IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-2-50-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12637
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-15L-SIL-2-50-70CRI-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10449
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	8138
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	8138
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	178 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	690 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	803.6	N.A.	7.7
FM - Front-Medium (30-60)	5416.3	N.A.	51.8
FH - Front-High (60-80)	2044.7	N.A.	19.6
FVH - Front-Very High (80-90)	94.4	N.A.	0.9
BL - Back-Low (0-30)	382.0	N.A.	3.7
BM - Back-Medium (30-60)	806.8	N.A.	7.7
BH - Back-High (60-80)	302.0	N.A.	2.9
BVH - Back-Very High (80-90)	82.2	N.A.	0.8
UL - Uplight-Low (90-100)	147.6	N.A.	1.4
UH - Uplight-High (100-180)	369.5	N.A.	3.5
Total	10449.1	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	45.0	55.0	65.0	72.5	75.0
0.0	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
2.5	1091	1081	1086	1094	1093	1088	1076	1074	1080	1080
5.0	1178	1172	1194	1176	1179	1176	1186	1162	1097	1084
7.5	1094	1098	1102	1134	1169	1207	1209	1191	1183	1155
10.0	1211	1210	1178	1236	1212	1189	1203	1215	1217	1235
12.5	1294	1300	1257	1253	1294	1266	1233	1300	1358	1371
15.0	1371	1442	1414	1415	1397	1329	1405	1368	1458	1452
17.5	1618	1555	1592	1514	1558	1564	1497	1526	1575	1609
20.0	1751	1762	1793	1721	1700	1683	1731	1719	1713	1734
22.5	2087	2103	2096	1959	2007	1883	1930	1933	1902	1897
25.0	2359	2375	2371	2314	2217	2213	2176	2172	2143	2156
27.5	3015	2984	2904	2656	2634	2506	2507	2486	2469	2436
30.0	3542	3601	3453	3256	3073	3027	2916	2833	2814	2821
32.5	4003	4003	3993	3852	3729	3497	3447	3300	3275	3282
35.0	3852	3858	3905	4065	4261	4186	4091	3888	3722	3620
37.5	3908	3841	3826	3918	4301	4606	4743	4490	4158	4020
40.0	4196	4082	4009	4029	4283	4765	4968	5267	4582	4467
42.5	4484	4338	4230	4247	4458	4925	5075	5702	5180	4986
45.0	4573	4449	4340	4397	4660	5137	5439	5799	5775	5769
47.5	4461	4363	4259	4403	4773	5406	5843	5788	6280	6294
50.0	4181	4097	4013	4233	4741	5649	6186	6015	6770	6762
52.5	3714	3642	3575	3909	4538	5724	6456	6517	7113	7171
55.0	3133	3049	2999	3374	4140	5590	6690	7120	7512	7557
57.5	2437	2425	2375	2685	3454	5118	6741	7572	7670	7770
60.0	1743	1743	1744	1973	2555	4248	6381	7601	7738	7892
62.5	1034	1049	1097	1285	1692	2993	5642	7419	8138	7993
65.0	649	662	717	825	1037	1710	4512	6458	7793	7772
67.5	443	443	462	579	720	918	2896	5055	6526	6655
70.0	383	384	394	431	535	624	1583	3680	4973	5206
72.5	302	299	319	356	436	481	821	2355	3249	3443
75.0	212	214	233	267	349	405	524	1323	2038	2146
77.5	138	151	173	200	260	334	400	811	1240	1216
80.0	82	98	126	147	197	262	311	463	690	689
82.5	62	78	103	115	139	182	235	285	399	432
85.0	46	64	92	105	120	141	163	201	249	275
87.5	46	62	90	102	116	132	147	160	176	184
90.0	49	62	89	101	114	129	139	150	157	160
92.5	58	65	92	104	117	131	138	150	158	161
95.0	68	68	94	108	121	134	138	153	160	163
97.5	77	71	96	110	122	134	135	151	153	150
100.0	83	75	97	112	123	134	132	143	135	118
102.5	87	79	97	113	123	132	128	128	106	96
105.0	90	82	96	114	123	130	120	112	89	83
107.5	92	86	95	115	123	125	109	97	77	77
110.0	92	88	93	114	121	118	98	83	70	73
112.5	92	90	92	113	117	107	89	72	66	70
115.0	92	92	92	110	111	98	80	65	64	66
117.5	93	92	92	106	103	90	74	60	62	64
120.0	93	92	90	99	96	84	69	58	60	62
122.5	93	92	87	92	90	79	66	57	58	59
125.0	92	90	84	86	85	76	65	57	57	58
127.5	88	87	81	81	81	73	65	58	58	57
130.0	84	83	79	77	78	73	66	59	58	58

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CANDELA TABULATION - (Cont.)

132.5	82	80	77	75	76	73	66	59	59	60
135.0	79	79	77	74	75	70	62	59	60	61
137.5	79	79	77	73	68	61	55	55	58	60
140.0	75	75	72	65	56	49	45	46	50	51
142.5	65	65	61	53	43	36	35	36	40	41
145.0	53	52	48	39	30	27	25	27	30	31
147.5	39	38	33	27	22	16	15	18	20	21
150.0	27	26	23	19	11	4	5	9	11	12
152.5	19	19	15	8	3	1	1	2	3	3
155.0	6	6	4	2	1	1	1	1	1	1
157.5	2	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	0	0	1	0
162.5	1	1	1	1	1	1	0	0	0	0
165.0	1	1	1	1	1	1	0	0	0	0
167.5	1	1	1	1	1	1	0	0	0	0
170.0	1	1	1	1	1	1	0	0	0	0
172.5	1	1	1	1	1	1	0	0	0	0
175.0	1	1	1	1	1	1	0	0	0	0
177.5	1	1	1	1	1	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
2.5	1090	1091	1108	1137	1145	1153	1154	1145	1147	1138
5.0	1076	1107	1157	1188	1165	1164	1158	1148	1107	1060
7.5	1105	1124	1173	1174	1161	1087	1053	1054	1038	1017
10.0	1160	1175	1206	1174	1124	1100	1051	994	947	905
12.5	1249	1270	1332	1297	1133	1052	947	868	812	796
15.0	1351	1376	1394	1305	1178	999	865	783	699	663
17.5	1516	1505	1549	1381	1171	919	787	665	594	562
20.0	1683	1636	1651	1450	1164	865	685	579	513	478
22.5	1932	1864	1888	1562	1093	788	609	494	448	440
25.0	2160	2087	2025	1580	1091	711	524	444	411	391
27.5	2500	2340	2301	1670	996	632	462	409	368	352
30.0	2853	2658	2524	1733	921	545	432	370	335	319
32.5	3115	2871	2705	1731	825	494	395	337	318	307
35.0	3410	3101	2860	1652	711	463	359	321	304	289
37.5	3804	3408	2988	1511	604	420	327	309	287	268
40.0	4157	3769	3086	1327	540	368	311	296	268	244
42.5	4512	4038	3221	1131	474	322	304	278	245	221
45.0	5043	4347	3299	933	410	313	292	257	225	204
47.5	5399	4694	3369	763	357	308	274	235	212	191
50.0	5826	5105	3315	624	319	294	255	220	202	183
52.5	6389	5357	3301	532	304	279	238	211	195	176
55.0	6826	5589	3117	476	304	264	224	203	190	170
57.5	6979	5537	2779	401	313	249	214	197	184	164
60.0	7098	5310	2238	336	301	237	206	190	174	153
62.5	6909	4899	1698	298	274	224	198	181	162	148
65.0	6102	4003	1134	279	245	213	189	168	176	188
67.5	4888	2924	757	266	229	202	178	184	208	230
70.0	3676	2083	528	251	217	192	188	206	223	198
72.5	2398	1379	386	234	203	183	193	202	163	148
75.0	1511	902	303	221	193	181	197	168	148	127
77.5	676	436	238	209	184	188	175	150	134	122

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CANDELA TABULATION - (Cont.)

80.0	405	316	199	195	181	177	158	147	138	126
82.5	290	245	167	183	183	160	160	151	142	130
85.0	234	157	159	184	166	159	163	154	146	133
87.5	187	69	168	176	168	159	167	157	149	137
90.0	135	53	163	178	170	162	170	162	153	141
92.5	93	115	148	183	176	165	174	167	159	146
95.0	89	153	139	181	173	156	170	164	158	146
97.5	109	153	137	166	164	147	163	160	156	143
100.0	119	146	136	146	156	142	158	157	154	139
102.5	117	135	129	126	145	137	153	154	153	133
105.0	110	122	119	112	131	131	148	152	150	126
107.5	101	109	107	101	116	123	142	148	146	119
110.0	92	96	97	92	102	113	135	143	141	111
112.5	83	88	88	86	92	105	126	138	136	103
115.0	76	80	80	80	84	98	117	131	129	98
117.5	70	74	74	76	77	93	110	123	121	93
120.0	66	69	69	72	74	89	105	116	111	91
122.5	63	64	65	68	72	86	99	109	101	88
125.0	60	61	62	66	72	84	95	102	92	84
127.5	59	60	62	66	72	83	92	94	84	82
130.0	59	60	62	66	72	83	90	89	78	80
132.5	60	61	63	68	71	77	86	84	75	78
135.0	62	63	65	70	70	70	75	76	75	77
137.5	63	65	67	68	64	61	59	61	66	73
140.0	57	59	60	58	53	49	44	46	53	61
142.5	47	49	49	46	41	36	31	32	39	46
145.0	35	37	36	34	30	25	22	23	28	33
147.5	23	23	24	22	19	15	12	15	19	23
150.0	12	12	13	13	10	6	5	7	12	15
152.5	4	5	5	5	4	4	4	4	5	8
155.0	2	2	2	3	3	3	4	4	4	4
157.5	1	1	1	2	2	3	3	4	3	2
160.0	1	1	1	2	2	3	3	3	3	2
162.5	1	1	1	2	2	2	3	3	2	2
165.0	0	1	1	1	2	2	2	2	2	2
167.5	0	0	1	1	2	2	2	2	2	1
170.0	0	0	0	1	1	2	2	2	2	1
172.5	0	0	0	1	1	1	2	2	2	1
175.0	0	0	0	1	1	1	1	1	1	1
177.5	0	0	0	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	1106	1106
2.5	1144	1152
5.0	1026	1025
7.5	1023	1021
10.0	868	864
12.5	761	753
15.0	637	634
17.5	537	538
20.0	464	463
22.5	428	426
25.0	380	379

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CANDELA TABULATION - (Cont.)

27.5	345	344
30.0	324	323
32.5	305	306
35.0	287	287
37.5	266	266
40.0	242	244
42.5	220	223
45.0	204	207
47.5	190	193
50.0	178	181
52.5	168	169
55.0	156	158
57.5	143	144
60.0	123	121
62.5	125	127
65.0	164	163
67.5	202	196
70.0	131	116
72.5	103	87
75.0	77	55
77.5	73	42
80.0	77	40
82.5	80	43
85.0	83	48
87.5	86	54
90.0	90	68
92.5	94	85
95.0	96	98
97.5	96	107
100.0	98	115
102.5	100	119
105.0	104	120
107.5	107	119
110.0	109	117
112.5	109	113
115.0	107	110
117.5	104	105
120.0	100	102
122.5	97	98
125.0	93	94
127.5	89	90
130.0	85	86
132.5	82	82
135.0	80	80
137.5	78	77
140.0	65	65
142.5	51	51
145.0	36	37
147.5	25	25
150.0	17	17
152.5	10	9
155.0	4	4
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	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	1	1

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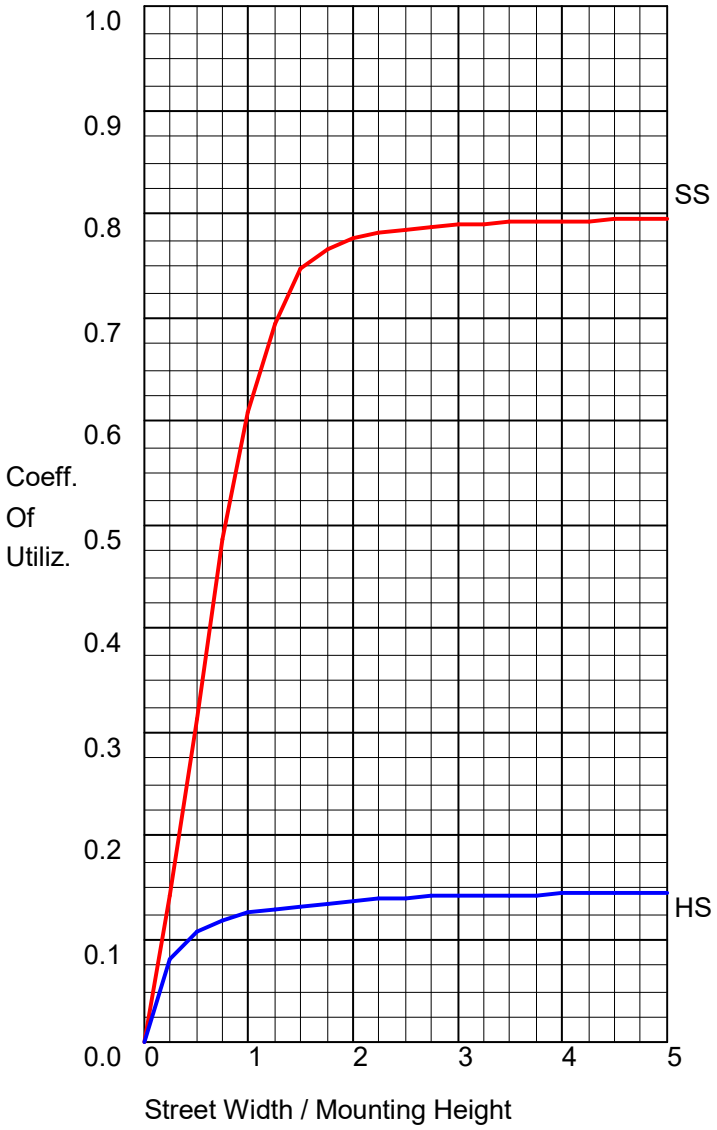
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8358.9	80.0
Downward House Side	1573.1	15.1
Downward Total	9932.0	95.1
Upward Street Side	237.8	2.3
Upward House Side	279.4	2.7
Upward Total	517.2	4.9
Total Flux	10449.2	100.0

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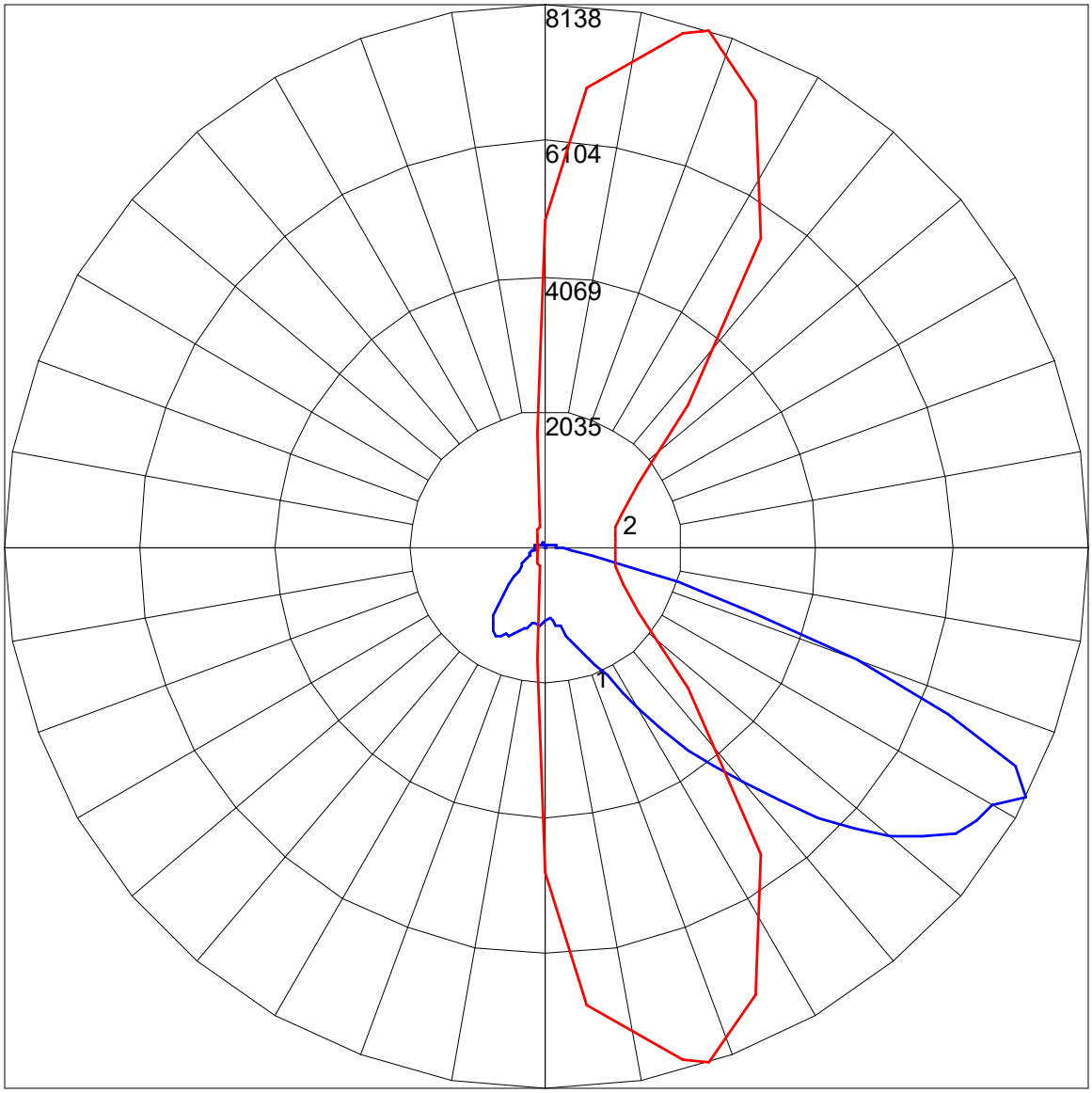
POLAR GRAPH



Maximum Candela = 8138 Located At Horizontal Angle = 72.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (72.5 - 252.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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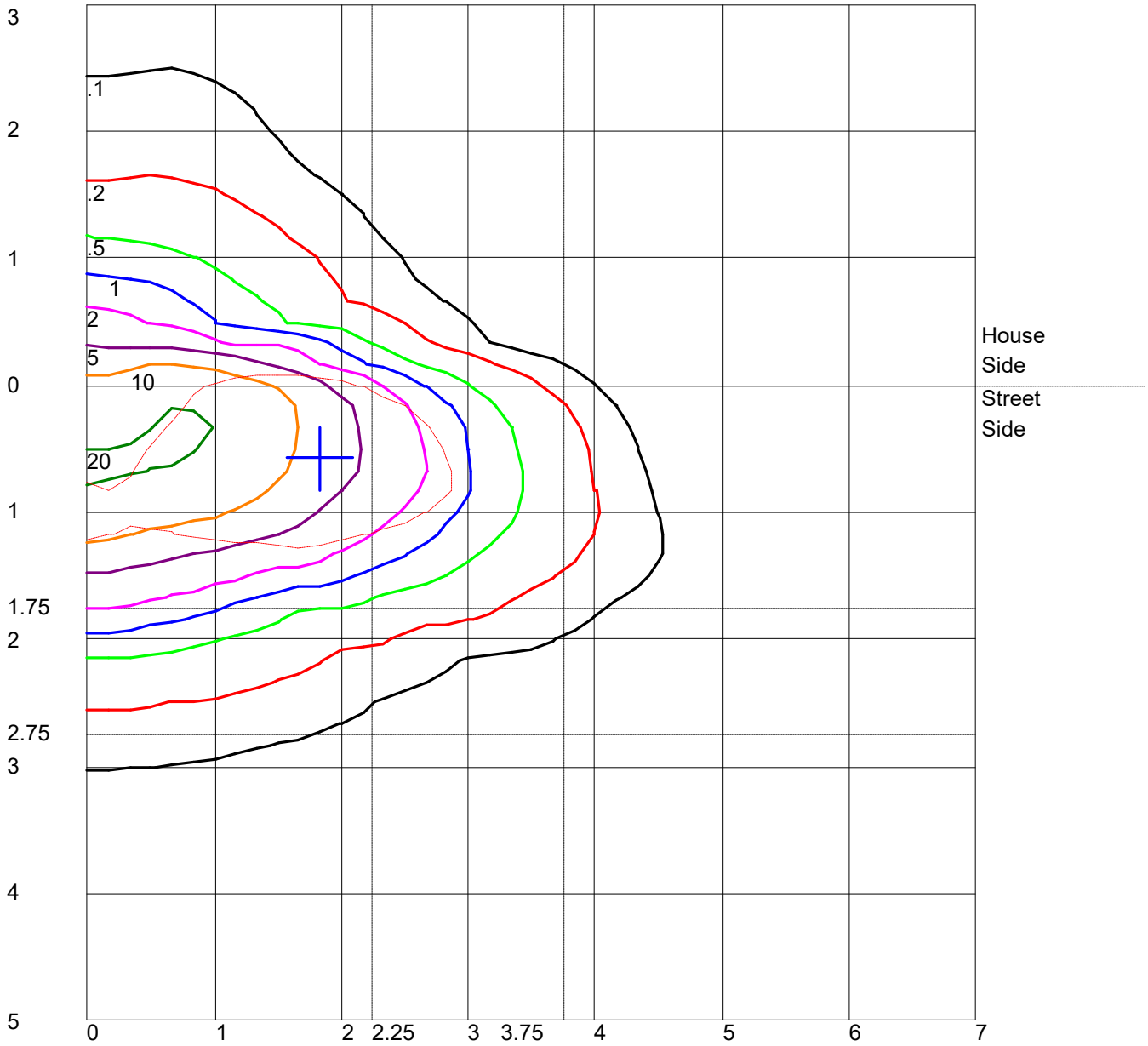
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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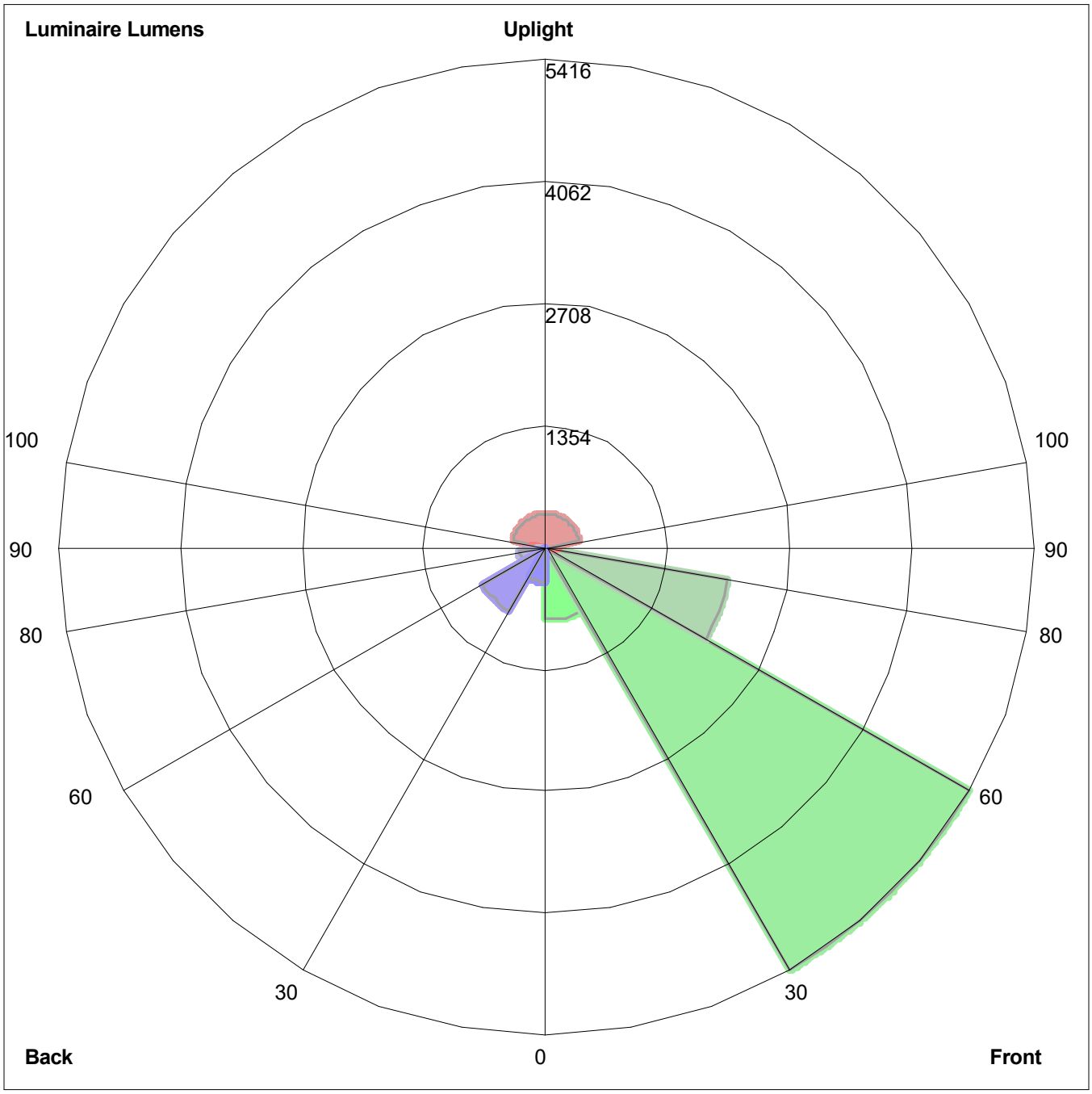
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=803.6, Medium=5416.3, High=2044.7, Very High=94.4
Back: Low=382.0, Medium=806.8, High=302.0, Very High=82.2
Uplight: Low=147.6, High=369.5

BUG Rating : B1-U3-G2

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