IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-30-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12643
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-FT-30-70CRI-IL
[_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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12163
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	9718
Maximum Candela Angle	30H 67.5V
Maximum Candela (<90 Degrees Vertical)	9718
Maximum Candela Angle (<90 Degrees Vertical)	30H 67.5V
Maximum Candela At 90 Degrees Vertical	173 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1696 (13.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	989.2	N.A.	8.1
FM - Front-Medium (30-60)	4884.6	N.A.	40.2
FH - Front-High (60-80)	4569.5	N.A.	37.6
FVH - Front-Very High (80-90)	195.2	N.A.	1.6
BL - Back-Low (0-30)	208.8	N.A.	1.7
BM - Back-Medium (30-60)	454.7	N.A.	3.7
BH - Back-High (60-80)	252.2	N.A.	2.1
BVH - Back-Very High (80-90)	82.1	N.A.	0.7
UL - Uplight-Low (90-100)	143.5	N.A.	1.2
UH - Uplight-High (100-180)	383.2	N.A.	3.2
Total	12163.0	N.A.	100.0
BUG Rating	B1-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	30	35	45	55	65	75
0.0	927	927	927	927	927	927	927	927	927	927
2.5	1089	1086	1053	1048	1047	1049	1036	1011	985	961
5.0	1201	1195	1162	1201	1193	1215	1239	1194	1130	1057
7.5	1648	1606	1589	1570	1535	1486	1381	1265	1227	1150
10.0	1760	1739	1734	1776	1749	1762	1686	1568	1343	1284
12.5	1948	1880	1946	1967	1942	1912	1846	1789	1618	1386
15.0	1985	1961	1958	1985	2014	2068	2100	1985	1941	1582
17.5	2225	2160	2223	2236	2234	2188	2223	2267	2179	1888
20.0	2492	2481	2492	2433	2451	2483	2401	2464	2429	2113
22.5	2697	2697	2764	2788	2736	2669	2725	2634	2652	2406
25.0	2963	2990	3055	2950	2982	3051	2913	2834	2868	2598
27.5	3098	3106	3116	3235	3275	3219	3258	3090	2976	2845
30.0	3085	3138	3241	3313	3331	3477	3464	3334	3088	3091
32.5	2951	2965	3115	3406	3537	3623	3763	3562	3302	3232
35.0	2849	2841	2968	3283	3460	3721	4020	3769	3463	3283
37.5	2751	2755	2873	3168	3360	3645	4268	4100	3709	3304
40.0	2748	2751	2866	3149	3333	3594	4320	4381	3999	3381
42.5	2933	2910	3019	3250	3391	3629	4354	4785	4157	3592
45.0	3297	3286	3363	3530	3591	3784	4404	5025	4393	3795
47.5	3853	3843	3928	4030	3993	4106	4541	5212	4813	4086
50.0	4502	4465	4578	4741	4616	4602	4767	5363	5206	4541
52.5	4812	4821	5040	5391	5301	5215	5020	5516	5443	4688
55.0	4950	4956	5213	5752	5808	5742	5307	5471	5329	4873
57.5	5729	5696	5679	5945	6009	6015	5618	5164	5167	5083
60.0	7243	7308	7079	6737	6468	6126	5499	4689	4830	5390
62.5	8222	8331	8415	8445	7957	7033	4954	4229	4294	5492
65.0	8401	8548	8812	9423	9347	8790	5147	3705	3532	5095
67.5	7953	8055	8495	9490	9718	9627	7341	3050	2688	4073
70.0	6121	6172	7138	8389	8902	9292	8349	3610	1912	2830
72.5	2391	2679	3937	6002	7408	8557	7712	4981	1241	1508
75.0	851	927	1582	2580	3471	5137	7325	4407	861	717
77.5	627	648	843	1384	1678	2310	3664	2755	809	381
80.0	440	451	529	762	899	1174	1635	1696	862	294
82.5	243	255	286	351	411	524	807	846	576	351
85.0	131	142	163	201	241	308	456	575	405	294
87.5	73	80	103	138	161	173	235	281	237	193
90.0	51	56	77	94	103	110	140	164	156	159
92.5	57	57	78	93	101	108	123	128	138	153
95.0	63	60	80	96	103	111	127	131	141	145
97.5	68	62	82	97	104	112	127	131	138	121
100.0	72	65	84	99	105	112	126	127	127	100
102.5	75	69	84	100	106	112	124	120	109	84
105.0	78	73	84	102	107	113	120	108	92	79
107.5	80	78	84	104	108	112	112	93	80	75
110.0	82	81	85	104	108	110	102	82	73	73
112.5	83	83	86	104	106	105	91	76	68	72
115.0	84	84	86	101	101	96	83	72	65	71
117.5	86	86	86	95	93	89	79	70	63	70
120.0	87	87	84	88	86	84	76	68	63	69
122.5	87	86	82	83	83	81	75	68	64	68
125.0	85	84	79	80	81	79	74	68	64	67
127.5	83	82	78	78	79	78	74	70	66	68
130.0	81	81	78	76	77	77	76	71	68	70

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CANDELA TABULATION - (Cont.)

132.5	81	80	78	76	77	78	74	69	69	72
135.0	81	81	79	76	75	74	68	65	68	74
137.5	80	79	76	69	66	63	58	58	63	72
140.0	71	70	65	59	55	51	46	48	55	64
142.5	59	58	53	45	41	36	35	37	44	54
145.0	45	43	38	31	28	25	25	27	33	41
147.5	29	29	26	22	20	16	12	16	23	29
150.0	21	21	18	12	9	6	6	8	13	18
152.5	9	8	6	4	4	3	3	5	8	11
155.0	2	2	2	2	2	2	3	4	5	7
157.5	0	1	2	2	2	2	3	3	4	5
160.0	0	1	2	2	2	2	3	3	4	4
162.5	0	1	2	2	2	2	3	3	4	4
165.0	0	1	2	2	2	2	3	3	3	4
167.5	0	1	2	2	3	3	3	3	4	4
170.0	0	1	2	3	3	3	3	3	4	4
172.5	0	1	2	3	3	3	3	3	3	4
175.0	1	1	2	3	3	3	3	3	3	4
177.5	1	1	2	3	3	3	3	3	3	4
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	927	927	927	927	927	927	927	927	927	927
2.5	944	943	933	917	889	854	828	821	814	806
5.0	988	962	935	863	810	821	811	779	758	738
7.5	1039	992	950	842	826	773	717	656	591	523
10.0	1120	1051	966	886	794	702	546	415	360	308
12.5	1281	1175	1032	950	788	542	391	290	247	234
15.0	1407	1275	1132	999	715	434	274	229	220	215
17.5	1581	1412	1239	1023	619	323	225	211	208	203
20.0	1757	1528	1362	1022	515	244	214	200	197	198
22.5	1904	1744	1477	1014	387	223	205	190	188	184
25.0	2107	1818	1565	966	280	217	198	181	176	178
27.5	2296	1948	1693	889	240	210	192	172	165	162
30.0	2357	2065	1730	743	233	202	182	163	153	155
32.5	2536	2128	1783	627	228	196	174	153	154	161
35.0	2624	2216	1819	527	224	189	162	153	166	180
37.5	2711	2363	1826	406	216	181	154	164	181	185
40.0	2818	2437	1837	318	208	173	156	182	186	160
42.5	3040	2480	1868	271	201	164	174	192	155	116
45.0	3139	2629	1856	253	191	171	197	170	123	97
47.5	3262	2662	1867	254	187	186	201	139	111	91
50.0	3488	2703	1790	280	229	204	176	127	109	94
52.5	3543	2827	1747	239	239	263	157	124	125	166
55.0	3746	2957	1645	213	180	259	183	147	228	283
57.5	4042	3088	1648	201	173	172	229	245	304	263
60.0	4408	3443	1697	190	171	153	225	302	223	109
62.5	4635	3529	1642	180	166	148	232	233	136	109
65.0	4694	3412	1411	174	158	181	203	149	142	117
67.5	4211	2877	1071	170	148	183	144	149	143	119
70.0	3159	1875	587	162	155	164	151	159	136	120
72.5	1589	866	285	157	152	161	153	143	138	124
75.0	696	452	212	156	163	158	149	145	139	132
77.5	463	318	183	155	162	148	154	148	142	136

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CANDELA TABULATION - (Cont.)

80.0	338	263	166	164	156	149	157	150	143	137
82.5	256	207	150	175	163	153	163	155	148	141
85.0	205	146	146	184	169	159	169	158	151	145
87.5	158	106	141	180	171	161	175	165	155	146
90.0	121	85	148	173	168	155	173	168	161	150
92.5	103	103	146	174	172	156	175	173	167	156
95.0	105	133	138	172	170	151	173	175	172	162
97.5	109	140	133	158	158	141	163	166	167	160
100.0	115	133	128	139	148	133	154	157	160	153
102.5	111	124	120	123	137	130	146	151	155	143
105.0	104	114	113	112	129	129	141	146	150	133
107.5	97	107	108	106	120	127	139	144	146	123
110.0	92	100	102	101	112	123	136	143	142	113
112.5	87	94	97	98	106	119	134	141	137	106
115.0	84	89	92	96	102	116	131	139	132	99
117.5	80	85	88	94	99	113	127	135	126	93
120.0	77	83	85	92	96	111	124	131	116	90
122.5	75	79	83	90	96	108	120	123	108	88
125.0	73	77	81	88	95	107	116	115	98	86
127.5	73	76	81	88	95	106	111	108	90	85
130.0	74	77	81	88	94	104	106	99	84	84
132.5	75	78	82	88	92	100	101	92	81	82
135.0	78	81	84	89	89	88	91	86	79	81
137.5	79	82	84	85	83	76	75	74	78	80
140.0	73	75	77	76	70	62	58	59	66	75
142.5	61	63	64	62	56	48	41	44	53	60
145.0	47	49	49	47	41	35	29	31	38	46
147.5	33	34	34	33	28	21	19	21	26	33
150.0	20	21	21	20	16	11	10	13	17	21
152.5	12	12	12	12	10	7	5	6	11	14
155.0	8	8	8	7	6	5	3	4	4	6
157.5	5	5	5	5	5	4	3	3	3	3
160.0	4	4	4	5	4	4	3	2	2	2
162.5	4	4	4	4	4	3	3	2	2	2
165.0	4	4	4	4	4	3	3	2	2	1
167.5	4	4	4	4	4	3	3	2	2	1
170.0	4	4	4	4	4	3	3	2	2	1
172.5	4	4	4	4	4	3	2	2	1	1
175.0	4	4	4	4	4	3	2	2	1	0
177.5	4	4	4	4	4	3	2	1	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	927	927
2.5	805	806
5.0	729	736
7.5	496	501
10.0	286	290
12.5	225	221
15.0	213	213
17.5	201	199
20.0	195	196
22.5	181	181
25.0	172	172

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CANDELA TABULATION - (Cont.)

27.5	157	158
30.0	155	154
32.5	168	167
35.0	185	185
37.5	185	184
40.0	146	141
42.5	109	106
45.0	95	93
47.5	90	89
50.0	98	98
52.5	204	220
55.0	295	303
57.5	180	180
60.0	87	94
62.5	85	90
65.0	86	89
67.5	83	82
70.0	82	76
72.5	82	69
75.0	82	62
77.5	85	58
80.0	88	53
82.5	91	50
85.0	90	50
87.5	92	52
90.0	95	58
92.5	99	69
95.0	105	85
97.5	106	97
100.0	103	105
102.5	99	108
105.0	96	107
107.5	95	105
110.0	94	103
112.5	95	101
115.0	96	99
117.5	95	97
120.0	95	96
122.5	94	95
125.0	93	93
127.5	91	91
130.0	88	88
132.5	85	85
135.0	83	84
137.5	82	82
140.0	79	80
142.5	65	65
145.0	50	51
147.5	36	36
150.0	23	24
152.5	15	15
155.0	8	8
157.5	3	3
160.0	1	0
162.5	1	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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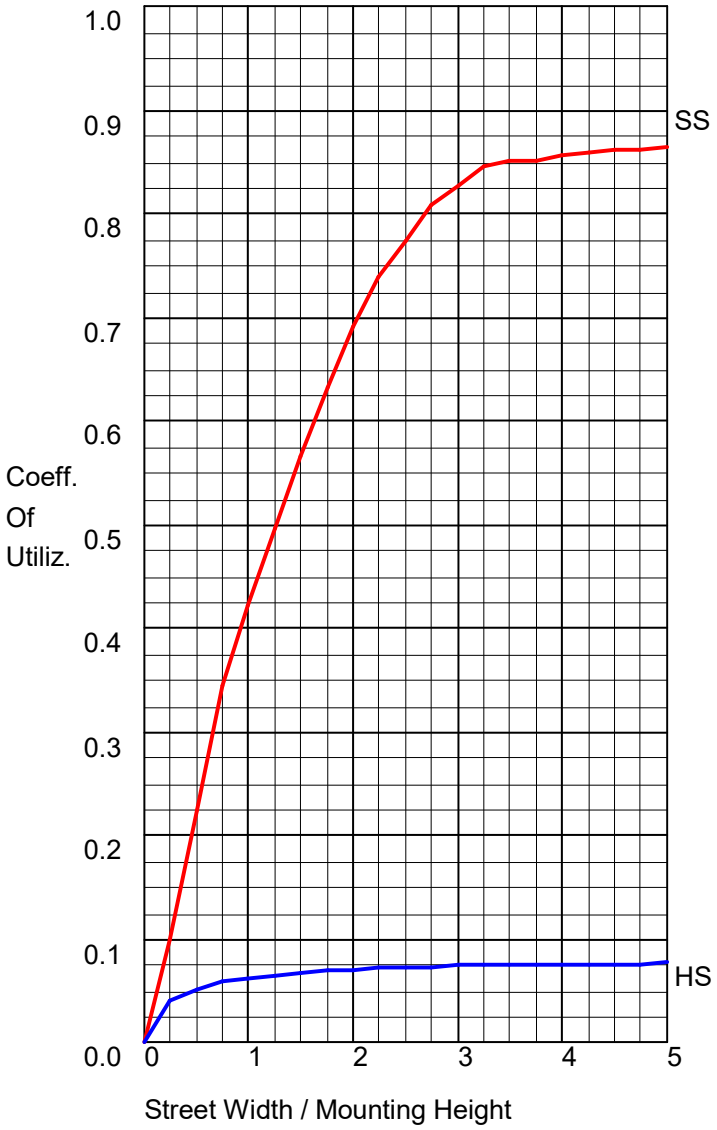
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10638.5	87.5
Downward House Side	997.8	8.2
Downward Total	11636.3	95.7
Upward Street Side	227.9	1.9
Upward House Side	298.9	2.5
Upward Total	526.8	4.3
Total Flux	12163.1	100.0

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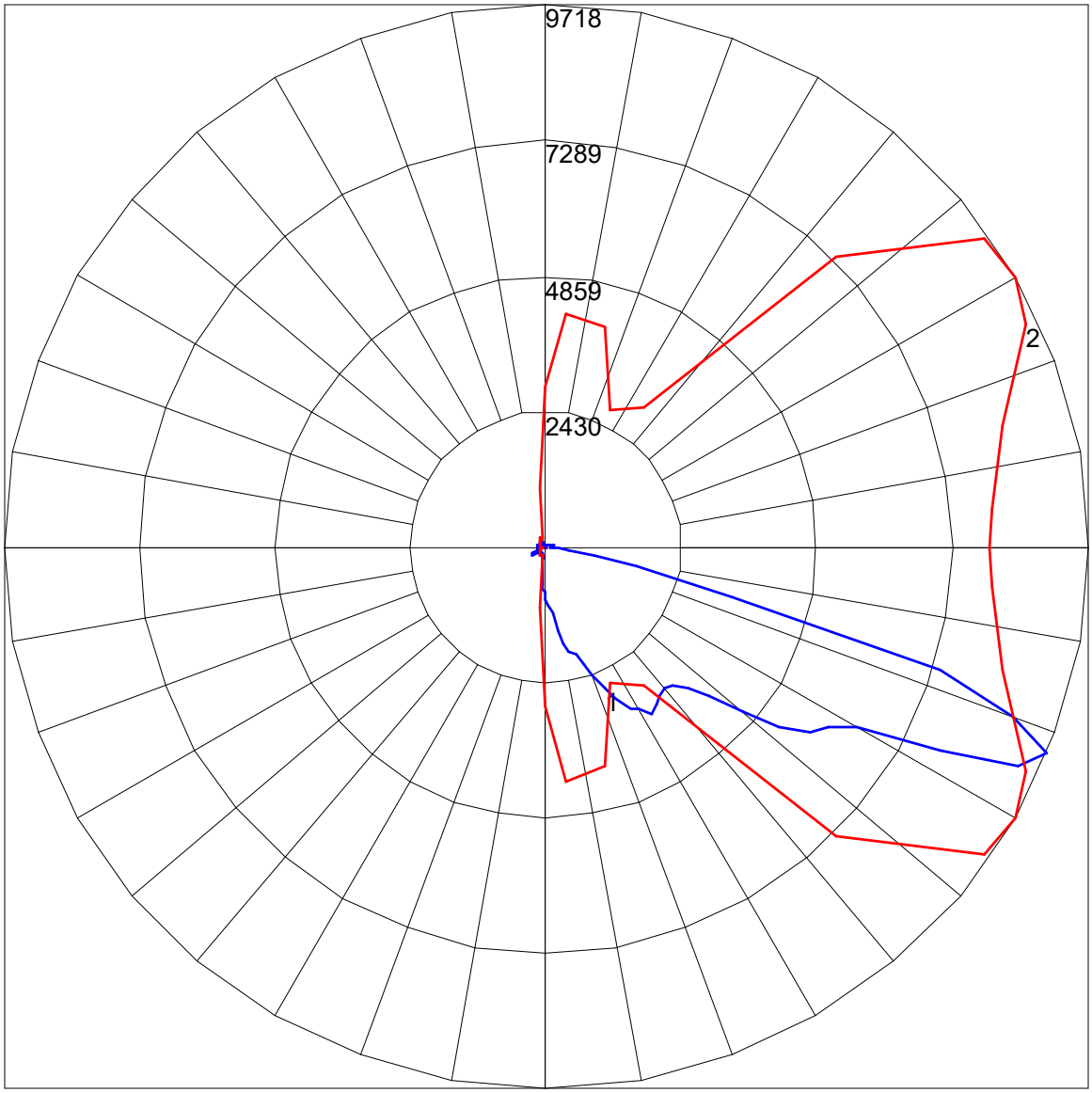
POLAR GRAPH



Maximum Candela = 9718 Located At Horizontal Angle = 30, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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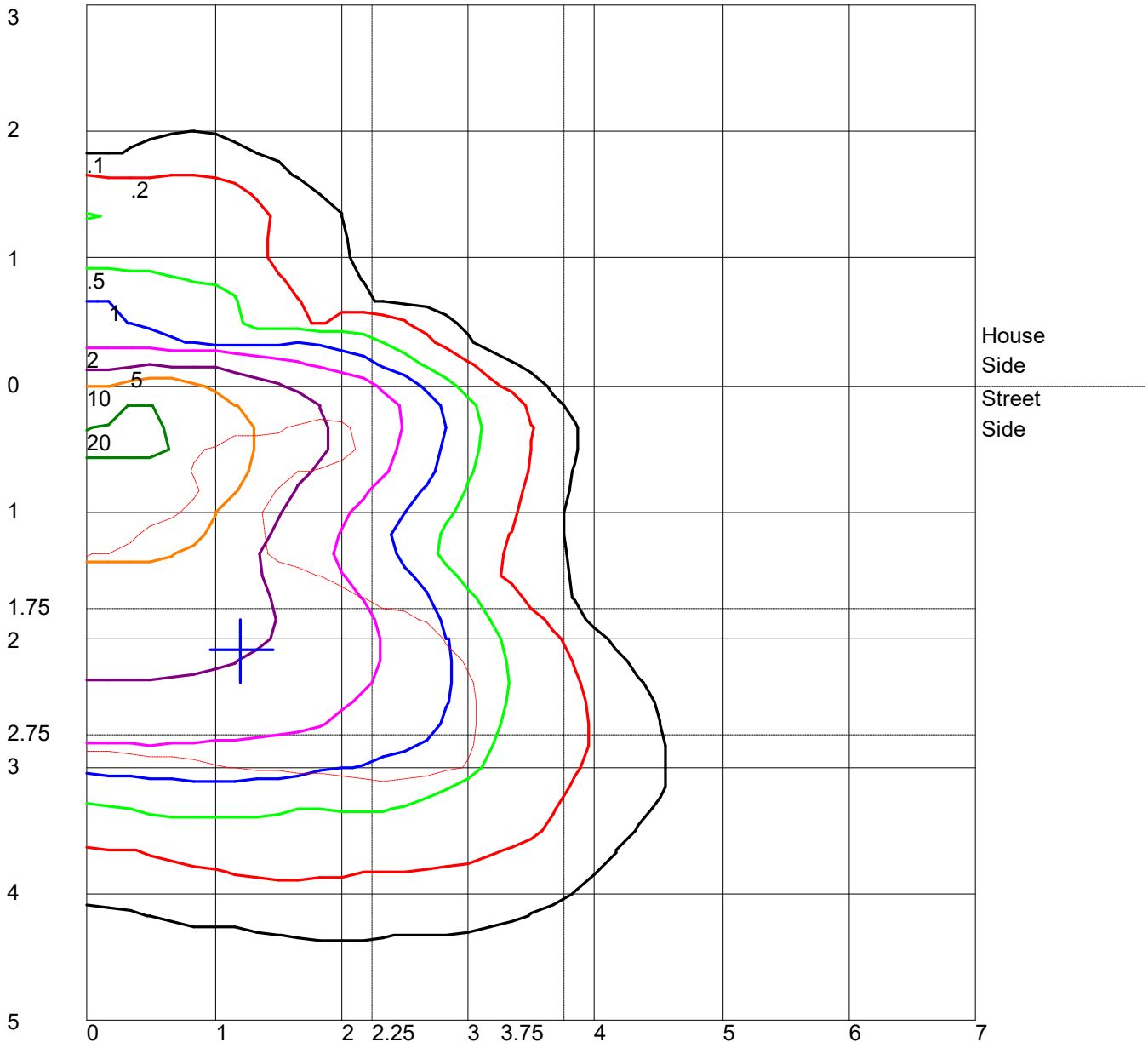
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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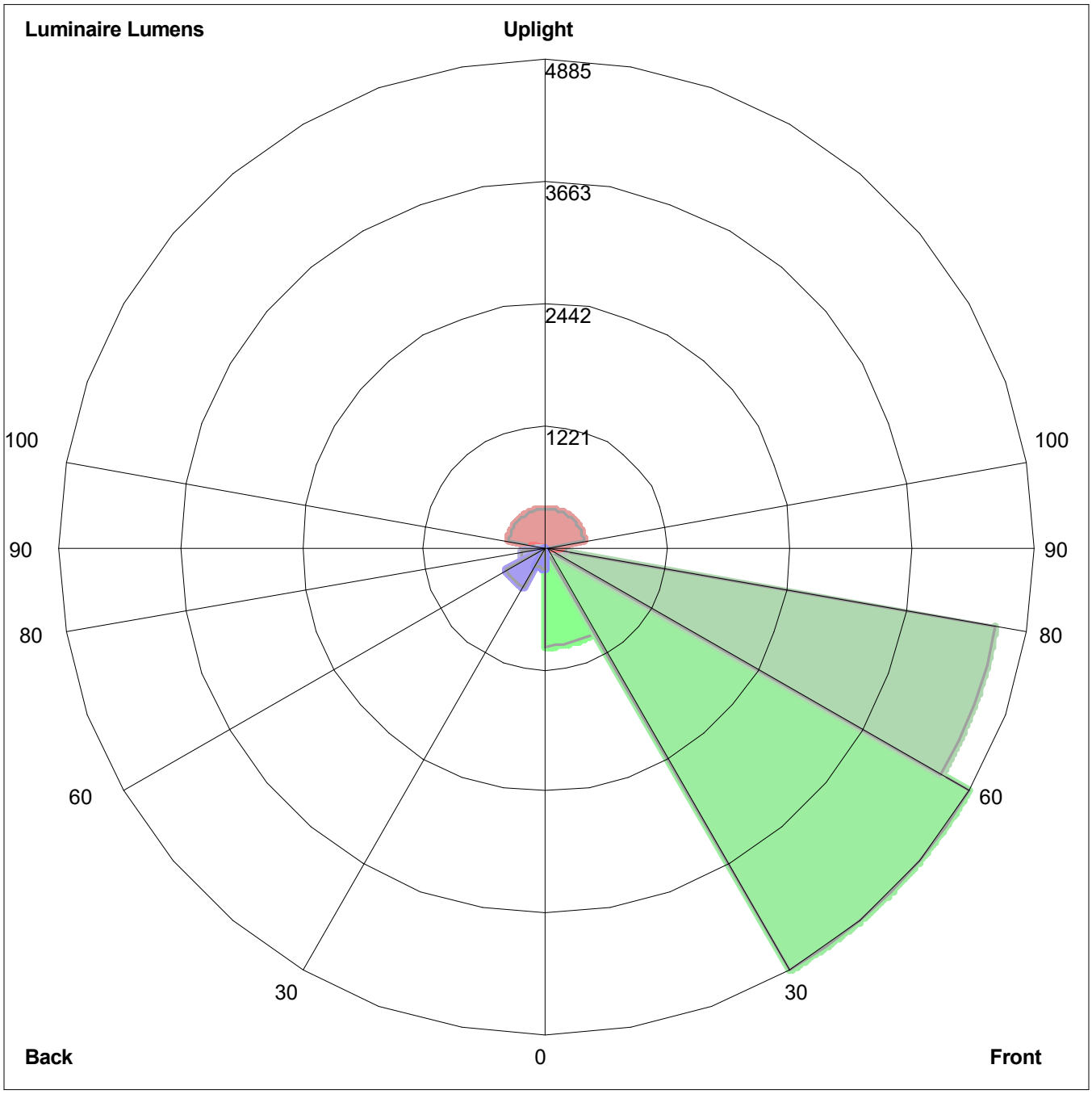
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=989.2, Medium=4884.6, High=4569.5, Very High=195.2
Back: Low=208.8, Medium=454.7, High=252.2, Very High=82.1
Uplight: Low=143.5, High=383.2

BUG Rating : B1-U3-G2

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