IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-30-70CRI-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12641
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-3-30-70CRI-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12751
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	10429
Maximum Candela Angle	35H 67.5V
Maximum Candela (<90 Degrees Vertical)	10429
Maximum Candela Angle (<90 Degrees Vertical)	35H 67.5V
Maximum Candela At 90 Degrees Vertical	321 (2.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1338 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	675.1	N.A.	5.3
FM - Front-Medium (30-60)	5671.3	N.A.	44.5
FH - Front-High (60-80)	4701.7	N.A.	36.9
FVH - Front-Very High (80-90)	271.2	N.A.	2.1
BL - Back-Low (0-30)	151.9	N.A.	1.2
BM - Back-Medium (30-60)	411.7	N.A.	3.2
BH - Back-High (60-80)	276.8	N.A.	2.2
BVH - Back-Very High (80-90)	87.5	N.A.	0.7
UL - Uplight-Low (90-100)	157.5	N.A.	1.2
UH - Uplight-High (100-180)	346.0	N.A.	2.7
Total	12750.7	N.A.	100.0
BUG Rating	B1-U3-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	30	35	45	55	65	75
0.0	544	544	544	544	544	544	544	544	544	544
2.5	622	615	610	604	610	597	592	578	565	558
5.0	856	846	840	816	817	798	774	717	651	590
7.5	998	1000	972	988	999	1006	973	869	780	669
10.0	1086	1099	1125	1093	1107	1116	1049	1032	934	777
12.5	1128	1125	1128	1152	1147	1142	1169	1125	1097	891
15.0	1246	1214	1232	1252	1226	1218	1225	1227	1175	1056
17.5	1279	1306	1290	1292	1335	1374	1316	1329	1320	1207
20.0	1443	1462	1475	1510	1468	1469	1520	1483	1455	1405
22.5	1695	1681	1682	1709	1715	1730	1696	1711	1697	1608
25.0	1891	1906	1996	2082	2038	2020	2048	2030	2006	1981
27.5	2280	2322	2365	2384	2446	2537	2448	2425	2459	2232
30.0	2600	2577	2765	2904	2924	2935	3120	2948	2822	2611
32.5	2980	3011	3187	3279	3393	3543	3622	3534	3335	3047
35.0	3199	3227	3418	3768	3922	4002	4265	4225	3809	3314
37.5	3289	3364	3589	4038	4264	4577	4853	4735	4130	3614
40.0	3342	3374	3707	4286	4559	4954	5383	5170	4507	3798
42.5	3341	3389	3834	4532	4854	5293	5886	5552	4890	3932
45.0	3393	3460	4022	4889	5207	5666	6250	5930	5145	4073
47.5	3535	3601	4309	5321	5669	6170	6624	6361	5250	4383
50.0	3597	3670	4511	5703	6146	6666	7024	6621	5525	4618
52.5	3610	3681	4569	5893	6465	7040	7426	6832	5836	4939
55.0	4157	4149	4801	6040	6624	7180	7691	7062	6182	5598
57.5	6246	6144	6253	6670	6991	7287	7794	7086	6418	6058
60.0	8389	8346	8375	8330	8212	7835	7621	6742	6375	6489
62.5	9183	9251	9407	9626	9564	9063	7448	6088	6183	6955
65.0	7483	7612	8630	10032	10295	9909	8072	5338	5560	6970
67.5	3033	3147	4530	7903	9681	10429	8917	4789	4456	6593
70.0	1451	1460	1822	3320	5773	8385	9587	5448	3130	5172
72.5	1141	1154	1325	1879	2501	3657	8939	7616	2165	2996
75.0	950	978	1100	1377	1626	1983	4629	6310	2015	1072
77.5	809	832	914	1102	1231	1432	1952	3384	1199	497
80.0	710	729	781	871	934	1079	1338	1311	710	340
82.5	604	617	649	703	744	819	1028	963	581	313
85.0	392	403	422	455	488	543	749	855	531	304
87.5	214	228	245	274	300	334	483	588	426	246
90.0	106	111	135	161	181	201	267	321	255	191
92.5	56	60	84	105	113	123	153	179	167	171
95.0	60	58	82	99	105	114	133	141	155	160
97.5	66	60	83	99	106	114	131	137	151	137
100.0	71	62	84	100	107	114	129	133	140	117
102.5	73	64	84	101	107	113	127	127	123	92
105.0	75	67	83	101	108	113	124	116	104	78
107.5	76	71	82	102	108	112	117	103	85	71
110.0	77	74	81	102	107	110	108	87	72	65
112.5	77	76	80	100	105	106	95	75	63	62
115.0	77	77	79	97	99	97	83	68	58	61
117.5	78	78	78	91	91	87	74	62	54	60
120.0	78	77	76	84	83	79	69	60	52	58
122.5	77	76	71	75	75	73	65	58	52	56
125.0	75	74	67	69	70	68	63	58	53	56
127.5	71	69	64	64	66	65	61	58	54	56
130.0	67	66	62	61	63	62	60	59	55	57

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CANDELA TABULATION - (Cont.)

132.5	65	64	62	60	60	61	60	58	56	59
135.0	63	63	61	59	60	60	59	56	55	59
137.5	64	63	61	59	57	56	53	50	52	57
140.0	61	60	58	52	49	47	43	42	45	51
142.5	54	53	49	43	40	36	33	34	36	42
145.0	44	43	39	33	30	25	23	24	28	33
147.5	33	32	28	22	20	17	14	15	19	23
150.0	21	21	18	15	13	10	8	10	12	13
152.5	15	15	12	7	6	5	4	5	8	10
155.0	5	5	3	3	3	3	2	3	5	6
157.5	1	1	2	2	2	2	2	3	3	4
160.0	0	1	1	1	2	2	2	2	3	3
162.5	0	1	1	2	2	2	2	2	3	3
165.0	0	1	1	2	2	2	2	2	3	3
167.5	0	1	1	2	2	2	2	2	3	3
170.0	0	1	1	2	2	2	2	2	2	3
172.5	0	1	1	2	2	2	2	2	3	3
175.0	0	1	2	2	2	2	2	2	2	3
177.5	0	1	2	2	2	2	2	2	2	3
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	544	544	544	544	544	544	544	544	544	544
2.5	550	543	540	533	517	511	506	503	496	493
5.0	565	558	541	512	487	466	442	422	395	375
7.5	587	563	539	498	454	395	344	324	317	308
10.0	630	594	556	482	395	336	321	308	296	287
12.5	667	618	573	467	355	330	309	295	295	290
15.0	771	661	604	452	359	329	309	301	279	264
17.5	852	711	629	450	373	334	311	274	245	231
20.0	1002	805	698	484	398	345	281	240	216	203
22.5	1191	915	792	531	418	321	245	210	196	195
25.0	1450	1083	934	607	413	272	219	192	184	178
27.5	1674	1339	1066	655	366	234	199	182	167	163
30.0	2053	1510	1271	653	288	215	191	169	154	146
32.5	2324	1724	1405	620	246	205	179	156	141	137
35.0	2533	1904	1453	546	228	196	165	146	135	129
37.5	2729	2012	1465	476	218	185	155	144	133	122
40.0	2849	2113	1499	404	210	173	152	146	128	103
42.5	2998	2272	1430	320	202	168	156	144	113	89
45.0	3105	2305	1406	268	196	172	161	132	108	87
47.5	3229	2363	1483	256	197	177	157	126	108	87
50.0	3486	2561	1504	254	206	186	151	125	111	90
52.5	3719	2752	1596	243	213	209	153	128	127	156
55.0	4189	3116	1732	220	181	206	173	149	191	200
57.5	4854	3584	1846	207	168	168	183	195	222	149
60.0	5597	4102	1983	195	164	158	190	207	174	110
62.5	6202	4474	2098	185	163	162	185	170	163	122
65.0	6403	4458	1769	180	164	170	169	140	154	127
67.5	5958	3607	1212	179	162	168	156	154	141	124
70.0	4664	2282	623	171	166	176	162	149	143	126
72.5	2294	1034	255	170	166	169	157	151	138	131
75.0	642	364	213	169	167	162	161	153	142	133
77.5	421	278	191	174	171	162	165	157	148	137

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CANDELA TABULATION - (Cont.)

80.0	313	239	175	178	170	163	170	160	152	141
82.5	247	199	171	190	177	167	177	165	157	149
85.0	210	153	162	192	180	171	182	172	159	151
87.5	172	128	156	194	181	171	185	174	163	152
90.0	143	108	163	193	182	170	186	178	168	156
92.5	133	110	160	192	183	168	185	180	174	161
95.0	122	139	151	186	179	160	178	177	172	161
97.5	112	153	146	170	167	149	169	167	166	154
100.0	115	146	140	148	156	140	159	161	161	145
102.5	113	132	130	129	142	134	152	155	156	135
105.0	105	118	119	114	129	130	145	149	150	124
107.5	94	105	108	105	117	122	138	144	143	112
110.0	85	95	98	97	106	115	132	139	137	103
112.5	79	86	89	91	97	109	126	134	130	94
115.0	74	80	83	87	91	105	120	129	121	87
117.5	69	74	78	84	87	101	114	121	111	81
120.0	65	70	73	80	84	97	108	114	100	76
122.5	62	66	70	77	83	93	104	106	89	74
125.0	60	63	67	75	82	92	99	97	80	71
127.5	60	62	66	74	81	90	93	88	72	68
130.0	60	62	65	73	80	87	88	80	66	65
132.5	61	63	66	74	77	81	82	73	63	63
135.0	62	64	67	73	73	70	69	64	60	62
137.5	61	63	65	68	66	60	53	51	52	59
140.0	57	59	60	60	56	48	38	36	41	47
142.5	47	49	51	49	43	36	28	25	30	35
145.0	37	38	38	36	32	24	18	16	19	24
147.5	26	27	27	25	21	15	11	11	13	15
150.0	15	15	15	15	13	10	7	6	8	10
152.5	11	11	11	11	9	7	5	4	4	5
155.0	7	7	7	7	7	6	4	3	3	3
157.5	4	5	5	5	5	5	4	3	2	2
160.0	3	4	4	4	5	5	3	3	2	1
162.5	3	3	4	4	5	4	3	3	2	1
165.0	3	3	4	4	5	4	3	3	2	1
167.5	3	3	3	4	5	4	3	3	2	1
170.0	3	3	3	4	4	4	3	2	2	1
172.5	3	3	3	4	4	4	3	2	1	1
175.0	3	3	3	4	4	4	3	2	1	0
177.5	3	3	3	4	4	4	3	2	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	544	544
2.5	486	487
5.0	361	360
7.5	305	304
10.0	285	282
12.5	286	286
15.0	256	254
17.5	224	222
20.0	199	196
22.5	188	187
25.0	172	172

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CANDELA TABULATION - (Cont.)

27.5	156	155
30.0	142	140
32.5	134	132
35.0	128	127
37.5	118	115
40.0	99	96
42.5	89	88
45.0	86	86
47.5	86	87
50.0	91	92
52.5	172	177
55.0	200	205
57.5	84	84
60.0	78	82
62.5	78	79
65.0	77	75
67.5	77	69
70.0	75	62
72.5	77	57
75.0	82	51
77.5	83	47
80.0	85	44
82.5	89	48
85.0	91	50
87.5	93	56
90.0	95	62
92.5	100	79
95.0	102	92
97.5	102	103
100.0	100	108
102.5	98	110
105.0	95	108
107.5	93	104
110.0	91	100
112.5	89	95
115.0	87	90
117.5	85	86
120.0	83	84
122.5	79	81
125.0	76	77
127.5	72	73
130.0	68	69
132.5	65	65
135.0	63	63
137.5	61	61
140.0	50	50
142.5	37	38
145.0	27	27
147.5	16	17
150.0	11	11
152.5	6	6
155.0	2	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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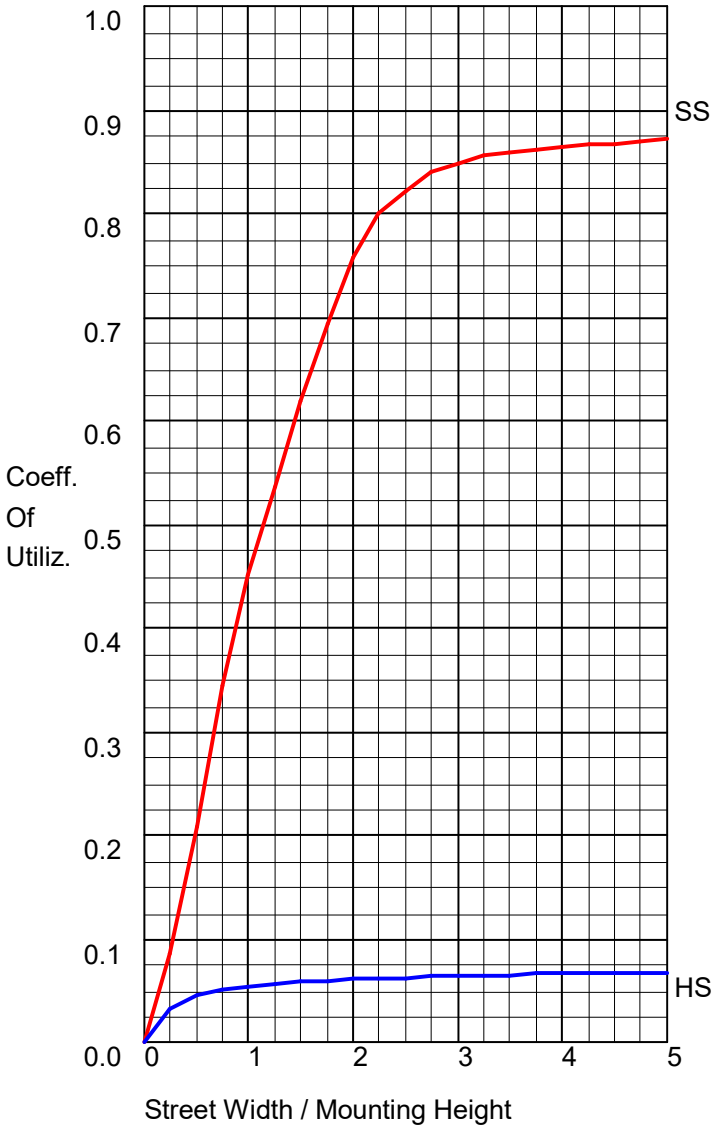
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11319.4	88.8
Downward House Side	927.9	7.3
Downward Total	12247.3	96.1
Upward Street Side	225.2	1.8
Upward House Side	278.3	2.2
Upward Total	503.5	3.9
Total Flux	12750.8	100.0

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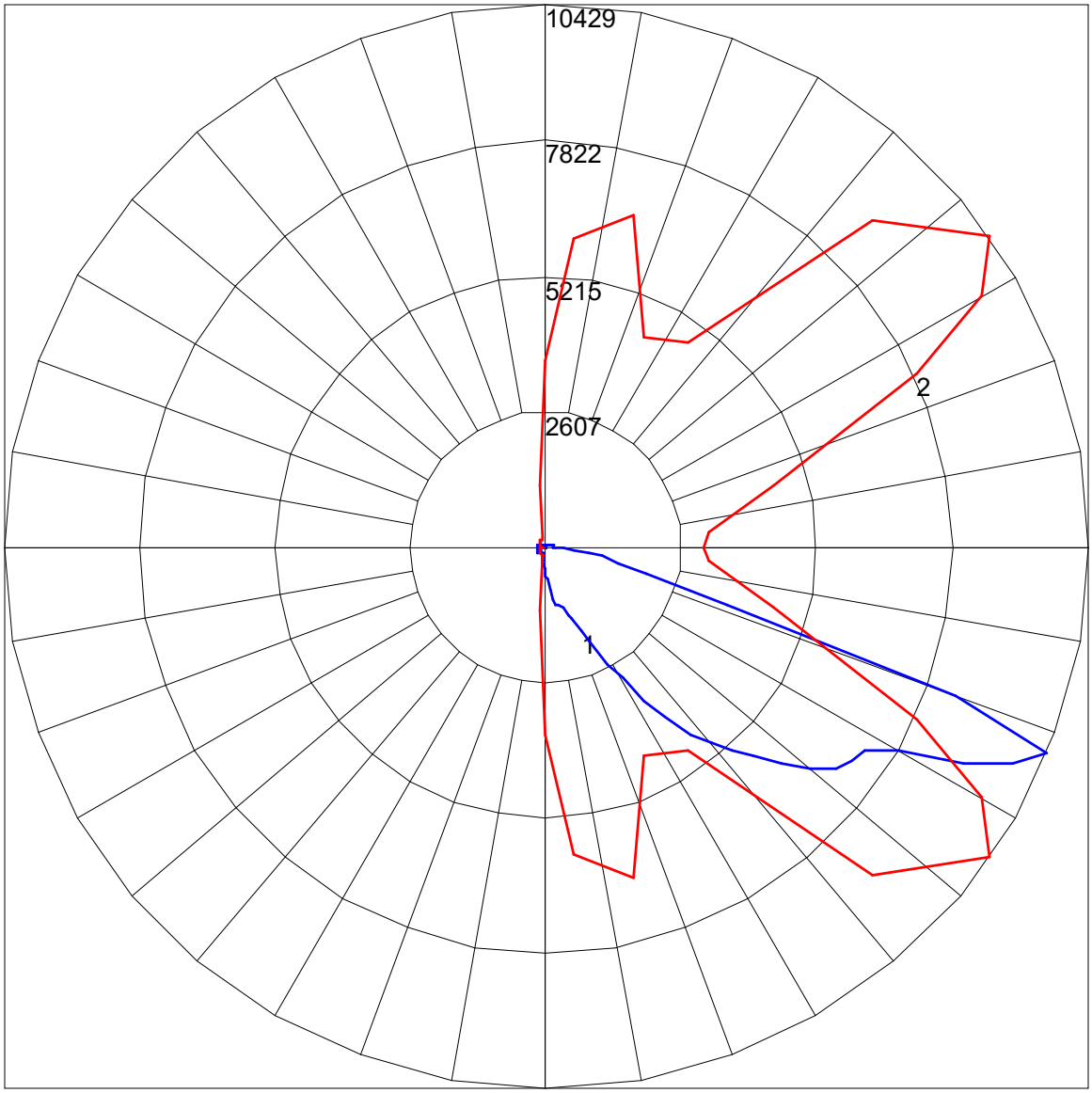
POLAR GRAPH



Maximum Candela = 10429 Located At Horizontal Angle = 35, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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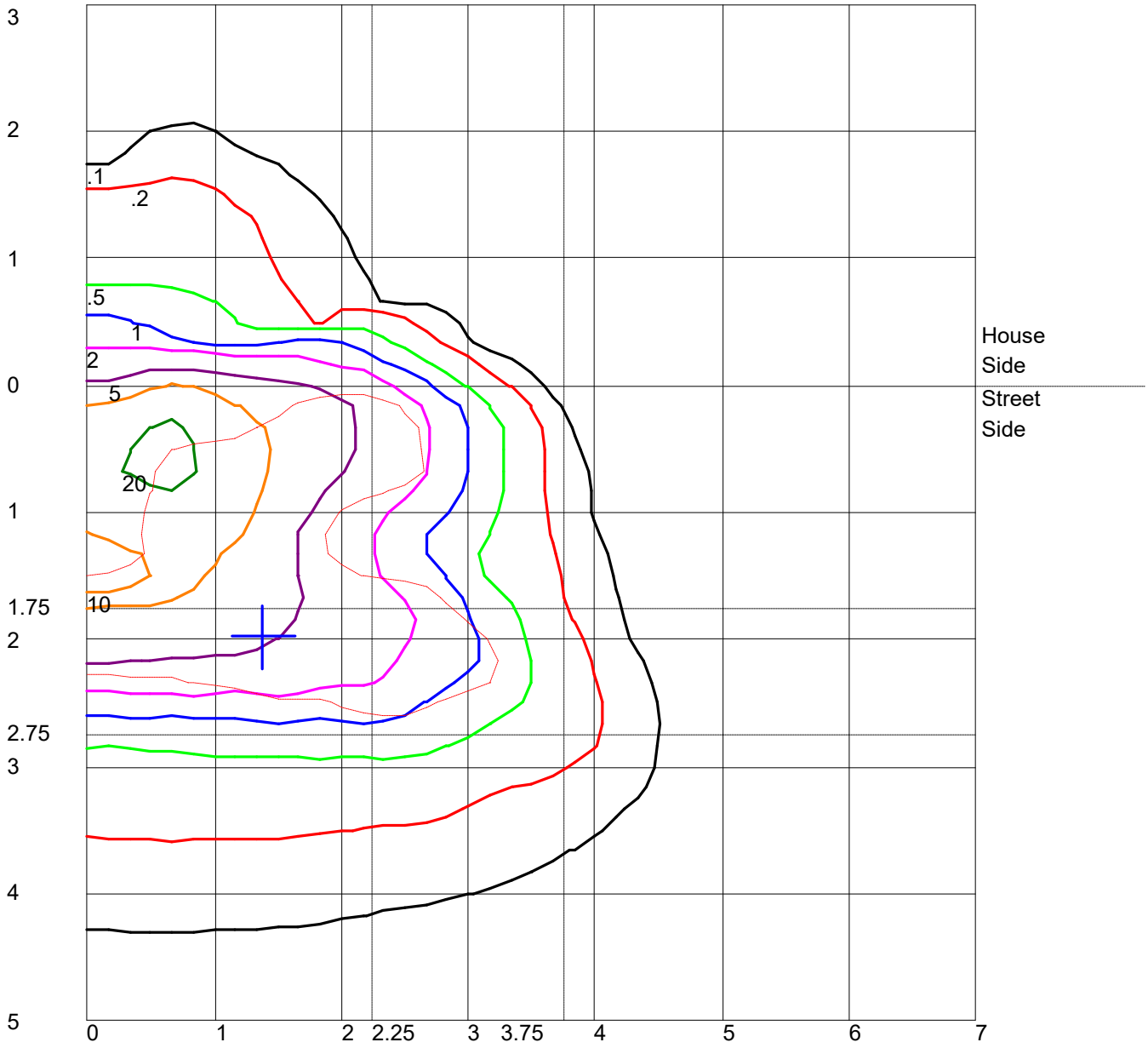
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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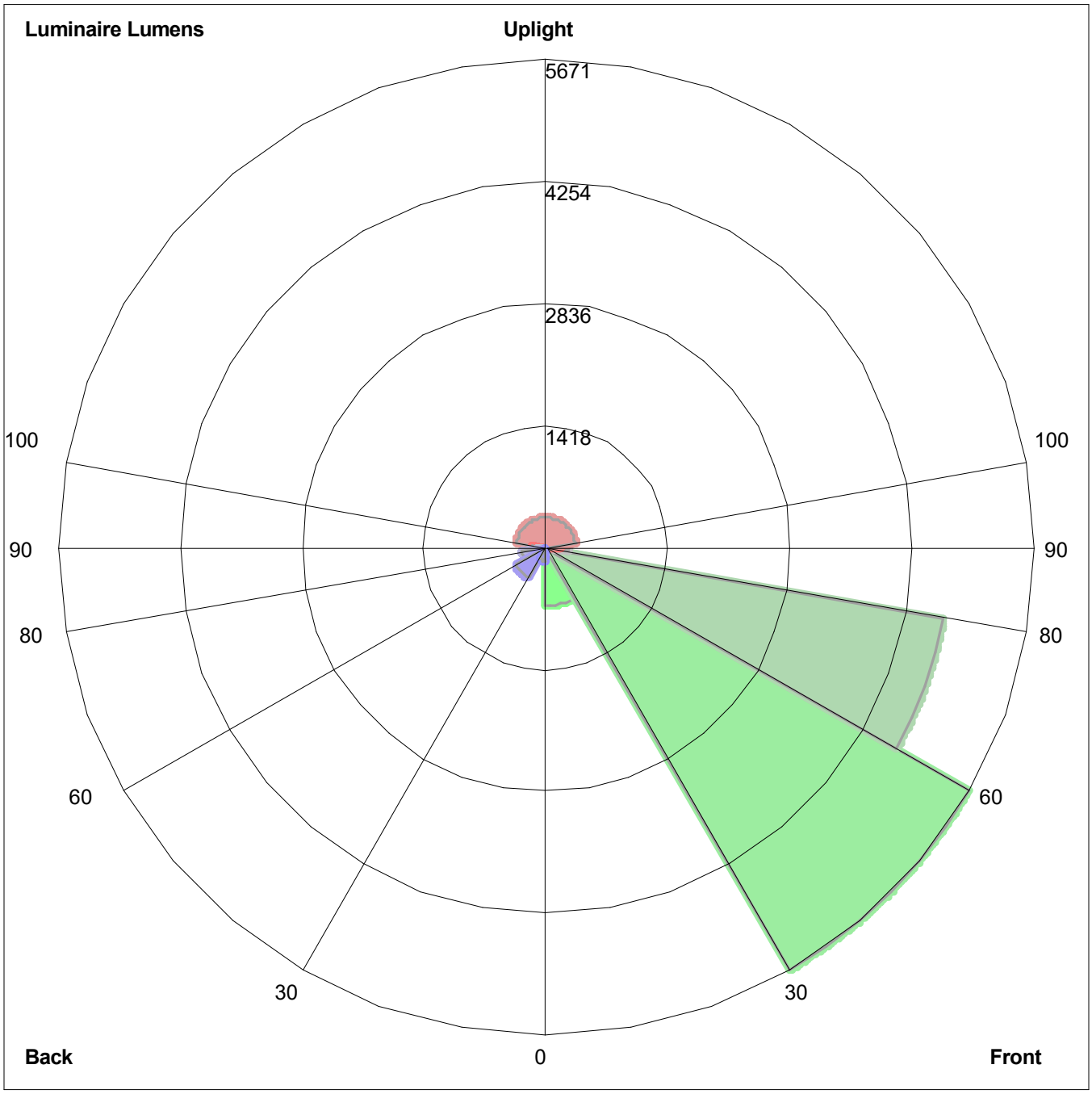
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=675.1, Medium=5671.3, High=4701.7, Very High=271.2
Back: Low=151.9, Medium=411.7, High=276.8, Very High=87.5
Uplight: Low=157.5, High=346.0

BUG Rating : B1-U3-G3

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