IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12571
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-FT-40-70CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26622
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	14167
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	14167
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	379 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3266 (12.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1345.4	N.A.	5.1
FM - Front-Medium (30-60)	7825.0	N.A.	29.4
FH - Front-High (60-80)	8361.1	N.A.	31.4
FVH - Front-Very High (80-90)	462.0	N.A.	1.7
BL - Back-Low (0-30)	1202.7	N.A.	4.5
BM - Back-Medium (30-60)	4025.0	N.A.	15.1
BH - Back-High (60-80)	1953.8	N.A.	7.3
BVH - Back-Very High (80-90)	336.6	N.A.	1.3
UL - Uplight-Low (90-100)	306.3	N.A.	1.2
UH - Uplight-High (100-180)	803.9	N.A.	3.0
Total	26621.8	N.A.	100.0
BUG Rating	B3-U4-G4		

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	37.5	45.0	55.0	65.0	75.0
0.0	2339	2339	2339	2339	2339	2339	2339	2339	2339	2339
2.5	2440	2463	2456	2466	2460	2452	2442	2430	2408	2386
5.0	2318	2299	2355	2441	2491	2489	2508	2539	2533	2470
7.5	2388	2395	2316	2359	2356	2354	2334	2442	2549	2533
10.0	2376	2333	2380	2416	2408	2440	2439	2466	2518	2578
12.5	2510	2528	2556	2523	2511	2508	2498	2539	2528	2799
15.0	2639	2619	2658	2617	2716	2708	2690	2696	2735	2803
17.5	2889	2874	2912	2863	2797	2811	2866	2857	2889	2967
20.0	3046	3106	3120	3091	3177	3181	2966	3114	3107	3044
22.5	3363	3342	3404	3407	3325	3342	3317	3281	3261	3330
25.0	3711	3738	3693	3579	3693	3658	3494	3443	3507	3419
27.5	4049	4109	4035	3987	3882	3865	3822	3626	3578	3584
30.0	4591	4619	4579	4287	4239	4210	4008	3881	3694	3810
32.5	4910	4936	4861	4791	4626	4527	4376	4157	3910	3920
35.0	5335	5265	5161	5097	5082	5056	4751	4382	4051	3970
37.5	5703	5667	5516	5433	5409	5389	5328	4736	4297	4040
40.0	6168	6080	5958	5846	5790	5775	5796	5138	4565	4021
42.5	6743	6620	6466	6348	6255	6251	6265	5699	4767	4145
45.0	7384	7301	7096	6976	6843	6836	6769	6357	4983	4386
47.5	8158	8113	7894	7763	7610	7563	7405	6900	5472	4685
50.0	9061	9020	8805	8764	8524	8387	8222	7606	6045	5139
52.5	9801	9772	9672	9766	9504	9302	9105	8382	6882	5735
55.0	10207	10217	10246	10568	10513	10375	10099	9258	7775	6044
57.5	10429	10462	10668	11114	11387	11408	11070	10286	8751	6577
60.0	10534	10594	10935	11561	12045	12174	12009	11207	9731	7402
62.5	10625	10707	11208	12014	12677	12865	12780	12063	10378	8107
65.0	10506	10583	11185	12300	13262	13625	13724	12697	10706	8472
67.5	10073	10173	10911	12354	14018	14167	13976	13152	10521	7767
70.0	8372	8635	9698	11734	13988	14057	13977	12699	9345	6585
72.5	4851	5263	7504	9672	12326	12856	13622	10688	7381	4568
75.0	2238	2542	5192	7217	9559	10272	10879	8283	4935	2485
77.5	1059	1153	2609	4537	6558	6452	5929	5082	2637	1523
80.0	862	923	1491	2303	3266	3259	2736	2701	1645	1131
82.5	686	754	1058	1573	1789	1725	1571	1468	998	826
85.0	527	586	782	942	927	876	949	719	568	637
87.5	355	387	496	547	363	339	437	376	400	434
90.0	111	135	196	225	254	261	280	292	311	332
92.5	126	140	200	230	257	264	284	292	313	330
95.0	142	144	203	234	260	266	286	289	310	319
97.5	156	149	204	236	261	267	284	282	301	275
100.0	167	155	204	237	261	265	280	275	279	220
102.5	177	162	202	239	260	264	275	263	248	191
105.0	182	169	200	240	259	261	267	243	217	179
107.5	186	176	197	240	256	258	255	218	190	171
110.0	188	182	195	239	251	251	238	196	171	166
112.5	190	186	192	236	242	238	216	181	158	161
115.0	191	189	190	229	227	221	199	171	151	157
117.5	192	191	187	217	211	206	188	164	145	154
120.0	192	191	182	202	199	195	180	159	144	151
122.5	190	188	176	188	189	186	175	156	143	148
125.0	185	184	171	176	182	180	171	156	144	146
127.5	179	177	167	168	175	175	169	158	146	148
130.0	173	172	165	162	171	171	169	159	149	151

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

132.5	170	169	164	160	169	170	165	152	150	155
135.0	170	170	166	161	158	156	149	143	151	159
137.5	166	167	159	144	132	129	124	126	140	157
140.0	144	143	134	118	104	101	97	105	120	139
142.5	117	115	107	91	73	71	71	80	97	115
145.0	88	87	78	64	51	51	50	58	73	89
147.5	59	58	53	44	33	30	25	34	50	60
150.0	42	41	37	25	11	10	8	14	27	37
152.5	21	20	14	8	3	3	3	6	10	17
155.0	7	6	4	2	2	2	2	3	5	7
157.5	2	2	2	2	2	2	2	3	3	4
160.0	2	2	2	2	2	2	2	3	3	4
162.5	2	1	2	2	2	2	2	3	3	4
165.0	1	1	2	2	2	2	2	3	3	4
167.5	1	1	2	2	2	2	3	3	3	4
170.0	2	1	2	2	3	3	3	3	4	4
172.5	1	1	2	2	3	3	3	3	4	4
175.0	1	1	2	2	3	3	3	3	3	4
177.5	2	1	2	2	3	3	3	3	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	2339	2339	2339	2339	2339	2339	2339	2339	2339	2339
2.5	2368	2345	2347	2330	2311	2321	2311	2298	2292	2295
5.0	2409	2349	2304	2334	2462	2474	2440	2422	2385	2362
7.5	2488	2410	2380	2452	2481	2453	2417	2331	2234	2174
10.0	2535	2488	2437	2538	2453	2393	2273	2252	2244	2171
12.5	2780	2639	2590	2706	2507	2316	2251	2270	2232	2310
15.0	2886	2753	2712	2752	2527	2442	2293	2421	2449	2485
17.5	3073	2954	2929	2904	2599	2455	2626	2566	2564	2666
20.0	3257	3067	3074	2949	2704	2659	2651	2711	2763	2835
22.5	3459	3332	3307	3063	2763	2822	2823	2958	2914	3093
25.0	3551	3535	3426	3085	2893	2888	3012	3046	3162	3249
27.5	3769	3637	3647	3217	2939	3043	3127	3270	3296	3498
30.0	3877	3730	3779	3375	3064	3203	3321	3356	3496	3638
32.5	3888	3771	3788	3454	3148	3284	3370	3539	3731	3936
35.0	3925	3757	3807	3415	3132	3315	3504	3703	3841	4023
37.5	3918	3778	3846	3361	3109	3296	3555	3728	3871	4092
40.0	3888	3870	3800	3275	3090	3240	3582	3692	3894	4193
42.5	3987	3812	3817	3216	3028	3206	3517	3650	3933	4551
45.0	4028	3821	3852	3218	2885	3230	3443	3581	4021	4879
47.5	4114	3930	3776	3164	2780	3190	3351	3480	4360	4391
50.0	4240	4069	3803	3149	2666	3072	3232	3390	4336	3988
52.5	4559	4174	3952	3142	2611	2970	3084	3398	4036	3703
55.0	4865	4427	4055	3057	2569	2850	2922	3400	3713	3470
57.5	5279	4686	4146	2977	2453	2660	2742	3275	3424	3249
60.0	5655	4882	4310	2911	2295	2427	2515	3057	3140	3016
62.5	5889	4971	4242	2791	2103	2193	2283	2820	2847	2782
65.0	5789	4839	3935	2561	1886	1946	2048	2582	2554	2552
67.5	5226	4182	3416	2248	1708	1724	1842	2365	2242	2263
70.0	4117	3087	2432	1879	1515	1553	1653	2128	1903	2054
72.5	2646	2083	1524	1482	1307	1363	1454	1835	1659	1862
75.0	1482	1289	1106	1176	1127	1139	1274	1577	1323	1510
77.5	977	881	781	927	911	935	1067	1231	1090	1399

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

80.0	782	693	606	769	732	737	844	919	940	1234
82.5	614	542	489	666	629	616	676	717	815	1015
85.0	513	375	428	574	526	518	540	566	697	779
87.5	411	209	393	460	442	431	458	444	470	563
90.0	268	159	329	376	370	350	379	368	357	348
92.5	211	246	295	365	356	333	356	350	332	312
95.0	215	303	279	352	344	311	344	339	328	309
97.5	242	304	276	324	326	287	328	325	319	299
100.0	252	289	272	287	307	276	315	314	310	285
102.5	242	269	260	257	288	271	304	306	302	270
105.0	227	248	244	236	267	264	294	299	294	252
107.5	211	227	229	222	247	256	286	292	286	235
110.0	197	211	214	211	229	246	278	288	279	217
112.5	186	198	202	202	214	238	269	282	271	201
115.0	176	187	192	196	204	230	259	275	260	189
117.5	170	179	183	191	198	224	250	265	246	181
120.0	163	172	177	188	194	219	242	253	230	176
122.5	158	166	172	184	192	215	234	239	210	173
125.0	155	161	167	180	191	211	226	225	192	170
127.5	154	159	165	179	190	208	217	210	177	167
130.0	156	160	167	179	190	206	209	196	167	165
132.5	159	163	169	180	186	199	201	183	160	163
135.0	164	168	172	181	181	180	183	173	159	162
137.5	168	172	175	176	168	156	153	152	157	162
140.0	154	159	159	154	142	128	118	123	136	150
142.5	131	135	134	127	112	97	85	91	109	125
145.0	101	103	105	97	83	69	60	63	81	96
147.5	68	70	71	67	56	43	38	44	55	67
150.0	42	42	43	41	32	17	15	27	37	43
152.5	22	23	23	19	12	6	5	7	18	28
155.0	9	9	9	8	6	4	2	3	3	6
157.5	5	6	5	5	4	3	2	1	0	0
160.0	5	5	5	5	4	3	2	1	0	0
162.5	5	5	5	5	4	3	2	0	0	0
165.0	5	5	5	5	4	3	2	1	0	0
167.5	5	5	5	5	4	3	2	1	0	0
170.0	5	5	5	5	4	3	2	1	0	0
172.5	5	5	5	5	4	3	2	1	0	0
175.0	5	5	5	5	4	3	2	1	0	0
177.5	5	5	5	5	4	3	2	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	2339	2339
2.5	2309	2330
5.0	2359	2342
7.5	2184	2174
10.0	2198	2211
12.5	2330	2343
15.0	2495	2402
17.5	2626	2757
20.0	2831	2767
22.5	3092	3092
25.0	3278	3244

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.5	3570	3619
30.0	3793	3785
32.5	4065	4073
35.0	4171	4190
37.5	4266	4329
40.0	4466	4613
42.5	4865	4899
45.0	4383	4369
47.5	4047	4067
50.0	3841	3844
52.5	3646	3641
55.0	3449	3445
57.5	3231	3213
60.0	3002	2987
62.5	2772	2767
65.0	2563	2550
67.5	2261	2235
70.0	2084	2051
72.5	1788	1643
75.0	1474	1402
77.5	1463	1399
80.0	1400	1334
82.5	1179	1129
85.0	908	904
87.5	633	677
90.0	295	249
92.5	198	155
95.0	195	180
97.5	188	201
100.0	184	212
102.5	182	216
105.0	185	216
107.5	188	212
110.0	191	206
112.5	193	201
115.0	192	196
117.5	190	192
120.0	188	189
122.5	185	186
125.0	182	183
127.5	177	179
130.0	173	173
132.5	168	169
135.0	166	166
137.5	165	165
140.0	158	159
142.5	132	134
145.0	104	105
147.5	76	77
150.0	47	48
152.5	31	32
155.0	10	9
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

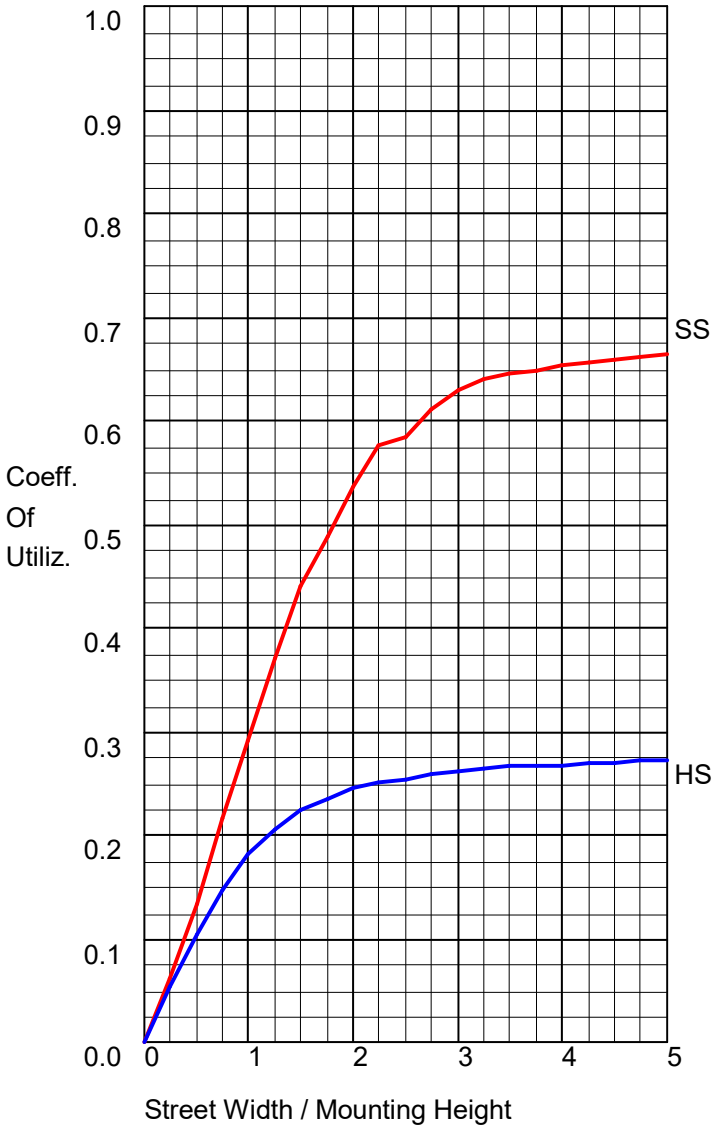
CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



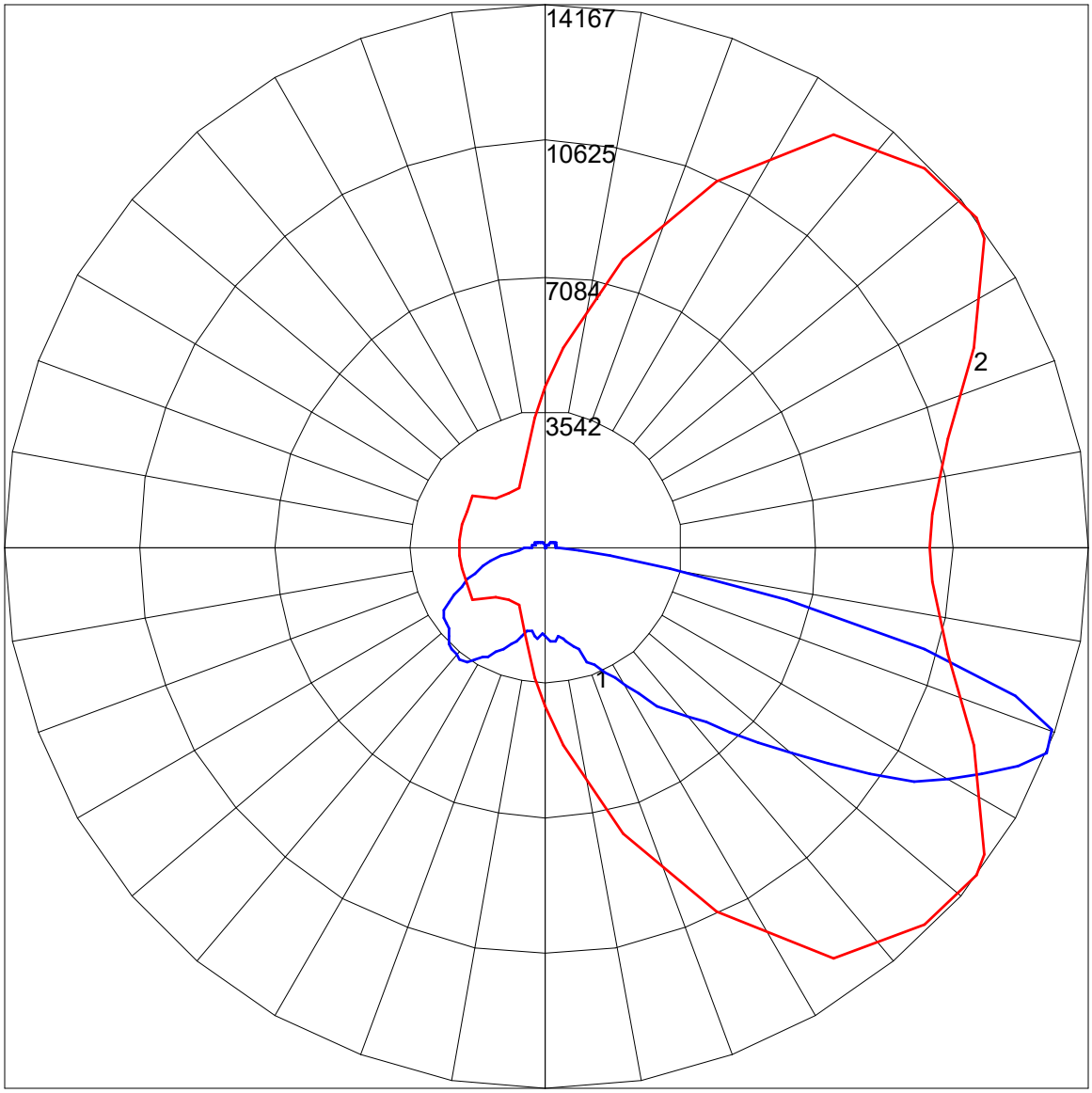
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17993.5	67.6
Downward House Side	7518.1	28.2
Downward Total	25511.6	95.8
Upward Street Side	508.4	1.9
Upward House Side	601.9	2.3
Upward Total	1110.3	4.2
Total Flux	26621.9	100.0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

POLAR GRAPH

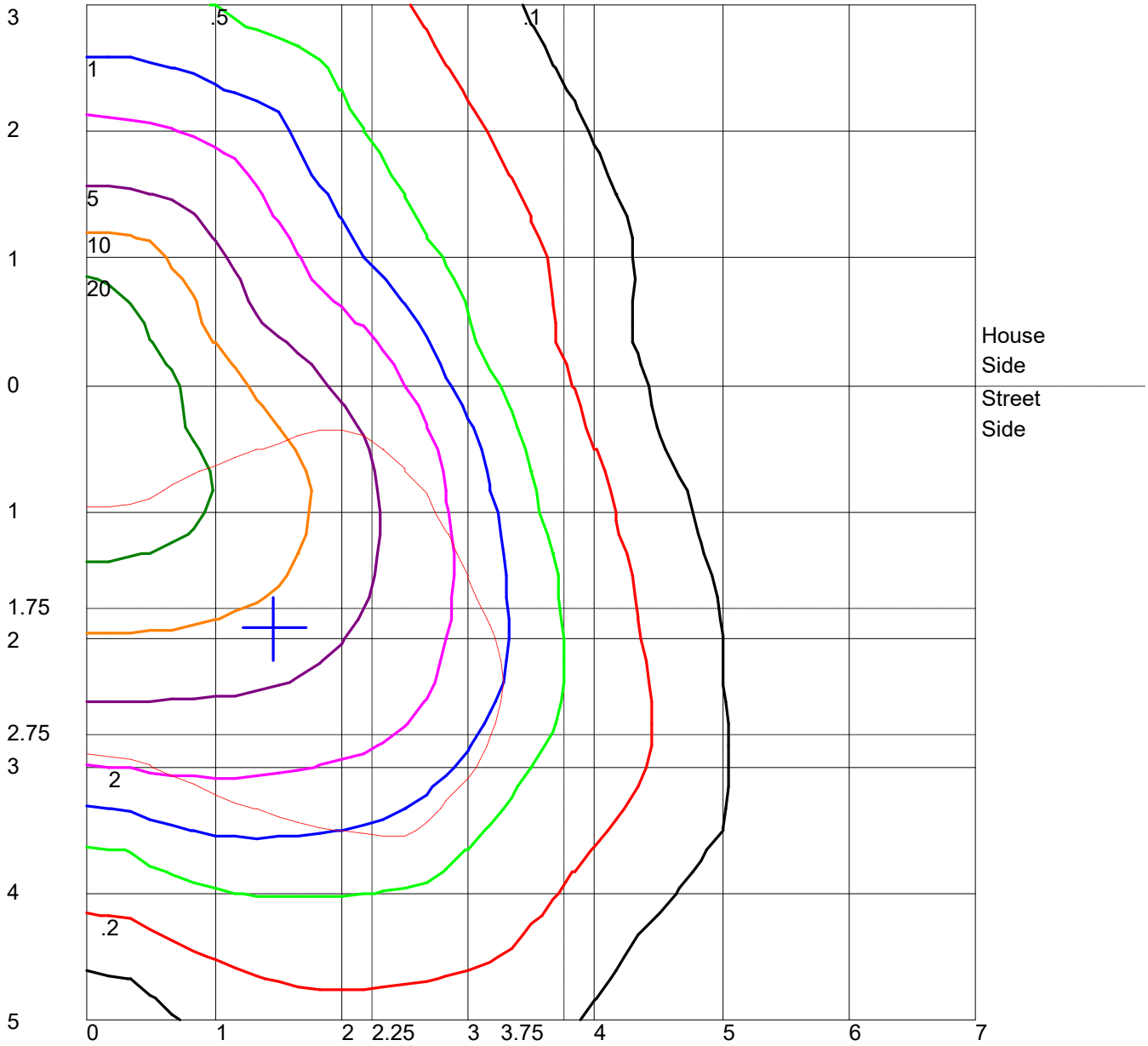


Maximum Candela = 14167 Located At Horizontal Angle = 37.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

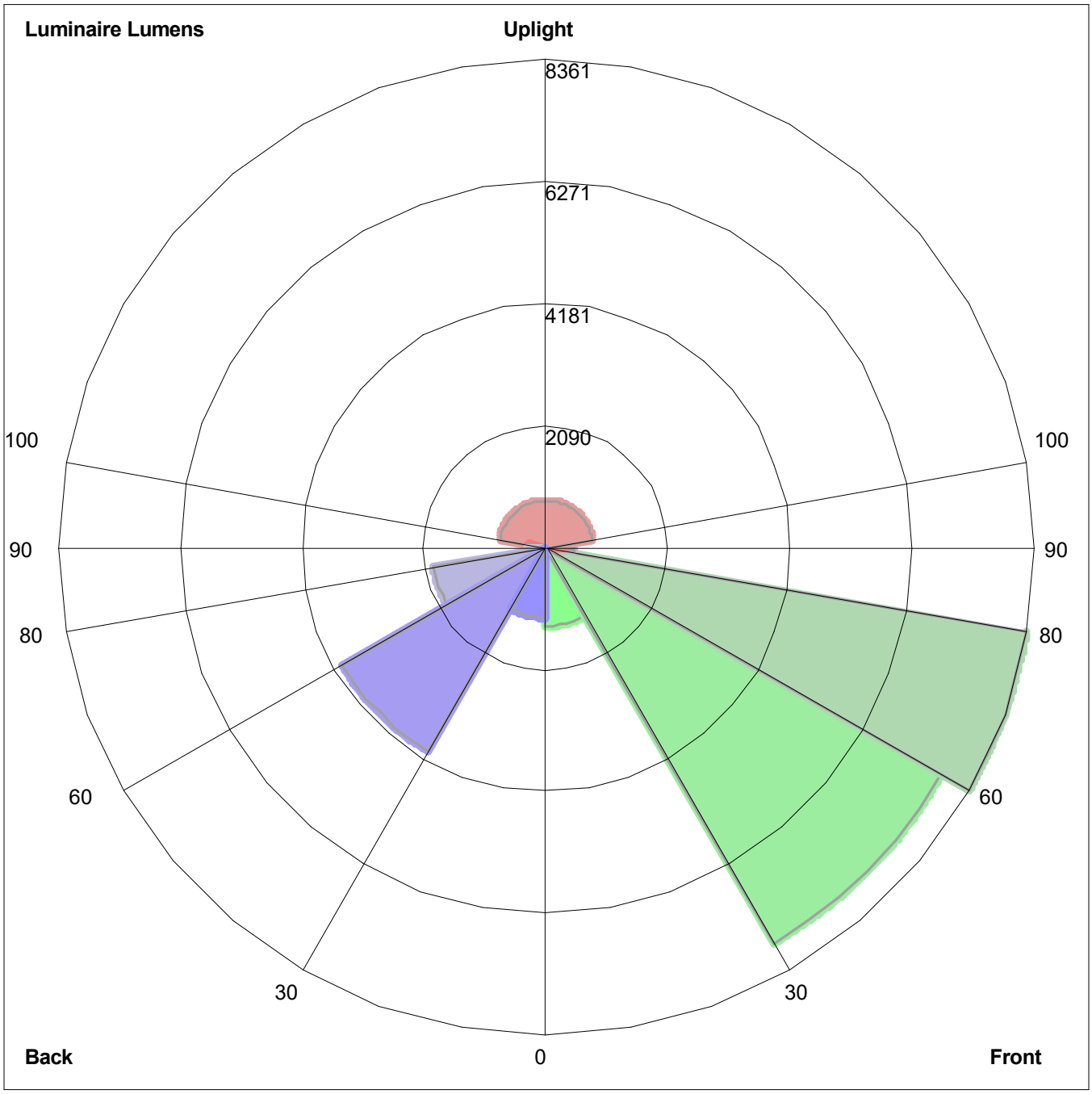


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1345.4, Medium= 7825.0, High=8361.1, Very High=462.0
Back: Low=1202.7, Medium= 4025.0, High=1953.8, Very High=336.6
Uplight: Low=306.3, High=803.9

BUG Rating : B3-U4-G4

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.