IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-50-70CRI-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-3-50-70CRI-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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20264
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	17820
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	17820
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	296 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1522 (7.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	787.2	N.A.	3.9
FM - Front-Medium (30-60)	8607.0	N.A.	42.5
FH - Front-High (60-80)	7817.9	N.A.	38.6
FVH - Front-Very High (80-90)	260.1	N.A.	1.3
BL - Back-Low (0-30)	330.2	N.A.	1.6
BM - Back-Medium (30-60)	1043.4	N.A.	5.1
BH - Back-High (60-80)	547.2	N.A.	2.7
BVH - Back-Very High (80-90)	145.4	N.A.	0.7
UL - Uplight-Low (90-100)	230.2	N.A.	1.1
UH - Uplight-High (100-180)	495.7	N.A.	2.4
Total	20264.3	N.A.	100.0
BUG Rating	B2-U3-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	985	985	985	985	985	985	985	985	985	985
2.5	1016	1013	1005	1004	1004	1004	996	997	988	988
5.0	1148	1149	1138	1130	1131	1118	1099	1072	1018	992
7.5	1156	1166	1148	1176	1216	1212	1190	1163	1122	1043
10.0	1238	1253	1275	1247	1265	1220	1203	1224	1189	1115
12.5	1298	1299	1302	1314	1304	1331	1308	1290	1292	1204
15.0	1421	1391	1408	1425	1401	1401	1378	1395	1343	1314
17.5	1476	1502	1487	1485	1562	1516	1493	1518	1498	1416
20.0	1649	1670	1678	1723	1676	1729	1742	1705	1648	1573
22.5	1940	1904	1924	1942	1962	1917	1917	1962	1922	1771
25.0	2124	2162	2268	2353	2281	2280	2250	2290	2230	2148
27.5	2672	2761	2781	2730	2843	2705	2728	2670	2702	2419
30.0	3304	3317	3418	3463	3348	3406	3320	3196	3077	2825
32.5	4320	4308	4334	4191	4164	4028	4085	3799	3601	3260
35.0	4989	4963	4985	5146	4955	4826	4745	4537	4063	3573
37.5	5521	5560	5606	5861	5967	5669	5466	5091	4400	3876
40.0	6120	6112	6225	6553	6740	6586	6234	5652	4797	4058
42.5	6778	6795	6928	7259	7518	7428	7021	6236	5229	4194
45.0	7663	7707	7898	8201	8329	8147	7781	6907	5505	4364
47.5	8753	8726	9009	9352	9330	8888	8448	7756	5692	4729
50.0	9849	9818	10159	10576	10526	9740	9144	8355	6166	5011
52.5	11035	11028	11295	11784	11818	10753	9931	8936	6835	5388
55.0	12296	12353	12560	13082	13030	11886	10907	9698	7797	6134
57.5	13599	13576	13842	14491	14467	13159	12131	10676	8834	6876
60.0	13400	13568	14163	15409	15810	14768	13585	11955	9920	7747
62.5	11562	11865	12826	14627	16570	16203	15228	13653	11325	8850
65.0	7461	7684	9435	12548	15271	17520	16962	15649	12807	9883
67.5	2499	2622	4037	8177	13432	16472	17820	17156	13562	10619
70.0	1560	1610	1972	3468	9949	14507	16232	17599	13336	9899
72.5	1117	1158	1368	2131	4614	11698	13422	14707	12809	8020
75.0	814	851	1029	1494	2597	6353	8373	9065	9962	3402
77.5	552	577	754	1150	1730	2781	3030	4411	2946	1264
80.0	370	400	535	865	1192	1490	1458	1522	1148	766
82.5	278	308	423	696	794	846	781	741	681	578
85.0	212	239	338	566	584	506	457	417	419	454
87.5	159	185	269	447	381	300	281	281	298	336
90.0	112	130	197	263	201	209	218	228	248	273
92.5	69	77	111	134	162	193	203	214	234	254
95.0	80	81	114	137	163	194	203	213	235	240
97.5	91	84	116	140	163	191	201	207	228	202
100.0	96	87	117	141	163	188	198	199	210	170
102.5	100	90	117	142	163	184	192	187	184	131
105.0	102	93	116	144	163	179	183	171	153	111
107.5	104	97	114	144	161	170	167	150	122	101
110.0	105	101	113	144	158	155	146	127	100	92
112.5	105	104	110	142	150	137	124	107	89	89
115.0	106	105	109	137	138	117	106	94	80	87
117.5	105	105	107	128	123	102	93	86	75	84
120.0	105	105	103	115	108	92	87	81	72	82
122.5	104	102	96	102	97	87	82	78	72	80
125.0	100	98	90	92	91	83	80	77	73	79
127.5	93	92	85	84	87	81	79	77	75	79
130.0	88	87	82	79	83	81	80	79	76	81

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CANDELA TABULATION - (Cont.)

132.5	84	83	80	76	80	81	80	79	78	83
135.0	82	81	79	75	78	77	77	75	77	84
137.5	81	81	79	74	71	69	67	68	73	81
140.0	78	77	73	66	59	56	56	58	65	73
142.5	68	67	63	54	45	42	43	45	52	62
145.0	55	54	50	41	31	30	31	33	39	48
147.5	41	40	34	28	23	19	19	20	27	34
150.0	28	28	24	20	12	10	11	13	18	22
152.5	21	20	16	9	6	5	6	7	11	15
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	985	985	985	985	985	985	985	985	985	985
2.5	991	989	990	986	978	981	972	973	971	965
5.0	999	1005	995	985	974	961	941	902	862	842
7.5	1003	1006	999	988	958	881	813	780	757	728
10.0	1031	1045	1026	990	882	807	744	703	664	639
12.5	1072	1079	1067	986	827	752	682	635	616	600
15.0	1154	1125	1123	971	813	719	649	617	575	556
17.5	1234	1180	1162	959	799	696	633	579	555	554
20.0	1374	1295	1246	978	791	691	608	584	557	544
22.5	1555	1410	1354	993	794	686	620	583	569	578
25.0	1812	1608	1477	1039	805	697	630	595	582	585
27.5	2025	1855	1589	1085	828	716	648	616	614	644
30.0	2409	1991	1765	1125	840	736	672	641	656	731
32.5	2640	2169	1866	1192	857	749	683	677	764	906
35.0	2826	2311	1907	1194	853	751	694	727	897	1153
37.5	3000	2408	1946	1183	851	745	703	771	1090	1390
40.0	3124	2514	2055	1163	831	726	713	811	1216	1331
42.5	3288	2689	2068	1140	790	710	710	813	1202	960
45.0	3402	2738	2150	1136	721	679	674	747	1029	708
47.5	3531	2855	2298	1104	619	614	599	663	822	571
50.0	3814	3100	2342	1070	530	528	524	574	640	507
52.5	4075	3369	2495	1058	462	453	450	480	519	474
55.0	4712	3809	2743	1021	430	412	400	420	438	449
57.5	5461	4354	3016	961	411	384	373	380	392	423
60.0	6174	4791	3355	873	383	367	355	356	360	401
62.5	6701	5088	3665	722	362	352	339	338	337	383
65.0	6868	5028	3413	579	347	338	328	319	327	412
67.5	6546	4131	2399	446	339	326	317	325	378	508
70.0	5307	2723	1349	357	325	315	324	364	478	641
72.5	2960	1387	519	330	313	306	343	423	470	416
75.0	989	573	421	316	301	312	317	339	270	299
77.5	632	428	337	308	297	314	290	268	251	259

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CANDELA TABULATION - (Cont.)

80.0	493	375	297	303	288	298	285	265	249	248
82.5	411	312	284	303	283	267	279	265	251	251
85.0	359	248	265	293	277	261	282	268	256	252
87.5	283	214	252	293	275	261	286	274	261	248
90.0	224	188	265	296	279	263	289	275	262	242
92.5	201	182	259	295	279	258	283	277	268	250
95.0	190	222	245	288	271	248	273	269	263	245
97.5	169	238	235	266	254	229	258	254	252	232
100.0	173	224	223	235	237	213	244	244	243	218
102.5	171	202	206	207	218	202	230	233	235	203
105.0	156	179	186	184	196	192	218	224	225	184
107.5	140	157	165	164	177	181	207	214	214	165
110.0	126	140	148	152	159	170	195	206	203	147
112.5	114	125	133	141	147	161	184	197	190	132
115.0	105	115	122	133	139	155	175	186	174	118
117.5	98	107	114	127	134	150	166	175	157	106
120.0	93	101	107	121	130	146	159	163	141	98
122.5	90	96	102	116	127	141	153	152	124	93
125.0	88	93	99	112	124	138	146	140	108	90
127.5	87	92	97	110	122	135	138	126	96	86
130.0	88	92	97	109	120	130	130	112	88	83
132.5	89	92	97	109	116	120	118	100	81	80
135.0	91	94	98	107	109	106	99	87	78	79
137.5	89	92	95	100	99	91	78	67	67	73
140.0	83	87	89	90	85	72	56	49	52	59
142.5	71	75	76	74	65	53	39	33	38	44
145.0	57	59	60	56	47	35	26	23	26	31
147.5	40	42	41	38	31	23	16	15	17	18
150.0	26	26	26	25	22	15	11	9	10	12
152.5	18	18	18	17	14	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	985	985
2.5	963	962
5.0	840	835
7.5	721	718
10.0	628	627
12.5	589	589
15.0	544	539
17.5	542	541
20.0	538	532
22.5	565	562
25.0	587	585

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CANDELA TABULATION - (Cont.)

27.5	637	636
30.0	748	730
32.5	882	853
35.0	1110	1066
37.5	1219	1148
40.0	953	886
42.5	638	610
45.0	529	510
47.5	473	460
50.0	442	431
52.5	418	411
55.0	398	398
57.5	385	393
60.0	376	395
62.5	372	398
65.0	448	484
67.5	574	586
70.0	370	331
72.5	321	293
75.0	277	231
77.5	217	158
80.0	196	132
82.5	360	361
85.0	256	184
87.5	174	121
90.0	144	88
92.5	151	113
95.0	151	133
97.5	147	148
100.0	144	158
102.5	141	161
105.0	137	159
107.5	133	152
110.0	128	143
112.5	123	133
115.0	118	124
117.5	112	115
120.0	107	109
122.5	101	102
125.0	96	97
127.5	91	92
130.0	86	87
132.5	82	83
135.0	80	80
137.5	77	78
140.0	62	62
142.5	47	47
145.0	32	32
147.5	20	20
150.0	13	13
152.5	5	5
155.0	0	0
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	3	3

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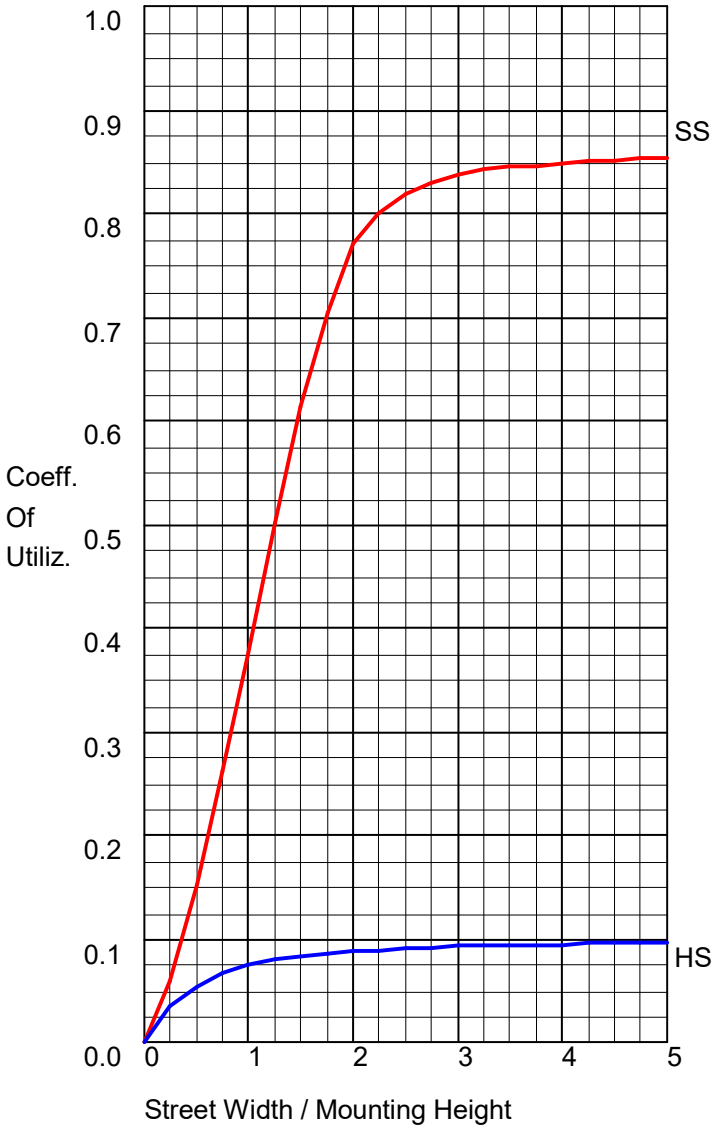
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17472.1	86.2
Downward House Side	2066.2	10.2
Downward Total	19538.3	96.4
Upward Street Side	312.6	1.5
Upward House Side	413.3	2.0
Upward Total	725.9	3.6
Total Flux	20264.2	100.0

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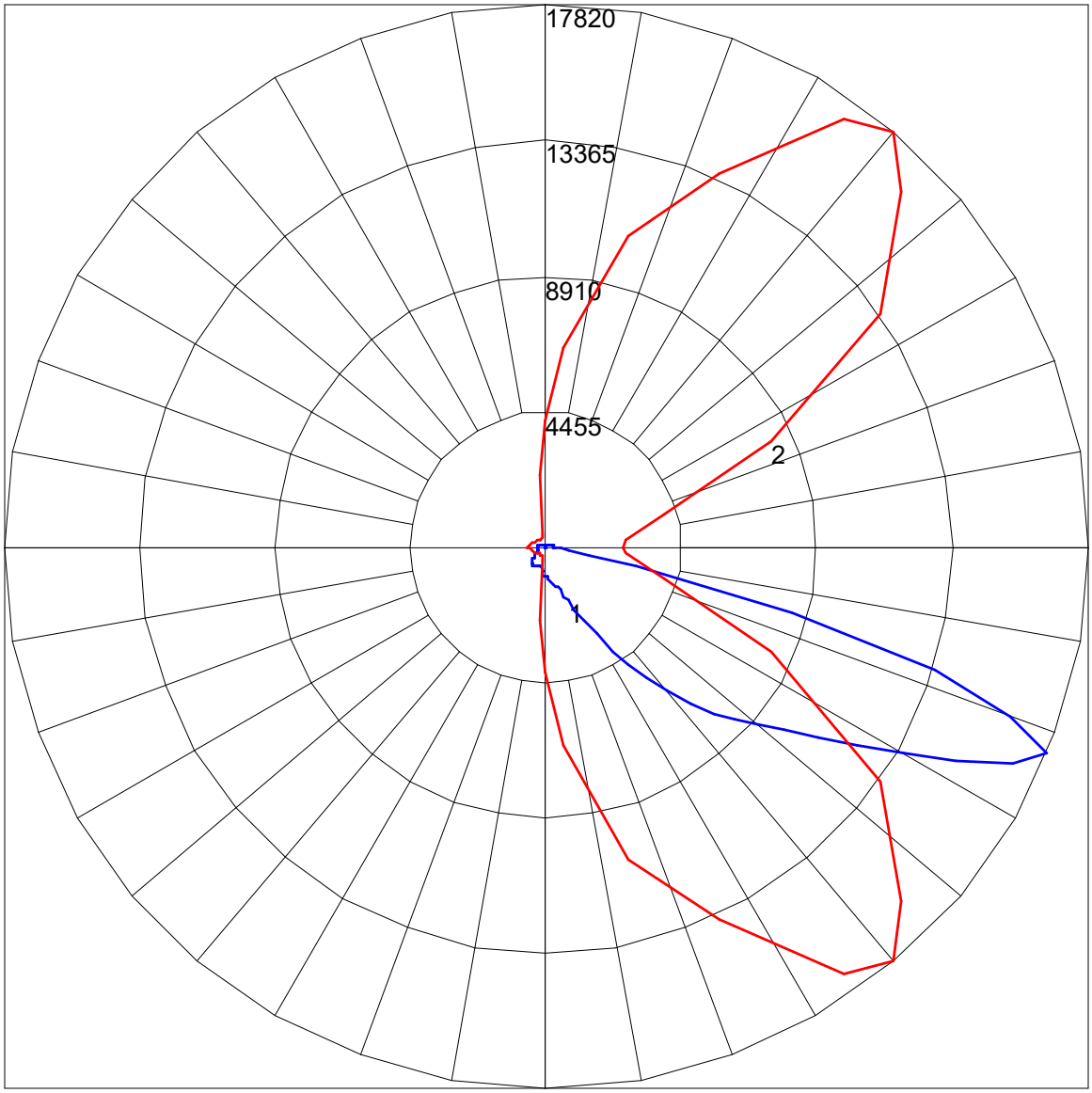
POLAR GRAPH



Maximum Candela = 17820 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.)

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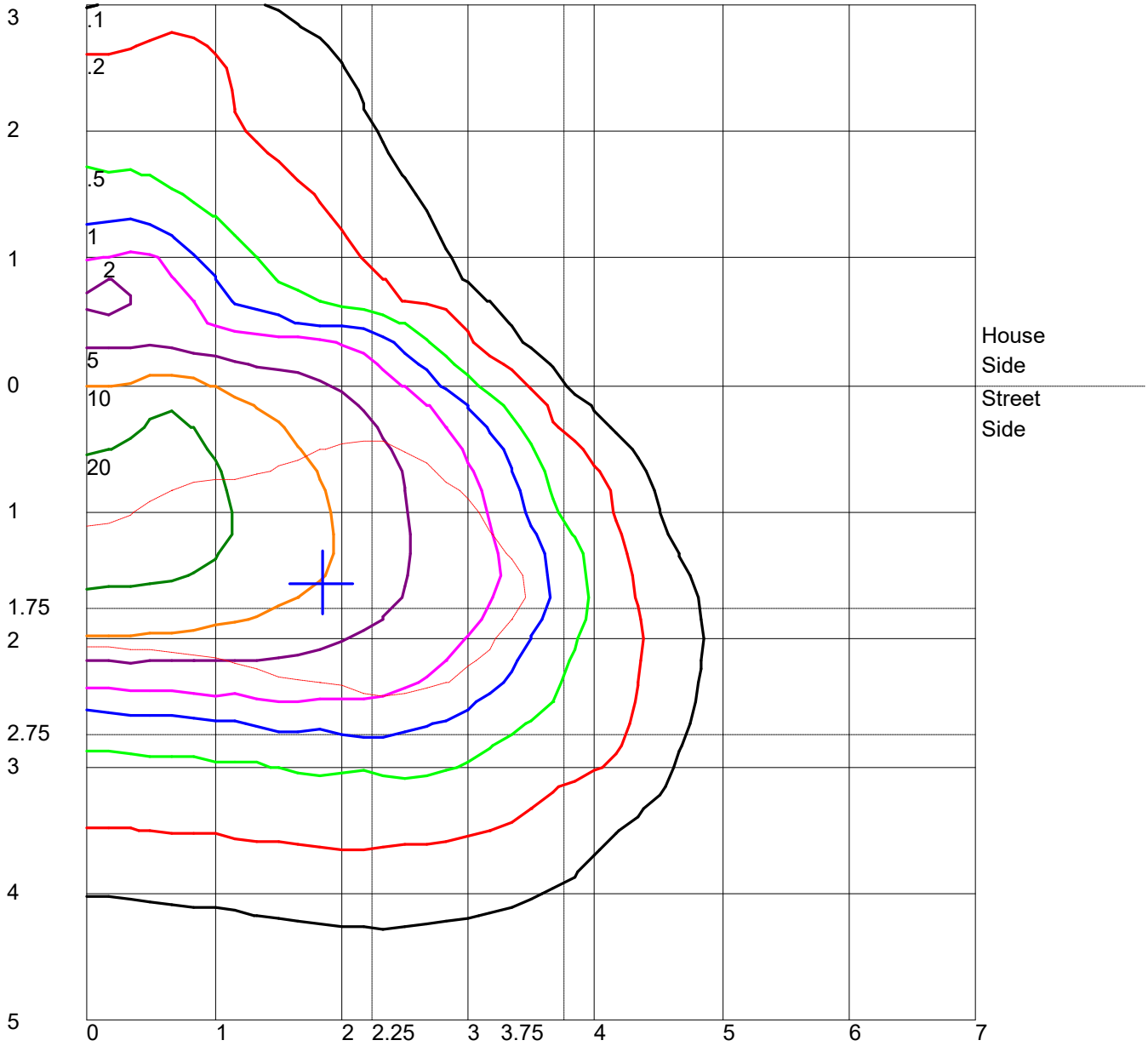
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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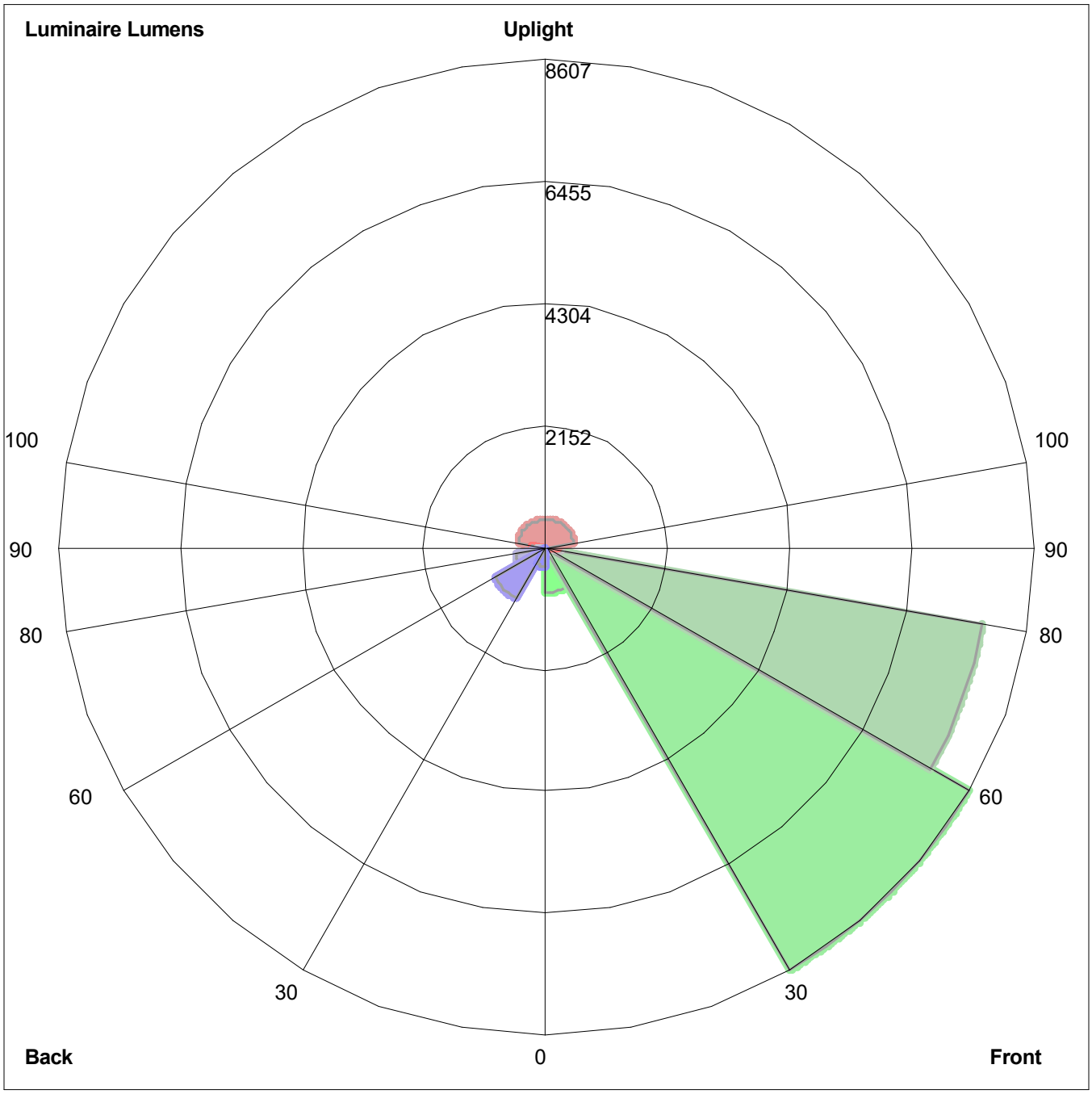
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=787.2, Medium= 8607.0, High=7817.9, Very High=260.1
Back: Low=330.2, Medium=1043.4, High=547.2, Very High=145.4
Uplight: Low=230.2, High=495.7

BUG Rating : B2-U3-G4

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