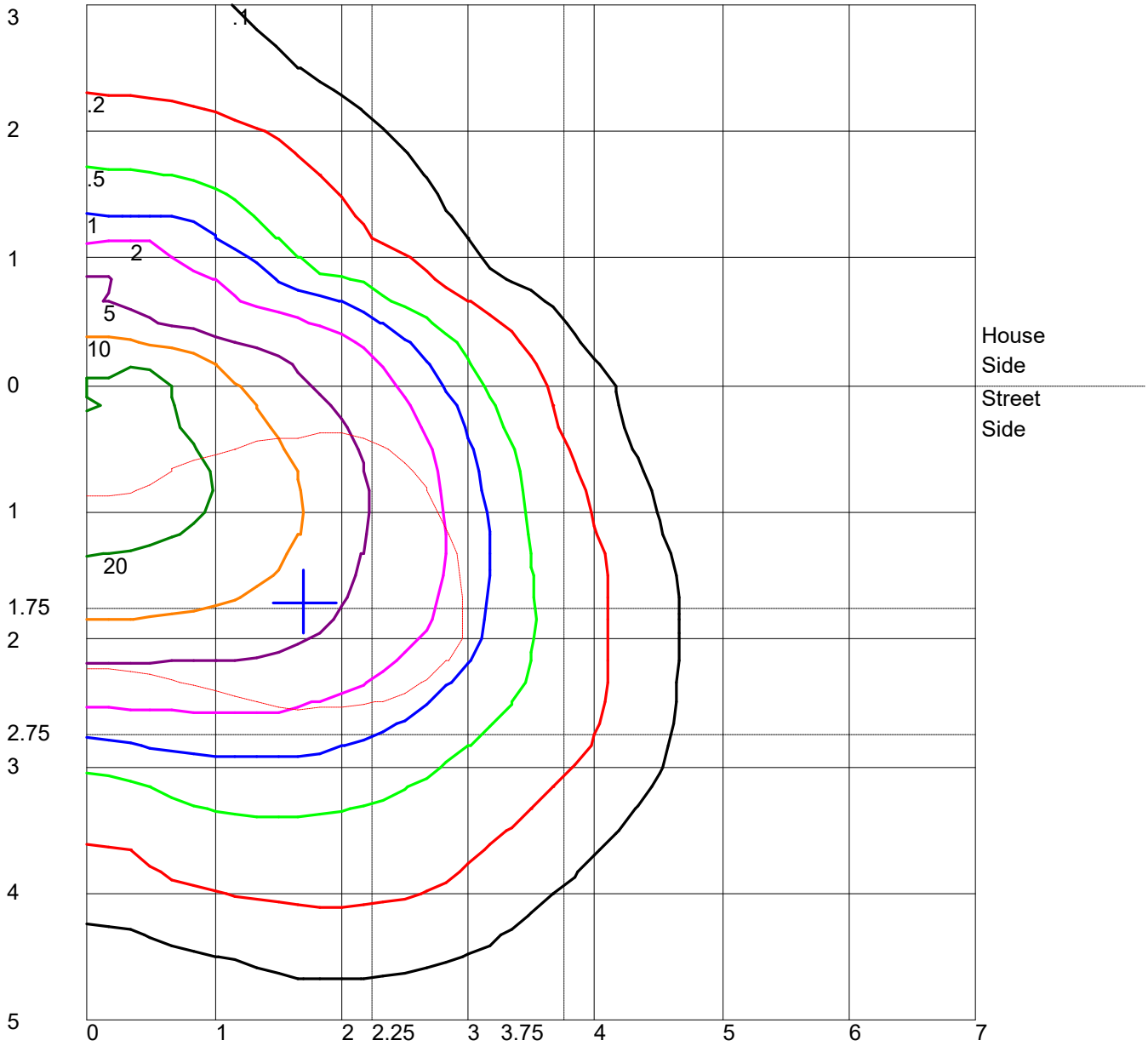
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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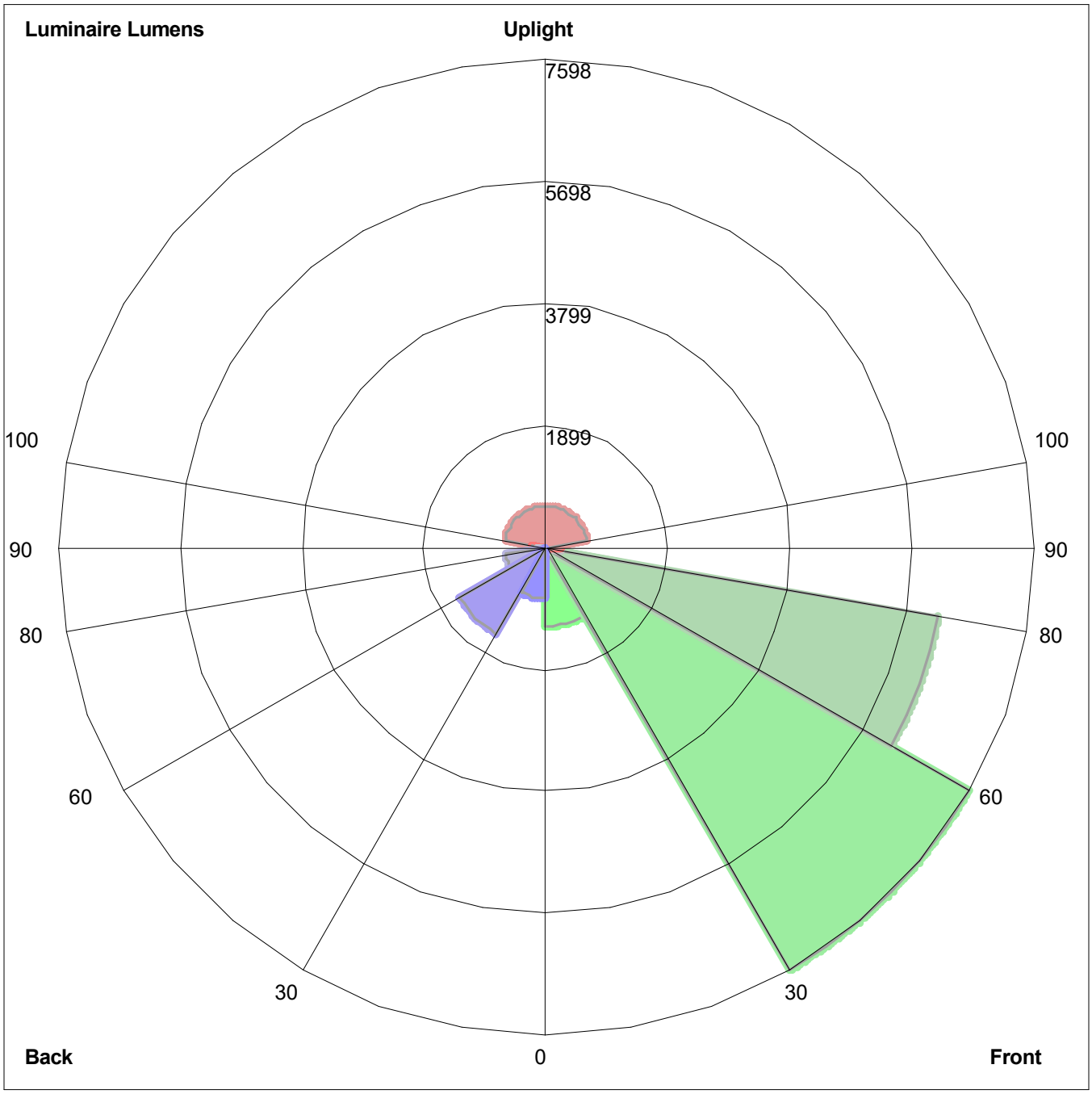
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1221.8, Medium=7597.7, High=6206.2, Very High=240.5
Back: Low=792.1, Medium= 1541.0, High=628.1, Very High=138.4
Uplight: Low=231.5, High=641.2

BUG Rating : B2-U4-G3

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