IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-FT-30-70CRI.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-30-70CRI
[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] 3000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25560
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	13602
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	13602
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	364 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3136 (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-30-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1291.7	N.A.	5.1
FM - Front-Medium (30-60)	7512.8	N.A.	29.4
FH - Front-High (60-80)	8027.5	N.A.	31.4
FVH - Front-Very High (80-90)	443.6	N.A.	1.7
BL - Back-Low (0-30)	1154.7	N.A.	4.5
BM - Back-Medium (30-60)	3864.4	N.A.	15.1
BH - Back-High (60-80)	1875.8	N.A.	7.3
BVH - Back-Very High (80-90)	323.1	N.A.	1.3
UL - Uplight-Low (90-100)	294.1	N.A.	1.2
UH - Uplight-High (100-180)	771.8	N.A.	3.0
Total	25559.5	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-30-70CRI.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	2246	2246	2246	2246	2246	2246	2246	2246	2246	2246
2.5	2343	2365	2358	2368	2362	2354	2345	2333	2312	2291
5.0	2226	2207	2261	2344	2392	2390	2408	2438	2432	2371
7.5	2293	2299	2224	2265	2262	2260	2241	2345	2447	2432
10.0	2281	2240	2285	2320	2312	2343	2342	2368	2418	2475
12.5	2410	2427	2454	2422	2411	2408	2398	2438	2427	2687
15.0	2534	2515	2552	2513	2608	2600	2583	2588	2626	2691
17.5	2774	2759	2796	2749	2685	2699	2752	2743	2774	2849
20.0	2924	2982	2996	2968	3050	3054	2848	2990	2983	2923
22.5	3229	3209	3268	3271	3192	3209	3185	3150	3131	3197
25.0	3563	3589	3546	3436	3546	3512	3355	3306	3367	3283
27.5	3887	3945	3874	3828	3727	3711	3670	3481	3435	3441
30.0	4408	4435	4396	4116	4070	4042	3848	3726	3547	3658
32.5	4714	4739	4667	4600	4441	4346	4201	3991	3754	3764
35.0	5122	5055	4955	4894	4879	4854	4561	4207	3889	3812
37.5	5475	5441	5296	5216	5193	5174	5115	4547	4126	3879
40.0	5922	5837	5720	5613	5559	5545	5565	4933	4383	3861
42.5	6474	6356	6208	6095	6005	6002	6015	5472	4577	3980
45.0	7089	7010	6813	6698	6570	6563	6499	6103	4784	4211
47.5	7832	7789	7579	7453	7306	7261	7110	6625	5254	4498
50.0	8699	8660	8454	8414	8184	8052	7894	7303	5804	4934
52.5	9410	9382	9286	9376	9125	8931	8742	8048	6607	5506
55.0	9800	9809	9837	10146	10094	9961	9696	8889	7465	5803
57.5	10013	10045	10242	10671	10933	10953	10628	9876	8402	6315
60.0	10114	10171	10499	11100	11564	11688	11530	10760	9343	7107
62.5	10201	10280	10761	11535	12171	12352	12270	11582	9964	7784
65.0	10087	10161	10739	11809	12733	13081	13176	12190	10279	8134
67.5	9671	9767	10476	11861	13459	13602	13418	12627	10101	7457
70.0	8038	8290	9311	11266	13430	13496	13419	12192	8972	6322
72.5	4657	5053	7205	9286	11834	12343	13078	10262	7086	4386
75.0	2149	2441	4985	6929	9178	9862	10445	7953	4738	2386
77.5	1017	1107	2505	4356	6296	6195	5692	4879	2532	1462
80.0	828	886	1432	2211	3136	3129	2627	2593	1579	1086
82.5	659	724	1016	1510	1718	1656	1508	1409	958	793
85.0	506	563	751	904	890	841	911	690	545	612
87.5	341	372	476	525	349	325	420	361	384	417
90.0	107	130	188	216	244	251	269	280	299	319
92.5	121	134	192	221	247	253	273	280	301	317
95.0	136	138	195	225	250	255	275	277	298	306
97.5	150	143	196	227	251	256	273	271	289	264
100.0	160	149	196	228	251	254	269	264	268	211
102.5	170	156	194	229	250	253	264	253	238	183
105.0	175	162	192	230	249	251	256	233	208	172
107.5	179	169	189	230	246	248	245	209	182	164
110.0	180	175	187	229	241	241	229	188	164	159
112.5	182	179	184	227	232	229	207	174	152	155
115.0	183	181	182	220	218	212	191	164	145	151
117.5	184	183	180	208	203	198	180	157	139	148
120.0	184	183	175	194	191	187	173	153	138	145
122.5	182	180	169	180	181	179	168	150	137	142
125.0	178	177	164	169	175	173	164	150	138	140
127.5	172	170	160	161	168	168	162	152	140	142
130.0	166	165	158	156	164	164	162	153	143	145

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	163	162	157	154	162	163	158	146	144	149
135.0	163	163	159	155	152	150	143	137	145	153
137.5	159	160	153	138	127	124	119	121	134	151
140.0	138	137	129	113	100	97	93	101	115	133
142.5	112	110	103	87	70	68	68	77	93	110
145.0	84	84	75	61	49	49	48	56	70	85
147.5	57	56	51	42	32	29	24	33	48	58
150.0	40	39	36	24	11	10	8	13	26	36
152.5	20	19	13	8	3	3	3	6	10	16
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	2246	2246	2246	2246	2246	2246	2246	2246	2246	2246
2.5	2274	2251	2253	2237	2219	2228	2219	2206	2201	2203
5.0	2313	2255	2212	2241	2364	2375	2343	2325	2290	2268
7.5	2389	2314	2285	2354	2382	2355	2321	2238	2145	2087
10.0	2434	2389	2340	2437	2355	2298	2182	2162	2154	2084
12.5	2669	2534	2487	2598	2407	2224	2161	2179	2143	2218
15.0	2771	2643	2604	2642	2426	2345	2202	2324	2351	2386
17.5	2950	2836	2812	2788	2495	2357	2521	2464	2462	2560
20.0	3127	2945	2951	2831	2596	2553	2545	2603	2653	2722
22.5	3321	3199	3175	2941	2653	2709	2710	2840	2798	2970
25.0	3409	3394	3289	2962	2778	2773	2892	2924	3036	3119
27.5	3619	3492	3501	3089	2822	2922	3002	3140	3164	3358
30.0	3722	3581	3628	3240	2942	3075	3188	3222	3357	3493
32.5	3733	3621	3637	3316	3022	3153	3236	3398	3582	3779
35.0	3768	3607	3655	3279	3007	3183	3364	3555	3688	3862
37.5	3762	3627	3693	3227	2985	3164	3413	3579	3717	3929
40.0	3733	3716	3648	3144	2967	3111	3439	3545	3739	4026
42.5	3828	3660	3665	3088	2907	3078	3377	3504	3776	4369
45.0	3867	3669	3698	3090	2770	3101	3306	3438	3861	4684
47.5	3950	3773	3625	3038	2669	3063	3217	3341	4186	4216
50.0	4071	3907	3651	3023	2560	2949	3103	3255	4163	3829
52.5	4377	4007	3794	3017	2507	2851	2961	3262	3875	3555
55.0	4671	4250	3893	2935	2466	2736	2805	3264	3565	3332
57.5	5068	4499	3981	2858	2355	2554	2633	3144	3287	3119
60.0	5429	4687	4138	2795	2203	2330	2415	2935	3015	2896
62.5	5654	4773	4073	2680	2019	2105	2192	2707	2733	2671
65.0	5558	4646	3778	2459	1811	1868	1966	2479	2452	2450
67.5	5017	4015	3280	2158	1640	1655	1769	2271	2153	2173
70.0	3953	2964	2335	1804	1455	1491	1587	2043	1827	1972
72.5	2540	2000	1463	1423	1255	1309	1396	1762	1593	1788
75.0	1423	1238	1062	1129	1082	1094	1223	1514	1270	1450
77.5	938	846	750	890	875	898	1024	1182	1047	1343

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	751	665	582	738	703	708	810	882	902	1185
82.5	590	520	469	639	604	591	649	688	782	975
85.0	493	360	411	551	505	497	518	543	669	748
87.5	395	201	377	442	424	414	440	426	451	541
90.0	257	153	316	361	355	336	364	353	343	334
92.5	203	236	283	350	342	320	342	336	319	300
95.0	206	291	268	338	330	299	330	325	315	297
97.5	232	292	265	311	313	276	315	312	306	287
100.0	242	277	261	276	295	265	302	301	298	274
102.5	232	258	250	247	277	260	292	294	290	259
105.0	218	238	234	227	256	253	282	287	282	242
107.5	203	218	220	213	237	246	275	280	275	226
110.0	189	203	205	203	220	236	267	277	268	208
112.5	179	190	194	194	205	229	258	271	260	193
115.0	169	180	184	188	196	221	249	264	250	181
117.5	163	172	176	183	190	215	240	254	236	174
120.0	156	165	170	180	186	210	232	243	221	169
122.5	152	159	165	177	184	206	225	229	202	166
125.0	149	155	160	173	183	203	217	216	184	163
127.5	148	153	158	172	182	200	208	202	170	160
130.0	150	154	160	172	182	198	201	188	160	158
132.5	153	156	162	173	179	191	193	176	154	156
135.0	157	161	165	174	174	173	176	166	153	156
137.5	161	165	168	169	161	150	147	146	151	156
140.0	148	153	153	148	136	123	113	118	131	144
142.5	126	130	129	122	108	93	82	87	105	120
145.0	97	99	101	93	80	66	58	60	78	92
147.5	65	67	68	64	54	41	36	42	53	64
150.0	40	40	41	39	31	16	14	26	36	41
152.5	21	22	22	18	12	6	5	7	17	27
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	2246	2246
2.5	2217	2237
5.0	2265	2249
7.5	2097	2087
10.0	2110	2123
12.5	2237	2250
15.0	2395	2306
17.5	2521	2647
20.0	2718	2657
22.5	2969	2969
25.0	3147	3115

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	3428	3475
30.0	3642	3634
32.5	3903	3910
35.0	4005	4023
37.5	4096	4156
40.0	4288	4429
42.5	4671	4704
45.0	4208	4195
47.5	3886	3905
50.0	3688	3691
52.5	3501	3496
55.0	3311	3308
57.5	3102	3085
60.0	2882	2868
62.5	2661	2657
65.0	2461	2448
67.5	2171	2146
70.0	2001	1969
72.5	1717	1577
75.0	1415	1346
77.5	1405	1343
80.0	1344	1281
82.5	1132	1084
85.0	872	868
87.5	608	650
90.0	283	239
92.5	190	149
95.0	187	173
97.5	180	193
100.0	177	204
102.5	175	207
105.0	178	207
107.5	180	204
110.0	183	198
112.5	185	193
115.0	184	188
117.5	182	184
120.0	180	181
122.5	178	179
125.0	175	176
127.5	170	172
130.0	166	166
132.5	161	162
135.0	159	159
137.5	158	158
140.0	152	153
142.5	127	129
145.0	100	101
147.5	73	74
150.0	45	46
152.5	30	31
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.

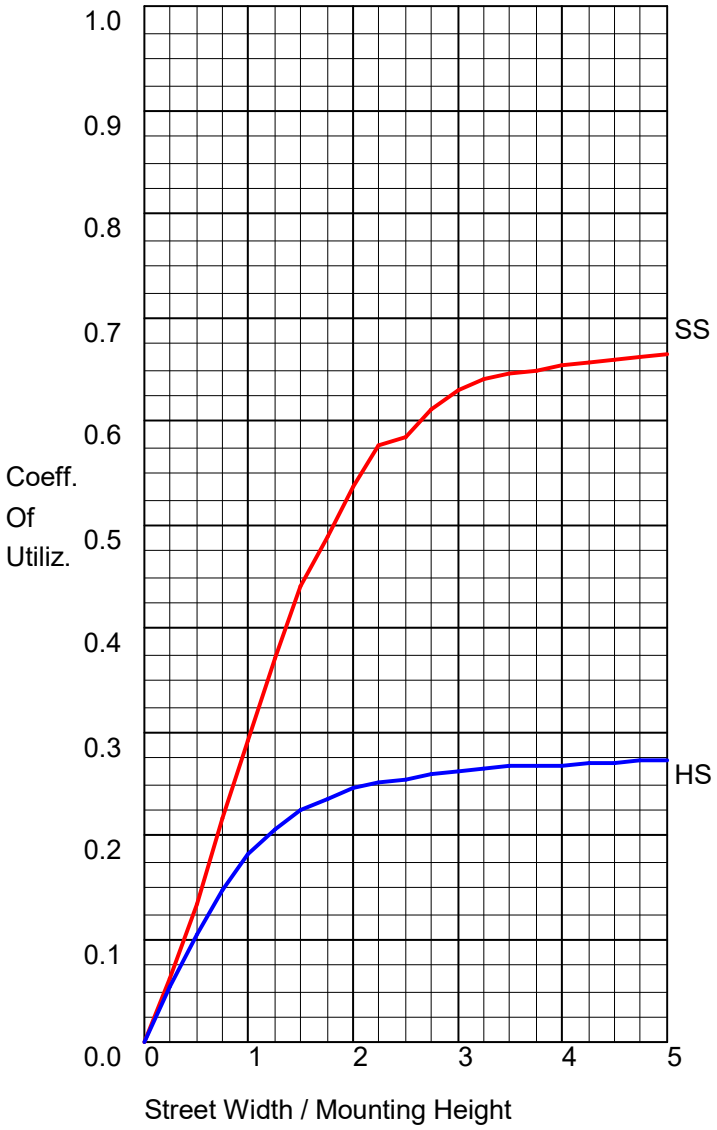
CANDELA TABULATION - (Cont.)

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-30-70CRI.IES

COEFFICIENTS OF UTILIZATION



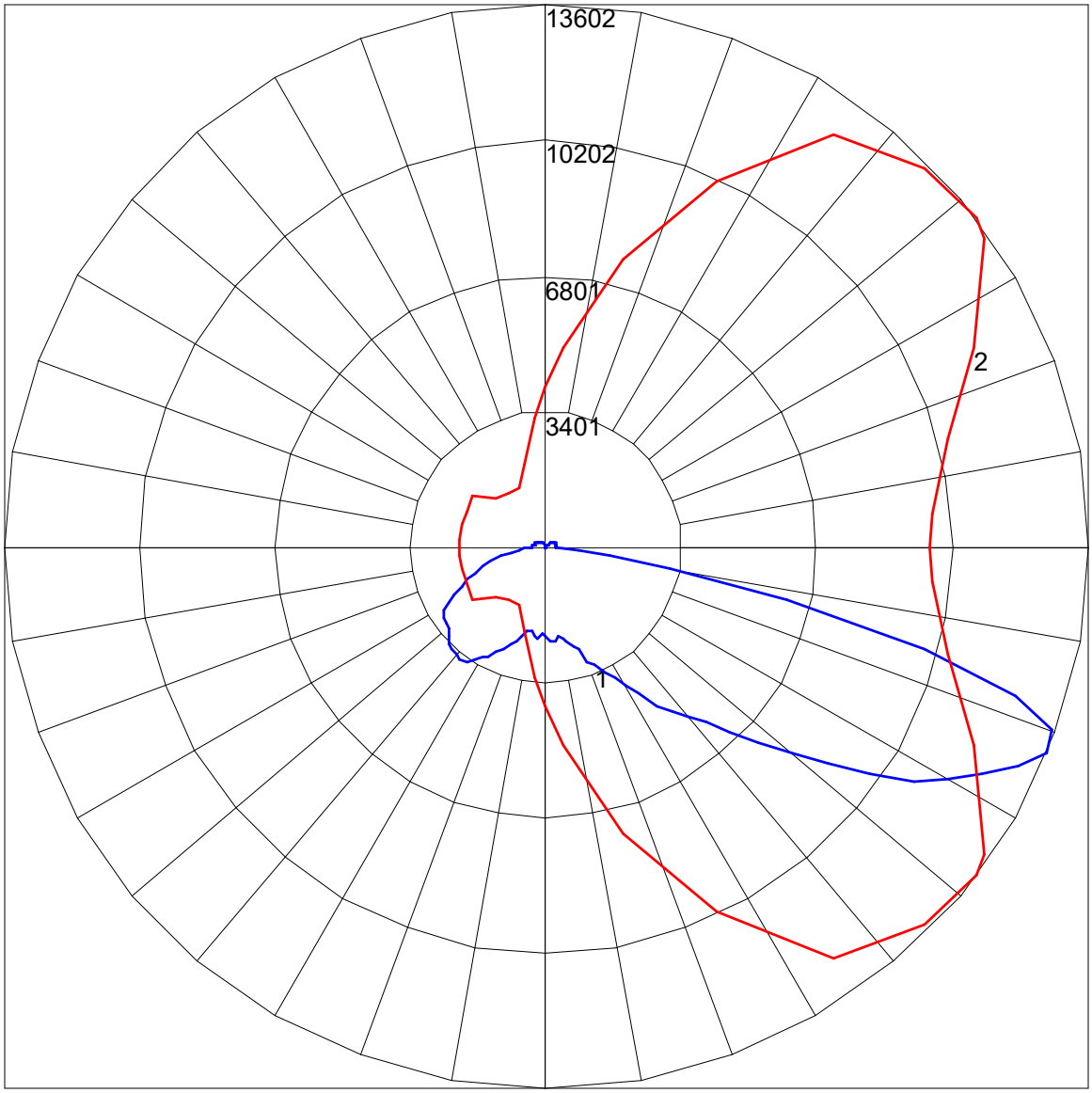
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17275.6	67.6
Downward House Side	7218.1	28.2
Downward Total	24493.7	95.8
Upward Street Side	488.1	1.9
Upward House Side	577.9	2.3
Upward Total	1066.0	4.2
Total Flux	25559.7	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-30-70CRI.IES

POLAR GRAPH

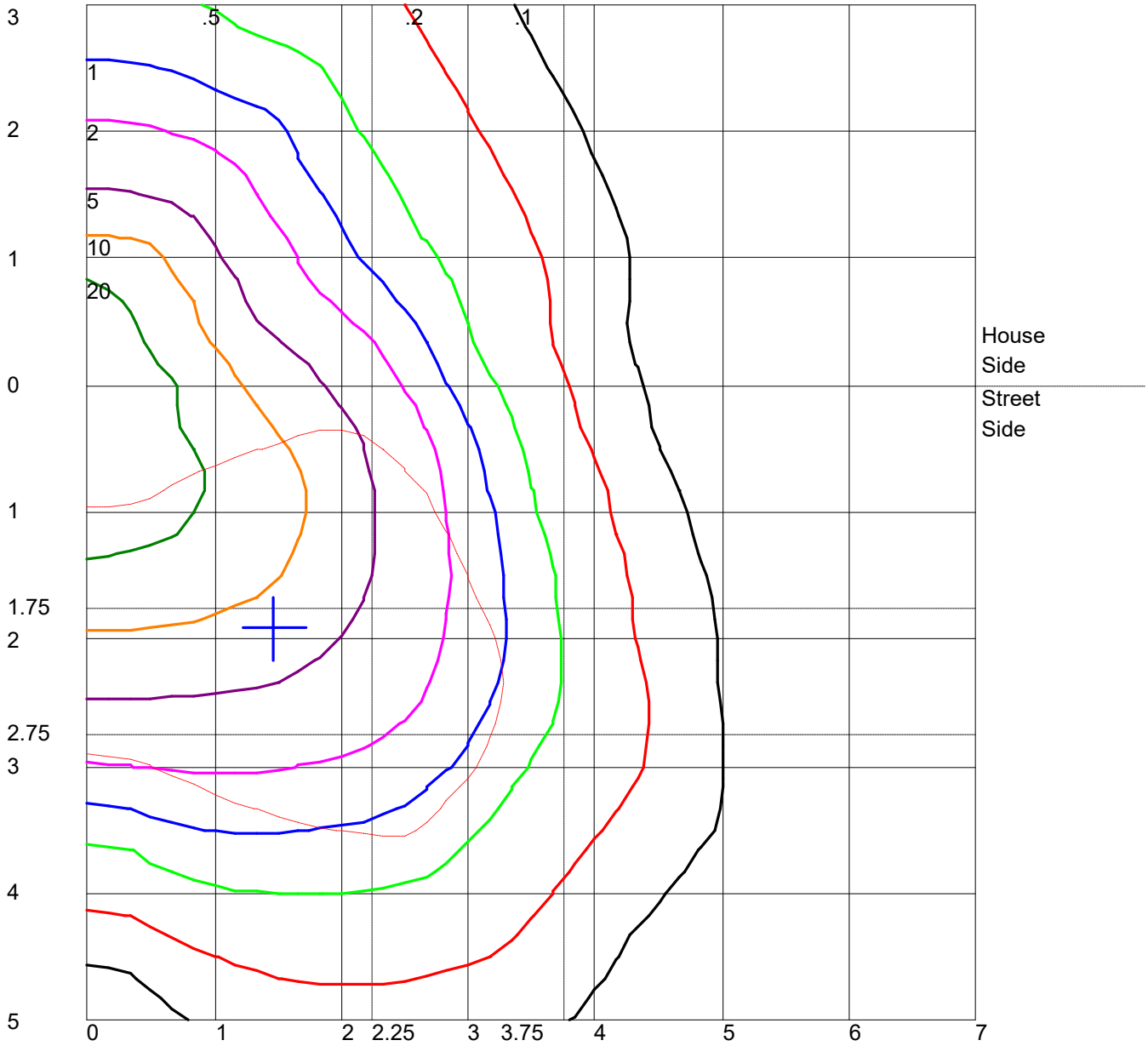


Maximum Candela = 13602 Located At Horizontal Angle = 37.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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-30-70CRI.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

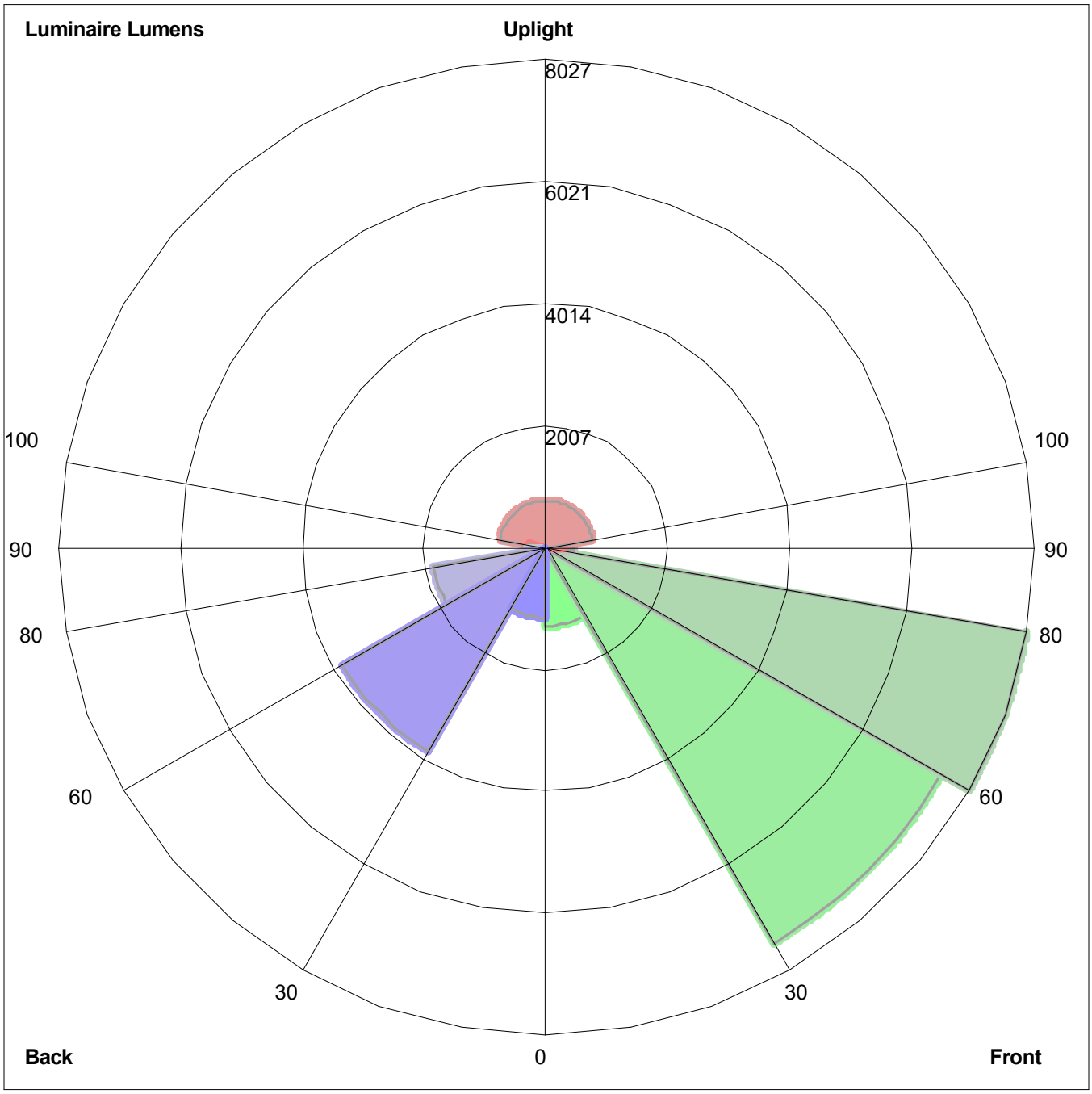


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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-30-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1291.7, Medium=7512.8, High=8027.5, Very High=443.6
Back: Low=1154.7, Medium=3864.4, High=1875.8, Very High=323.1
Uplight: Low=294.1, High=771.8

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.