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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12640
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-3-30-70CRI-IH
[_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	19774
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	17389
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	17389
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	289 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1485 (7.5% 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-3-30-70CRI-IH.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	768.1	N.A.	3.9
FM - Front-Medium (30-60)	8398.8	N.A.	42.5
FH - Front-High (60-80)	7628.8	N.A.	38.6
FVH - Front-Very High (80-90)	253.8	N.A.	1.3
BL - Back-Low (0-30)	322.2	N.A.	1.6
BM - Back-Medium (30-60)	1018.3	N.A.	5.1
BH - Back-High (60-80)	534.0	N.A.	2.7
BVH - Back-Very High (80-90)	141.9	N.A.	0.7
UL - Uplight-Low (90-100)	224.5	N.A.	1.1
UH - Uplight-High (100-180)	483.6	N.A.	2.4
Total	19774.0	N.A.	100.0
BUG Rating	B2-U3-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-3-30-70CRI-IH.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	961	961	961	961	961	961	961	961	961	961
2.5	992	989	980	979	979	979	972	973	964	964
5.0	1120	1121	1111	1102	1104	1091	1072	1047	994	968
7.5	1128	1138	1120	1147	1187	1183	1161	1135	1095	1018
10.0	1208	1223	1244	1216	1235	1191	1174	1194	1160	1088
12.5	1266	1267	1270	1282	1272	1299	1276	1259	1261	1175
15.0	1386	1358	1374	1390	1367	1367	1345	1361	1311	1283
17.5	1440	1466	1451	1449	1525	1480	1456	1481	1462	1382
20.0	1609	1629	1637	1681	1635	1687	1699	1664	1608	1535
22.5	1893	1858	1877	1895	1914	1870	1870	1914	1875	1728
25.0	2073	2109	2213	2297	2226	2225	2196	2234	2176	2096
27.5	2608	2694	2714	2664	2775	2639	2662	2606	2636	2361
30.0	3224	3236	3335	3380	3267	3324	3239	3118	3002	2756
32.5	4216	4203	4229	4090	4063	3931	3986	3707	3514	3181
35.0	4869	4843	4865	5021	4835	4709	4631	4427	3964	3486
37.5	5387	5426	5471	5719	5823	5532	5333	4968	4294	3782
40.0	5972	5964	6075	6394	6577	6427	6083	5515	4681	3959
42.5	6614	6630	6760	7084	7336	7249	6851	6085	5103	4093
45.0	7477	7520	7707	8002	8127	7950	7592	6740	5372	4258
47.5	8541	8515	8791	9126	9105	8673	8243	7568	5554	4614
50.0	9611	9581	9913	10320	10271	9504	8923	8153	6017	4890
52.5	10768	10761	11022	11499	11532	10493	9690	8720	6670	5258
55.0	11998	12054	12257	12765	12715	11599	10643	9464	7609	5985
57.5	13271	13247	13508	14140	14117	12840	11838	10418	8621	6710
60.0	13076	13240	13821	15036	15428	14411	13256	11666	9680	7560
62.5	11282	11578	12516	14273	16169	15811	14859	13322	11051	8636
65.0	7280	7498	9206	12244	14902	17097	16552	15270	12498	9644
67.5	2439	2559	3939	7979	13107	16074	17389	16741	13234	10362
70.0	1523	1571	1924	3384	9709	14156	15840	17173	13013	9660
72.5	1090	1130	1335	2080	4502	11415	13098	14352	12500	7826
75.0	794	830	1004	1457	2535	6199	8170	8845	9721	3320
77.5	539	563	735	1122	1688	2713	2957	4304	2875	1234
80.0	361	391	522	844	1164	1454	1423	1485	1120	748
82.5	272	301	413	679	775	826	762	723	664	564
85.0	206	233	330	552	570	493	445	407	409	443
87.5	156	180	262	436	372	293	275	275	291	327
90.0	109	127	192	256	196	204	213	223	242	266
92.5	67	75	108	131	158	188	198	208	229	248
95.0	78	79	111	133	159	189	198	207	229	234
97.5	88	82	113	136	159	186	196	202	223	197
100.0	94	84	114	137	159	183	193	194	205	166
102.5	98	87	114	138	159	180	187	182	180	128
105.0	100	91	113	140	159	175	179	167	149	108
107.5	102	95	111	140	157	166	163	146	119	99
110.0	103	99	110	140	155	152	142	124	98	90
112.5	103	102	108	138	146	133	121	105	86	86
115.0	104	103	107	133	134	114	104	92	78	84
117.5	103	103	105	125	120	100	91	84	73	82
120.0	103	103	101	112	106	90	84	79	70	80
122.5	102	100	94	100	95	84	80	76	70	78
125.0	98	96	87	89	88	81	78	75	71	77
127.5	91	90	83	82	84	79	77	75	73	77
130.0	85	84	80	77	81	79	78	77	74	79

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	82	81	78	74	78	79	78	77	76	81
135.0	80	79	77	73	76	75	75	73	75	82
137.5	79	79	77	72	69	67	65	66	71	79
140.0	76	75	71	64	58	55	55	57	63	71
142.5	66	65	61	53	44	41	42	44	51	60
145.0	54	53	49	40	31	29	31	33	38	47
147.5	40	39	34	27	22	18	18	19	26	34
150.0	27	27	23	19	12	10	11	12	17	21
152.5	20	19	15	9	6	5	6	7	11	14
155.0	6	6	4	3	3	3	4	4	7	9
157.5	2	2	2	2	2	3	3	3	5	6
160.0	0	1	1	2	2	3	3	3	4	5
162.5	0	1	1	2	2	3	3	3	4	5
165.0	0	1	1	2	2	3	3	3	4	5
167.5	0	1	2	2	3	3	3	3	4	5
170.0	0	1	2	2	3	3	3	3	4	5
172.5	0	1	2	2	3	3	3	4	4	5
175.0	1	1	2	2	3	3	3	4	4	5
177.5	1	1	2	2	3	3	3	3	4	5
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	961	961	961	961	961	961	961	961	961	961
2.5	967	965	966	962	954	957	949	950	948	942
5.0	975	980	971	961	950	938	918	880	841	822
7.5	978	981	975	964	935	859	793	761	738	710
10.0	1006	1020	1001	966	860	787	726	686	648	623
12.5	1047	1053	1041	962	807	734	665	619	601	586
15.0	1126	1097	1095	948	793	702	634	602	561	542
17.5	1204	1151	1134	936	780	679	617	565	541	541
20.0	1340	1263	1215	954	772	674	593	570	543	531
22.5	1517	1376	1321	969	775	669	605	569	555	564
25.0	1769	1569	1441	1014	785	680	614	581	568	571
27.5	1976	1810	1551	1059	808	699	633	601	599	629
30.0	2350	1943	1722	1097	820	718	656	625	640	713
32.5	2576	2116	1821	1164	836	731	666	661	745	884
35.0	2757	2255	1861	1166	832	733	677	710	876	1125
37.5	2927	2349	1899	1154	830	727	686	753	1064	1357
40.0	3048	2453	2006	1135	811	709	696	791	1187	1299
42.5	3209	2624	2018	1113	771	693	693	793	1173	937
45.0	3320	2672	2098	1109	704	662	658	729	1004	691
47.5	3446	2786	2243	1077	604	599	585	647	802	557
50.0	3721	3025	2285	1045	517	516	512	560	624	494
52.5	3977	3287	2435	1032	451	442	439	469	507	463
55.0	4598	3717	2677	997	420	402	391	410	427	438
57.5	5329	4248	2943	938	401	374	364	371	382	413
60.0	6025	4675	3274	852	373	358	347	348	351	392
62.5	6539	4965	3576	705	353	344	331	330	329	373
65.0	6701	4906	3331	565	339	330	320	311	319	402
67.5	6388	4031	2341	435	331	318	309	317	369	495
70.0	5179	2658	1316	349	317	307	316	355	467	625
72.5	2888	1354	507	322	305	299	335	413	459	406
75.0	965	559	411	308	294	304	309	331	263	292
77.5	616	418	329	301	290	306	283	261	245	253

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	481	366	290	296	281	291	278	258	243	242
82.5	401	304	277	296	277	260	273	258	245	245
85.0	350	242	258	286	271	254	276	261	250	246
87.5	277	209	246	286	268	254	279	267	254	242
90.0	219	183	258	289	273	256	282	269	255	236
92.5	196	178	253	288	273	252	277	271	261	244
95.0	185	217	239	281	264	242	266	262	256	239
97.5	165	232	229	259	248	224	252	248	246	227
100.0	169	219	218	229	231	207	238	238	237	213
102.5	167	197	201	202	213	197	225	228	229	198
105.0	153	175	181	180	191	187	213	219	220	180
107.5	136	154	161	160	173	177	202	209	209	161
110.0	123	136	144	148	156	166	190	201	198	143
112.5	111	122	130	137	143	157	180	192	185	129
115.0	103	112	119	130	135	152	171	181	170	115
117.5	96	105	111	124	131	146	162	171	154	104
120.0	91	99	105	118	127	142	156	159	137	96
122.5	87	94	100	113	124	137	149	148	121	91
125.0	85	91	97	109	121	134	142	136	106	87
127.5	84	89	95	108	119	132	134	123	94	84
130.0	85	89	95	107	117	127	127	109	85	81
132.5	86	90	95	107	113	117	115	98	79	78
135.0	88	92	96	105	107	104	97	84	76	77
137.5	86	90	93	98	97	88	76	65	65	71
140.0	81	84	86	87	83	70	55	48	51	58
142.5	69	73	74	72	63	52	38	33	37	43
145.0	56	58	59	55	46	35	25	22	25	30
147.5	39	41	40	37	30	22	15	14	16	17
150.0	25	25	25	24	21	14	11	9	10	12
152.5	17	17	17	16	13	11	8	6	4	4
155.0	11	12	12	11	11	9	7	4	3	2
157.5	8	8	9	9	9	8	6	4	2	1
160.0	6	7	7	8	8	8	6	4	2	0
162.5	6	7	7	8	8	7	5	3	2	0
165.0	6	7	7	8	8	7	5	3	1	0
167.5	6	7	7	8	8	7	5	3	1	0
170.0	6	7	7	7	8	7	5	3	1	0
172.5	6	6	7	7	7	7	5	3	1	0
175.0	6	6	6	7	7	7	5	3	1	0
177.5	6	6	6	7	7	6	5	3	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	961	961
2.5	940	939
5.0	820	815
7.5	704	701
10.0	613	612
12.5	575	575
15.0	531	526
17.5	529	528
20.0	525	519
22.5	551	548
25.0	573	571

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	621	620
30.0	730	712
32.5	860	832
35.0	1083	1040
37.5	1190	1120
40.0	930	865
42.5	622	595
45.0	517	497
47.5	462	449
50.0	431	421
52.5	408	401
55.0	389	389
57.5	375	383
60.0	367	385
62.5	363	389
65.0	437	472
67.5	560	572
70.0	361	323
72.5	313	286
75.0	271	226
77.5	212	155
80.0	191	129
82.5	351	352
85.0	250	180
87.5	170	118
90.0	140	85
92.5	147	110
95.0	147	130
97.5	143	144
100.0	140	155
102.5	137	157
105.0	133	156
107.5	130	148
110.0	125	139
112.5	120	130
115.0	115	121
117.5	109	112
120.0	105	107
122.5	99	100
125.0	94	95
127.5	88	89
130.0	84	84
132.5	80	81
135.0	78	78
137.5	75	76
140.0	60	60
142.5	46	46
145.0	32	32
147.5	19	19
150.0	12	12
152.5	5	5
155.0	0	0
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.

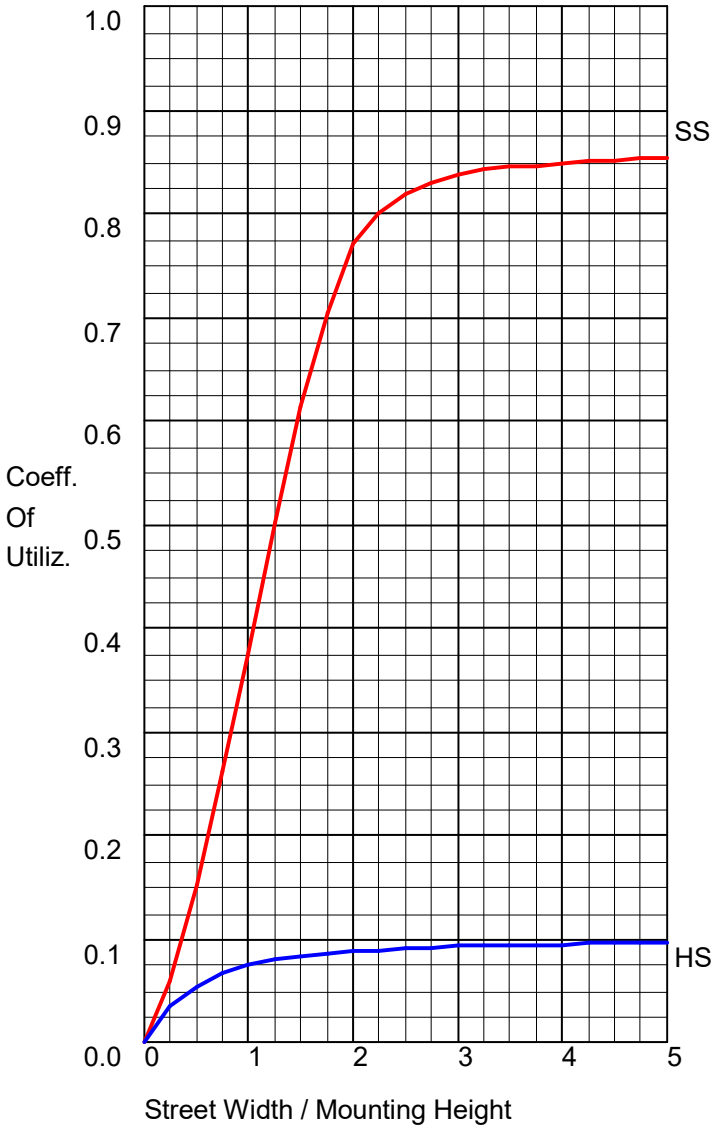
CANDELA TABULATION - (Cont.)

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-3-30-70CRI-IH.IES

COEFFICIENTS OF UTILIZATION



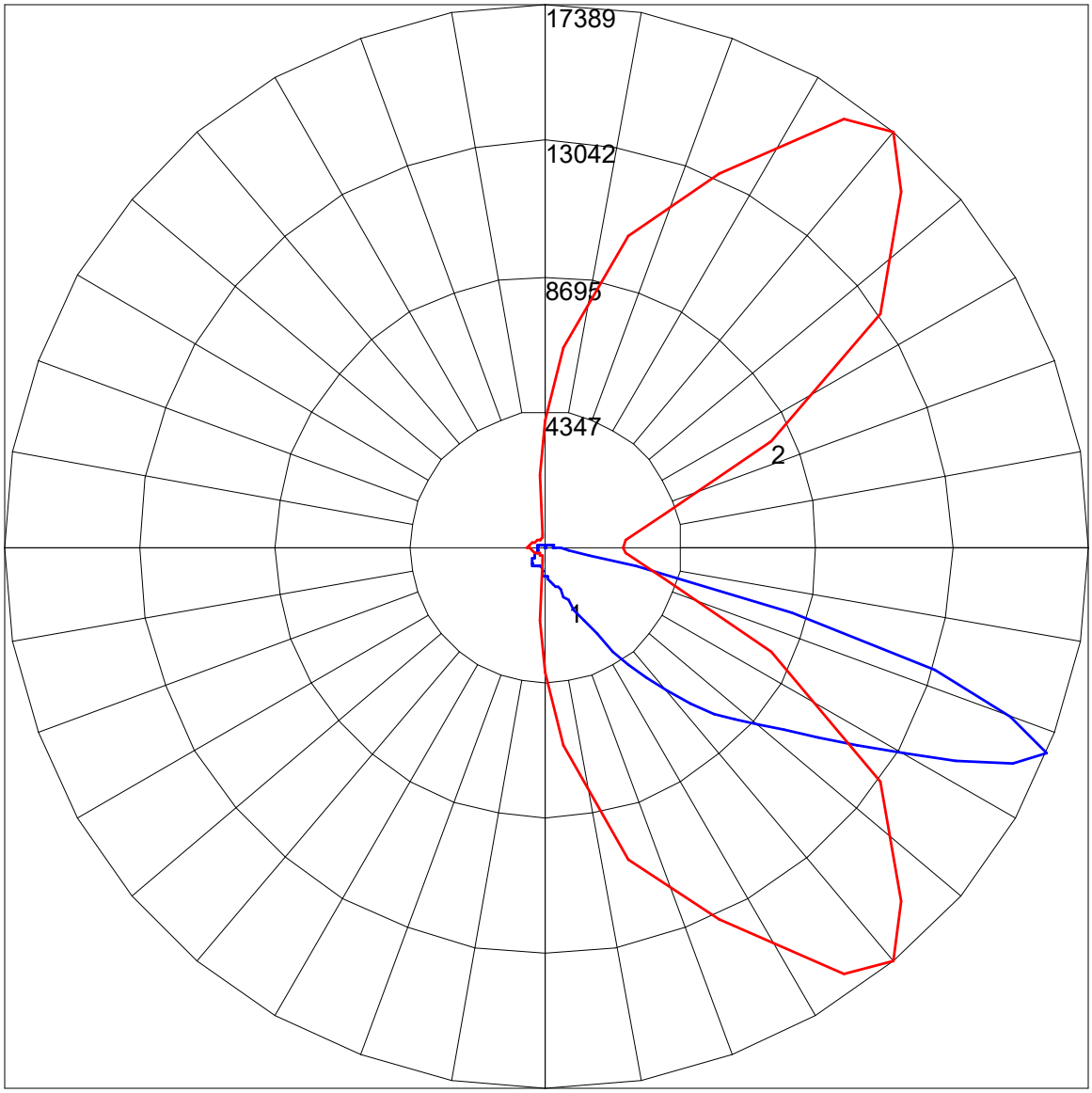
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17049.4	86.2
Downward House Side	2016.3	10.2
Downward Total	19065.7	96.4
Upward Street Side	304.8	1.5
Upward House Side	403.3	2.0
Upward Total	708.1	3.6
Total Flux	19773.8	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-3-30-70CRI-IH.IES

POLAR GRAPH

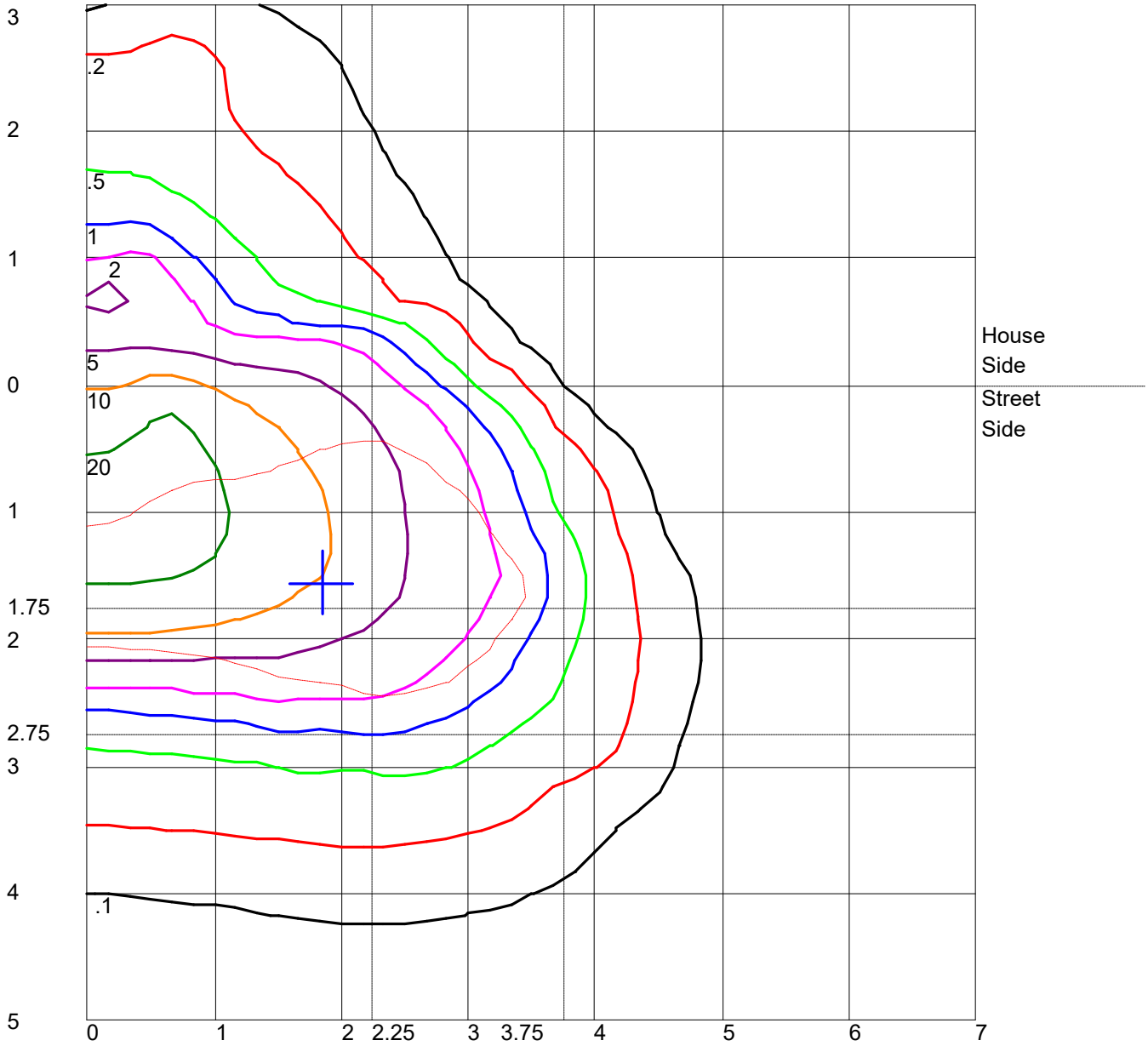


Maximum Candela = 17389 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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-3-30-70CRI-IH.IES

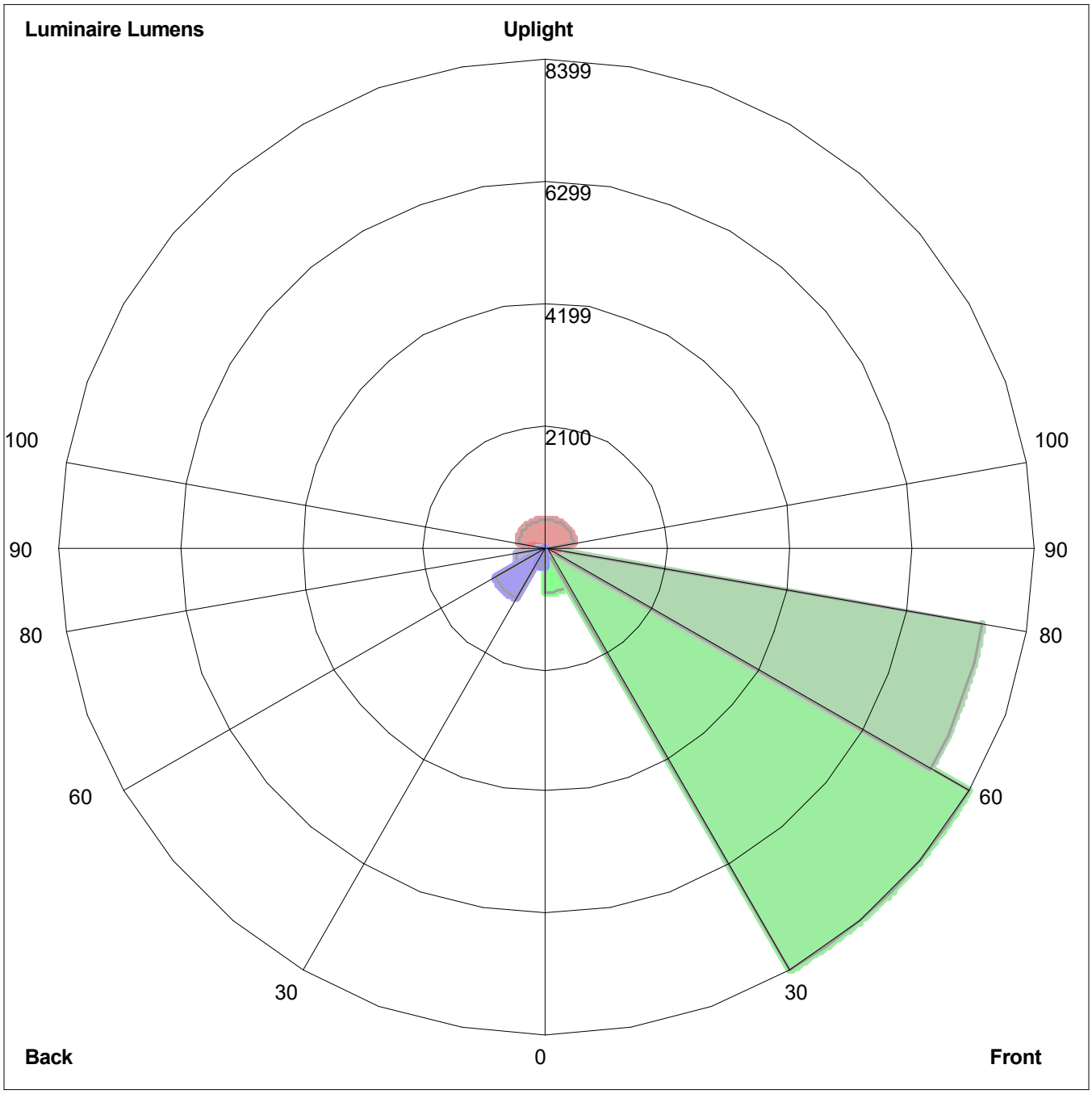
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=768.1, Medium=8398.8, High=7628.8, Very High=253.8
Back: Low=322.2, Medium=1018.3, High=534.0, Very High=141.9
Uplight: Low=224.5, High=483.6

BUG Rating : B2-U3-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.