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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12643
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12669
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	10122
Maximum Candela Angle	30H 67.5V
Maximum Candela (<90 Degrees Vertical)	10122
Maximum Candela Angle (<90 Degrees Vertical)	30H 67.5V
Maximum Candela At 90 Degrees Vertical	180 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1767 (13.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1030.3	N.A.	8.1
FM - Front-Medium (30-60)	5087.6	N.A.	40.2
FH - Front-High (60-80)	4759.5	N.A.	37.6
FVH - Front-Very High (80-90)	203.3	N.A.	1.6
BL - Back-Low (0-30)	217.5	N.A.	1.7
BM - Back-Medium (30-60)	473.7	N.A.	3.7
BH - Back-High (60-80)	262.8	N.A.	2.1
BVH - Back-Very High (80-90)	85.5	N.A.	0.7
UL - Uplight-Low (90-100)	149.4	N.A.	1.2
UH - Uplight-High (100-180)	399.0	N.A.	3.1
Total	12668.5	N.A.	100.0
BUG Rating	B1-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	30	35	45	55	65	75
0.0	966	966	966	966	966	966	966	966	966	966
2.5	1134	1131	1097	1092	1091	1093	1079	1053	1026	1001
5.0	1251	1245	1210	1251	1243	1265	1291	1244	1177	1101
7.5	1716	1673	1655	1635	1599	1548	1438	1318	1278	1198
10.0	1833	1811	1806	1850	1822	1835	1756	1633	1399	1337
12.5	2029	1958	2027	2049	2023	1991	1923	1863	1685	1444
15.0	2068	2042	2039	2068	2098	2154	2187	2068	2022	1648
17.5	2317	2250	2315	2329	2327	2279	2315	2361	2270	1966
20.0	2596	2584	2596	2534	2553	2586	2501	2566	2530	2201
22.5	2809	2809	2879	2904	2850	2780	2838	2743	2762	2506
25.0	3086	3114	3182	3073	3106	3178	3034	2952	2987	2706
27.5	3227	3235	3245	3369	3411	3353	3393	3218	3100	2963
30.0	3213	3268	3376	3451	3469	3622	3608	3473	3216	3219
32.5	3074	3088	3244	3548	3684	3774	3919	3710	3439	3366
35.0	2967	2959	3091	3419	3604	3876	4187	3926	3607	3419
37.5	2865	2870	2992	3300	3500	3796	4445	4270	3863	3441
40.0	2862	2865	2985	3280	3471	3743	4500	4563	4165	3522
42.5	3055	3031	3144	3385	3532	3780	4535	4984	4330	3741
45.0	3434	3423	3503	3677	3740	3941	4587	5234	4576	3953
47.5	4013	4003	4091	4198	4159	4277	4730	5429	5013	4256
50.0	4689	4651	4768	4938	4808	4793	4965	5586	5422	4730
52.5	5012	5021	5249	5615	5521	5432	5229	5745	5669	4883
55.0	5156	5162	5430	5991	6049	5981	5528	5698	5550	5076
57.5	5967	5933	5915	6192	6259	6265	5851	5379	5382	5294
60.0	7544	7612	7373	7017	6737	6381	5728	4884	5031	5614
62.5	8564	8677	8765	8796	8288	7325	5160	4405	4472	5720
65.0	8750	8903	9178	9815	9735	9155	5361	3859	3679	5307
67.5	8283	8390	8848	9884	10122	10027	7646	3177	2800	4242
70.0	6375	6429	7435	8738	9272	9678	8696	3760	1991	2948
72.5	2490	2790	4101	6251	7716	8913	8032	5188	1293	1571
75.0	886	966	1648	2687	3615	5351	7629	4590	897	747
77.5	653	675	878	1441	1748	2406	3816	2869	843	397
80.0	458	470	551	794	936	1223	1703	1767	898	306
82.5	253	266	298	366	428	546	841	881	600	366
85.0	136	148	170	209	251	321	475	599	422	306
87.5	76	83	107	144	168	180	245	293	247	201
90.0	53	58	80	98	107	115	146	171	162	166
92.5	59	59	81	97	105	113	128	133	144	159
95.0	66	62	83	100	107	116	132	136	147	151
97.5	71	65	85	101	108	117	132	136	144	126
100.0	75	68	87	103	109	117	131	132	132	104
102.5	78	72	87	104	110	117	129	125	114	87
105.0	81	76	88	106	111	118	125	112	96	82
107.5	83	81	88	108	112	117	117	97	83	78
110.0	85	84	89	108	113	115	106	85	76	76
112.5	86	86	90	108	110	109	95	79	71	75
115.0	88	88	90	105	105	100	86	75	68	74
117.5	90	90	90	99	97	93	82	73	66	73
120.0	91	91	88	92	90	87	79	71	66	72
122.5	91	90	85	86	86	84	78	71	67	71
125.0	89	87	82	83	84	82	77	71	67	70
127.5	86	85	81	81	82	81	77	73	69	71
130.0	84	84	81	79	80	80	79	74	71	73

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CANDELA TABULATION - (Cont.)

132.5	84	83	81	79	80	81	77	72	72	75
135.0	84	84	82	79	78	77	71	68	71	77
137.5	83	82	79	72	69	66	60	60	66	75
140.0	74	73	68	61	57	53	48	50	57	67
142.5	61	60	55	47	43	37	36	39	46	56
145.0	47	45	40	32	29	26	26	28	34	43
147.5	30	30	27	23	21	17	12	17	24	30
150.0	22	22	19	13	9	6	6	8	14	19
152.5	9	8	6	4	4	3	3	5	8	11
155.0	2	2	2	2	2	2	3	4	5	7
157.5	0	1	2	2	2	2	3	3	4	5
160.0	0	1	2	2	2	2	3	3	4	4
162.5	0	1	2	2	2	2	3	3	4	4
165.0	0	1	2	2	2	2	3	3	3	4
167.5	0	1	2	2	3	3	3	3	4	4
170.0	0	1	2	3	3	3	3	3	4	4
172.5	0	1	2	3	3	3	3	3	3	4
175.0	1	1	2	3	3	3	3	3	3	4
177.5	1	1	2	3	3	3	3	3	3	4
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	966	966	966	966	966	966	966	966	966	966
2.5	983	982	972	955	926	890	862	855	848	839
5.0	1029	1002	974	899	844	855	845	811	790	769
7.5	1082	1033	989	877	860	805	747	683	616	545
10.0	1167	1095	1006	923	827	731	569	432	375	321
12.5	1334	1224	1075	990	821	565	407	302	257	244
15.0	1465	1328	1179	1041	745	452	285	239	229	224
17.5	1647	1471	1290	1065	645	336	234	220	217	211
20.0	1830	1591	1419	1064	536	254	223	208	205	206
22.5	1983	1816	1538	1056	403	232	213	198	196	192
25.0	2195	1894	1630	1006	292	226	206	189	183	185
27.5	2391	2029	1763	926	250	219	200	179	172	169
30.0	2455	2151	1802	774	243	210	190	170	159	161
32.5	2641	2216	1857	653	237	204	181	159	160	168
35.0	2733	2308	1895	549	233	197	169	159	173	188
37.5	2824	2461	1902	423	225	189	160	171	189	193
40.0	2935	2538	1913	331	217	180	163	190	194	167
42.5	3166	2583	1946	282	209	171	181	200	161	121
45.0	3269	2738	1933	264	199	178	205	177	128	101
47.5	3398	2773	1945	265	195	194	209	145	116	95
50.0	3633	2815	1864	292	238	212	183	132	114	98
52.5	3690	2945	1820	249	249	274	164	129	130	173
55.0	3902	3080	1713	222	188	270	191	153	237	295
57.5	4210	3216	1717	209	180	179	239	255	317	274
60.0	4591	3586	1768	198	178	159	234	315	232	114
62.5	4828	3676	1710	187	173	154	242	243	142	114
65.0	4889	3554	1470	181	165	189	211	155	148	122
67.5	4386	2997	1116	177	154	191	150	155	149	124
70.0	3290	1953	611	169	161	171	157	166	142	125
72.5	1655	902	297	164	158	168	159	149	144	129
75.0	725	471	221	163	170	165	155	151	145	137
77.5	482	331	191	161	169	154	160	154	148	142

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CANDELA TABULATION - (Cont.)

80.0	352	274	173	171	163	155	164	156	149	143
82.5	267	216	156	182	170	159	170	161	154	147
85.0	213	152	152	192	176	166	176	165	157	151
87.5	165	110	147	188	178	168	182	172	161	152
90.0	126	89	154	180	175	161	180	175	168	156
92.5	107	107	152	181	179	162	182	180	174	162
95.0	109	139	144	179	177	157	180	182	179	169
97.5	114	146	139	165	165	147	170	173	174	167
100.0	120	139	133	145	154	139	160	164	167	159
102.5	116	129	125	128	143	135	152	157	161	149
105.0	108	119	118	117	134	134	147	152	156	139
107.5	101	111	112	110	125	132	145	150	152	128
110.0	96	104	106	105	117	128	142	149	148	118
112.5	91	98	101	102	110	124	140	147	143	110
115.0	87	93	96	100	106	121	136	145	138	103
117.5	83	89	92	98	103	118	132	141	131	97
120.0	80	86	89	96	100	116	129	136	121	94
122.5	78	82	86	94	100	113	125	128	112	92
125.0	76	80	84	92	99	111	121	120	102	90
127.5	76	79	84	92	99	110	116	112	94	89
130.0	77	80	84	92	98	108	110	103	88	87
132.5	78	81	85	92	96	104	105	96	84	85
135.0	81	84	87	93	93	92	95	90	82	84
137.5	82	85	87	89	86	79	78	77	81	83
140.0	76	78	80	79	73	65	60	61	69	78
142.5	64	66	67	65	58	50	43	46	55	63
145.0	49	51	51	49	43	36	30	32	40	48
147.5	34	35	35	34	29	22	20	22	27	34
150.0	21	22	22	21	17	11	10	14	18	22
152.5	12	12	12	12	10	7	5	6	11	15
155.0	8	8	8	7	6	5	3	4	4	6
157.5	5	5	5	5	5	4	3	3	3	3
160.0	4	4	4	5	4	4	3	2	2	2
162.5	4	4	4	4	4	3	3	2	2	2
165.0	4	4	4	4	4	3	3	2	2	1
167.5	4	4	4	4	4	3	3	2	2	1
170.0	4	4	4	4	4	3	3	2	2	1
172.5	4	4	4	4	4	3	2	2	1	1
175.0	4	4	4	4	4	3	2	2	1	0
177.5	4	4	4	4	4	3	2	1	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	966	966
2.5	838	839
5.0	759	767
7.5	517	522
10.0	298	302
12.5	234	230
15.0	222	222
17.5	209	207
20.0	203	204
22.5	189	189
25.0	179	179

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CANDELA TABULATION - (Cont.)

27.5	164	165
30.0	161	160
32.5	175	174
35.0	193	193
37.5	193	192
40.0	152	147
42.5	114	110
45.0	99	97
47.5	94	93
50.0	102	102
52.5	212	229
55.0	307	316
57.5	188	187
60.0	91	98
62.5	89	94
65.0	90	93
67.5	86	85
70.0	85	79
72.5	85	72
75.0	85	65
77.5	89	60
80.0	92	55
82.5	95	52
85.0	94	52
87.5	96	54
90.0	99	60
92.5	103	72
95.0	109	89
97.5	110	101
100.0	107	109
102.5	103	112
105.0	100	111
107.5	99	109
110.0	98	107
112.5	99	105
115.0	100	103
117.5	99	101
120.0	99	100
122.5	98	99
125.0	97	97
127.5	95	95
130.0	92	92
132.5	89	89
135.0	86	87
137.5	85	85
140.0	82	83
142.5	68	68
145.0	52	53
147.5	37	38
150.0	24	25
152.5	16	16
155.0	8	8
157.5	3	3
160.0	1	0
162.5	1	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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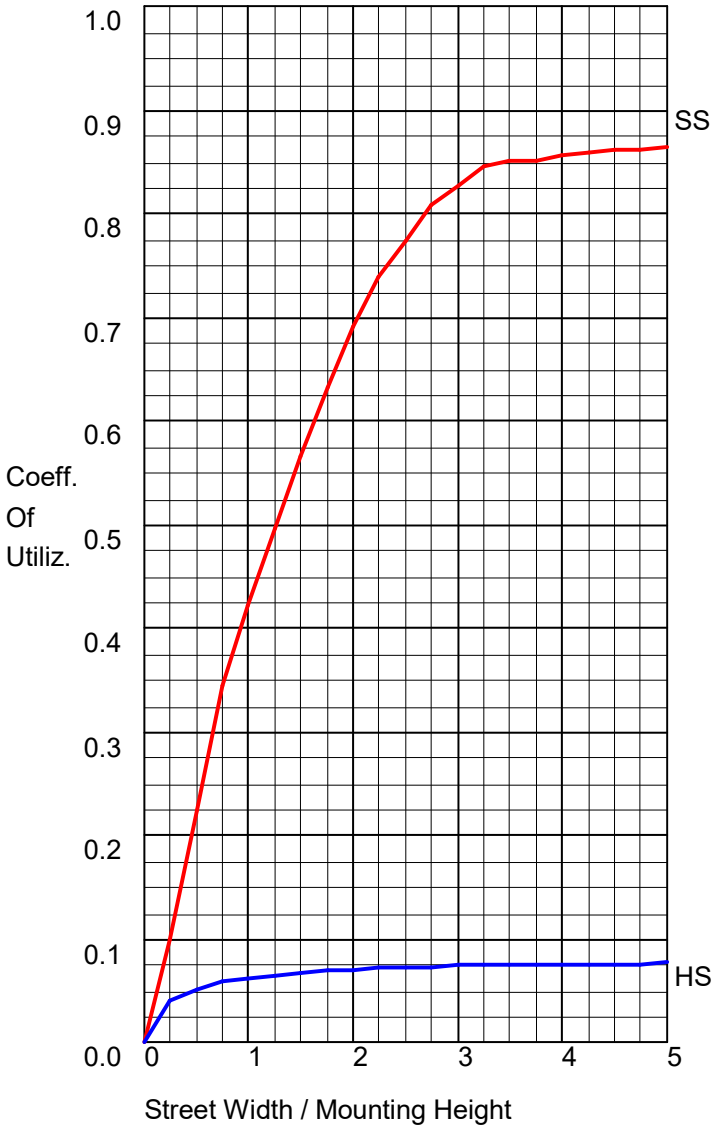
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11080.7	87.5
Downward House Side	1039.4	8.2
Downward Total	12120.1	95.7
Upward Street Side	237.2	1.9
Upward House Side	311.2	2.5
Upward Total	548.4	4.3
Total Flux	12668.5	100.0

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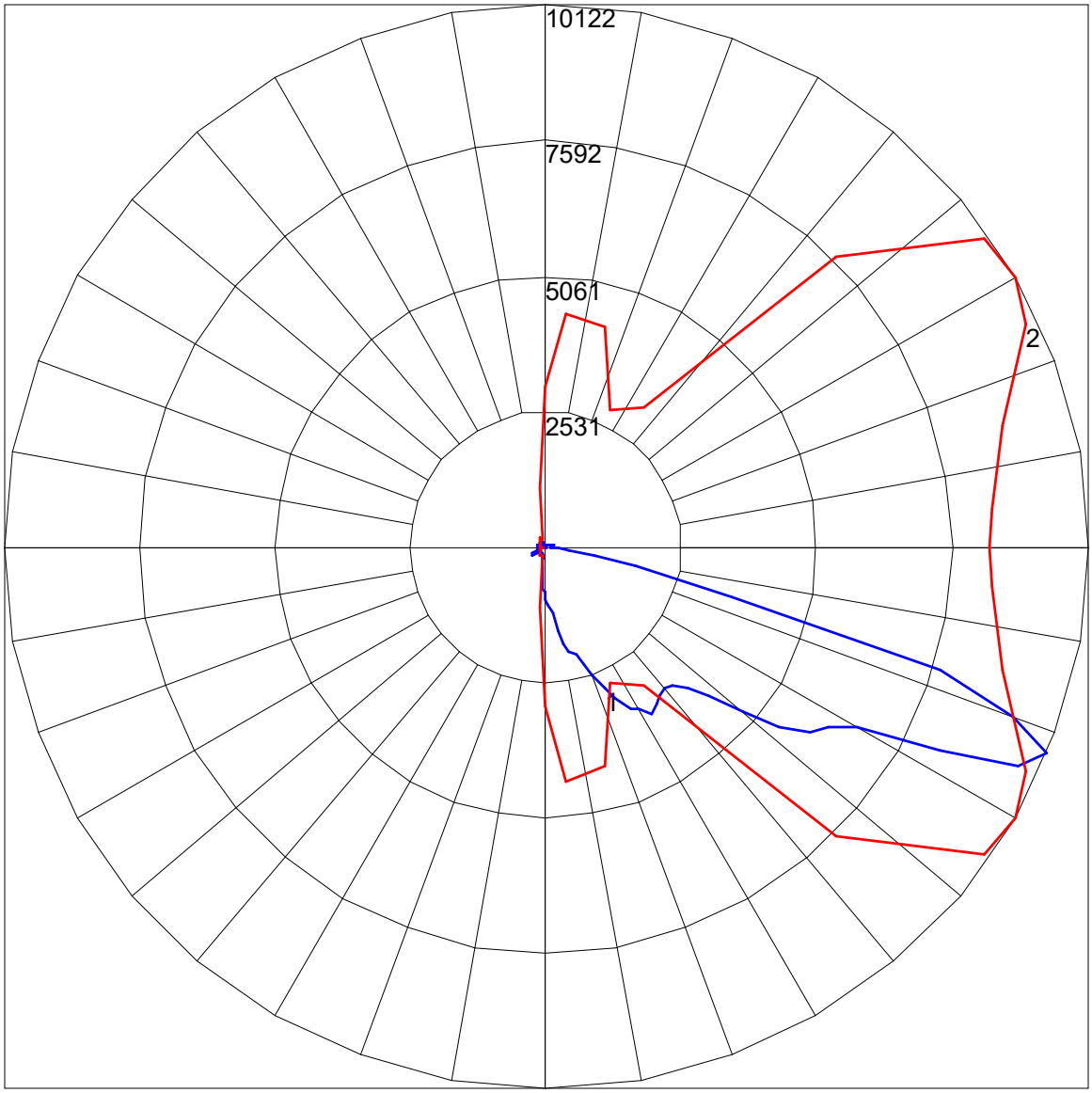
POLAR GRAPH



Maximum Candela = 10122 Located At Horizontal Angle = 30, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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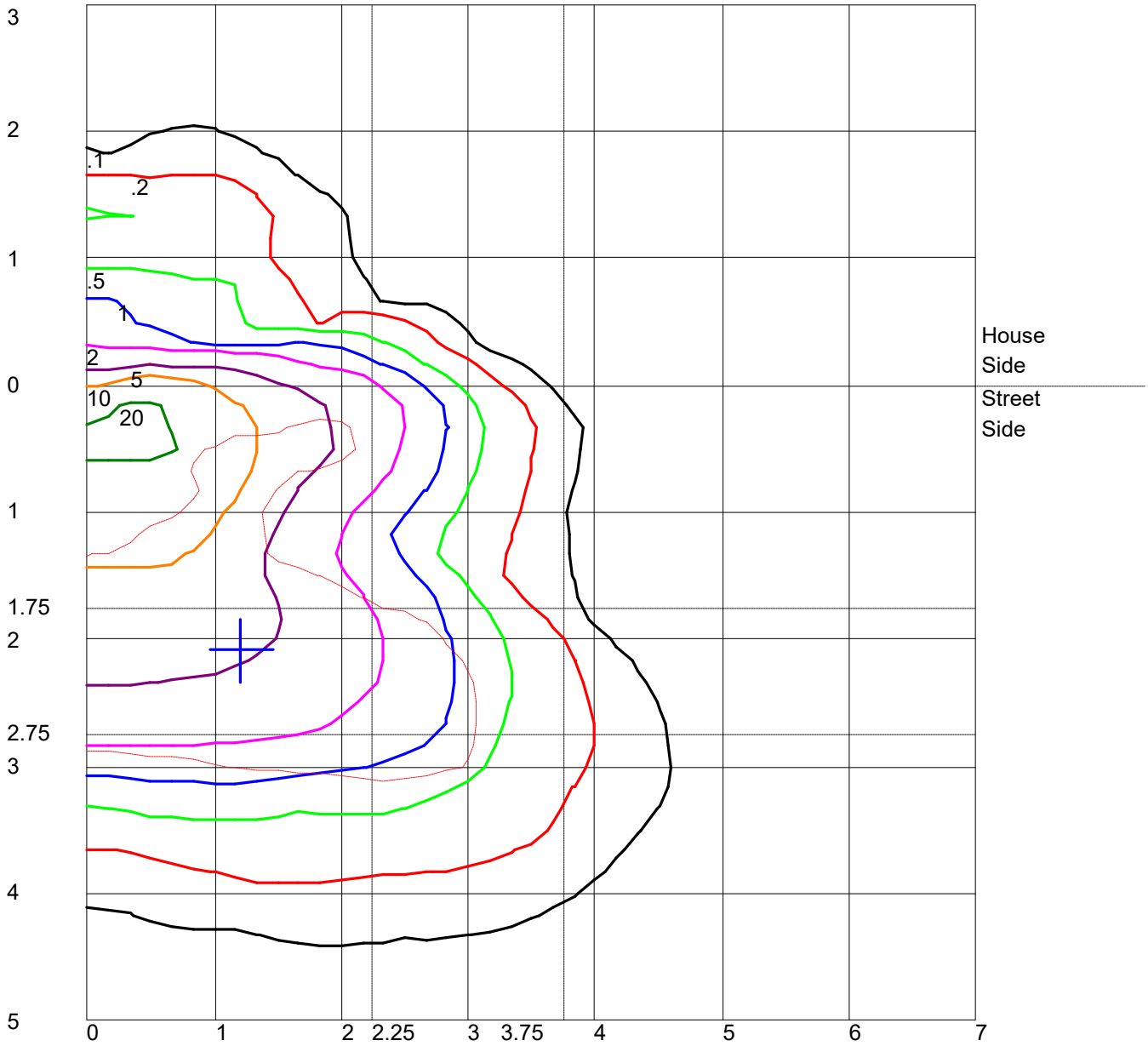
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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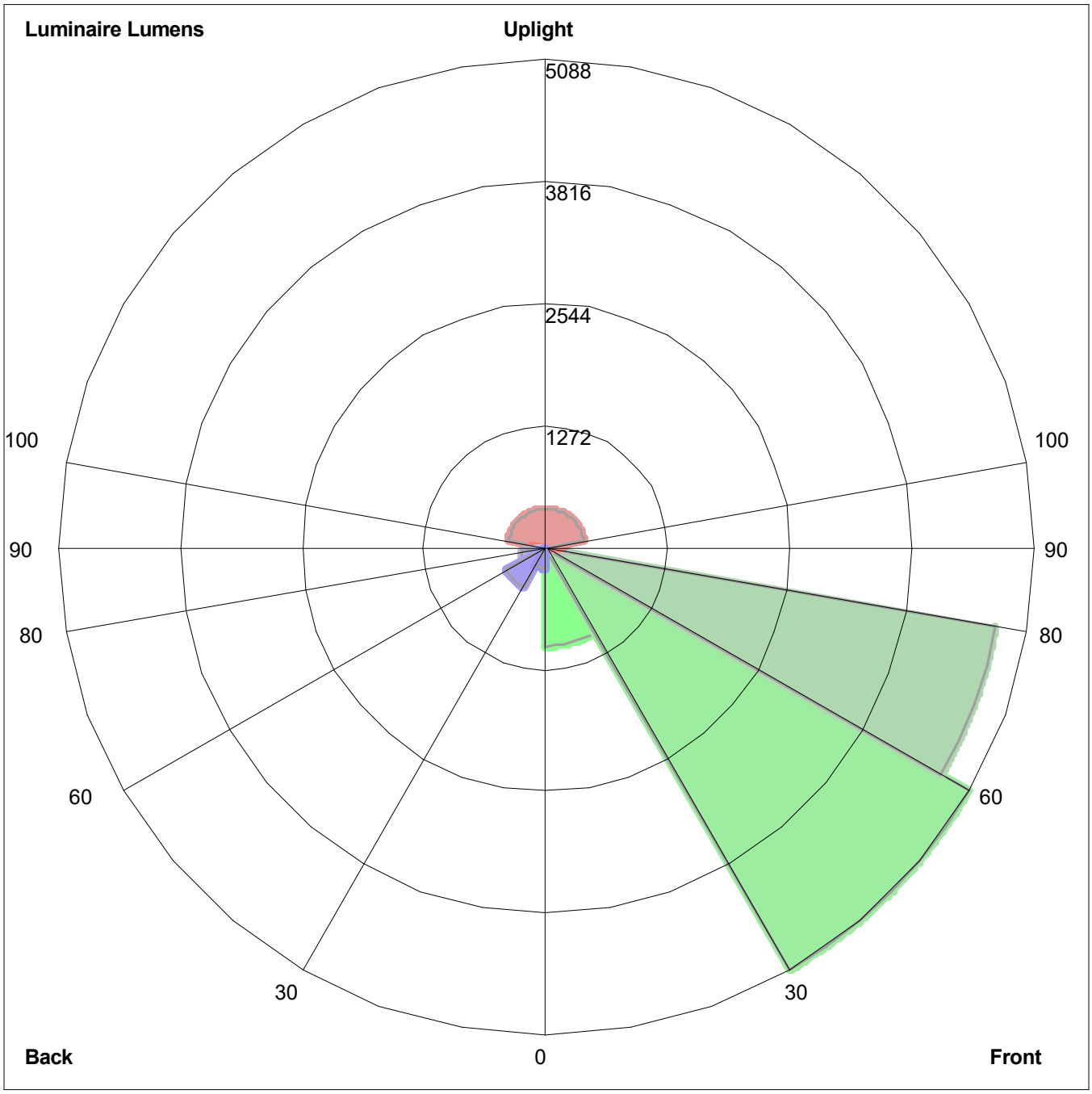
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1030.3, Medium=5087.6, High=4759.5, Very High=203.3
Back: Low=217.5, Medium=473.7, High=262.8, Very High=85.5
Uplight: Low=149.4, High=399.0

BUG Rating : B1-U3-G2

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