IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-40-70CRI-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-3-40-70CRI-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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20595
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	18112
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	18112
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	301 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1547 (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)	800.0	N.A.	3.9
FM - Front-Medium (30-60)	8747.8	N.A.	42.5
FH - Front-High (60-80)	7945.8	N.A.	38.6
FVH - Front-Very High (80-90)	264.3	N.A.	1.3
BL - Back-Low (0-30)	335.6	N.A.	1.6
BM - Back-Medium (30-60)	1060.5	N.A.	5.1
BH - Back-High (60-80)	556.2	N.A.	2.7
BVH - Back-Very High (80-90)	147.8	N.A.	0.7
UL - Uplight-Low (90-100)	233.9	N.A.	1.1
UH - Uplight-High (100-180)	503.6	N.A.	2.4
Total	20595.5	N.A.	100.0
BUG Rating	B2-U4-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001
2.5	1033	1030	1021	1020	1020	1020	1012	1013	1004	1004
5.0	1167	1168	1157	1148	1150	1136	1117	1090	1035	1008
7.5	1175	1185	1167	1195	1236	1232	1209	1182	1140	1060
10.0	1258	1274	1296	1267	1286	1240	1223	1244	1208	1133
12.5	1319	1320	1323	1335	1325	1353	1329	1311	1313	1224
15.0	1444	1414	1431	1448	1424	1424	1401	1418	1365	1336
17.5	1500	1527	1511	1509	1588	1541	1517	1543	1523	1439
20.0	1676	1697	1705	1751	1703	1757	1770	1733	1675	1599
22.5	1972	1935	1955	1974	1994	1948	1948	1994	1953	1800
25.0	2159	2197	2305	2392	2318	2317	2287	2327	2266	2183
27.5	2716	2806	2827	2775	2890	2749	2773	2714	2746	2459
30.0	3358	3371	3474	3520	3403	3462	3374	3248	3127	2871
32.5	4391	4378	4405	4260	4232	4094	4152	3861	3660	3313
35.0	5071	5044	5067	5230	5036	4905	4823	4611	4129	3631
37.5	5611	5651	5698	5957	6065	5762	5555	5174	4472	3939
40.0	6220	6212	6327	6660	6850	6694	6336	5744	4876	4124
42.5	6889	6906	7041	7378	7641	7550	7136	6338	5315	4263
45.0	7788	7833	8027	8335	8465	8280	7908	7020	5595	4435
47.5	8896	8869	9156	9505	9483	9033	8586	7883	5785	4806
50.0	10010	9979	10325	10749	10698	9899	9294	8492	6267	5093
52.5	11216	11208	11480	11977	12011	10929	10093	9082	6947	5476
55.0	12497	12555	12766	13296	13243	12081	11085	9857	7925	6234
57.5	13822	13798	14069	14728	14704	13374	12330	10851	8979	6989
60.0	13619	13790	14395	15661	16069	15010	13807	12151	10082	7874
62.5	11751	12059	13036	14866	16841	16468	15477	13876	11510	8995
65.0	7583	7810	9589	12753	15521	17807	17240	15905	13017	10045
67.5	2540	2665	4103	8311	13652	16742	18112	17437	13784	10793
70.0	1586	1636	2004	3525	10112	14744	16498	17887	13554	10061
72.5	1135	1177	1390	2166	4689	11889	13642	14948	13019	8151
75.0	827	865	1046	1518	2640	6457	8510	9213	10125	3458
77.5	561	586	766	1169	1758	2826	3080	4483	2994	1285
80.0	376	407	544	879	1212	1514	1482	1547	1167	779
82.5	283	313	430	707	807	860	794	753	692	587
85.0	215	243	344	575	594	514	464	424	426	461
87.5	162	188	273	454	387	305	286	286	303	341
90.0	114	132	200	267	204	212	222	232	252	277
92.5	70	78	113	136	165	196	206	217	238	258
95.0	81	82	116	139	166	197	206	216	239	244
97.5	92	85	118	142	166	194	204	210	232	205
100.0	98	88	119	143	166	191	201	202	213	173
102.5	102	91	119	144	166	187	195	190	187	133
105.0	104	95	118	146	166	182	186	174	155	113
107.5	106	99	116	146	164	173	170	152	124	103
110.0	107	103	115	146	161	158	148	129	102	94
112.5	107	106	112	144	152	139	126	109	90	90
115.0	108	107	111	139	140	119	108	96	81	88
117.5	107	107	109	130	125	104	95	87	76	85
120.0	107	107	105	117	110	94	88	82	73	83
122.5	106	104	98	104	99	88	83	79	73	81
125.0	102	100	91	93	92	84	81	78	74	80
127.5	95	94	86	85	88	82	80	78	76	80
130.0	89	88	83	80	84	82	81	80	77	82

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CANDELA TABULATION - (Cont.)

132.5	85	84	81	77	81	82	81	80	79	84
135.0	83	82	80	76	79	78	78	76	78	85
137.5	82	82	80	75	72	70	68	69	74	82
140.0	79	78	74	67	60	57	57	59	66	74
142.5	69	68	64	55	46	43	44	46	53	63
145.0	56	55	51	42	32	30	32	34	40	49
147.5	42	41	35	28	23	19	19	20	27	35
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	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001
2.5	1007	1005	1006	1002	994	997	988	989	987	981
5.0	1015	1021	1011	1001	990	977	956	917	876	856
7.5	1019	1022	1015	1004	974	895	826	793	769	740
10.0	1048	1062	1043	1006	896	820	756	715	675	649
12.5	1090	1097	1084	1002	841	764	693	645	626	610
15.0	1173	1143	1141	987	826	731	660	627	584	565
17.5	1254	1199	1181	975	812	707	643	588	564	563
20.0	1396	1316	1266	994	804	702	618	594	566	553
22.5	1580	1433	1376	1009	807	697	630	593	578	587
25.0	1842	1634	1501	1056	818	708	640	605	592	595
27.5	2058	1885	1615	1103	842	728	659	626	624	655
30.0	2448	2024	1794	1143	854	748	683	651	667	743
32.5	2683	2204	1897	1212	871	761	694	688	776	921
35.0	2872	2349	1938	1214	867	763	705	739	912	1172
37.5	3049	2447	1978	1202	865	757	714	784	1108	1413
40.0	3175	2555	2089	1182	845	738	725	824	1236	1353
42.5	3342	2733	2102	1159	803	722	722	826	1222	976
45.0	3458	2783	2185	1155	733	690	685	759	1046	720
47.5	3589	2902	2336	1122	629	624	609	674	835	580
50.0	3876	3151	2380	1088	539	537	533	583	650	515
52.5	4142	3424	2536	1075	470	460	457	488	528	482
55.0	4789	3871	2788	1038	437	419	407	427	445	456
57.5	5550	4425	3065	977	418	390	379	386	398	430
60.0	6275	4869	3410	887	389	373	361	362	366	408
62.5	6811	5171	3725	734	368	358	345	344	343	389
65.0	6980	5110	3469	588	353	344	333	324	332	419
67.5	6653	4199	2438	453	345	331	322	330	384	516
70.0	5394	2768	1371	363	330	320	329	370	486	651
72.5	3008	1410	528	335	318	311	349	430	478	423
75.0	1005	582	428	321	306	317	322	345	274	304
77.5	642	435	343	313	302	319	295	272	255	263

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CANDELA TABULATION - (Cont.)

80.0	501	381	302	308	293	303	290	269	253	252
82.5	418	317	289	308	288	271	284	269	255	255
85.0	365	252	269	298	282	265	287	272	260	256
87.5	288	218	256	298	279	265	291	278	265	252
90.0	228	191	269	301	284	267	294	280	266	246
92.5	204	185	263	300	284	262	288	282	272	254
95.0	193	226	249	293	275	252	277	273	267	249
97.5	172	242	239	270	258	233	262	258	256	236
100.0	176	228	227	239	241	216	248	248	247	222
102.5	174	205	209	210	222	205	234	237	239	206
105.0	159	182	189	187	199	195	222	228	229	187
107.5	142	160	168	167	180	184	210	218	218	168
110.0	128	142	150	154	162	173	198	209	206	149
112.5	116	127	135	143	149	164	187	200	193	134
115.0	107	117	124	135	141	158	178	189	177	120
117.5	100	109	116	129	136	152	169	178	160	108
120.0	95	103	109	123	132	148	162	166	143	100
122.5	91	98	104	118	129	143	155	154	126	95
125.0	89	95	101	114	126	140	148	142	110	91
127.5	88	93	99	112	124	137	140	128	98	87
130.0	89	93	99	111	122	132	132	114	89	84
132.5	90	94	99	111	118	122	120	102	82	81
135.0	92	96	100	109	111	108	101	88	79	80
137.5	90	94	97	102	101	92	79	68	68	74
140.0	84	88	90	91	86	73	57	50	53	60
142.5	72	76	77	75	66	54	40	34	39	45
145.0	58	60	61	57	48	36	26	23	26	31
147.5	41	43	42	39	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	1001	1001
2.5	979	978
5.0	854	849
7.5	733	730
10.0	638	637
12.5	599	599
15.0	553	548
17.5	551	550
20.0	547	541
22.5	574	571
25.0	597	595

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CANDELA TABULATION - (Cont.)

27.5	647	646
30.0	760	742
32.5	896	867
35.0	1128	1083
37.5	1239	1167
40.0	969	901
42.5	648	620
45.0	538	518
47.5	481	468
50.0	449	438
52.5	425	418
55.0	405	405
57.5	391	399
60.0	382	401
62.5	378	405
65.0	455	492
67.5	583	596
70.0	376	336
72.5	326	298
75.0	282	235
77.5	221	161
80.0	199	134
82.5	366	367
85.0	260	187
87.5	177	123
90.0	146	89
92.5	153	115
95.0	153	135
97.5	149	150
100.0	146	161
102.5	143	164
105.0	139	162
107.5	135	154
110.0	130	145
112.5	125	135
115.0	120	126
117.5	114	117
120.0	109	111
122.5	103	104
125.0	98	99
127.5	92	93
130.0	87	88
132.5	83	84
135.0	81	81
137.5	78	79
140.0	63	63
142.5	48	48
145.0	33	33
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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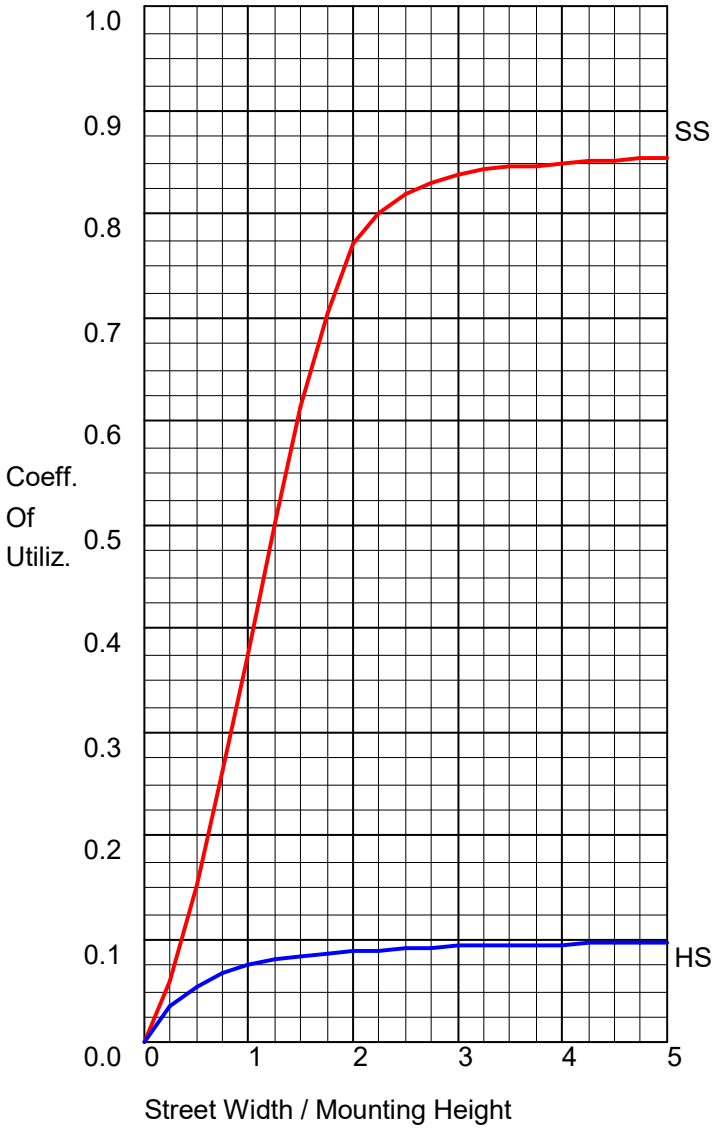
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17758.0	86.2
Downward House Side	2100.1	10.2
Downward Total	19858.1	96.4
Upward Street Side	317.5	1.5
Upward House Side	419.9	2.0
Upward Total	737.4	3.6
Total Flux	20595.5	100.0

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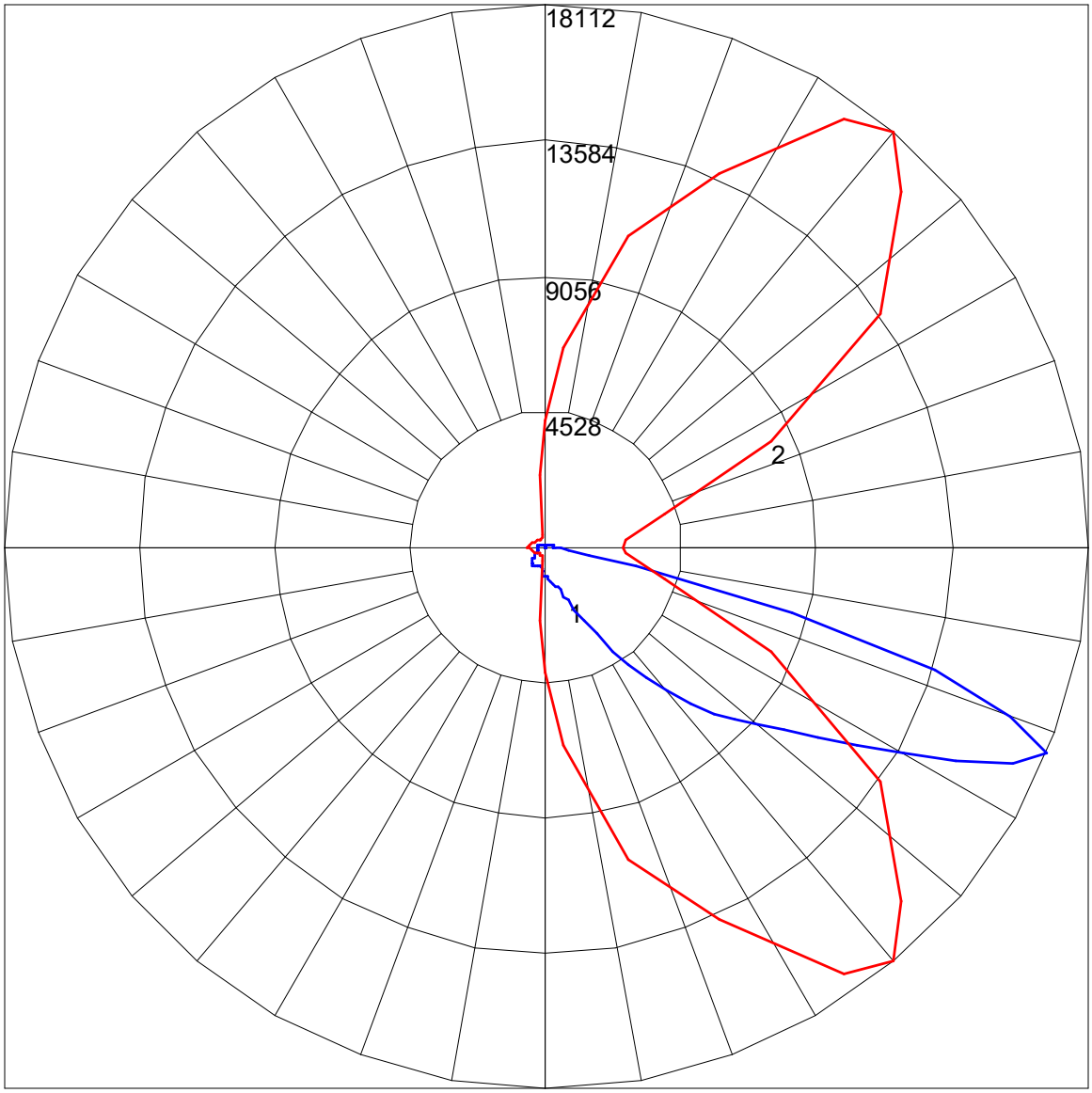
POLAR GRAPH



Maximum Candela = 18112 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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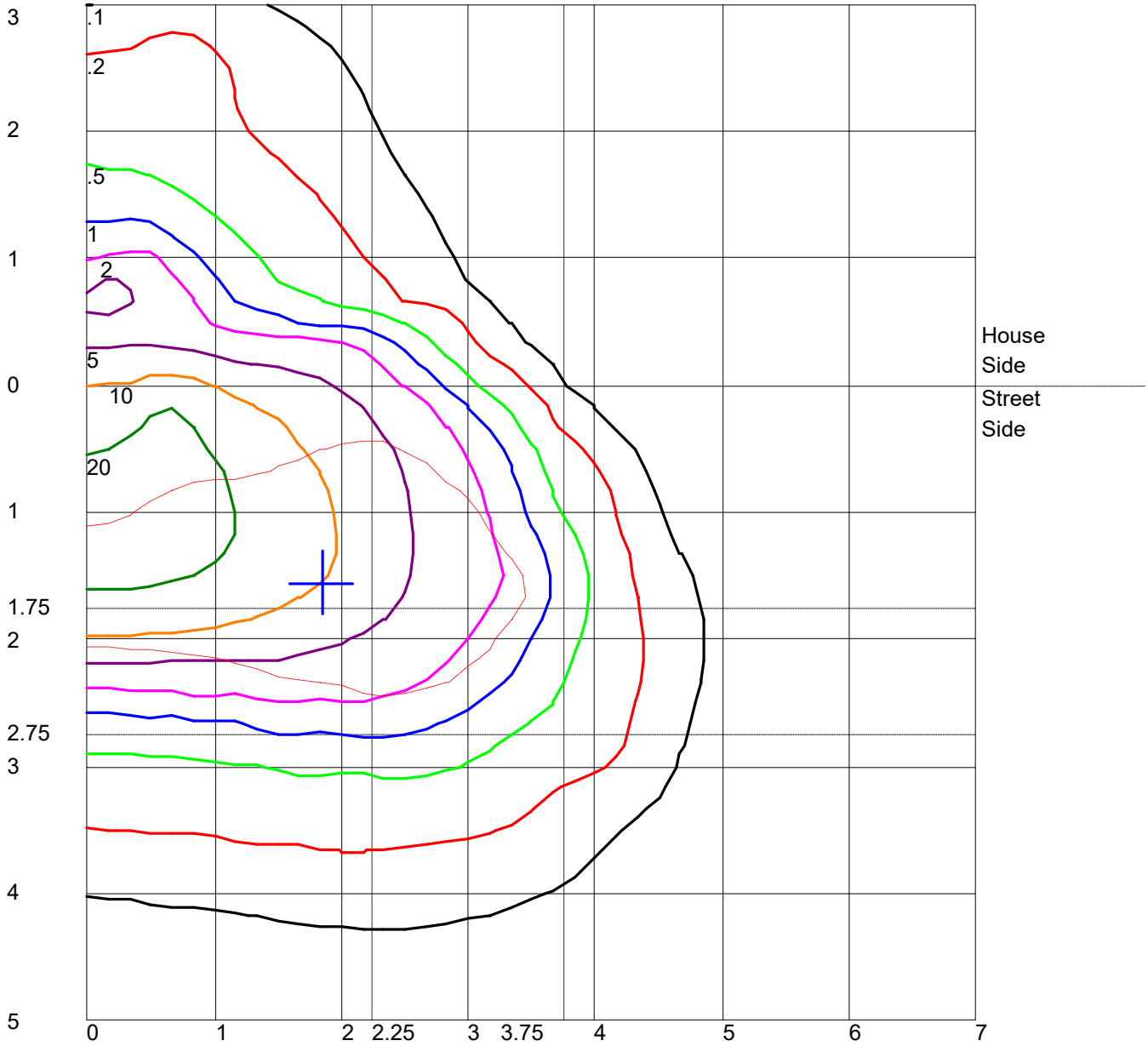
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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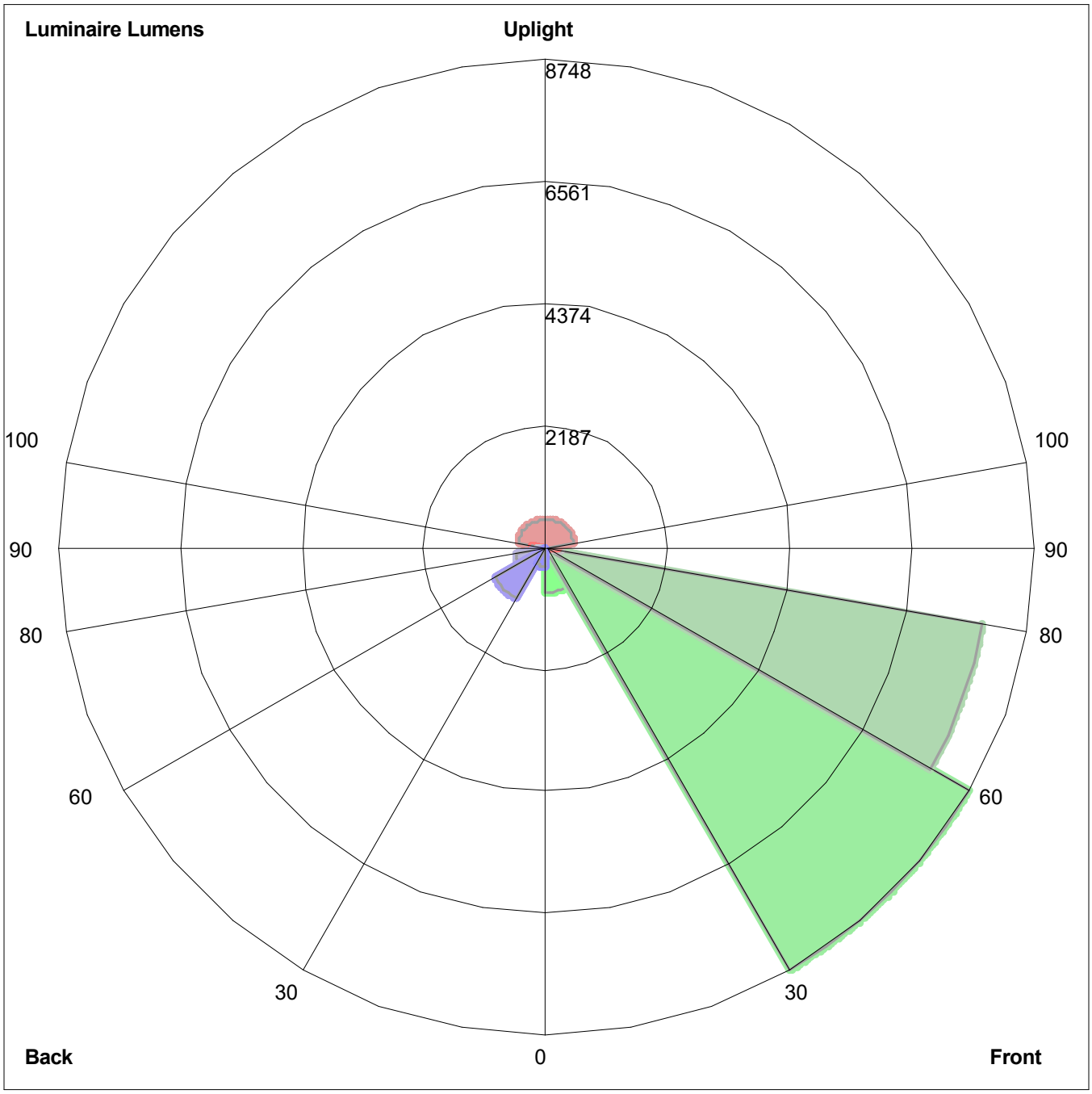
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=800.0, Medium=8747.8, High=7945.8, Very High=264.3
Back: Low=335.6, Medium=1060.5, High=556.2, Very High=147.8
Uplight: Low=233.9, High=503.6

BUG Rating : B2-U4-G4

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