IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-2-30-70CRI-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-2-30-70CRI-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10196
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	7941
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	7941
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	174 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	673 (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)	784.2	N.A.	7.7
FM - Front-Medium (30-60)	5285.2	N.A.	51.8
FH - Front-High (60-80)	1995.2	N.A.	19.6
FVH - Front-Very High (80-90)	92.0	N.A.	0.9
BL - Back-Low (0-30)	372.7	N.A.	3.7
BM - Back-Medium (30-60)	787.3	N.A.	7.7
BH - Back-High (60-80)	294.7	N.A.	2.9
BVH - Back-Very High (80-90)	80.3	N.A.	0.8
UL - Uplight-Low (90-100)	144.1	N.A.	1.4
UH - Uplight-High (100-180)	360.5	N.A.	3.5
Total	10196.2	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	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
2.5	1065	1055	1060	1068	1067	1062	1050	1048	1054	1054
5.0	1149	1143	1166	1147	1150	1147	1157	1134	1071	1058
7.5	1068	1071	1075	1107	1141	1178	1180	1162	1154	1127
10.0	1182	1181	1149	1206	1183	1160	1174	1186	1188	1205
12.5	1263	1268	1227	1222	1263	1236	1203	1268	1325	1337
15.0	1337	1408	1380	1381	1363	1297	1371	1335	1423	1417
17.5	1578	1517	1553	1478	1521	1527	1461	1489	1537	1570
20.0	1709	1720	1749	1679	1659	1643	1689	1677	1672	1692
22.5	2036	2052	2045	1912	1959	1838	1884	1887	1856	1851
25.0	2302	2318	2314	2258	2163	2159	2124	2120	2091	2104
27.5	2942	2912	2834	2591	2570	2445	2446	2426	2409	2377
30.0	3456	3514	3370	3177	2998	2954	2846	2764	2746	2753
32.5	3906	3907	3896	3759	3639	3412	3363	3220	3196	3203
35.0	3759	3765	3811	3967	4158	4084	3992	3794	3632	3532
37.5	3814	3748	3734	3823	4197	4494	4629	4381	4057	3923
40.0	4095	3983	3912	3932	4179	4650	4848	5139	4471	4359
42.5	4375	4233	4127	4145	4350	4806	4952	5564	5055	4866
45.0	4463	4342	4235	4291	4547	5013	5307	5659	5636	5629
47.5	4353	4257	4156	4296	4657	5275	5702	5648	6128	6142
50.0	4079	3998	3916	4130	4627	5512	6036	5869	6606	6599
52.5	3624	3554	3489	3814	4428	5586	6300	6360	6941	6997
55.0	3057	2975	2926	3292	4040	5454	6528	6947	7330	7375
57.5	2378	2367	2318	2620	3371	4994	6578	7389	7484	7582
60.0	1701	1701	1702	1925	2493	4146	6226	7417	7551	7701
62.5	1009	1023	1071	1254	1651	2921	5505	7239	7941	7800
65.0	634	646	700	806	1012	1669	4403	6302	7605	7584
67.5	432	432	451	565	703	896	2826	4933	6368	6494
70.0	373	374	384	421	522	609	1545	3591	4852	5080
72.5	295	292	311	348	425	469	801	2298	3170	3359
75.0	206	208	228	260	341	396	512	1291	1988	2094
77.5	134	147	169	195	253	325	391	791	1210	1187
80.0	80	96	123	143	192	255	303	452	673	672
82.5	60	76	101	112	135	178	229	278	390	421
85.0	45	62	89	103	117	137	159	196	243	268
87.5	45	60	87	100	113	129	143	156	172	180
90.0	48	60	86	99	111	126	135	146	154	156
92.5	57	63	89	102	114	128	134	146	155	157
95.0	66	66	92	106	118	131	134	149	156	159
97.5	75	69	94	108	119	131	132	147	150	146
100.0	81	73	95	109	120	131	129	139	132	115
102.5	84	77	95	110	120	129	125	125	104	94
105.0	87	80	94	111	120	127	117	109	86	81
107.5	89	84	93	112	120	122	107	95	75	75
110.0	89	85	91	111	118	115	96	81	68	71
112.5	90	87	90	110	114	105	86	70	64	68
115.0	90	89	90	108	108	96	78	63	62	64
117.5	91	90	89	104	101	87	72	59	60	62
120.0	91	90	87	97	94	82	67	57	59	60
122.5	91	90	84	90	87	77	64	56	57	58
125.0	89	87	82	84	83	74	63	56	56	57
127.5	85	84	79	79	79	71	63	57	57	56
130.0	82	81	77	75	76	71	64	58	57	57

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CANDELA TABULATION - (Cont.)

132.5	80	78	75	73	74	71	64	58	58	59
135.0	77	77	75	72	73	68	60	58	59	60
137.5	77	77	75	71	66	60	54	54	57	59
140.0	73	73	70	63	55	48	44	45	49	50
142.5	63	63	60	52	42	36	35	36	39	40
145.0	52	51	47	38	29	26	24	26	29	31
147.5	38	37	33	26	21	15	14	17	19	20
150.0	26	25	22	18	11	4	5	9	11	12
152.5	18	18	14	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	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
2.5	1064	1065	1081	1110	1118	1125	1126	1118	1119	1111
5.0	1050	1080	1129	1159	1137	1136	1130	1120	1080	1034
7.5	1078	1096	1144	1145	1133	1061	1027	1028	1013	993
10.0	1132	1146	1177	1145	1096	1073	1025	970	924	883
12.5	1218	1239	1300	1265	1106	1026	924	847	792	777
15.0	1318	1343	1360	1273	1149	975	844	764	682	647
17.5	1480	1469	1511	1348	1143	897	768	649	580	548
20.0	1643	1597	1611	1415	1136	844	668	565	500	467
22.5	1886	1819	1842	1525	1067	769	594	482	437	429
25.0	2107	2036	1976	1542	1065	694	512	433	401	381
27.5	2440	2283	2246	1629	972	616	451	399	359	344
30.0	2784	2593	2463	1691	899	532	421	361	326	311
32.5	3040	2802	2639	1689	805	482	385	329	310	300
35.0	3328	3026	2791	1612	694	452	350	313	297	282
37.5	3712	3326	2916	1475	590	410	319	301	280	261
40.0	4056	3678	3012	1295	527	359	303	289	261	238
42.5	4403	3940	3143	1103	463	314	297	272	239	216
45.0	4921	4242	3219	910	400	305	285	251	220	199
47.5	5268	4581	3287	744	349	301	267	229	206	186
50.0	5685	4982	3235	609	311	287	249	215	197	179
52.5	6235	5228	3221	519	297	273	232	205	190	172
55.0	6661	5453	3042	465	297	257	219	198	185	166
57.5	6810	5403	2711	392	305	243	209	192	180	160
60.0	6926	5182	2184	328	294	231	201	185	170	149
62.5	6742	4780	1657	291	267	219	193	177	158	144
65.0	5955	3906	1107	273	239	207	184	164	172	183
67.5	4770	2853	738	259	224	197	174	180	203	225
70.0	3587	2033	516	245	212	187	183	201	218	193
72.5	2340	1346	376	229	198	179	188	197	159	144
75.0	1475	880	296	216	188	177	192	164	144	124
77.5	660	425	232	204	180	183	171	146	131	119

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CANDELA TABULATION - (Cont.)

80.0	396	308	194	190	177	173	155	143	134	123
82.5	283	239	163	179	179	156	156	147	138	127
85.0	229	154	156	180	162	156	159	151	142	130
87.5	182	67	164	172	164	156	163	154	145	133
90.0	132	52	159	174	166	158	166	158	150	137
92.5	91	112	144	179	172	161	170	163	156	142
95.0	86	149	135	177	169	153	166	160	155	142
97.5	107	150	133	162	160	143	159	156	153	139
100.0	116	142	132	142	153	138	155	154	151	135
102.5	114	132	126	123	141	133	150	151	149	130
105.0	108	119	116	109	128	128	144	148	146	123
107.5	99	107	105	99	113	120	138	144	142	116
110.0	89	94	95	90	100	110	132	139	137	108
112.5	81	85	85	84	89	103	123	134	132	101
115.0	74	78	78	78	82	96	114	128	126	96
117.5	68	72	72	74	75	91	108	120	118	91
120.0	64	67	67	70	72	86	103	113	108	88
122.5	61	62	63	66	70	84	97	107	99	85
125.0	59	60	60	64	70	82	93	100	90	82
127.5	58	59	60	64	70	81	90	92	82	80
130.0	58	59	60	64	70	81	87	86	76	78
132.5	59	60	61	66	69	75	84	82	73	76
135.0	60	61	63	68	68	68	73	74	73	75
137.5	61	63	65	66	62	60	58	60	64	71
140.0	56	58	59	57	52	48	43	45	52	60
142.5	46	48	48	45	40	36	31	32	38	45
145.0	35	36	36	34	29	24	21	22	27	33
147.5	22	22	23	21	18	14	12	14	18	22
150.0	12	12	12	12	10	6	5	7	12	14
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	1079	1079
2.5	1117	1124
5.0	1001	1000
7.5	999	997
10.0	847	843
12.5	742	734
15.0	621	618
17.5	524	525
20.0	453	452
22.5	418	416
25.0	371	370

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CANDELA TABULATION - (Cont.)

27.5	337	336
30.0	316	315
32.5	298	299
35.0	280	280
37.5	259	259
40.0	236	238
42.5	215	218
45.0	199	202
47.5	185	188
50.0	174	177
52.5	164	165
55.0	153	155
57.5	139	140
60.0	120	118
62.5	122	124
65.0	160	159
67.5	197	191
70.0	128	113
72.5	101	84
75.0	75	54
77.5	71	41
80.0	75	39
82.5	78	42
85.0	81	47
87.5	84	53
90.0	87	66
92.5	92	83
95.0	94	96
97.5	94	105
100.0	96	112
102.5	98	116
105.0	102	117
107.5	105	116
110.0	107	114
112.5	107	110
115.0	105	108
117.5	102	103
120.0	98	100
122.5	95	96
125.0	91	92
127.5	86	87
130.0	83	84
132.5	80	80
135.0	78	78
137.5	76	75
140.0	63	63
142.5	50	50
145.0	36	36
147.5	24	24
150.0	16	16
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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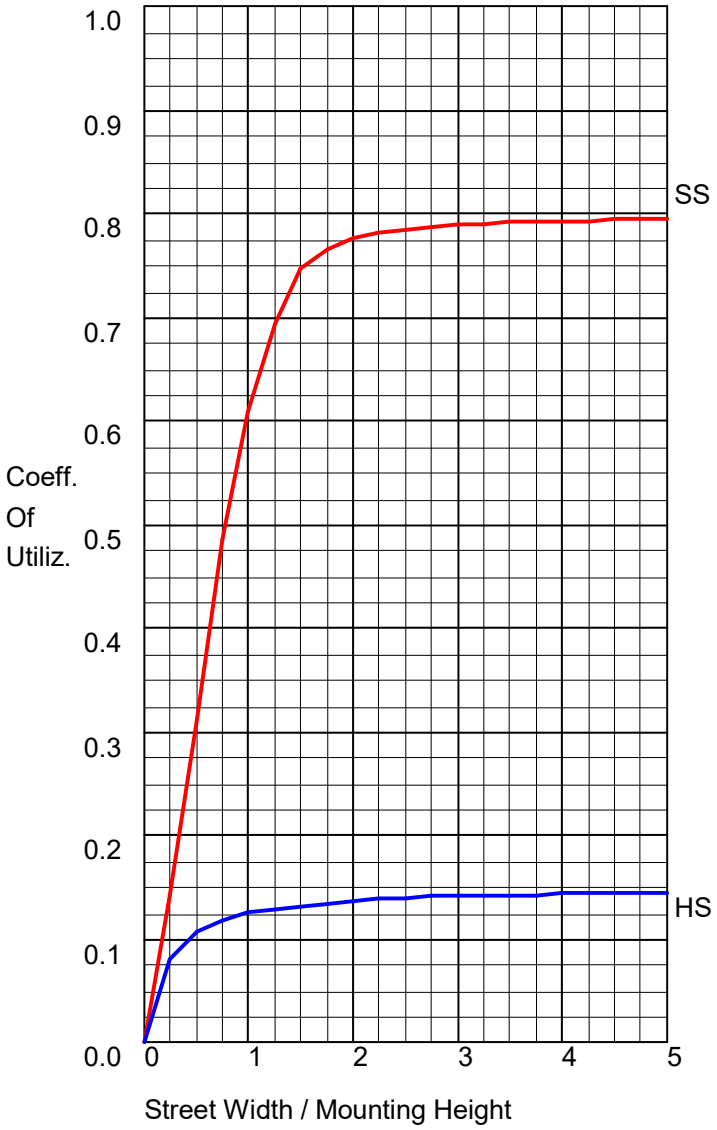
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8156.7	80.0
Downward House Side	1535.0	15.1
Downward Total	9691.7	95.1
Upward Street Side	232.0	2.3
Upward House Side	272.6	2.7
Upward Total	504.6	4.9
Total Flux	10196.3	100.0

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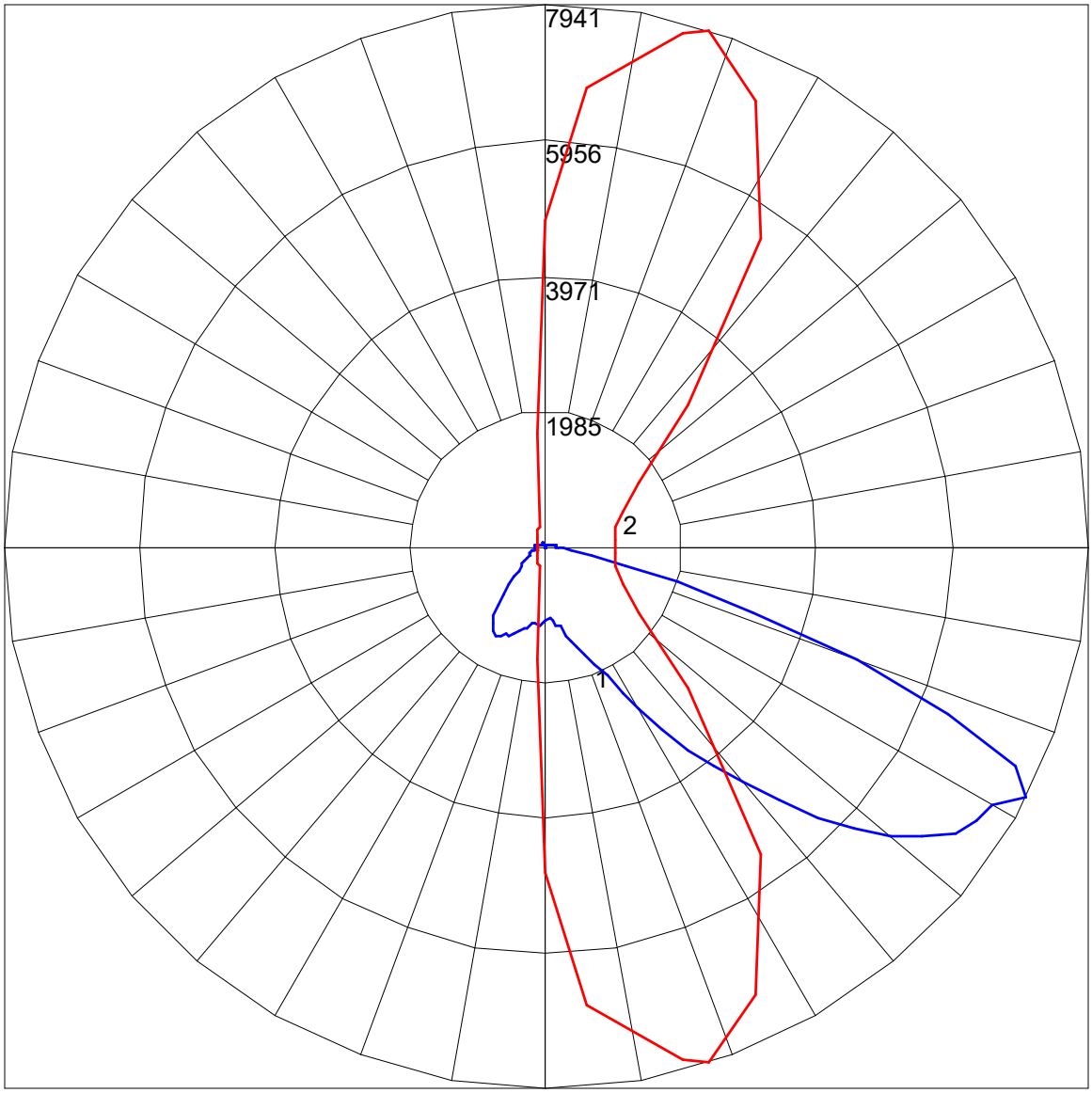
POLAR GRAPH



Maximum Candela = 7941 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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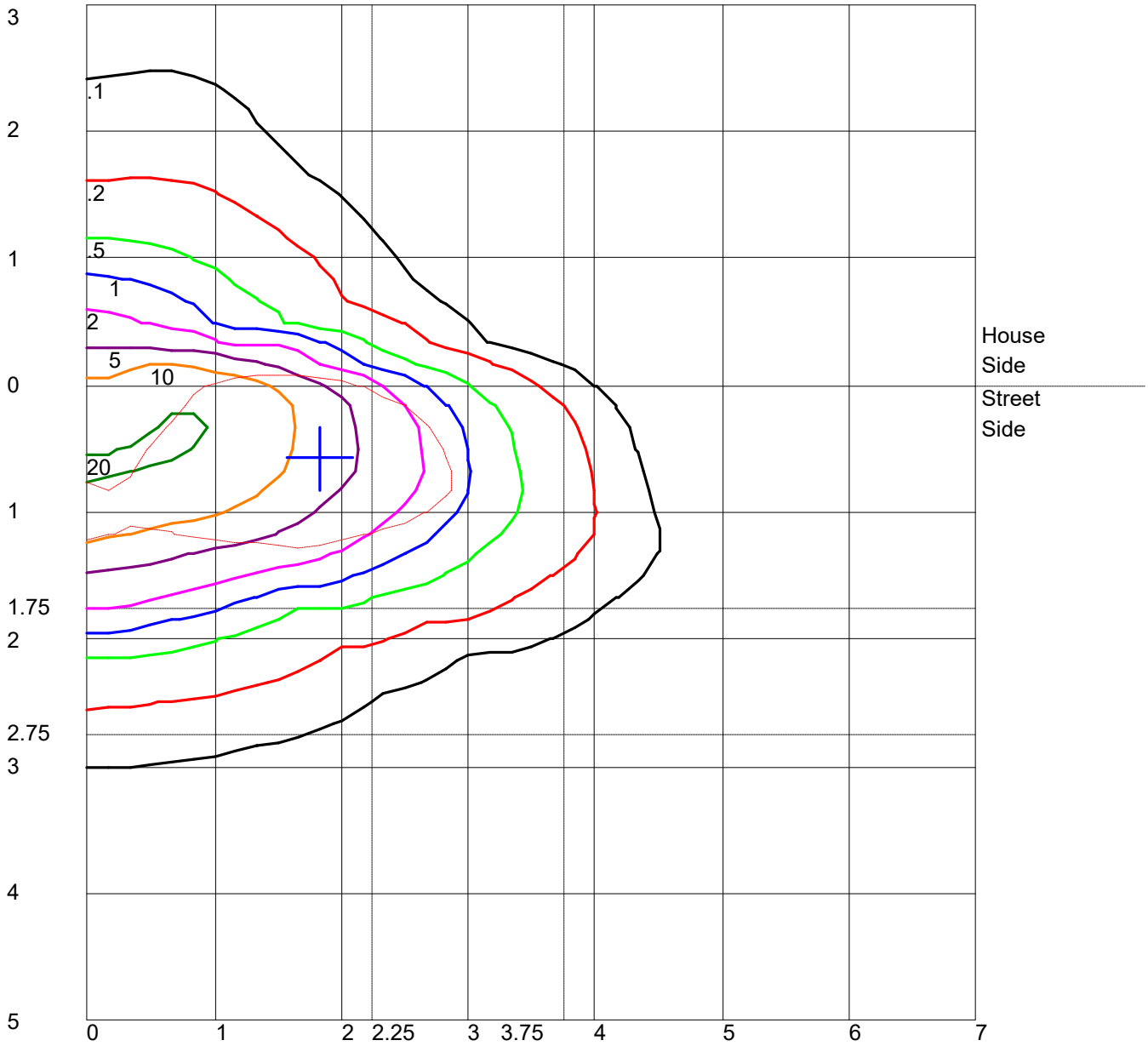
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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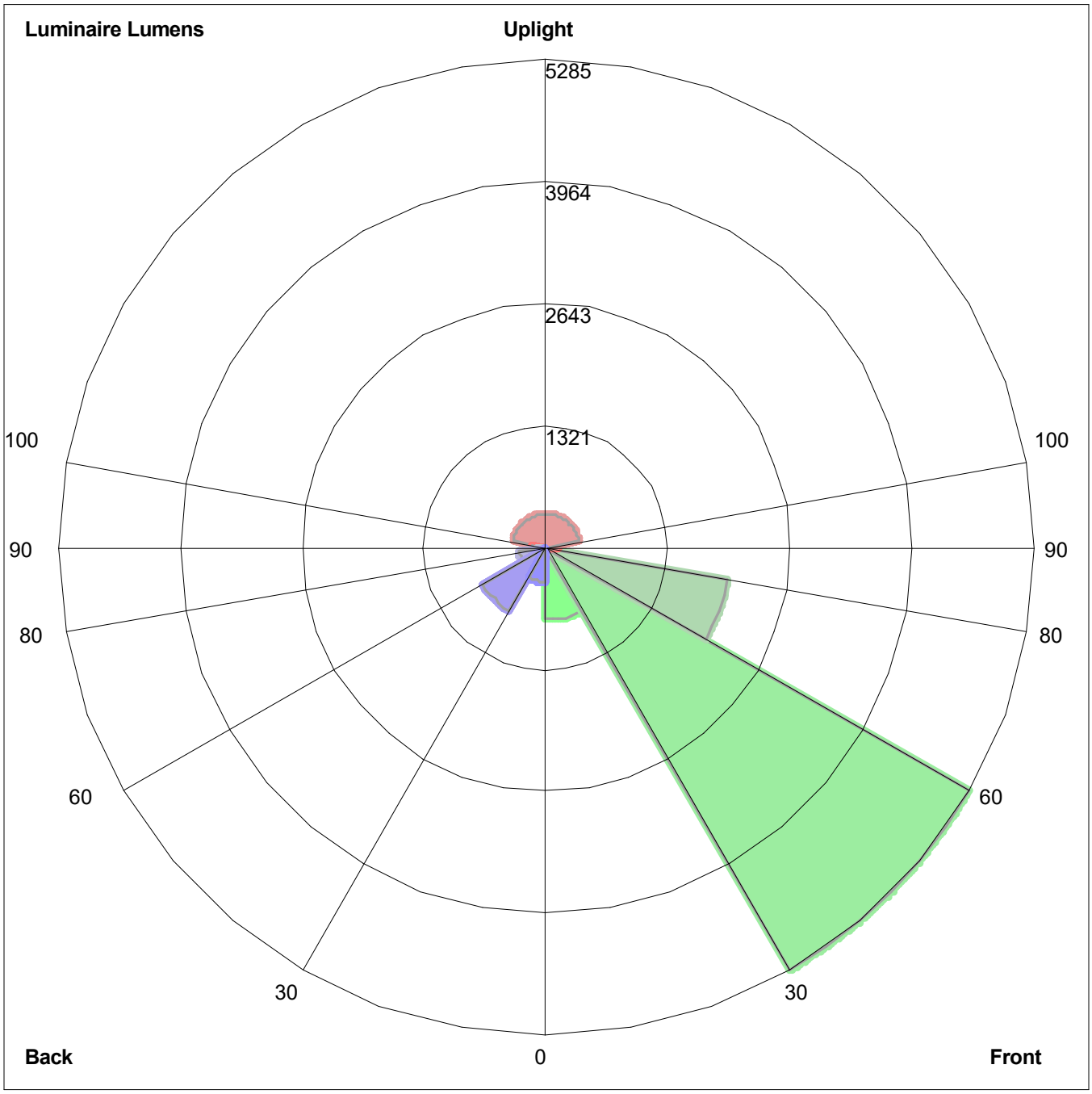
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=784.2, Medium=5285.2, High=1995.2, Very High=92.0
Back: Low=372.7, Medium=787.3, High=294.7, Very High=80.3
Uplight: Low=144.1, High=360.5

BUG Rating : B1-U3-G2

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