IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-40-70CRI-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-3-40-70CRI-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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13281
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	10862
Maximum Candela Angle	35H 67.5V
Maximum Candela (<90 Degrees Vertical)	10862
Maximum Candela Angle (<90 Degrees Vertical)	35H 67.5V
Maximum Candela At 90 Degrees Vertical	334 (2.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1394 (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)	703.2	N.A.	5.3
FM - Front-Medium (30-60)	5907.1	N.A.	44.5
FH - Front-High (60-80)	4897.1	N.A.	36.9
FVH - Front-Very High (80-90)	282.5	N.A.	2.1
BL - Back-Low (0-30)	158.2	N.A.	1.2
BM - Back-Medium (30-60)	428.8	N.A.	3.2
BH - Back-High (60-80)	288.4	N.A.	2.2
BVH - Back-Very High (80-90)	91.1	N.A.	0.7
UL - Uplight-Low (90-100)	164.0	N.A.	1.2
UH - Uplight-High (100-180)	360.2	N.A.	2.7
Total	13280.6	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	567	567	567	567	567	567	567	567	567	567
2.5	648	641	635	629	635	622	617	602	589	581
5.0	892	881	875	850	851	831	806	747	678	615
7.5	1039	1042	1012	1029	1041	1048	1013	905	812	697
10.0	1131	1145	1172	1138	1153	1162	1093	1075	973	809
12.5	1175	1172	1175	1200	1195	1189	1218	1172	1143	928
15.0	1298	1264	1283	1304	1277	1269	1276	1278	1224	1100
17.5	1332	1360	1344	1346	1390	1431	1371	1384	1375	1257
20.0	1503	1523	1536	1573	1529	1530	1583	1545	1515	1463
22.5	1765	1751	1752	1780	1786	1802	1767	1782	1768	1675
25.0	1970	1985	2079	2169	2123	2104	2133	2114	2089	2063
27.5	2375	2418	2463	2483	2548	2642	2550	2526	2561	2325
30.0	2708	2684	2880	3025	3046	3057	3250	3070	2939	2720
32.5	3104	3136	3319	3415	3534	3690	3773	3681	3474	3174
35.0	3332	3361	3560	3925	4085	4168	4442	4401	3967	3452
37.5	3426	3504	3738	4206	4441	4767	5055	4932	4302	3764
40.0	3481	3514	3861	4464	4748	5160	5607	5385	4694	3956
42.5	3480	3530	3993	4720	5056	5513	6131	5783	5093	4095
45.0	3534	3604	4189	5092	5423	5901	6510	6176	5359	4242
47.5	3682	3751	4488	5542	5905	6426	6899	6625	5468	4565
50.0	3747	3823	4698	5940	6401	6943	7316	6896	5755	4810
52.5	3760	3834	4759	6138	6734	7333	7735	7116	6079	5144
55.0	4330	4321	5001	6291	6899	7478	8011	7355	6439	5831
57.5	6506	6399	6513	6947	7282	7590	8118	7380	6685	6310
60.0	8738	8693	8723	8676	8553	8161	7938	7022	6640	6759
62.5	9565	9635	9798	10026	9961	9440	7758	6341	6440	7244
65.0	7794	7928	8989	10449	10723	10321	8407	5560	5791	7260
67.5	3159	3278	4718	8231	10083	10862	9288	4988	4641	6867
70.0	1511	1521	1898	3458	6013	8733	9985	5674	3260	5387
72.5	1188	1202	1380	1957	2605	3809	9311	7932	2255	3121
75.0	989	1019	1146	1434	1694	2065	4821	6572	2099	1117
77.5	843	867	952	1148	1282	1492	2033	3525	1249	518
80.0	739	759	813	907	973	1124	1394	1365	739	354
82.5	629	643	676	732	775	853	1071	1003	605	326
85.0	408	420	440	474	508	566	780	891	553	317
87.5	223	237	255	285	312	348	503	612	444	256
90.0	110	116	141	168	189	209	278	334	266	199
92.5	58	63	88	109	118	128	159	186	174	178
95.0	62	60	85	103	109	119	139	147	161	167
97.5	69	63	86	103	110	119	136	143	157	143
100.0	74	65	87	104	111	119	134	139	146	122
102.5	76	67	87	105	111	118	132	132	128	96
105.0	78	70	86	105	112	118	129	121	108	81
107.5	79	74	85	106	112	117	122	107	89	74
110.0	80	77	84	106	111	115	112	91	75	68
112.5	80	79	83	104	109	110	99	78	66	65
115.0	80	80	82	101	103	101	86	71	60	64
117.5	81	81	81	95	95	91	77	65	56	62
120.0	81	80	79	87	86	82	72	62	54	60
122.5	80	79	74	78	78	76	68	60	54	58
125.0	78	77	70	72	73	71	66	60	55	58
127.5	74	72	67	67	69	68	64	60	56	58
130.0	70	69	65	64	66	65	63	61	57	59

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CANDELA TABULATION - (Cont.)

132.5	68	67	65	62	63	64	63	60	58	61
135.0	66	66	64	61	62	63	61	58	57	61
137.5	67	66	64	61	59	58	55	52	54	59
140.0	64	63	60	54	51	49	45	44	47	53
142.5	56	55	51	45	42	37	34	35	38	44
145.0	46	45	41	34	31	26	24	25	29	34
147.5	34	33	29	23	21	18	15	16	20	24
150.0	22	22	19	16	14	10	8	10	13	14
152.5	16	16	13	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	567	567	567	567	567	567	567	567	567	567
2.5	573	566	562	555	539	532	527	524	517	513
5.0	589	581	563	533	507	485	460	440	411	391
7.5	611	586	561	519	473	411	358	337	330	321
10.0	656	619	579	502	411	350	334	321	308	299
12.5	695	644	597	486	370	344	322	307	307	302
15.0	803	688	629	471	374	343	322	314	291	275
17.5	887	741	655	469	389	348	324	285	255	241
20.0	1044	838	727	504	415	359	293	250	225	211
22.5	1241	953	825	553	435	334	255	219	204	203
25.0	1510	1128	973	632	430	283	228	200	192	185
27.5	1744	1395	1110	682	381	244	207	190	174	170
30.0	2138	1573	1324	680	300	224	199	176	160	152
32.5	2421	1796	1463	646	256	214	186	163	147	143
35.0	2638	1983	1513	569	237	204	172	152	141	134
37.5	2842	2096	1526	496	227	193	161	150	139	127
40.0	2967	2201	1561	421	219	180	158	152	133	107
42.5	3123	2366	1489	333	210	175	163	150	118	93
45.0	3234	2401	1464	279	204	179	168	138	112	91
47.5	3363	2461	1545	267	205	184	164	131	113	91
50.0	3631	2667	1566	265	215	194	157	130	116	94
52.5	3874	2866	1662	253	222	218	159	133	132	162
55.0	4363	3246	1804	229	189	215	180	155	199	208
57.5	5056	3733	1923	216	175	175	191	203	231	155
60.0	5830	4272	2065	203	171	165	198	216	181	115
62.5	6460	4660	2185	193	170	169	193	177	170	127
65.0	6669	4643	1843	188	171	177	176	146	160	132
67.5	6206	3757	1262	186	169	175	163	160	147	129
70.0	4858	2377	649	178	173	183	169	155	149	131
72.5	2389	1077	266	177	173	176	164	157	144	136
75.0	669	379	222	176	174	169	168	159	148	139
77.5	439	290	199	181	178	169	172	164	154	143

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CANDELA TABULATION - (Cont.)

80.0	326	249	182	185	177	170	177	167	158	147
82.5	257	207	178	198	184	174	184	172	164	155
85.0	219	159	169	200	187	178	190	179	166	157
87.5	179	133	163	202	189	178	193	181	170	158
90.0	149	112	170	201	190	177	194	185	175	162
92.5	139	115	167	200	191	175	193	188	181	168
95.0	127	145	157	194	186	167	185	184	179	168
97.5	117	159	152	177	174	155	176	174	173	160
100.0	120	152	146	154	162	146	166	168	168	151
102.5	118	138	135	134	148	140	158	161	162	141
105.0	109	123	124	119	134	135	151	155	156	129
107.5	98	109	113	109	122	127	144	150	149	117
110.0	89	99	102	101	110	120	138	145	143	107
112.5	82	90	93	95	101	114	131	140	135	98
115.0	77	83	86	91	95	109	125	134	126	91
117.5	72	77	81	87	91	105	119	126	116	84
120.0	68	73	76	83	88	101	113	119	104	79
122.5	65	69	73	80	86	97	108	110	93	77
125.0	63	66	70	78	85	96	103	101	83	74
127.5	62	65	69	77	84	94	97	92	75	71
130.0	63	65	68	76	83	91	92	83	69	68
132.5	64	66	69	77	80	84	85	76	66	66
135.0	65	67	70	76	76	73	72	67	63	65
137.5	64	66	68	71	69	62	55	53	54	61
140.0	59	61	62	62	58	50	40	38	43	49
142.5	49	51	53	51	45	37	29	26	31	36
145.0	39	40	40	38	33	25	19	17	20	25
147.5	27	28	28	26	22	16	11	11	14	16
150.0	16	16	16	16	14	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	567	567
2.5	506	507
5.0	376	375
7.5	318	317
10.0	297	294
12.5	298	298
15.0	267	265
17.5	233	231
20.0	207	204
22.5	196	195
25.0	179	179

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CANDELA TABULATION - (Cont.)

27.5	163	161
30.0	148	146
32.5	140	138
35.0	133	132
37.5	123	120
40.0	103	100
42.5	93	92
45.0	90	90
47.5	90	91
50.0	95	96
52.5	179	184
55.0	208	214
57.5	87	88
60.0	81	85
62.5	81	82
65.0	80	78
67.5	80	72
70.0	78	65
72.5	80	59
75.0	85	53
77.5	86	49
80.0	89	46
82.5	93	50
85.0	95	52
87.5	97	58
90.0	99	65
92.5	104	82
95.0	106	96
97.5	106	107
100.0	104	113
102.5	102	115
105.0	99	112
107.5	97	108
110.0	95	104
112.5	93	99
115.0	91	94
117.5	89	90
120.0	86	87
122.5	82	84
125.0	79	80
127.5	75	76
130.0	71	72
132.5	68	68
135.0	66	66
137.5	64	64
140.0	52	52
142.5	39	40
145.0	28	28
147.5	17	18
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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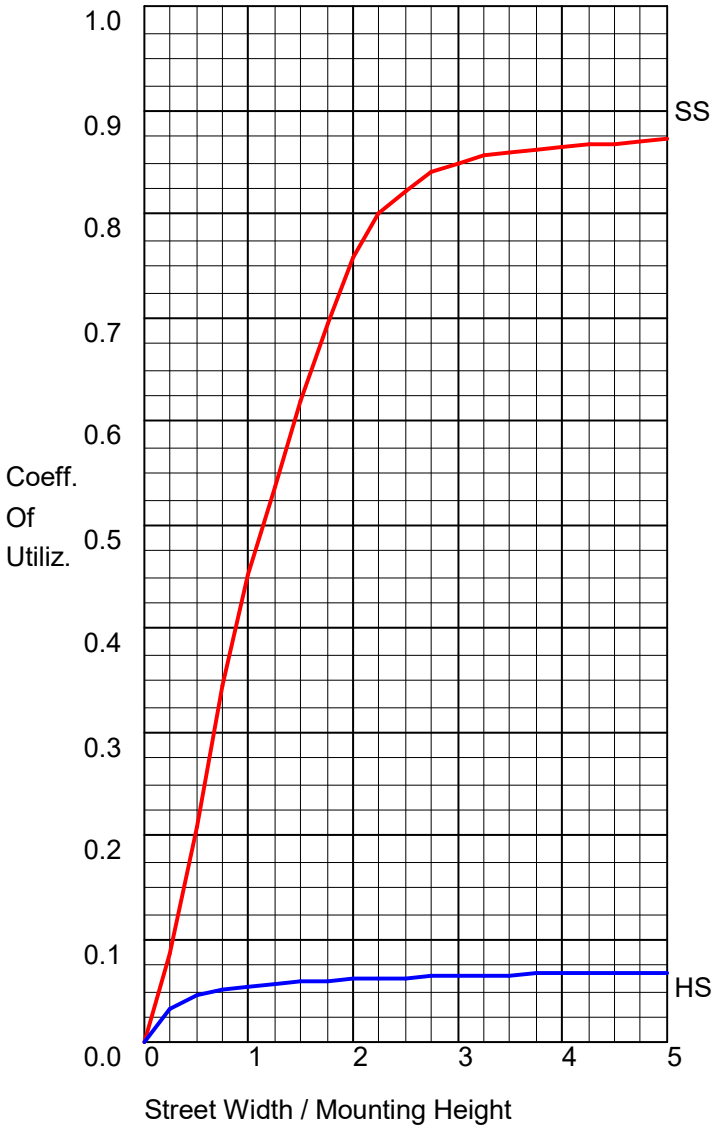
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11789.9	88.8
Downward House Side	966.5	7.3
Downward Total	12756.4	96.1
Upward Street Side	234.4	1.8
Upward House Side	289.9	2.2
Upward Total	524.3	3.9
Total Flux	13280.7	100.0

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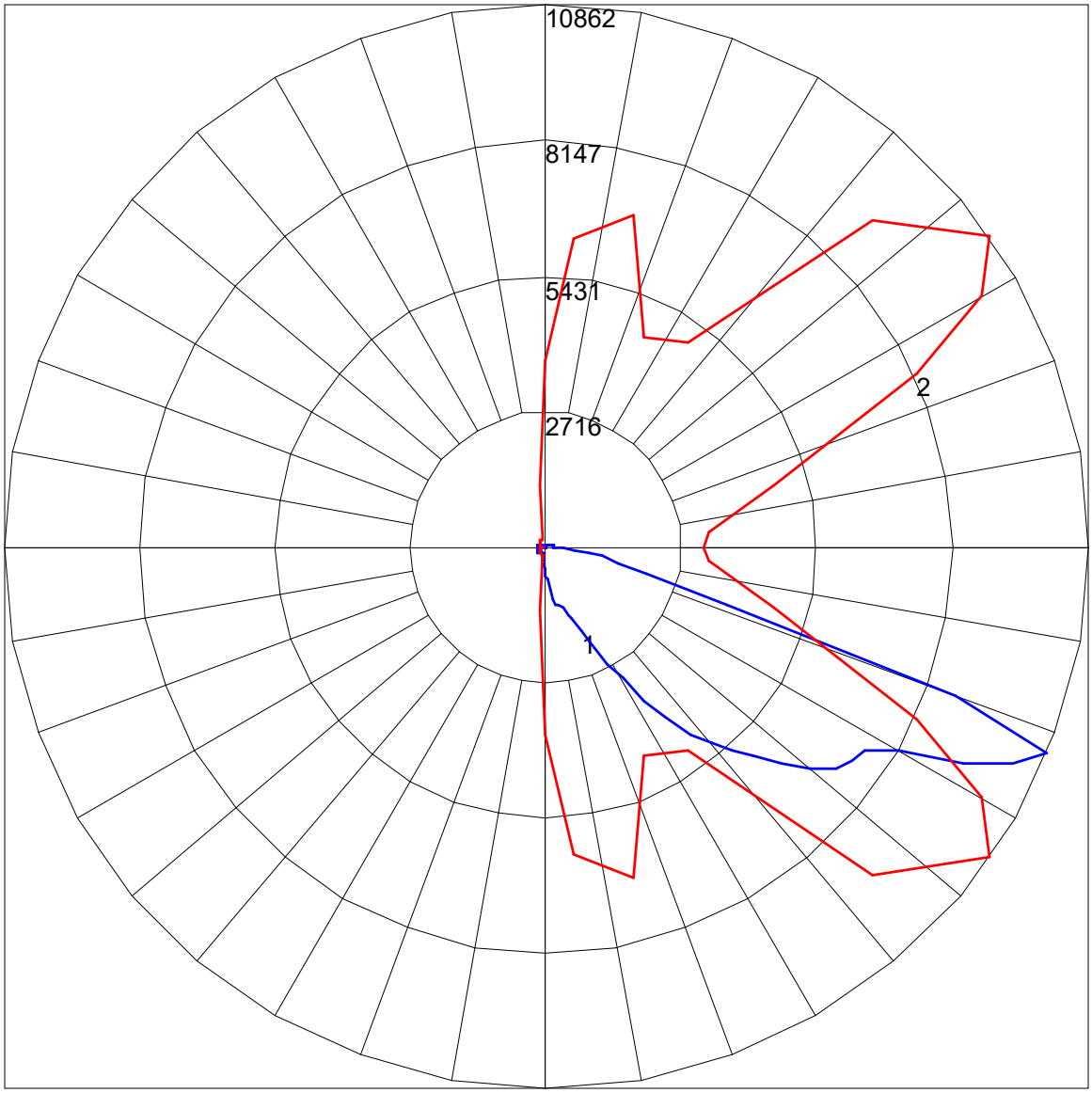
POLAR GRAPH



Maximum Candela = 10862 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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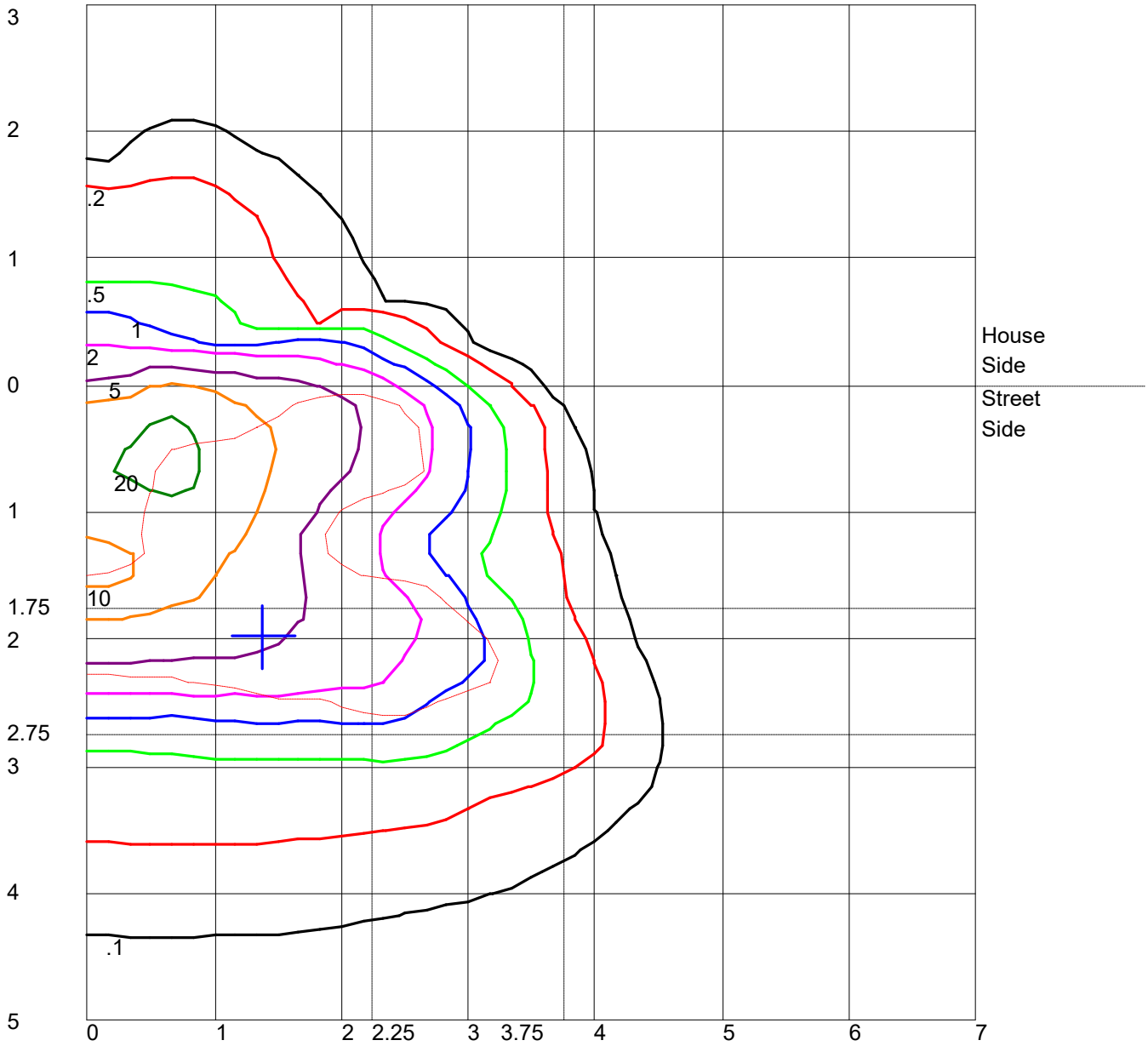
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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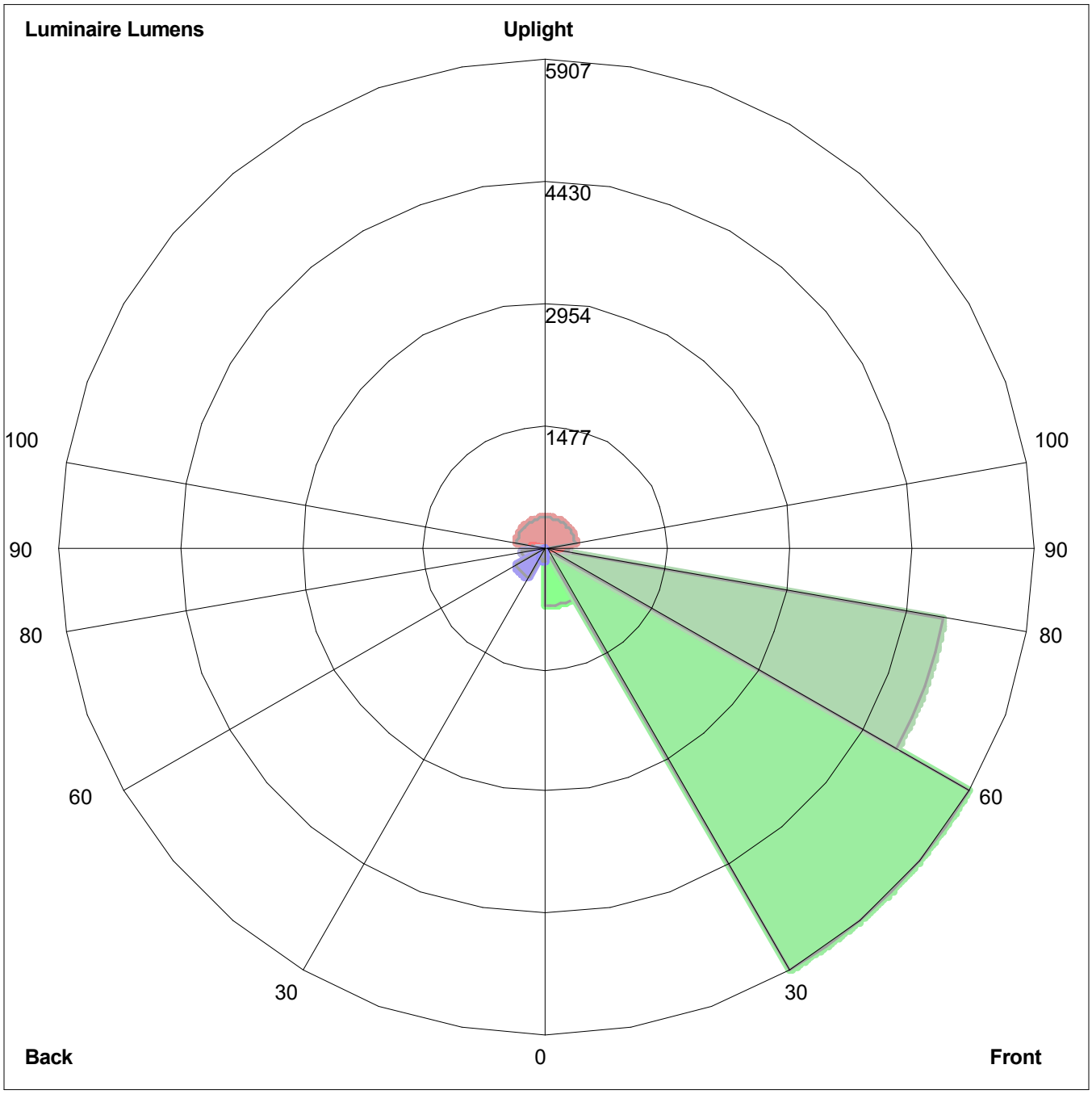
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=703.2, Medium=5907.1, High=4897.1, Very High=282.5
Back: Low=158.2, Medium=428.8, High=288.4, Very High=91.1
Uplight: Low=164.0, High=360.2

BUG Rating : B1-U3-G3

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