IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-50-70CRI-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-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12465
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	9959
Maximum Candela Angle	30H 67.5V
Maximum Candela (<90 Degrees Vertical)	9959
Maximum Candela Angle (<90 Degrees Vertical)	30H 67.5V
Maximum Candela At 90 Degrees Vertical	177 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1739 (14.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1013.7	N.A.	8.1
FM - Front-Medium (30-60)	5005.7	N.A.	40.2
FH - Front-High (60-80)	4682.8	N.A.	37.6
FVH - Front-Very High (80-90)	200.0	N.A.	1.6
BL - Back-Low (0-30)	214.0	N.A.	1.7
BM - Back-Medium (30-60)	466.0	N.A.	3.7
BH - Back-High (60-80)	258.6	N.A.	2.1
BVH - Back-Very High (80-90)	84.1	N.A.	0.7
UL - Uplight-Low (90-100)	147.0	N.A.	1.2
UH - Uplight-High (100-180)	392.9	N.A.	3.2
Total	12464.8	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	950	950	950	950	950	950	950	950	950	950
2.5	1116	1113	1079	1074	1073	1075	1062	1036	1009	985
5.0	1231	1225	1191	1231	1223	1245	1270	1224	1158	1083
7.5	1688	1646	1628	1609	1573	1523	1415	1297	1257	1179
10.0	1803	1782	1777	1820	1793	1805	1728	1607	1376	1315
12.5	1996	1926	1994	2016	1990	1959	1892	1833	1658	1421
15.0	2035	2009	2006	2035	2064	2119	2152	2035	1989	1621
17.5	2280	2214	2278	2292	2290	2242	2278	2323	2233	1934
20.0	2554	2542	2554	2493	2512	2544	2461	2525	2489	2166
22.5	2764	2764	2833	2857	2804	2735	2792	2699	2718	2466
25.0	3036	3064	3131	3024	3056	3127	2985	2904	2939	2662
27.5	3175	3183	3193	3315	3356	3299	3338	3166	3050	2915
30.0	3161	3215	3322	3395	3413	3564	3550	3417	3164	3167
32.5	3025	3038	3192	3491	3625	3713	3856	3650	3384	3312
35.0	2919	2911	3041	3364	3546	3814	4120	3863	3549	3364
37.5	2819	2824	2944	3247	3444	3735	4373	4201	3801	3386
40.0	2816	2819	2937	3227	3415	3683	4428	4490	4098	3465
42.5	3006	2982	3093	3331	3475	3719	4462	4904	4260	3681
45.0	3379	3368	3447	3618	3680	3878	4513	5150	4502	3889
47.5	3948	3939	4025	4130	4092	4208	4654	5342	4932	4187
50.0	4614	4576	4691	4858	4731	4716	4885	5496	5335	4654
52.5	4931	4940	5164	5525	5432	5345	5145	5653	5578	4804
55.0	5073	5079	5343	5895	5952	5885	5439	5606	5461	4994
57.5	5871	5837	5820	6092	6158	6164	5757	5292	5295	5209
60.0	7423	7489	7254	6904	6629	6278	5636	4805	4950	5524
62.5	8426	8537	8624	8654	8155	7207	5077	4334	4400	5628
65.0	8609	8760	9030	9657	9578	9008	5275	3797	3620	5222
67.5	8150	8255	8706	9725	9959	9866	7523	3126	2755	4174
70.0	6272	6325	7315	8597	9123	9522	8556	3699	1959	2901
72.5	2450	2745	4035	6150	7592	8770	7903	5104	1272	1546
75.0	872	950	1621	2644	3557	5265	7506	4516	883	735
77.5	642	664	864	1418	1720	2367	3755	2823	829	391
80.0	451	462	542	781	921	1203	1676	1739	884	301
82.5	249	262	293	360	421	537	827	867	590	360
85.0	134	146	167	206	247	316	467	589	415	301
87.5	75	82	105	142	165	177	241	288	243	198
90.0	52	57	79	96	105	113	144	168	159	163
92.5	58	58	80	95	103	111	126	131	142	156
95.0	65	61	82	98	105	114	130	134	145	149
97.5	70	64	84	99	106	115	130	134	142	124
100.0	74	67	86	101	107	115	129	130	130	102
102.5	77	71	86	102	108	115	127	123	112	86
105.0	80	75	87	104	109	116	123	110	94	81
107.5	82	80	87	106	110	115	115	95	82	77
110.0	84	83	88	106	111	113	104	84	75	75
112.5	85	85	89	106	108	107	93	78	70	74
115.0	87	87	89	103	103	98	85	74	67	73
117.5	89	89	89	97	95	92	81	72	65	72
120.0	90	90	87	91	89	86	78	70	65	71
122.5	90	89	84	85	85	83	77	70	66	70
125.0	88	86	81	82	83	81	76	70	66	69
127.5	85	84	80	80	81	80	76	72	68	70
130.0	83	83	80	78	79	79	78	73	70	72

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CANDELA TABULATION - (Cont.)

132.5	83	82	80	78	79	80	76	71	71	74
135.0	83	83	81	78	77	76	70	67	70	76
137.5	82	81	78	71	68	65	59	59	65	74
140.0	73	72	67	60	56	52	47	49	56	66
142.5	60	59	54	46	42	36	35	38	45	55
145.0	46	44	39	31	29	26	26	28	33	42
147.5	30	30	27	23	21	17	12	17	24	30
150.0	22	22	19	13	9	6	6	8	14	19
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	950	950	950	950	950	950	950	950	950	950
2.5	967	966	956	940	911	876	848	841	834	825
5.0	1012	986	958	885	830	841	831	798	777	757
7.5	1065	1016	973	863	846	792	735	672	606	536
10.0	1148	1077	990	908	814	719	560	425	369	316
12.5	1313	1204	1058	974	808	556	400	297	253	240
15.0	1441	1307	1160	1024	733	445	280	235	225	220
17.5	1620	1447	1269	1048	635	331	230	216	214	208
20.0	1801	1565	1396	1047	527	250	219	205	202	203
22.5	1951	1787	1513	1039	397	228	210	195	193	189
25.0	2160	1864	1604	990	287	222	203	186	180	182
27.5	2353	1996	1735	911	246	215	197	176	169	166
30.0	2415	2116	1773	762	239	207	187	167	156	158
32.5	2598	2180	1827	642	233	201	178	156	157	165
35.0	2689	2271	1864	540	229	194	166	156	170	185
37.5	2779	2421	1871	416	221	186	157	168	186	190
40.0	2888	2497	1882	326	214	177	160	187	191	164
42.5	3115	2541	1915	277	206	168	178	197	158	119
45.0	3216	2694	1902	260	196	175	202	174	126	99
47.5	3343	2728	1914	261	192	191	206	143	114	93
50.0	3575	2770	1834	287	234	209	180	130	112	96
52.5	3631	2898	1791	245	245	270	161	127	128	170
55.0	3839	3030	1685	218	185	266	188	151	233	290
57.5	4142	3164	1689	206	177	176	235	251	312	270
60.0	4517	3528	1740	195	175	156	230	310	228	112
62.5	4750	3617	1682	184	170	152	238	239	140	112
65.0	4810	3497	1446	178	162	186	208	153	146	120
67.5	4315	2949	1098	174	152	188	148	153	147	122
70.0	3237	1922	601	166	158	168	154	163	140	123
72.5	1628	887	292	161	155	165	156	147	142	127
75.0	713	463	217	160	167	162	153	149	143	135
77.5	474	326	188	158	166	152	157	152	146	140

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CANDELA TABULATION - (Cont.)

80.0	346	270	170	168	160	153	161	153	147	141
82.5	263	213	153	179	167	156	167	158	152	145
85.0	210	150	150	189	173	163	173	162	154	149
87.5	162	108	145	185	175	165	179	169	158	150
90.0	124	88	152	177	172	158	177	172	165	153
92.5	105	105	150	178	176	159	179	177	171	159
95.0	107	137	142	176	174	154	177	179	176	166
97.5	112	144	137	162	162	145	167	170	171	164
100.0	118	137	131	143	152	137	157	161	164	156
102.5	114	127	123	126	141	133	150	154	158	147
105.0	106	117	116	115	132	132	145	150	153	137
107.5	99	109	110	108	123	130	143	148	150	126
110.0	94	102	104	103	115	126	140	147	146	116
112.5	90	96	99	100	108	122	138	145	141	108
115.0	86	92	94	98	104	119	134	143	136	101
117.5	82	88	91	96	101	116	130	139	129	95
120.0	79	85	88	94	98	114	127	134	119	92
122.5	77	81	85	92	98	111	123	126	110	91
125.0	75	79	83	91	97	109	119	118	100	89
127.5	75	78	83	91	97	108	114	110	92	88
130.0	76	79	83	91	96	106	108	101	87	86
132.5	77	80	84	91	94	102	103	94	83	84
135.0	80	83	86	92	92	91	93	89	81	83
137.5	81	84	86	88	85	78	77	76	80	82
140.0	75	77	79	78	72	64	59	60	68	77
142.5	63	65	66	64	57	49	42	45	54	62
145.0	48	50	50	48	42	35	30	31	39	47
147.5	33	34	34	33	29	22	20	22	27	33
150.0	21	22	22	21	17	11	10	14	18	22
152.5	12	12	12	12	10	7	5	6	11	15
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	950	950
2.5	825	825
5.0	747	755
7.5	509	514
10.0	293	297
12.5	230	226
15.0	218	218
17.5	206	204
20.0	200	201
22.5	186	186
25.0	176	176

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CANDELA TABULATION - (Cont.)

27.5	161	162
30.0	158	157
32.5	172	171
35.0	190	190
37.5	190	189
40.0	150	145
42.5	112	108
45.0	97	95
47.5	92	92
50.0	100	100
52.5	209	225
55.0	302	311
57.5	185	184
60.0	90	96
62.5	88	92
65.0	89	92
67.5	85	84
70.0	84	78
72.5	84	71
75.0	84	64
77.5	88	59
80.0	91	54
82.5	93	51
85.0	92	51
87.5	94	53
90.0	97	59
92.5	101	71
95.0	107	88
97.5	108	99
100.0	105	107
102.5	101	110
105.0	98	109
107.5	97	107
110.0	96	105
112.5	97	103
115.0	98	101
117.5	97	99
120.0	97	98
122.5	96	97
125.0	95	95
127.5	93	93
130.0	91	91
132.5	88	88
135.0	85	86
137.5	84	84
140.0	81	82
142.5	67	67
145.0	51	52
147.5	36	37
150.0	24	25
152.5	16	16
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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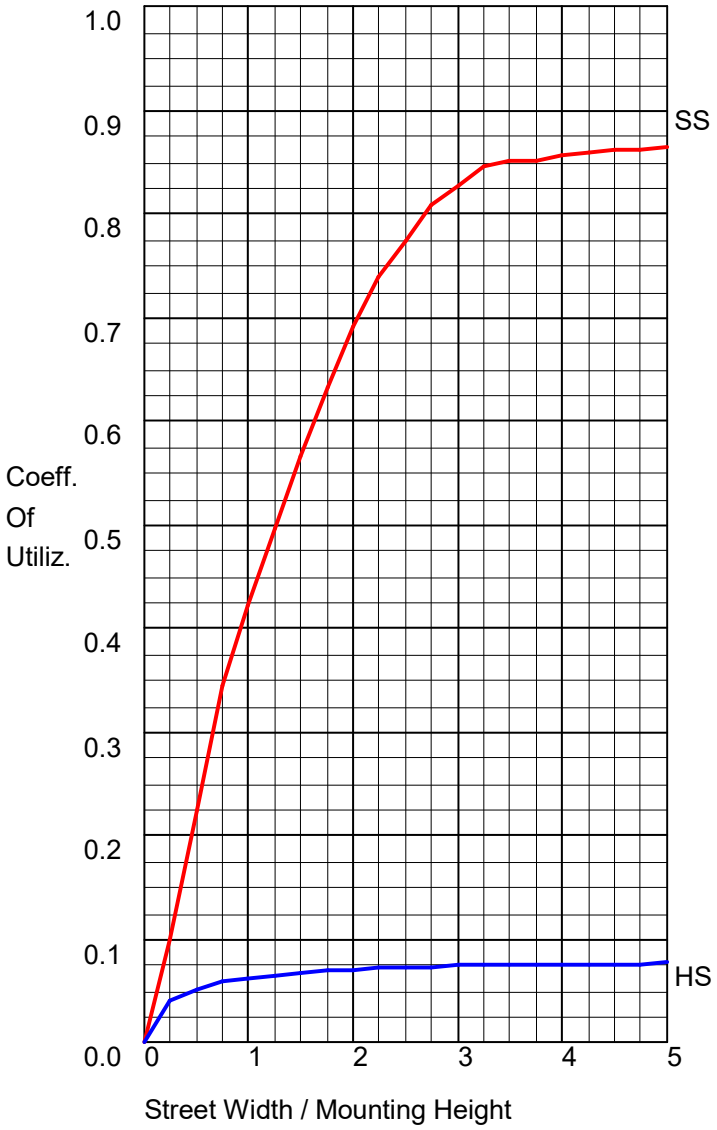
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10902.3	87.5
Downward House Side	1022.6	8.2
Downward Total	11924.9	95.7
Upward Street Side	233.7	1.9
Upward House Side	306.2	2.5
Upward Total	539.9	4.3
Total Flux	12464.8	100.0

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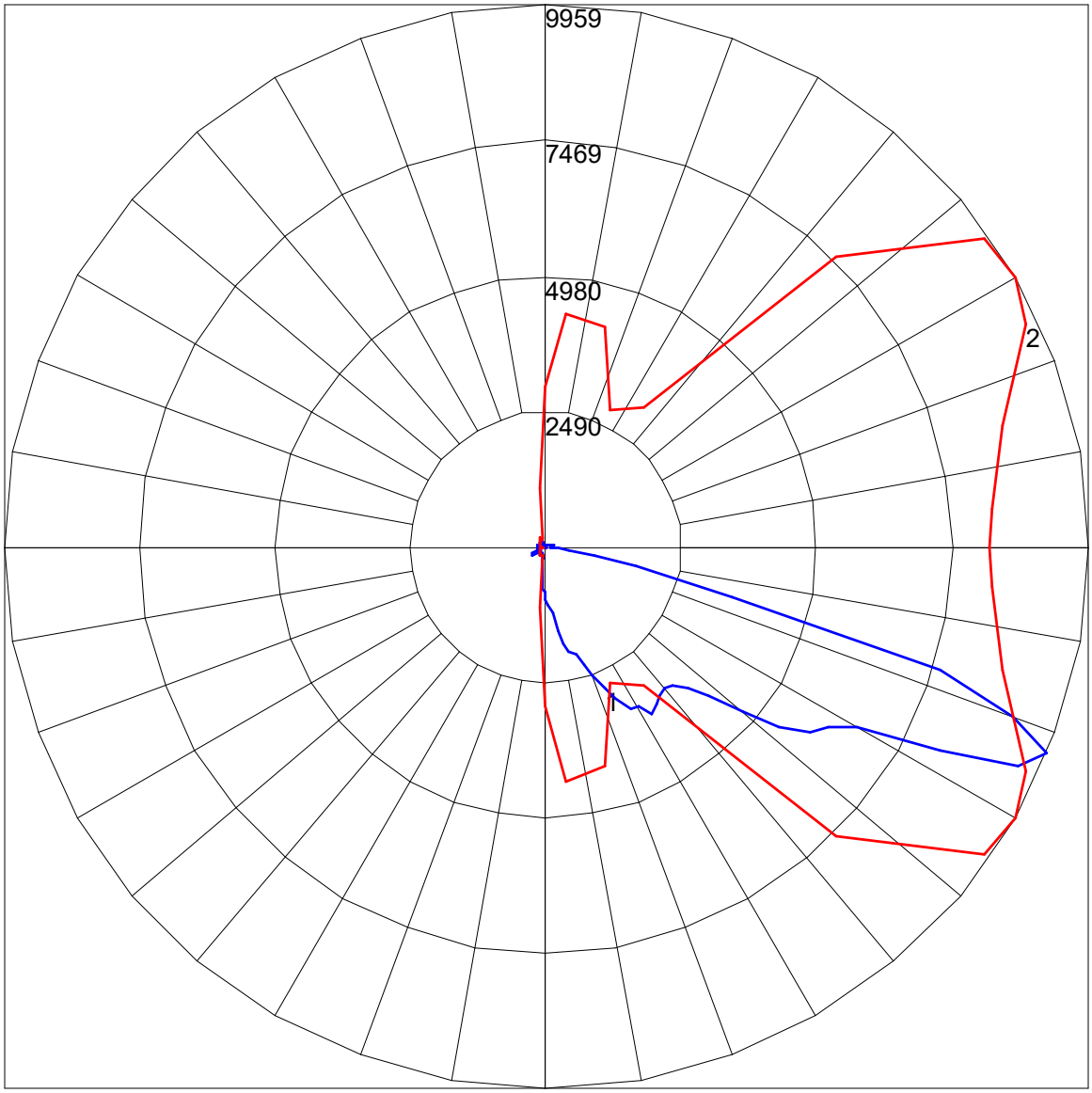
POLAR GRAPH



Maximum Candela = 9959 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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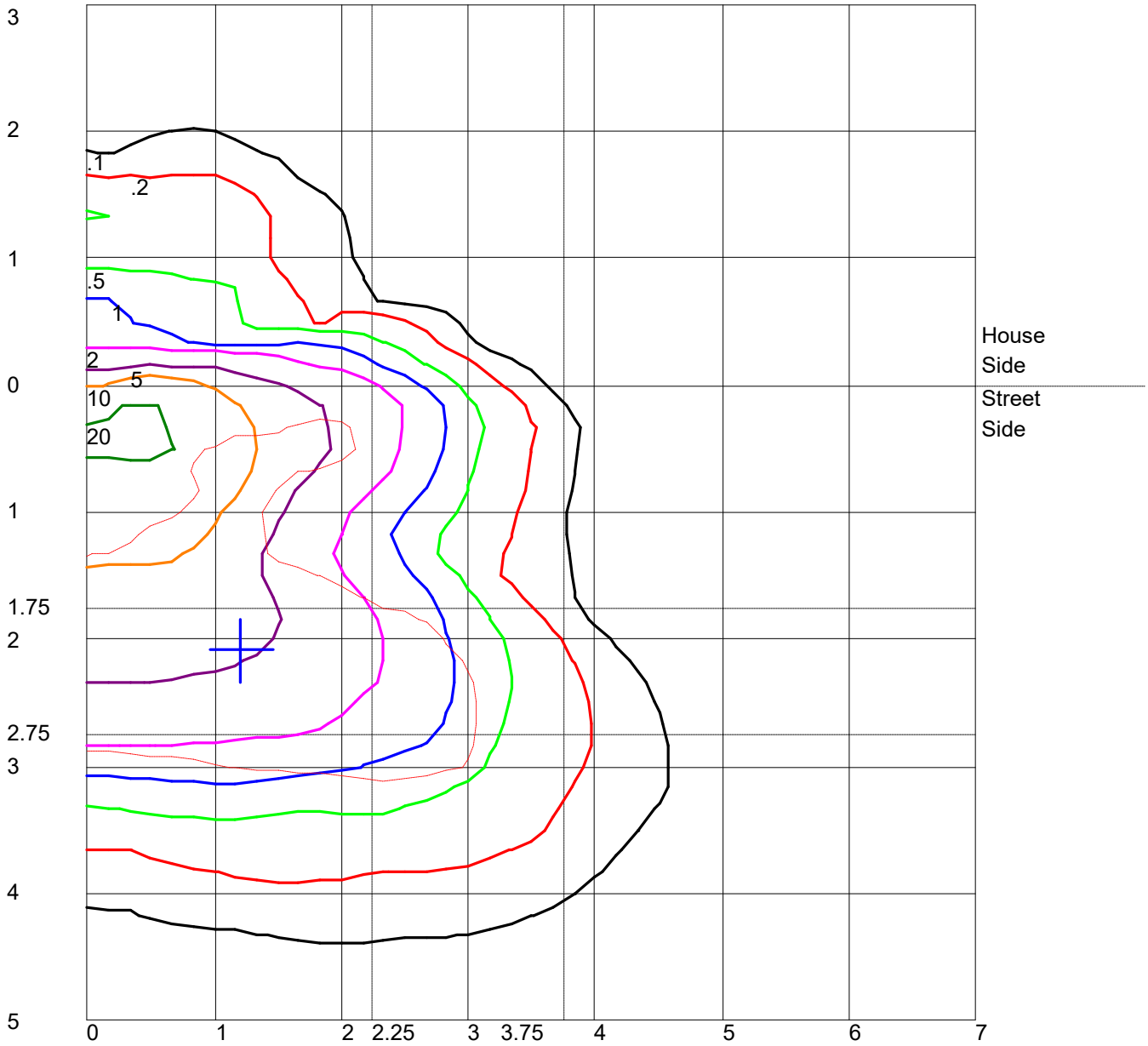
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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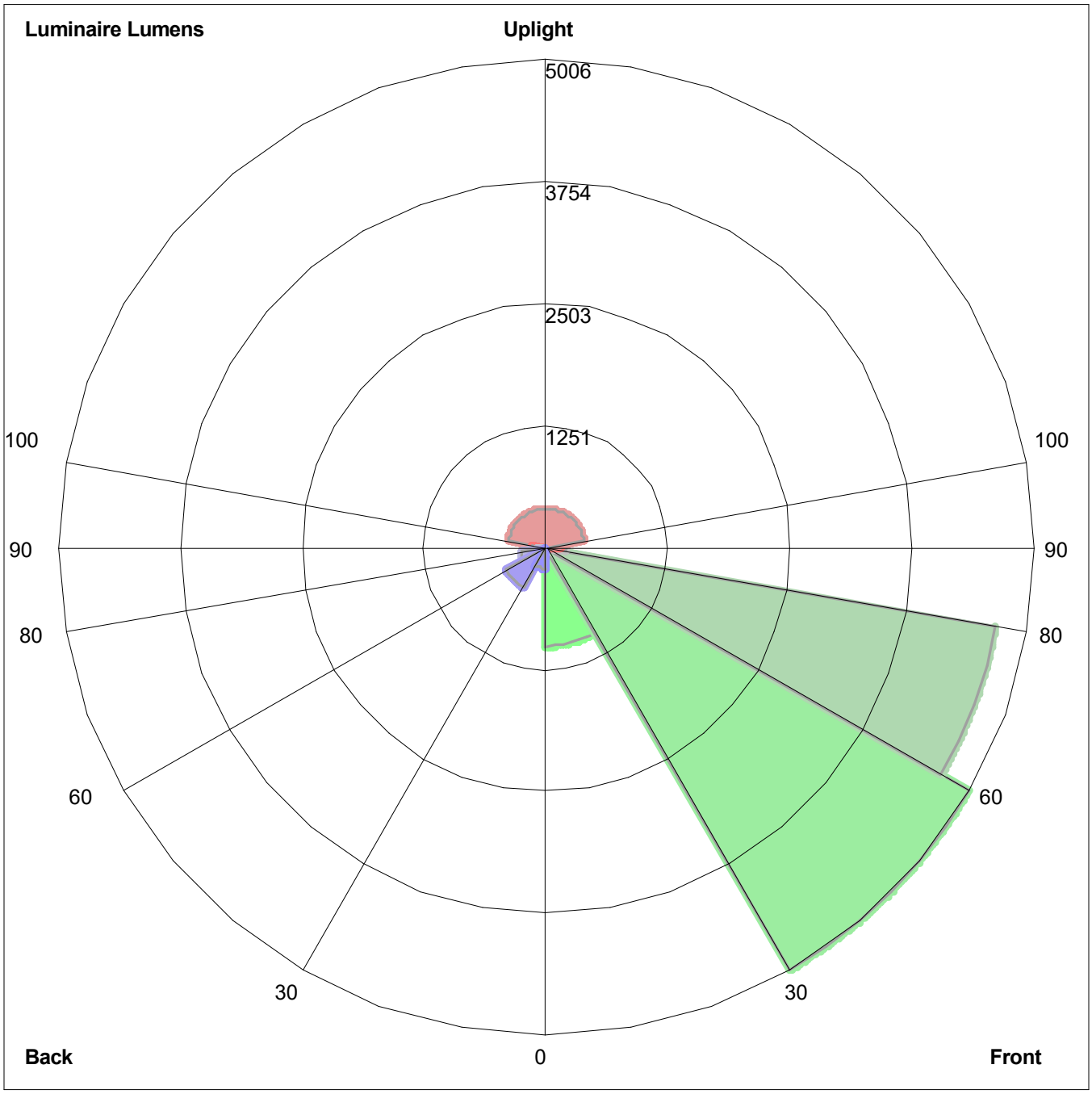
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1013.7, Medium=5005.7, High=4682.8, Very High=200.0
Back: Low=214.0, Medium=466.0, High=258.6, Very High=84.1
Uplight: Low=147.0, High=392.9

BUG Rating : B1-U3-G2

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