IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-FT-30-70CRI-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-30-70CRI-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] 3000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10814
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	7172
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	7172
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	156 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	833 (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)	686.8	N.A.	6.4
FM - Front-Medium (30-60)	4270.8	N.A.	39.5
FH - Front-High (60-80)	3488.6	N.A.	32.3
FVH - Front-Very High (80-90)	135.2	N.A.	1.2
BL - Back-Low (0-30)	445.3	N.A.	4.1
BM - Back-Medium (30-60)	866.3	N.A.	8.0
BH - Back-High (60-80)	353.1	N.A.	3.3
BVH - Back-Very High (80-90)	77.8	N.A.	0.7
UL - Uplight-Low (90-100)	130.1	N.A.	1.2
UH - Uplight-High (100-180)	360.4	N.A.	3.3
Total	10814.4	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	1163	1163	1163	1163	1163	1163	1163	1163	1163	1163
2.5	1215	1219	1221	1217	1220	1215	1216	1206	1200	1197
5.0	1121	1106	1126	1189	1239	1254	1263	1258	1247	1224
7.5	1144	1145	1134	1150	1165	1137	1135	1182	1254	1240
10.0	1140	1128	1153	1167	1169	1173	1177	1195	1210	1276
12.5	1185	1226	1251	1231	1230	1218	1204	1219	1228	1374
15.0	1269	1267	1311	1275	1332	1315	1321	1317	1344	1378
17.5	1419	1405	1439	1432	1386	1407	1444	1416	1451	1468
20.0	1563	1586	1563	1542	1596	1507	1508	1570	1569	1548
22.5	1723	1717	1765	1738	1688	1681	1690	1653	1659	1682
25.0	2048	2013	1961	1868	1907	1841	1794	1768	1785	1731
27.5	2195	2235	2146	2127	2057	2047	2036	1910	1837	1853
30.0	2538	2557	2527	2328	2276	2237	2184	2055	1931	1926
32.5	2754	2755	2707	2636	2548	2465	2410	2236	2073	2006
35.0	2968	2948	2893	2827	2822	2743	2681	2397	2175	2050
37.5	3212	3159	3092	3043	3011	3032	2997	2619	2295	2081
40.0	3480	3402	3338	3293	3235	3277	3260	2862	2465	2103
42.5	3759	3710	3619	3583	3519	3555	3510	3212	2586	2132
45.0	4092	4053	3966	3929	3851	3851	3820	3537	2790	2337
47.5	4550	4477	4401	4350	4253	4197	4197	3878	3032	2543
50.0	4976	4935	4895	4866	4728	4665	4633	4278	3405	2760
52.5	5221	5225	5246	5365	5257	5153	5120	4800	3868	3049
55.0	5306	5338	5405	5680	5751	5682	5643	5314	4387	3291
57.5	5309	5358	5485	5865	6118	6220	6106	5808	4849	3438
60.0	5267	5330	5522	6001	6355	6576	6519	6275	5166	3664
62.5	5045	5128	5435	6104	6544	6763	6863	6623	5312	4096
65.0	4050	4153	4706	5869	6759	7007	7111	6555	5330	4180
67.5	2723	2746	3385	4802	6575	7148	7172	6215	5259	4041
70.0	1452	1607	2159	3317	5216	6384	6499	5791	4811	3457
72.5	764	851	1451	2125	3278	4241	4629	5086	3786	2260
75.0	549	588	1124	1648	2201	2663	2825	3200	1993	1074
77.5	425	453	655	1123	1613	1548	1580	1702	1113	659
80.0	321	348	469	602	795	822	833	831	587	469
82.5	252	275	364	452	415	331	308	261	252	339
85.0	200	213	285	274	179	154	150	155	173	206
87.5	108	114	135	113	107	114	117	126	136	156
90.0	43	51	71	84	98	108	110	119	128	139
92.5	49	54	74	86	100	110	113	120	131	139
95.0	55	57	75	89	101	110	114	120	132	137
97.5	61	60	77	91	103	111	115	119	129	117
100.0	67	63	79	93	104	112	114	116	120	88
102.5	71	66	80	95	105	112	114	112	106	76
105.0	74	70	81	97	106	110	112	104	91	70
107.5	77	74	82	99	107	109	108	93	80	70
110.0	80	77	84	100	107	104	101	82	69	69
112.5	82	80	84	100	103	96	91	75	64	67
115.0	84	83	84	99	97	87	84	71	62	66
117.5	84	84	84	94	90	82	79	68	61	66
120.0	86	86	84	88	84	78	76	67	60	64
122.5	86	84	81	83	81	76	74	66	61	63
125.0	84	84	78	78	78	75	73	66	61	63
127.5	81	81	77	76	77	74	73	67	63	63
130.0	80	79	76	74	76	74	74	68	64	66

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CANDELA TABULATION - (Cont.)

132.5	78	78	75	74	76	74	73	66	64	67
135.0	78	78	77	74	72	68	66	61	64	68
137.5	78	78	74	67	61	58	57	56	60	67
140.0	69	68	63	57	49	45	44	47	52	60
142.5	57	57	52	44	36	34	34	36	42	50
145.0	42	42	38	31	25	24	24	25	32	38
147.5	28	28	26	21	16	12	12	14	21	27
150.0	20	19	18	12	5	4	5	8	12	16
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	1163	1163	1163	1163	1163	1163	1163	1163	1163	1163
2.5	1189	1177	1171	1146	1137	1134	1129	1128	1132	1133
5.0	1217	1179	1161	1148	1204	1228	1221	1215	1214	1199
7.5	1229	1210	1173	1202	1232	1246	1228	1168	1104	1090
10.0	1283	1246	1195	1251	1232	1199	1125	1121	1081	1079
12.5	1393	1349	1281	1339	1258	1156	1106	1076	1053	1051
15.0	1471	1416	1345	1411	1251	1179	1095	1084	1046	1000
17.5	1560	1514	1472	1482	1316	1196	1143	1020	912	855
20.0	1642	1601	1579	1504	1356	1184	1044	890	797	721
22.5	1777	1712	1707	1565	1346	1169	926	783	652	597
25.0	1825	1814	1773	1605	1328	1064	811	649	573	531
27.5	1931	1879	1864	1659	1280	938	696	588	511	481
30.0	1980	1920	1922	1721	1195	828	635	529	479	461
32.5	1994	1925	1917	1697	1083	740	582	495	457	479
35.0	1997	1918	1939	1615	949	681	543	473	473	496
37.5	2018	1931	1954	1529	830	628	514	478	478	537
40.0	2054	1974	1948	1430	754	583	502	469	501	608
42.5	2040	1962	1959	1316	707	547	501	465	537	761
45.0	2125	1963	1999	1225	654	550	496	454	576	777
47.5	2164	2042	1953	1156	600	567	482	440	593	493
50.0	2262	2126	1954	1142	576	562	465	420	508	345
52.5	2419	2175	2003	1126	576	544	442	403	407	291
55.0	2594	2297	2039	1152	592	499	407	373	329	263
57.5	2652	2272	2009	1084	554	435	353	335	287	246
60.0	2754	2367	2017	1071	465	349	299	288	255	229
62.5	2892	2383	1991	1047	345	276	253	251	231	211
65.0	2842	2336	1863	892	265	238	229	227	208	192
67.5	2626	2112	1624	594	232	220	214	208	186	176
70.0	2123	1578	1116	368	218	207	201	185	170	195
72.5	1236	908	648	239	203	197	183	173	200	242
75.0	602	540	406	207	190	180	171	180	177	166
77.5	402	368	232	196	177	165	163	155	150	151

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CANDELA TABULATION - (Cont.)

80.0	315	276	182	186	162	158	162	149	141	138
82.5	255	213	147	175	156	153	154	147	140	135
85.0	209	140	137	162	152	142	153	147	140	134
87.5	172	70	151	156	148	140	154	148	142	134
90.0	118	61	146	156	149	142	156	150	143	134
92.5	79	110	135	159	154	144	158	154	147	137
95.0	77	137	130	156	153	138	156	154	150	141
97.5	103	136	125	146	145	126	149	148	147	138
100.0	108	128	121	132	137	121	142	143	144	133
102.5	104	117	115	119	130	119	137	139	140	128
105.0	97	108	107	108	120	117	132	136	137	120
107.5	90	98	100	100	111	114	129	134	135	112
110.0	84	91	93	94	104	110	126	132	132	104
112.5	80	85	87	90	97	108	123	131	128	96
115.0	76	81	84	87	93	105	119	128	124	89
117.5	73	78	80	85	90	103	116	124	117	84
120.0	71	75	78	84	87	101	113	119	109	84
122.5	68	72	75	82	87	100	109	113	101	81
125.0	67	70	73	80	86	98	107	108	92	80
127.5	67	69	73	80	86	97	104	101	84	80
130.0	68	70	74	81	86	97	100	95	80	79
132.5	69	71	75	81	84	93	96	88	76	78
135.0	72	74	77	82	83	84	87	83	75	77
137.5	73	75	78	80	78	73	73	71	74	77
140.0	67	70	71	70	66	60	56	58	64	72
142.5	58	60	60	58	53	46	40	43	52	59
145.0	44	46	46	44	38	33	28	31	38	45
147.5	31	32	32	31	26	21	18	22	27	32
150.0	18	19	19	18	14	10	9	14	18	21
152.5	11	11	11	10	8	6	5	6	11	14
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	1163	1163
2.5	1139	1142
5.0	1197	1210
7.5	1074	1074
10.0	1070	1092
12.5	1043	1036
15.0	966	990
17.5	832	828
20.0	684	682
22.5	571	564
25.0	506	503

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CANDELA TABULATION - (Cont.)

27.5	479	478
30.0	465	465
32.5	493	495
35.0	525	526
37.5	579	583
40.0	666	680
42.5	824	789
45.0	485	464
47.5	352	350
50.0	301	300
52.5	272	273
55.0	252	254
57.5	233	235
60.0	213	215
62.5	195	196
65.0	179	182
67.5	167	170
70.0	212	212
72.5	239	203
75.0	149	137
77.5	133	112
80.0	114	84
82.5	105	67
85.0	96	58
87.5	93	60
90.0	87	59
92.5	86	68
95.0	89	84
97.5	87	93
100.0	86	100
102.5	85	103
105.0	87	104
107.5	90	103
110.0	92	100
112.5	93	97
115.0	92	94
117.5	91	92
120.0	89	90
122.5	87	89
125.0	86	87
127.5	84	84
130.0	82	83
132.5	81	81
135.0	79	79
137.5	78	78
140.0	75	76
142.5	63	64
145.0	49	50
147.5	35	36
150.0	22	23
152.5	15	15
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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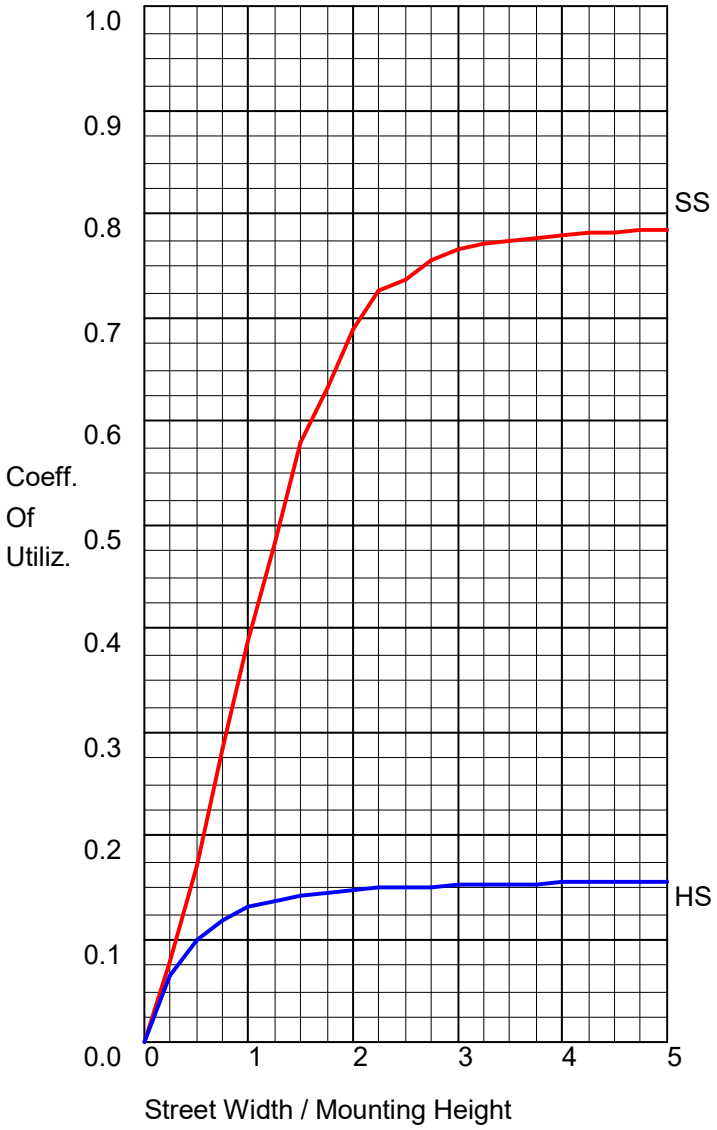
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8581.4	79.4
Downward House Side	1742.4	16.1
Downward Total	10323.8	95.5
Upward Street Side	215.5	2.0
Upward House Side	275.0	2.5
Upward Total	490.5	4.5
Total Flux	10814.3	100.0

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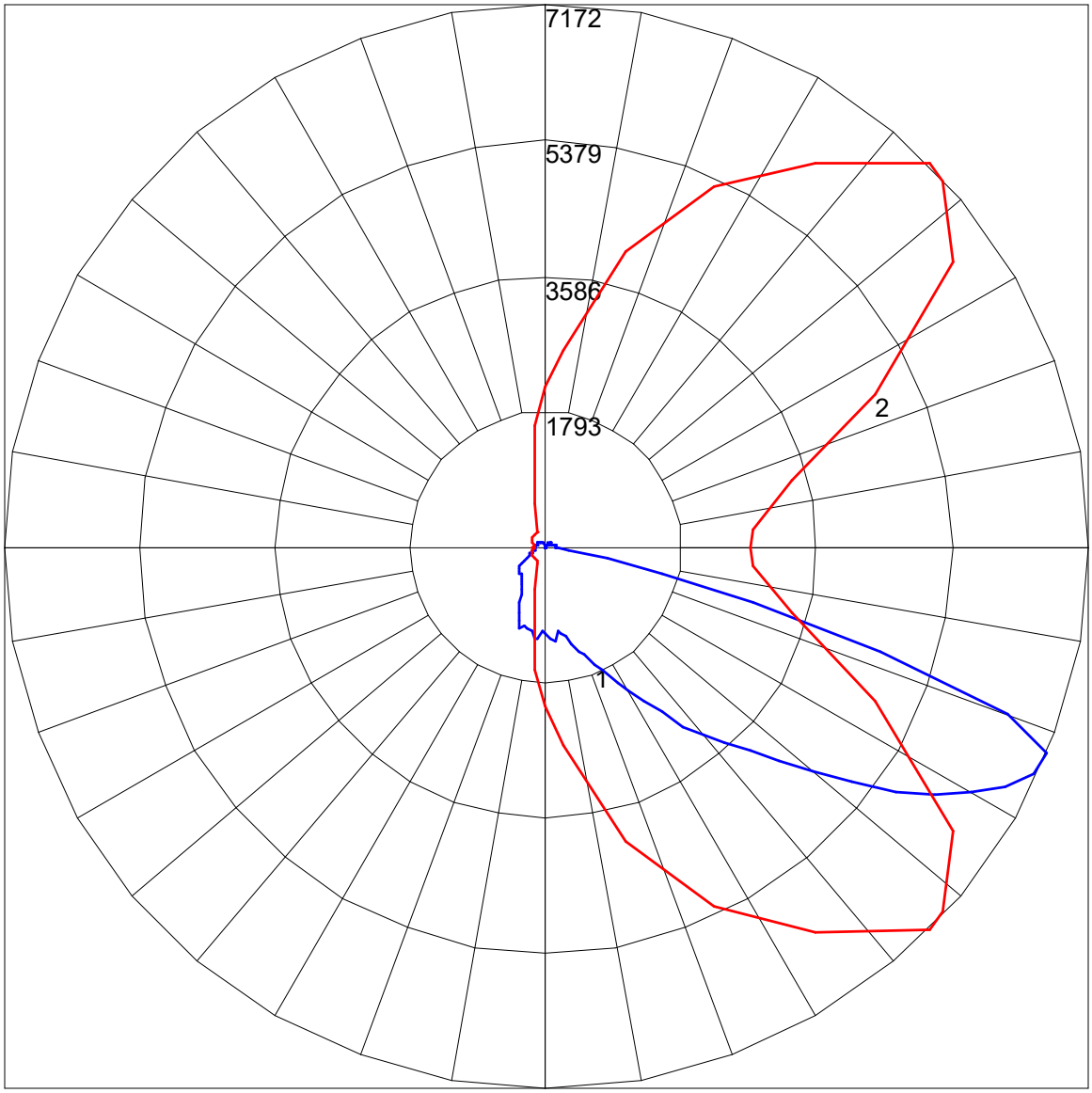
POLAR GRAPH



Maximum Candela = 7172 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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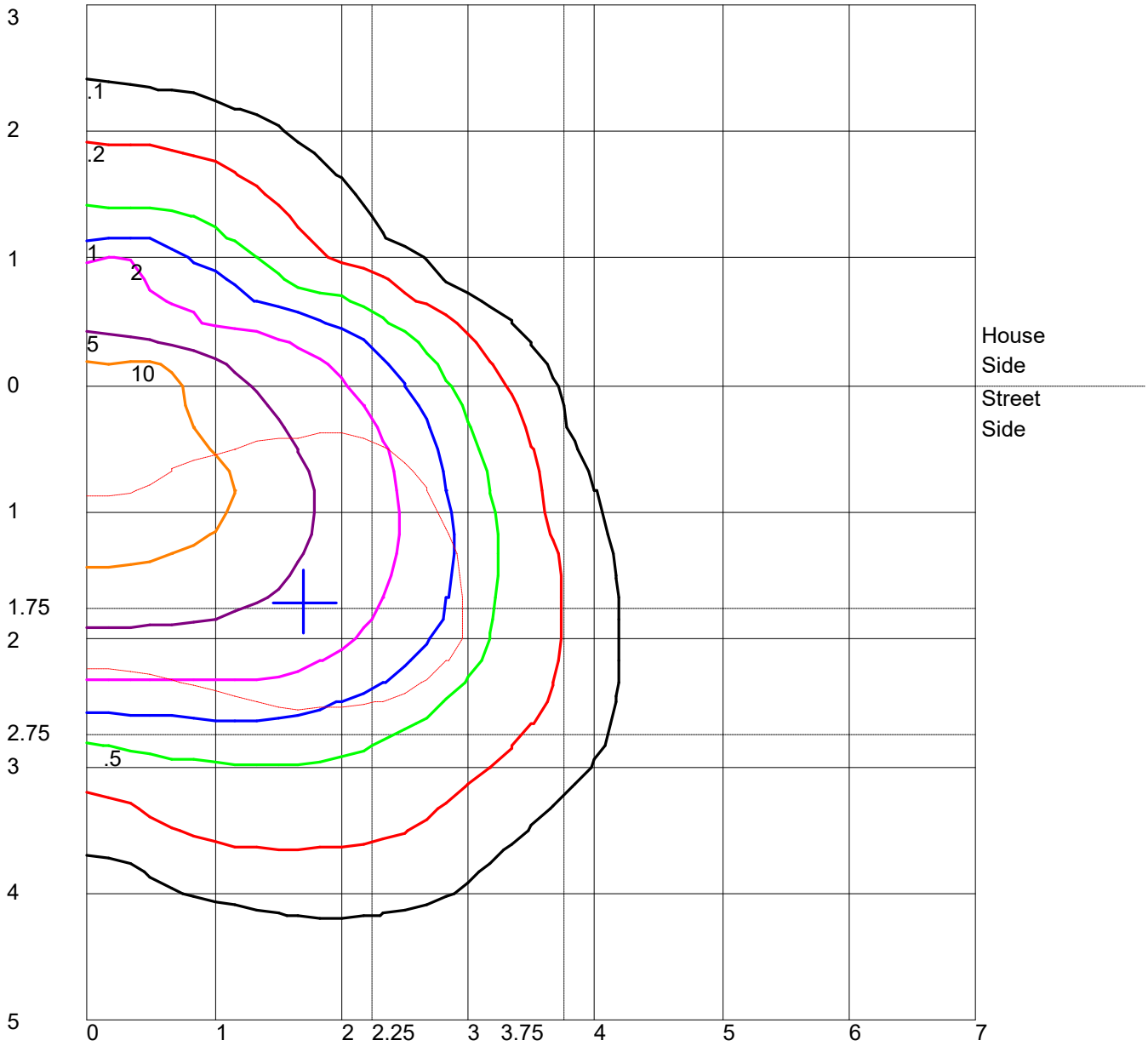
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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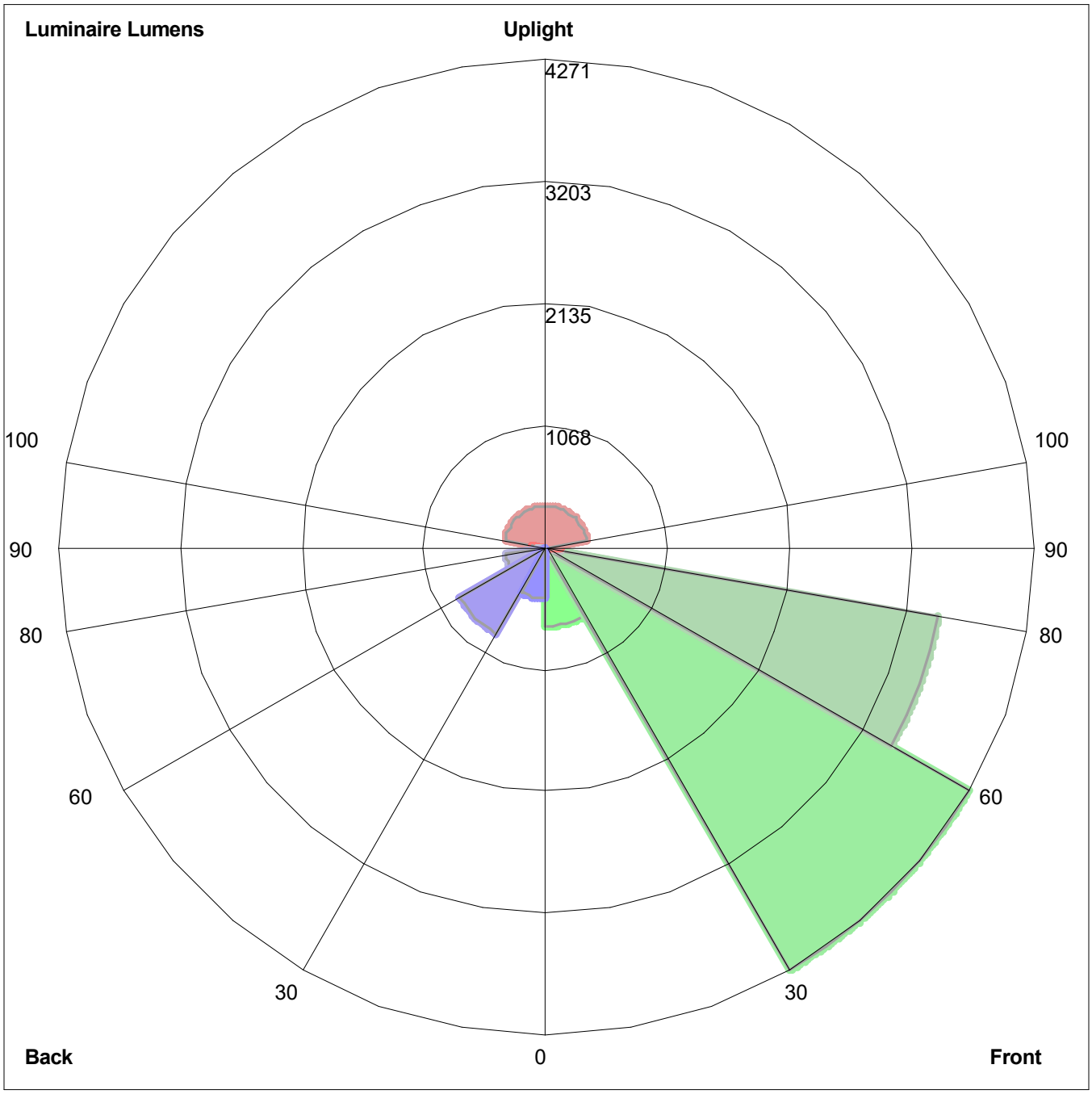
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=686.8, Medium=4270.8, High=3488.6, Very High=135.2
Back: Low=445.3, Medium=866.3, High=353.1, Very High=77.8
Uplight: Low=130.1, High=360.4

BUG Rating : B1-U3-G2

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