IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-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-15L-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	11083
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	7350
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	7350
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	159 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	854 (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)	703.8	N.A.	6.4
FM - Front-Medium (30-60)	4376.7	N.A.	39.5
FH - Front-High (60-80)	3575.0	N.A.	32.3
FVH - Front-Very High (80-90)	138.5	N.A.	1.2
BL - Back-Low (0-30)	456.3	N.A.	4.1
BM - Back-Medium (30-60)	887.7	N.A.	8.0
BH - Back-High (60-80)	361.8	N.A.	3.3
BVH - Back-Very High (80-90)	79.7	N.A.	0.7
UL - Uplight-Low (90-100)	133.4	N.A.	1.2
UH - Uplight-High (100-180)	369.7	N.A.	3.3
Total	11082.6	N.A.	100.0
BUG Rating	B1-U3-G2		

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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	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192
2.5	1245	1250	1252	1248	1251	1245	1247	1236	1230	1227
5.0	1149	1133	1154	1218	1270	1285	1295	1289	1278	1254
7.5	1173	1174	1162	1179	1193	1165	1163	1211	1285	1271
10.0	1168	1156	1182	1195	1198	1202	1206	1225	1240	1308
12.5	1214	1256	1282	1261	1260	1249	1234	1250	1258	1408
15.0	1301	1299	1344	1307	1365	1348	1354	1350	1377	1412
17.5	1454	1439	1475	1467	1421	1441	1480	1451	1487	1504
20.0	1602	1625	1602	1580	1635	1545	1546	1609	1608	1586
22.5	1766	1759	1808	1781	1730	1723	1732	1694	1700	1724
25.0	2099	2063	2010	1915	1954	1886	1839	1811	1829	1774
27.5	2249	2291	2199	2179	2108	2098	2087	1957	1882	1899
30.0	2600	2620	2590	2386	2333	2292	2238	2106	1979	1974
32.5	2822	2823	2774	2702	2611	2526	2470	2292	2124	2055
35.0	3041	3022	2964	2897	2892	2811	2747	2457	2229	2101
37.5	3292	3237	3169	3118	3086	3107	3072	2684	2352	2132
40.0	3567	3486	3421	3375	3315	3358	3341	2933	2526	2155
42.5	3852	3802	3708	3672	3606	3643	3597	3292	2650	2185
45.0	4193	4153	4064	4026	3946	3946	3915	3625	2859	2395
47.5	4663	4588	4510	4458	4359	4301	4301	3974	3107	2606
50.0	5100	5057	5016	4986	4846	4781	4748	4384	3489	2829
52.5	5350	5354	5376	5498	5387	5281	5247	4920	3964	3125
55.0	5437	5470	5539	5821	5894	5823	5783	5446	4495	3373
57.5	5441	5491	5621	6011	6269	6375	6258	5952	4970	3523
60.0	5398	5462	5658	6149	6512	6739	6681	6431	5294	3755
62.5	5170	5255	5570	6256	6706	6931	7033	6787	5444	4197
65.0	4150	4256	4823	6015	6927	7181	7288	6717	5462	4284
67.5	2790	2814	3469	4921	6738	7325	7350	6369	5390	4141
70.0	1488	1647	2213	3399	5346	6542	6660	5935	4930	3543
72.5	783	872	1487	2177	3359	4346	4743	5212	3880	2316
75.0	563	602	1152	1688	2255	2729	2895	3279	2043	1101
77.5	436	464	671	1151	1653	1586	1619	1744	1140	675
80.0	329	356	480	617	815	842	854	852	601	481
82.5	258	281	373	463	425	339	316	268	258	347
85.0	205	218	292	280	183	157	153	158	177	212
87.5	110	117	139	116	109	117	120	129	140	160
90.0	44	52	73	87	100	110	113	122	131	143
92.5	50	55	76	89	102	113	116	123	134	143
95.0	56	58	77	92	103	113	117	123	135	141
97.5	63	61	79	93	105	114	118	122	132	120
100.0	69	65	81	95	106	115	117	119	123	91
102.5	73	68	82	97	107	115	117	115	108	78
105.0	76	72	83	99	108	113	115	106	93	72
107.5	79	76	84	101	109	112	111	95	82	72
110.0	82	79	86	102	109	106	103	84	71	71
112.5	84	82	86	102	105	98	93	77	66	69
115.0	86	85	87	101	99	90	86	73	64	68
117.5	87	87	87	96	92	84	81	70	63	68
120.0	89	89	86	91	87	80	78	69	62	66
122.5	89	87	83	85	83	78	76	68	63	65
125.0	87	86	80	80	80	77	75	68	63	65
127.5	83	83	79	78	79	76	75	69	65	65
130.0	82	81	78	76	78	76	76	70	66	68

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CANDELA TABULATION - (Cont.)

132.5	80	80	77	76	78	76	75	68	66	69
135.0	80	80	79	76	74	70	68	63	66	70
137.5	80	80	76	69	63	59	58	57	62	69
140.0	71	70	65	58	50	46	45	48	53	61
142.5	58	58	53	45	36	34	34	37	43	51
145.0	43	43	39	31	26	25	25	26	32	39
147.5	29	29	27	22	17	13	12	15	22	28
150.0	21	20	19	13	5	4	5	8	12	17
152.5	11	9	6	4	2	2	2	4	6	9
155.0	3	3	2	1	1	2	2	2	4	5
157.5	1	1	1	1	1	1	2	2	2	4
160.0	1	1	1	1	1	1	1	2	2	2
162.5	0	1	1	1	1	1	1	2	2	2
165.0	1	1	1	1	1	1	2	2	2	2
167.5	1	1	1	1	1	1	1	2	2	2
170.0	1	1	1	1	1	1	1	2	2	2
172.5	1	1	1	1	1	2	2	2	2	2
175.0	1	1	1	1	1	2	2	2	2	2
177.5	1	1	1	1	1	2	2	2	2	2
180.0	2	2	2	2	2	2	2	2	2	2

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	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192
2.5	1218	1206	1200	1175	1165	1162	1157	1156	1160	1161
5.0	1248	1208	1190	1177	1234	1258	1252	1245	1244	1229
7.5	1259	1240	1202	1232	1262	1277	1258	1197	1131	1117
10.0	1314	1277	1225	1282	1262	1229	1153	1149	1108	1106
12.5	1428	1382	1313	1373	1289	1185	1133	1103	1079	1077
15.0	1507	1451	1378	1446	1282	1208	1123	1111	1071	1025
17.5	1599	1552	1508	1519	1349	1226	1172	1045	935	877
20.0	1682	1641	1619	1542	1389	1213	1069	912	817	739
22.5	1821	1754	1749	1604	1379	1198	948	803	668	612
25.0	1870	1859	1817	1645	1361	1090	831	665	587	544
27.5	1979	1925	1910	1700	1312	961	713	602	523	493
30.0	2029	1968	1970	1764	1225	848	650	542	491	472
32.5	2044	1973	1965	1740	1110	759	596	508	468	491
35.0	2047	1966	1987	1655	972	698	557	485	485	509
37.5	2068	1979	2002	1567	850	643	526	490	490	550
40.0	2105	2023	1996	1465	772	597	515	481	514	623
42.5	2091	2011	2007	1349	724	561	514	476	550	780
45.0	2177	2012	2048	1255	670	564	509	465	590	796
47.5	2218	2093	2001	1185	615	581	494	451	608	505
50.0	2318	2178	2002	1170	590	576	476	430	520	353
52.5	2479	2229	2052	1154	590	558	453	413	417	298
55.0	2658	2353	2090	1181	607	512	417	382	337	270
57.5	2718	2328	2058	1111	568	446	362	343	294	252
60.0	2822	2425	2067	1097	476	357	306	295	262	235
62.5	2964	2442	2041	1072	353	282	260	257	237	216
65.0	2912	2394	1909	914	272	244	235	232	214	197
67.5	2691	2165	1665	609	238	225	219	214	191	180
70.0	2175	1618	1143	377	223	213	206	190	174	200
72.5	1266	931	664	245	208	202	188	177	205	248
75.0	617	553	416	213	195	184	175	184	181	170
77.5	412	377	238	201	181	169	167	158	153	154

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CANDELA TABULATION - (Cont.)

80.0	323	282	187	191	166	162	166	153	145	142
82.5	262	218	151	179	160	156	157	151	144	139
85.0	214	144	141	166	155	146	156	151	144	138
87.5	176	72	154	160	152	144	157	152	146	138
90.0	121	63	150	159	153	146	159	153	147	138
92.5	81	113	139	163	157	148	162	157	151	141
95.0	79	141	133	160	156	142	160	157	153	145
97.5	105	140	128	150	149	129	153	152	151	142
100.0	110	131	124	136	141	124	146	147	148	137
102.5	106	120	118	122	133	122	141	143	144	131
105.0	99	110	109	110	123	120	136	140	141	123
107.5	92	100	102	102	114	117	132	138	139	115
110.0	87	93	95	96	106	113	129	136	135	106
112.5	82	88	90	92	99	110	126	134	131	98
115.0	78	83	86	90	95	107	122	131	127	92
117.5	75	80	82	88	92	105	119	127	120	87
120.0	73	77	80	86	90	103	116	122	112	86
122.5	70	74	77	84	90	102	112	116	103	83
125.0	69	72	75	82	89	100	109	110	94	82
127.5	69	71	75	82	89	99	106	103	87	82
130.0	70	72	76	83	89	99	102	97	82	81
132.5	71	73	77	83	87	95	98	91	78	80
135.0	74	76	79	84	85	87	90	85	77	79
137.5	75	77	80	82	80	75	75	73	76	79
140.0	69	72	73	72	68	62	57	59	66	74
142.5	59	61	62	59	54	47	41	44	53	60
145.0	45	47	47	45	39	33	29	31	39	46
147.5	31	32	32	31	27	22	19	23	28	32
150.0	19	20	20	19	15	10	9	15	19	22
152.5	11	11	11	10	8	6	5	6	11	15
155.0	6	6	6	6	5	4	3	4	4	5
157.5	4	4	4	4	4	4	3	2	2	1
160.0	3	4	4	4	4	4	2	2	1	1
162.5	3	3	4	4	4	3	2	2	1	0
165.0	3	3	4	4	4	3	2	2	1	0
167.5	3	3	3	4	4	3	2	2	1	0
170.0	3	3	3	4	3	3	2	2	1	0
172.5	3	3	3	3	3	3	2	2	1	0
175.0	3	3	3	3	3	2	2	1	1	0
177.5	3	3	3	3	3	2	2	1	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1192	1192
2.5	1167	1170
5.0	1227	1240
7.5	1101	1101
10.0	1096	1119
12.5	1069	1062
15.0	990	1014
17.5	853	848
20.0	701	699
22.5	585	578
25.0	519	516

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CANDELA TABULATION - (Cont.)

27.5	491	490
30.0	476	476
32.5	505	508
35.0	538	539
37.5	593	597
40.0	683	697
42.5	844	809
45.0	497	475
47.5	361	359
50.0	309	307
52.5	278	279
55.0	258	261
57.5	239	241
60.0	218	220
62.5	200	201
65.0	183	187
67.5	171	174
70.0	217	217
72.5	245	208
75.0	153	141
77.5	137	115
80.0	117	87
82.5	107	69
85.0	98	59
87.5	95	62
90.0	90	60
92.5	89	70
95.0	92	86
97.5	90	95
100.0	89	102
102.5	88	105
105.0	90	106
107.5	92	105
110.0	94	102
112.5	95	99
115.0	94	96
117.5	93	94
120.0	92	92
122.5	90	92
125.0	89	90
127.5	87	87
130.0	84	85
132.5	83	83
135.0	81	81
137.5	80	80
140.0	77	78
142.5	65	66
145.0	50	51
147.5	35	36
150.0	23	24
152.5	16	16
155.0	7	7
157.5	1	1
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	2	2

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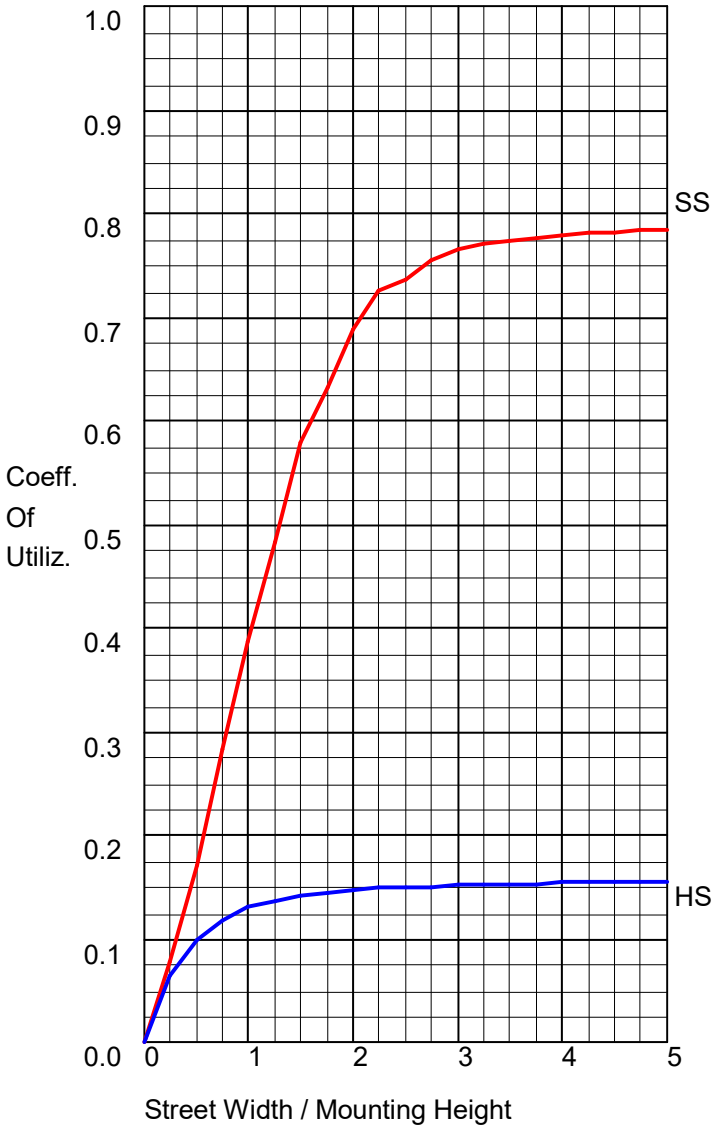
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8794.0	79.3
Downward House Side	1785.5	16.1
Downward Total	10579.5	95.5
Upward Street Side	221.0	2.0
Upward House Side	282.1	2.5
Upward Total	503.1	4.5
Total Flux	11082.6	100.0

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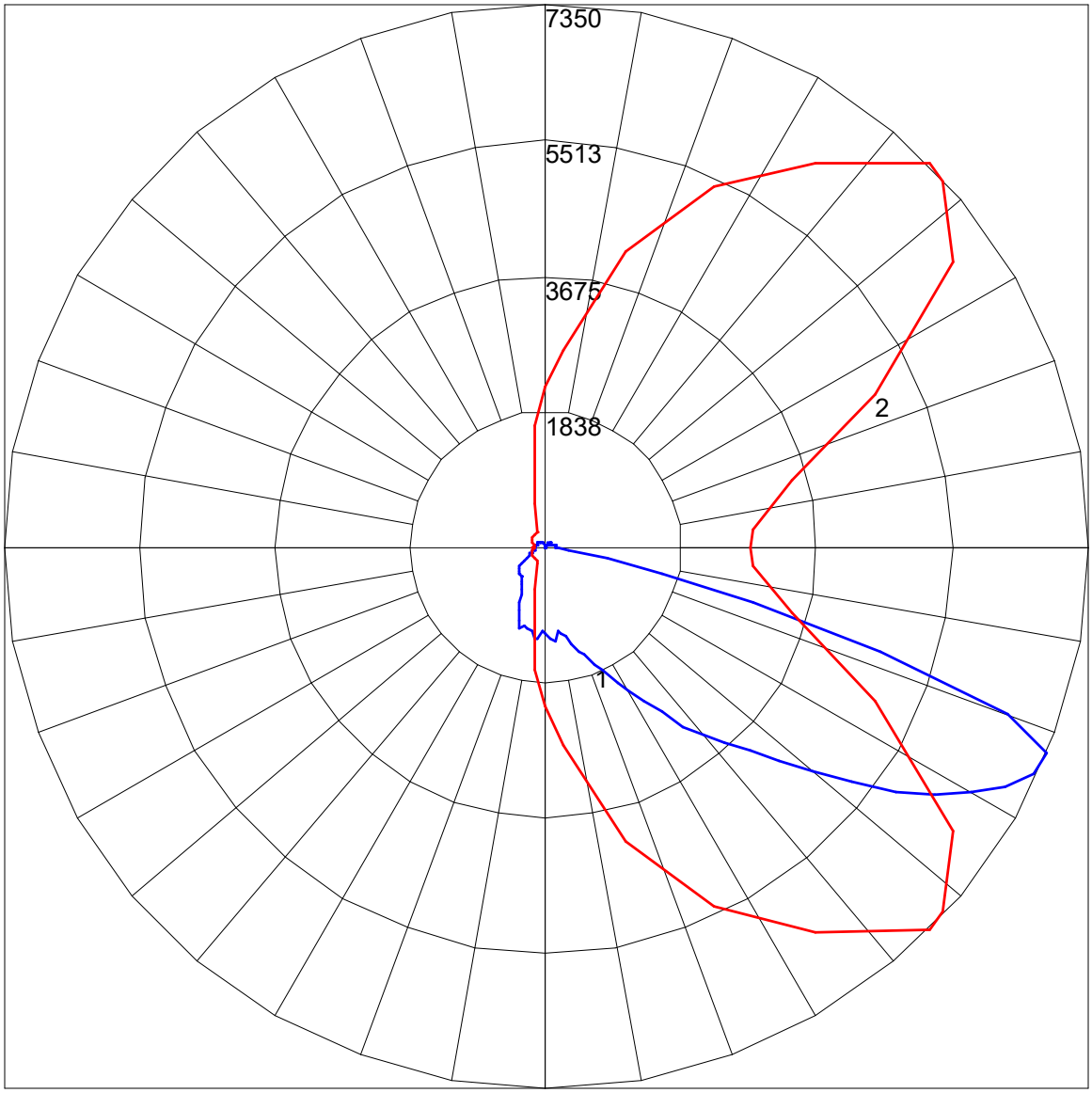
POLAR GRAPH



Maximum Candela = 7350 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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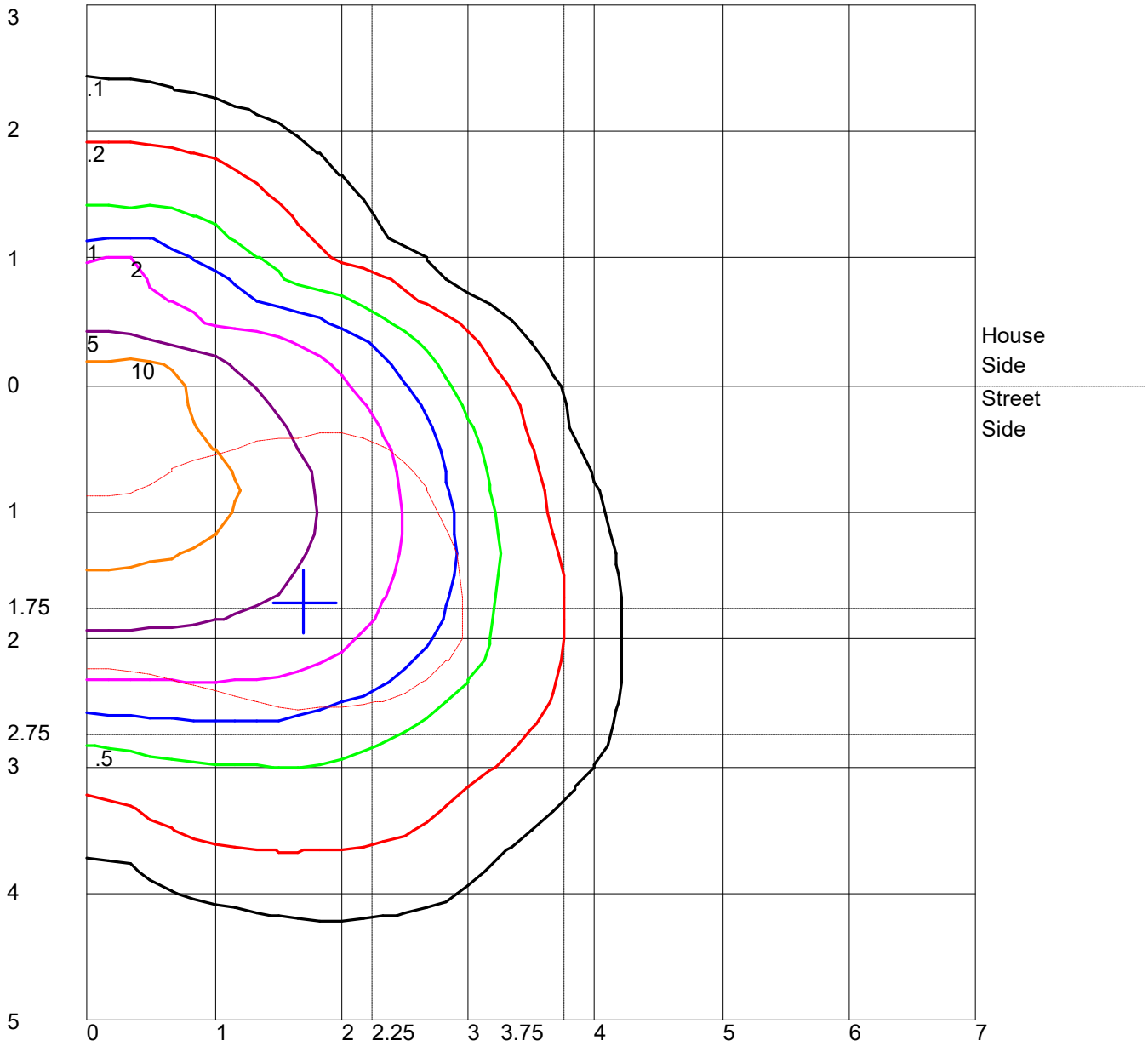
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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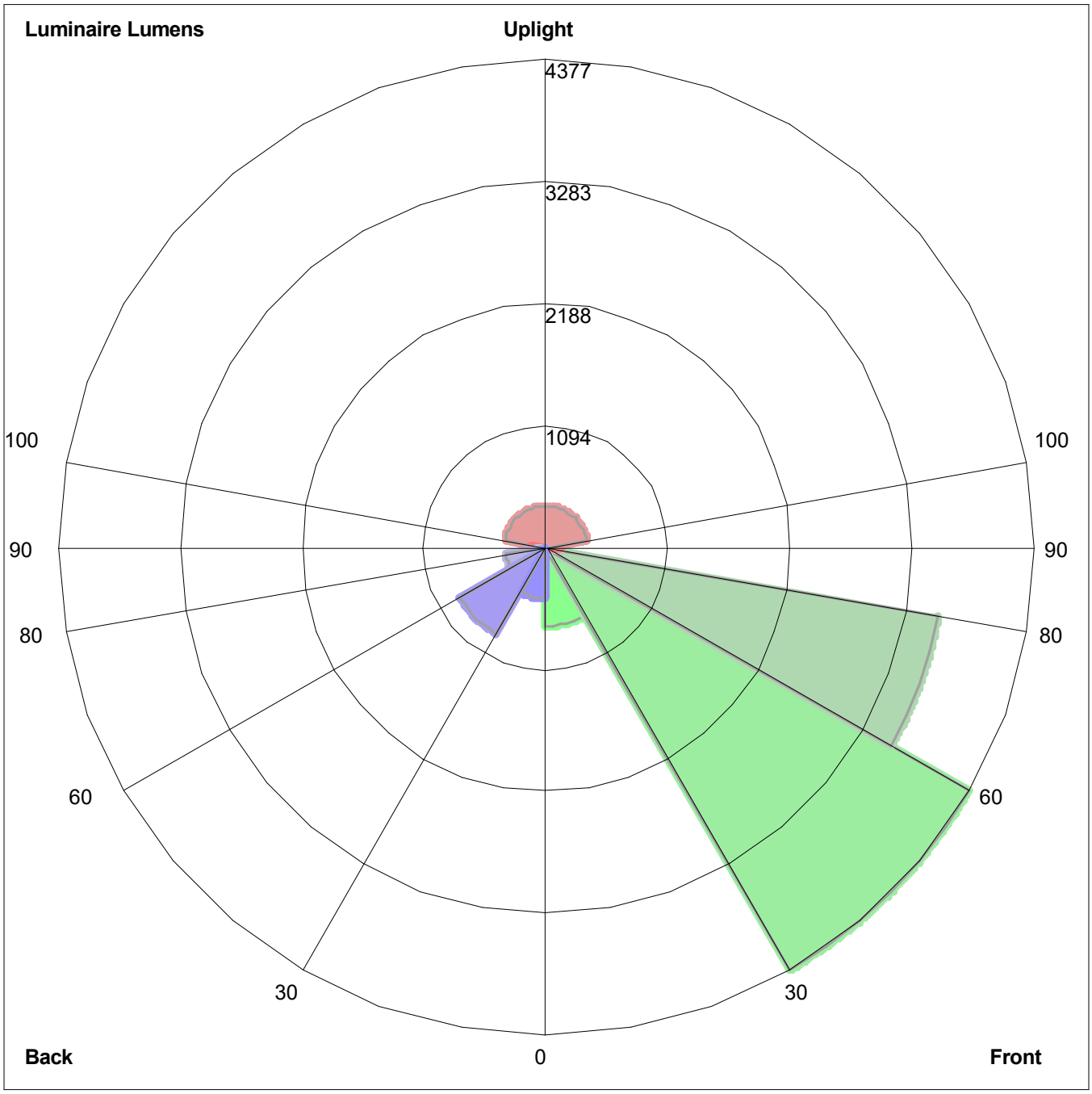
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=703.8, Medium=4376.7, High= 3575.0, Very High=138.5
Back: Low=456.3, Medium=887.7, High=361.8, Very High=79.7
Uplight: Low=133.4, High=369.7

BUG Rating : B1-U3-G2

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