IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-3-30-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12570
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-15L-SIL-3-30-70CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[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	15181
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	11347
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	11347
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	223 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	862 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	592.8	N.A.	3.9
FM - Front-Medium (30-60)	5671.3	N.A.	37.4
FH - Front-High (60-80)	4552.9	N.A.	30.0
FVH - Front-Very High (80-90)	179.0	N.A.	1.2
BL - Back-Low (0-30)	542.2	N.A.	3.6
BM - Back-Medium (30-60)	1887.3	N.A.	12.4
BH - Back-High (60-80)	1020.7	N.A.	6.7
BVH - Back-Very High (80-90)	161.9	N.A.	1.1
UL - Uplight-Low (90-100)	171.4	N.A.	1.1
UH - Uplight-High (100-180)	401.2	N.A.	2.6
Total	15180.7	N.A.	100.0
BUG Rating	B3-U3-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	915	915	915	915	915	915	915	915	915	915
2.5	930	929	935	942	941	938	930	936	925	918
5.0	893	895	901	927	943	948	945	952	950	945
7.5	883	889	872	889	891	895	908	933	951	953
10.0	869	867	879	885	899	907	910	907	947	965
12.5	891	904	908	911	910	908	917	932	938	1030
15.0	921	924	936	934	964	954	949	964	1008	1056
17.5	1025	1028	1048	1025	1033	1069	1077	1047	1089	1107
20.0	1135	1153	1177	1171	1219	1169	1195	1218	1214	1193
22.5	1385	1409	1440	1436	1420	1418	1385	1392	1375	1377
25.0	1765	1807	1741	1708	1747	1680	1658	1612	1619	1536
27.5	2254	2306	2246	2164	2060	2071	1956	1905	1845	1731
30.0	2800	2849	2796	2598	2500	2386	2334	2227	2048	1992
32.5	3150	3156	3155	3145	2938	2781	2618	2571	2299	2147
35.0	3495	3451	3446	3491	3475	3192	3018	2866	2503	2304
37.5	3821	3788	3761	3833	3871	3713	3461	3187	2762	2431
40.0	4241	4170	4172	4228	4268	4195	3934	3518	3003	2509
42.5	4707	4622	4659	4750	4708	4587	4433	3928	3205	2636
45.0	5301	5242	5310	5395	5269	4971	4799	4409	3318	2762
47.5	6028	6052	6071	6203	5986	5435	5172	4773	3555	2936
50.0	6830	6858	6843	7048	6828	6059	5629	5092	3898	3217
52.5	7798	7857	7714	7847	7682	6920	6226	5540	4400	3557
55.0	8802	8909	8887	8956	8705	7795	7029	6150	5041	3833
57.5	8727	8738	9050	9830	9981	8931	7947	7097	5659	4294
60.0	7847	7861	8197	9331	10557	10271	9376	8204	6537	5016
62.5	5540	5818	6673	8229	9787	11192	10820	9436	7467	5861
65.0	2171	2387	3446	6174	8750	10795	11347	10806	8519	6691
67.5	1005	1035	1415	2726	6975	9779	10797	11249	8881	6712
70.0	734	757	922	1470	3474	8339	9607	10320	9216	6259
72.5	559	574	720	1038	1978	4926	7027	8141	8210	4673
75.0	420	439	577	831	1268	2153	3395	4793	4901	2635
77.5	322	342	459	689	935	1256	1456	1642	1888	832
80.0	245	275	373	563	709	833	862	834	696	546
82.5	190	224	308	467	522	539	526	535	483	431
85.0	174	218	243	352	365	386	344	336	339	342
87.5	116	143	180	251	210	247	229	216	233	257
90.0	56	69	101	119	138	156	162	169	183	198
92.5	66	70	102	119	136	156	159	166	180	191
95.0	75	73	104	120	136	155	158	162	179	183
97.5	82	74	104	121	136	152	156	156	171	155
100.0	86	76	103	122	135	150	153	150	157	123
102.5	89	79	102	123	135	147	150	144	137	98
105.0	91	83	101	123	135	143	143	132	117	91
107.5	92	86	98	123	133	136	131	115	98	85
110.0	92	88	96	122	130	124	116	100	85	82
112.5	92	90	94	120	125	111	101	89	76	78
115.0	92	91	92	116	115	99	91	82	71	75
117.5	92	91	91	108	104	90	84	77	68	74
120.0	92	91	87	98	95	84	79	74	67	72
122.5	90	89	82	88	88	81	76	72	66	70
125.0	86	85	78	80	83	78	75	71	66	69
127.5	82	80	74	75	79	76	75	72	67	69
130.0	77	76	73	71	76	76	75	73	69	70

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CANDELA TABULATION - (Cont.)

132.5	75	74	71	69	75	75	73	70	69	73
135.0	74	74	71	69	70	67	66	66	70	74
137.5	73	73	69	62	58	57	56	59	65	74
140.0	64	64	59	52	46	44	46	49	56	65
142.5	52	51	48	40	32	33	35	38	46	55
145.0	40	39	35	28	22	22	24	26	34	43
147.5	26	25	23	19	15	10	12	16	23	29
150.0	19	18	16	12	6	4	6	7	12	17
152.5	10	9	7	3	3	2	3	4	6	8
155.0	3	3	2	2	2	2	2	2	3	4
157.5	1	1	1	1	2	2	2	2	2	3
160.0	1	1	1	1	2	2	2	2	2	2
162.5	1	1	1	1	2	2	2	2	2	2
165.0	1	1	1	2	2	2	2	2	2	2
167.5	1	1	1	2	2	2	2	2	2	2
170.0	1	1	1	2	2	2	2	2	2	2
172.5	1	1	1	2	2	2	2	2	2	2
175.0	1	1	1	2	2	2	2	2	2	2
177.5	1	1	1	2	2	2	2	2	2	2
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	915	915	915	915	915	915	915	915	915	915
2.5	912	906	904	908	905	908	909	913	920	927
5.0	920	907	910	935	974	983	981	984	975	974
7.5	942	926	929	976	997	997	981	960	933	925
10.0	961	941	948	1004	1017	981	975	976	988	963
12.5	1025	999	1025	1080	1032	1003	998	1026	1009	1055
15.0	1082	1038	1066	1119	1081	1094	1068	1131	1124	1157
17.5	1144	1108	1152	1180	1133	1143	1222	1202	1196	1263
20.0	1251	1196	1233	1223	1215	1248	1246	1304	1309	1340
22.5	1413	1350	1350	1310	1269	1322	1333	1399	1383	1466
25.0	1536	1502	1449	1373	1357	1370	1413	1455	1491	1531
27.5	1722	1606	1600	1442	1374	1444	1482	1549	1558	1643
30.0	1861	1727	1707	1521	1424	1506	1548	1588	1634	1718
32.5	1951	1805	1768	1589	1451	1527	1551	1657	1754	1873
35.0	2052	1847	1784	1583	1447	1526	1583	1725	1838	1978
37.5	2096	1902	1802	1544	1416	1492	1614	1753	1874	2031
40.0	2139	1952	1785	1488	1386	1447	1623	1729	1875	2096
42.5	2245	1965	1785	1429	1320	1434	1577	1666	1893	2201
45.0	2298	2012	1796	1397	1246	1427	1515	1605	2018	2189
47.5	2413	2095	1795	1364	1187	1372	1460	1568	2202	2113
50.0	2552	2249	1842	1338	1134	1329	1421	1538	2248	2065
52.5	2806	2440	1965	1352	1102	1273	1372	1527	2192	1980
55.0	3089	2700	2185	1373	1080	1213	1316	1486	2109	1877
57.5	3544	3051	2468	1423	1071	1156	1247	1414	2001	1781
60.0	4164	3532	2876	1487	1048	1075	1176	1324	1831	1673
62.5	4585	3876	3092	1541	1001	980	1097	1220	1588	1564
65.0	4810	3923	2949	1508	924	879	1022	1123	1324	1475
67.5	4410	3388	2343	1304	840	773	922	1019	1114	1375
70.0	3677	2594	1525	979	716	667	817	901	965	1246
72.5	2402	1621	840	678	577	565	690	770	885	1042
75.0	910	667	540	488	470	469	542	623	691	718
77.5	523	469	362	419	410	402	417	456	524	583

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CANDELA TABULATION - (Cont.)

80.0	389	365	285	374	367	351	372	401	442	469
82.5	325	293	243	329	315	297	328	354	385	391
85.0	285	212	220	293	275	265	274	280	327	327
87.5	237	129	216	255	241	235	238	227	227	246
90.0	169	102	202	223	213	199	212	203	193	187
92.5	126	144	182	216	206	191	201	197	186	173
95.0	123	179	169	210	201	181	195	191	183	171
97.5	133	180	166	194	189	166	186	182	178	164
100.0	141	168	161	170	178	156	178	175	172	156
102.5	134	152	150	150	164	150	170	170	168	147
105.0	123	136	137	134	150	144	162	164	162	137
107.5	111	121	124	123	135	138	156	159	156	125
110.0	100	108	113	114	123	131	149	154	150	113
112.5	92	99	103	106	113	125	142	150	143	103
115.0	86	92	96	101	106	119	134	143	135	94
117.5	82	87	91	97	101	115	129	137	126	87
120.0	78	83	87	94	98	112	124	129	115	82
122.5	76	79	83	91	97	109	119	121	103	79
125.0	73	76	80	88	96	106	114	112	92	76
127.5	73	75	79	87	95	105	109	103	82	74
130.0	73	75	79	87	94	103	105	94	75	72
132.5	75	77	80	87	92	99	99	86	71	70
135.0	77	79	82	87	89	89	89	79	69	69
137.5	79	80	83	84	82	77	73	67	67	69
140.0	73	76	76	75	70	63	56	53	58	63
142.5	62	65	65	62	56	48	39	39	46	51
145.0	49	51	51	48	41	33	26	26	33	39
147.5	33	34	35	33	28	20	16	18	21	26
150.0	20	21	21	20	15	10	7	10	14	16
152.5	10	11	11	10	8	6	4	3	6	10
155.0	6	6	6	6	5	4	3	2	1	1
157.5	4	4	4	4	4	3	2	1	0	0
160.0	3	3	3	3	3	3	2	1	0	0
162.5	3	3	3	3	3	3	2	1	0	0
165.0	3	3	3	3	3	3	2	1	0	0
167.5	3	3	3	3	3	3	2	1	0	0
170.0	3	3	3	3	3	3	2	1	0	0
172.5	3	3	3	3	3	3	2	1	0	0
175.0	3	3	3	3	3	2	2	1	0	0
177.5	2	3	3	3	3	2	2	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	915	915
2.5	926	936
5.0	954	939
7.5	925	942
10.0	979	965
12.5	1070	1078
15.0	1152	1101
17.5	1243	1289
20.0	1340	1293
22.5	1463	1453
25.0	1539	1509

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CANDELA TABULATION - (Cont.)

27.5	1664	1680
30.0	1786	1759
32.5	1904	1891
35.0	2010	2009
37.5	2038	2049
40.0	1972	1962
42.5	1888	1864
45.0	1719	1699
47.5	1645	1614
50.0	1573	1537
52.5	1506	1466
55.0	1446	1395
57.5	1381	1316
60.0	1322	1225
62.5	1282	1149
65.0	1271	1098
67.5	1248	1054
70.0	1202	1044
72.5	991	976
75.0	943	1021
77.5	849	912
80.0	668	697
82.5	481	494
85.0	460	455
87.5	242	201
90.0	134	96
92.5	106	76
95.0	105	89
97.5	103	101
100.0	101	110
102.5	100	114
105.0	99	114
107.5	98	111
110.0	97	107
112.5	95	102
115.0	93	97
117.5	91	92
120.0	88	89
122.5	85	86
125.0	82	83
127.5	79	80
130.0	76	76
132.5	73	73
135.0	71	71
137.5	70	70
140.0	66	66
142.5	55	55
145.0	42	42
147.5	29	29
150.0	17	17
152.5	11	11
155.0	1	1
157.5	0	0
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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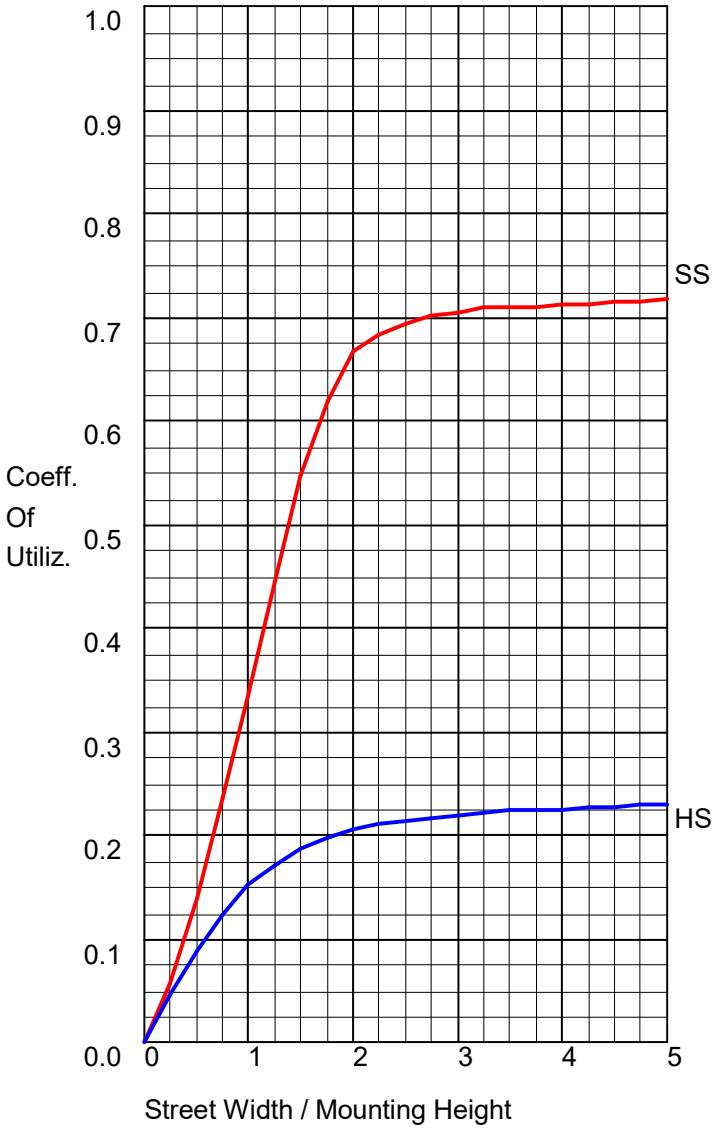
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10996.0	72.4
Downward House Side	3612.1	23.8
Downward Total	14608.1	96.2
Upward Street Side	256.1	1.7
Upward House Side	316.4	2.1
Upward Total	572.5	3.8
Total Flux	15180.6	100.0

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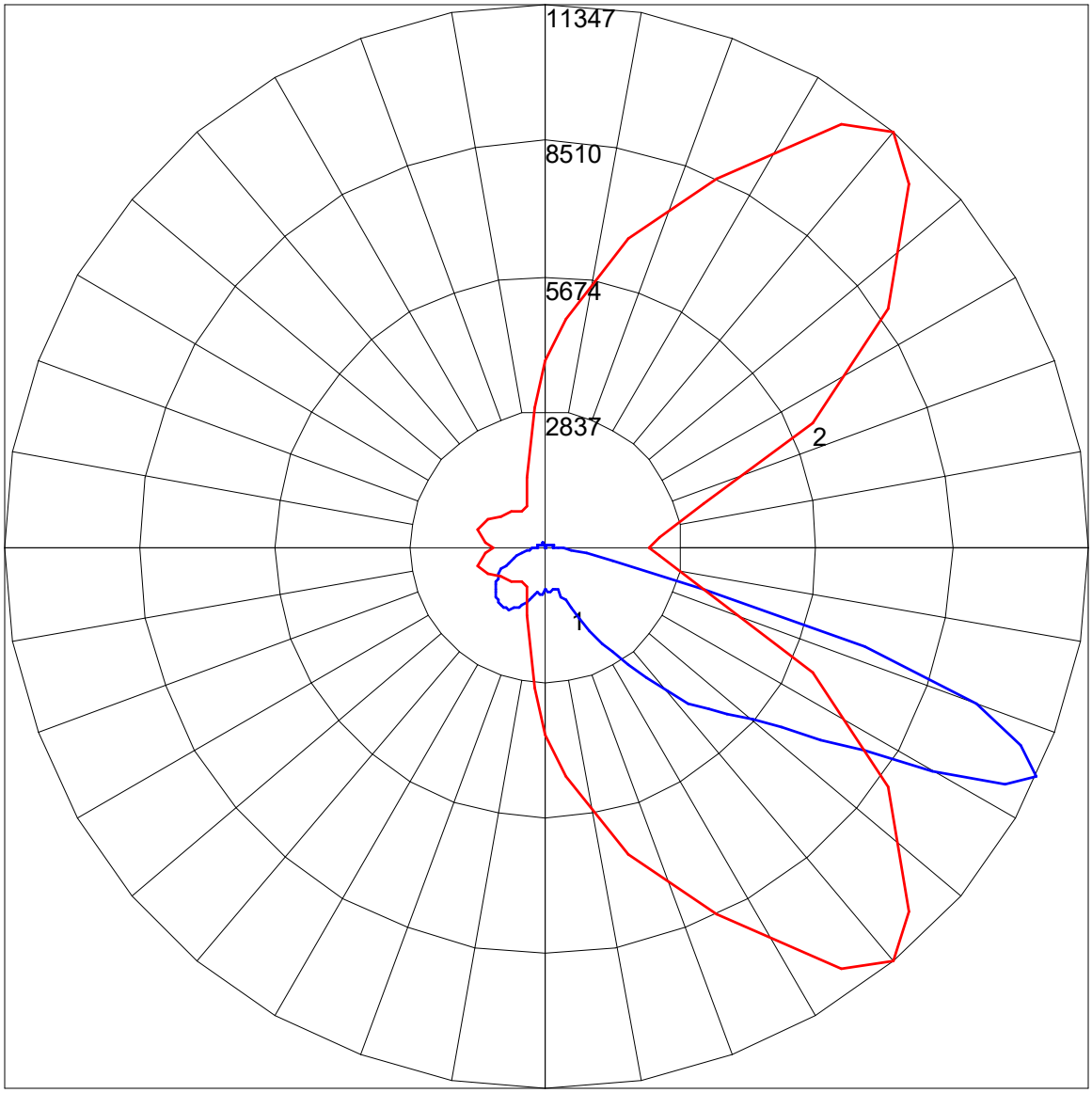
POLAR GRAPH



Maximum Candela = 11347 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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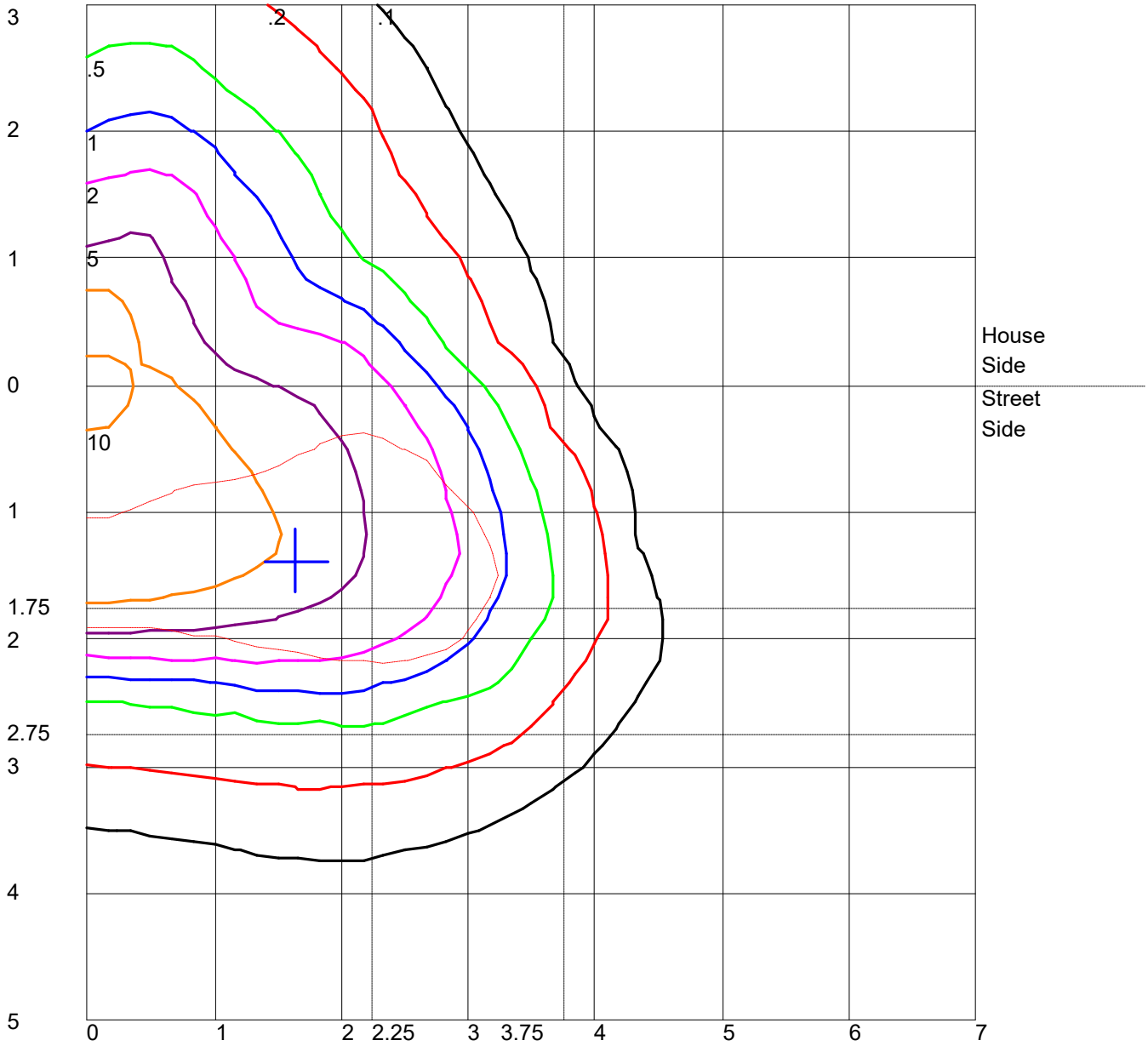
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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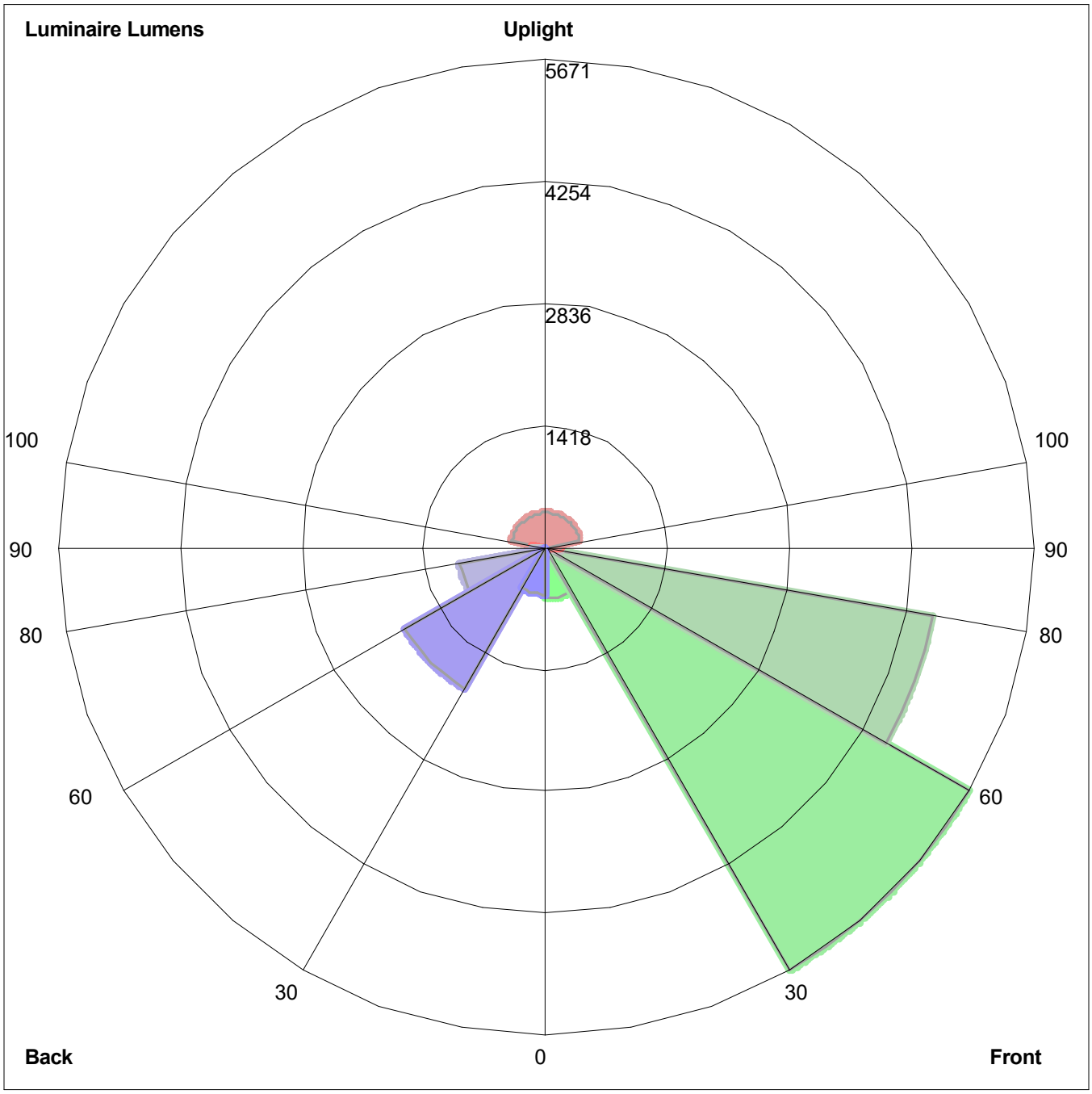
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=592.8, Medium=5671.3, High=4552.9, Very High=179.0
Back: Low=542.2, Medium=1887.3, High=1020.7, Very High=161.9
Uplight: Low=171.4, High=401.2

BUG Rating : B3-U3-G3

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