IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-30-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12570
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-3-30-70CRI
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10535
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	7875
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	7875
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	155 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	598 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	411.4	N.A.	3.9
FM - Front-Medium (30-60)	3935.7	N.A.	37.4
FH - Front-High (60-80)	3159.6	N.A.	30.0
FVH - Front-Very High (80-90)	124.2	N.A.	1.2
BL - Back-Low (0-30)	376.3	N.A.	3.6
BM - Back-Medium (30-60)	1309.7	N.A.	12.4
BH - Back-High (60-80)	708.3	N.A.	6.7
BVH - Back-Very High (80-90)	112.4	N.A.	1.1
UL - Uplight-Low (90-100)	118.9	N.A.	1.1
UH - Uplight-High (100-180)	278.4	N.A.	2.6
Total	10534.9	N.A.	100.0
BUG Rating	B2-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	635	635	635	635	635	635	635	635	635	635
2.5	645	645	649	654	653	651	645	650	642	637
5.0	619	621	625	644	654	658	656	661	659	656
7.5	612	617	605	617	618	621	630	647	660	662
10.0	603	602	610	614	624	629	632	629	657	669
12.5	618	628	630	632	632	630	637	647	651	715
15.0	639	641	650	648	669	662	659	669	699	733
17.5	712	713	728	712	717	742	747	727	756	768
20.0	788	800	817	813	846	811	829	845	843	828
22.5	961	978	999	996	986	984	961	966	954	955
25.0	1225	1254	1208	1185	1212	1166	1150	1119	1124	1066
27.5	1564	1600	1558	1501	1430	1437	1357	1322	1280	1201
30.0	1943	1977	1940	1803	1735	1656	1620	1545	1421	1382
32.5	2186	2190	2190	2183	2039	1930	1817	1784	1595	1490
35.0	2425	2395	2391	2423	2412	2215	2094	1989	1737	1599
37.5	2651	2629	2610	2660	2686	2577	2402	2212	1917	1687
40.0	2943	2894	2895	2934	2962	2911	2730	2441	2084	1741
42.5	3267	3207	3233	3296	3267	3183	3076	2726	2224	1830
45.0	3679	3638	3685	3744	3657	3450	3330	3060	2302	1917
47.5	4183	4200	4213	4305	4154	3771	3589	3312	2467	2037
50.0	4740	4759	4749	4891	4738	4205	3906	3534	2705	2232
52.5	5412	5452	5353	5446	5331	4802	4321	3844	3054	2468
55.0	6108	6183	6167	6215	6041	5410	4878	4268	3498	2660
57.5	6056	6064	6280	6822	6926	6198	5515	4925	3927	2980
60.0	5446	5455	5689	6475	7326	7128	6506	5693	4537	3481
62.5	3844	4038	4631	5711	6792	7767	7508	6548	5182	4067
65.0	1507	1657	2391	4284	6073	7492	7875	7499	5912	4643
67.5	697	719	982	1892	4841	6786	7492	7806	6163	4658
70.0	509	525	640	1020	2411	5787	6667	7162	6396	4344
72.5	388	399	500	720	1373	3419	4877	5650	5698	3243
75.0	291	305	400	577	880	1494	2356	3326	3401	1829
77.5	223	237	318	478	649	872	1010	1139	1310	577
80.0	170	191	259	390	492	578	598	579	483	379
82.5	132	156	214	324	362	374	365	371	335	299
85.0	121	151	169	245	254	268	239	233	235	238
87.5	81	99	125	174	146	171	159	150	161	179
90.0	39	48	70	82	96	108	113	117	127	137
92.5	46	49	71	82	94	108	110	115	125	133
95.0	52	50	72	83	94	107	110	113	124	127
97.5	57	51	72	84	94	105	108	108	119	108
100.0	60	53	72	85	94	104	106	104	109	85
102.5	62	55	71	85	94	102	104	100	95	68
105.0	63	57	70	85	94	99	99	91	81	63
107.5	64	60	68	85	92	94	91	80	68	59
110.0	64	61	67	85	91	86	80	69	59	57
112.5	64	62	65	83	87	77	70	62	53	54
115.0	64	63	64	80	80	69	63	57	49	52
117.5	64	63	63	75	72	62	58	53	47	51
120.0	64	63	60	68	66	59	55	51	46	50
122.5	62	62	57	61	61	56	53	50	46	48
125.0	60	59	54	56	58	54	52	50	46	48
127.5	57	56	51	52	55	53	52	50	47	48
130.0	53	53	50	50	53	53	52	50	48	49

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CANDELA TABULATION - (Cont.)

132.5	52	51	50	48	52	52	51	49	48	50
135.0	51	51	50	48	48	47	46	46	48	51
137.5	51	50	48	43	41	39	39	41	45	51
140.0	44	44	41	36	32	31	32	34	39	45
142.5	36	35	33	28	22	23	24	26	32	38
145.0	28	27	25	20	16	15	17	18	24	30
147.5	18	18	16	13	10	7	9	11	16	20
150.0	13	12	11	8	4	3	4	5	9	12
152.5	7	6	5	2	2	2	2	3	4	6
155.0	2	2	2	1	1	1	2	2	2	3
157.5	1	0	1	1	1	1	1	2	2	2
160.0	0	0	1	1	1	1	1	1	2	2
162.5	0	0	1	1	1	1	1	1	2	2
165.0	0	0	1	1	1	1	1	1	2	2
167.5	0	0	1	1	1	2	2	2	2	2
170.0	0	0	1	1	2	2	2	2	2	2
172.5	0	0	1	1	2	2	2	2	2	2
175.0	0	0	1	1	2	2	2	2	2	2
177.5	0	0	1	1	2	2	2	2	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	635	635	635	635	635	635	635	635	635	635
2.5	633	628	627	630	628	630	631	634	639	644
5.0	638	630	631	649	676	682	681	683	677	676
7.5	654	642	645	677	692	692	681	666	648	642
10.0	667	653	658	697	706	681	677	677	686	669
12.5	712	693	711	750	716	696	692	712	700	732
15.0	751	720	740	776	750	760	741	785	780	803
17.5	794	769	799	819	786	793	848	834	830	877
20.0	868	830	855	848	843	866	864	905	909	930
22.5	980	937	937	909	880	917	925	971	960	1017
25.0	1066	1042	1006	953	942	951	980	1010	1035	1062
27.5	1195	1114	1110	1001	953	1002	1029	1075	1081	1140
30.0	1291	1198	1184	1055	988	1045	1074	1102	1134	1193
32.5	1354	1253	1227	1103	1007	1059	1077	1150	1217	1300
35.0	1424	1281	1238	1098	1004	1059	1099	1197	1276	1372
37.5	1455	1320	1251	1072	983	1035	1120	1216	1300	1410
40.0	1485	1354	1239	1033	962	1004	1126	1200	1301	1454
42.5	1558	1363	1239	992	916	995	1094	1156	1313	1527
45.0	1595	1396	1246	970	865	990	1052	1114	1400	1519
47.5	1675	1454	1246	947	823	952	1013	1088	1528	1466
50.0	1771	1561	1278	929	787	923	986	1067	1560	1433
52.5	1947	1693	1364	939	765	884	952	1060	1521	1374
55.0	2144	1874	1516	953	750	842	913	1031	1464	1303
57.5	2459	2117	1712	987	743	802	866	981	1389	1236
60.0	2890	2451	1996	1032	727	746	816	919	1271	1161
62.5	3182	2690	2145	1069	695	680	761	846	1102	1086
65.0	3338	2722	2047	1047	641	610	710	779	919	1024
67.5	3060	2351	1626	905	583	536	640	707	773	954
70.0	2552	1800	1058	680	497	463	567	625	670	864
72.5	1667	1125	583	470	401	392	479	534	614	723
75.0	631	463	374	339	326	325	376	432	479	498
77.5	363	326	251	291	284	279	289	316	364	405

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CANDELA TABULATION - (Cont.)

80.0	270	254	198	260	254	244	258	278	307	325
82.5	225	204	169	229	218	206	228	245	267	272
85.0	198	147	153	204	191	184	190	194	227	227
87.5	164	89	150	177	167	163	165	158	158	170
90.0	117	71	140	155	148	138	147	141	134	130
92.5	88	100	126	150	143	133	140	137	129	120
95.0	85	124	117	146	139	126	135	132	127	119
97.5	92	125	115	135	131	115	129	126	123	114
100.0	98	116	112	118	123	108	123	122	119	108
102.5	93	106	104	104	114	104	118	118	116	102
105.0	85	94	95	93	104	100	112	114	113	95
107.5	77	84	86	85	94	96	108	110	108	87
110.0	69	75	78	79	85	91	103	107	104	78
112.5	64	69	72	74	78	87	98	104	99	71
115.0	60	64	67	70	74	83	93	99	94	66
117.5	57	60	63	67	70	80	89	95	87	60
120.0	54	57	60	65	68	78	86	89	80	57
122.5	53	55	57	63	67	76	82	84	72	55
125.0	51	53	55	61	66	74	79	78	64	53
127.5	50	52	55	60	66	73	76	72	57	51
130.0	51	52	55	60	66	72	73	66	52	50
132.5	52	53	56	60	64	69	69	60	49	49
135.0	53	55	57	60	62	62	62	55	48	48
137.5	55	56	57	59	57	53	51	46	47	48
140.0	51	53	53	52	49	44	39	37	40	44
142.5	43	45	45	43	39	33	27	27	32	35
145.0	34	35	35	33	28	23	18	18	23	27
147.5	23	24	25	23	19	14	11	12	15	18
150.0	14	14	15	14	11	7	5	7	10	11
152.5	7	7	7	7	5	4	3	2	4	7
155.0	4	4	4	4	4	3	2	1	1	1
157.5	3	3	3	3	3	2	2	1	0	0
160.0	2	2	2	2	2	2	2	1	0	0
162.5	2	2	2	2	2	2	2	0	0	0
165.0	2	2	2	2	2	2	1	0	0	0
167.5	2	2	2	2	2	2	1	0	0	0
170.0	2	2	2	2	2	2	1	0	0	0
172.5	2	2	2	2	2	2	1	0	0	0
175.0	2	2	2	2	2	2	1	0	0	0
177.5	2	2	2	2	2	2	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	635	635
2.5	642	650
5.0	662	651
7.5	642	653
10.0	680	670
12.5	743	748
15.0	800	764
17.5	862	894
20.0	930	897
22.5	1015	1008
25.0	1068	1047

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CANDELA TABULATION - (Cont.)

27.5	1155	1166
30.0	1240	1221
32.5	1322	1312
35.0	1395	1394
37.5	1414	1422
40.0	1368	1361
42.5	1310	1294
45.0	1193	1179
47.5	1141	1120
50.0	1092	1067
52.5	1045	1017
55.0	1004	968
57.5	958	914
60.0	917	850
62.5	890	797
65.0	882	762
67.5	866	731
70.0	834	725
72.5	688	677
75.0	655	709
77.5	589	633
80.0	463	484
82.5	334	342
85.0	319	316
87.5	168	139
90.0	93	67
92.5	73	53
95.0	73	62
97.5	72	70
100.0	70	76
102.5	69	79
105.0	69	79
107.5	68	77
110.0	67	75
112.5	66	71
115.0	64	67
117.5	63	64
120.0	61	62
122.5	59	60
125.0	57	58
127.5	55	55
130.0	53	53
132.5	50	51
135.0	49	49
137.5	48	48
140.0	46	46
142.5	38	38
145.0	29	29
147.5	20	20
150.0	12	12
152.5	7	8
155.0	1	1
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	1	1

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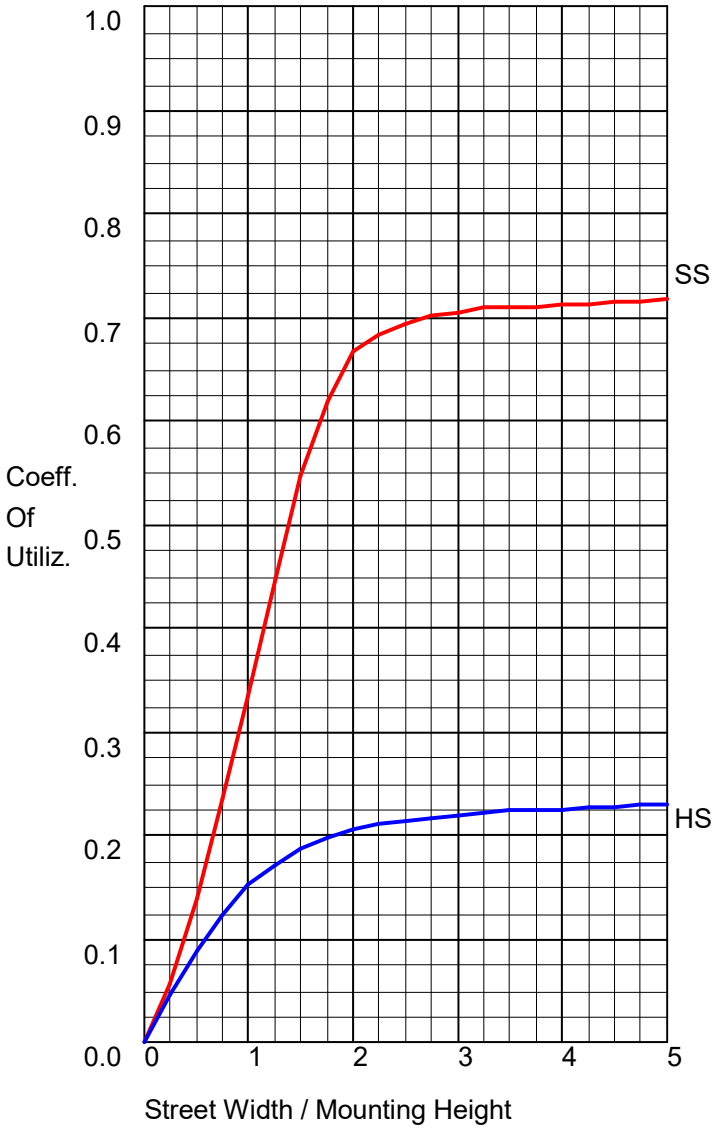
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7630.9	72.4
Downward House Side	2506.7	23.8
Downward Total	10137.6	96.2
Upward Street Side	177.7	1.7
Upward House Side	219.6	2.1
Upward Total	397.3	3.8
Total Flux	10534.9	100.0

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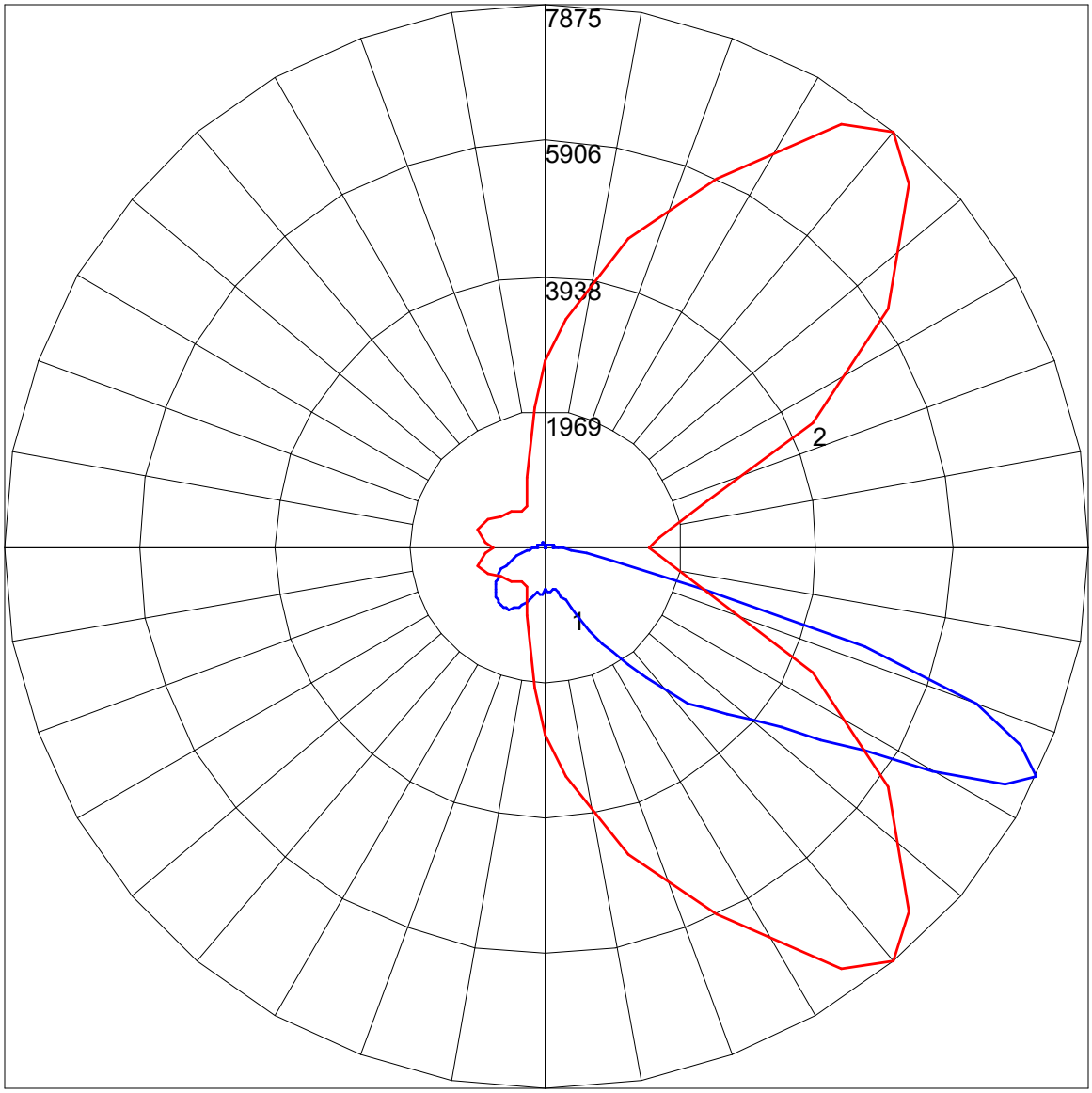
POLAR GRAPH



Maximum Candela = 7875 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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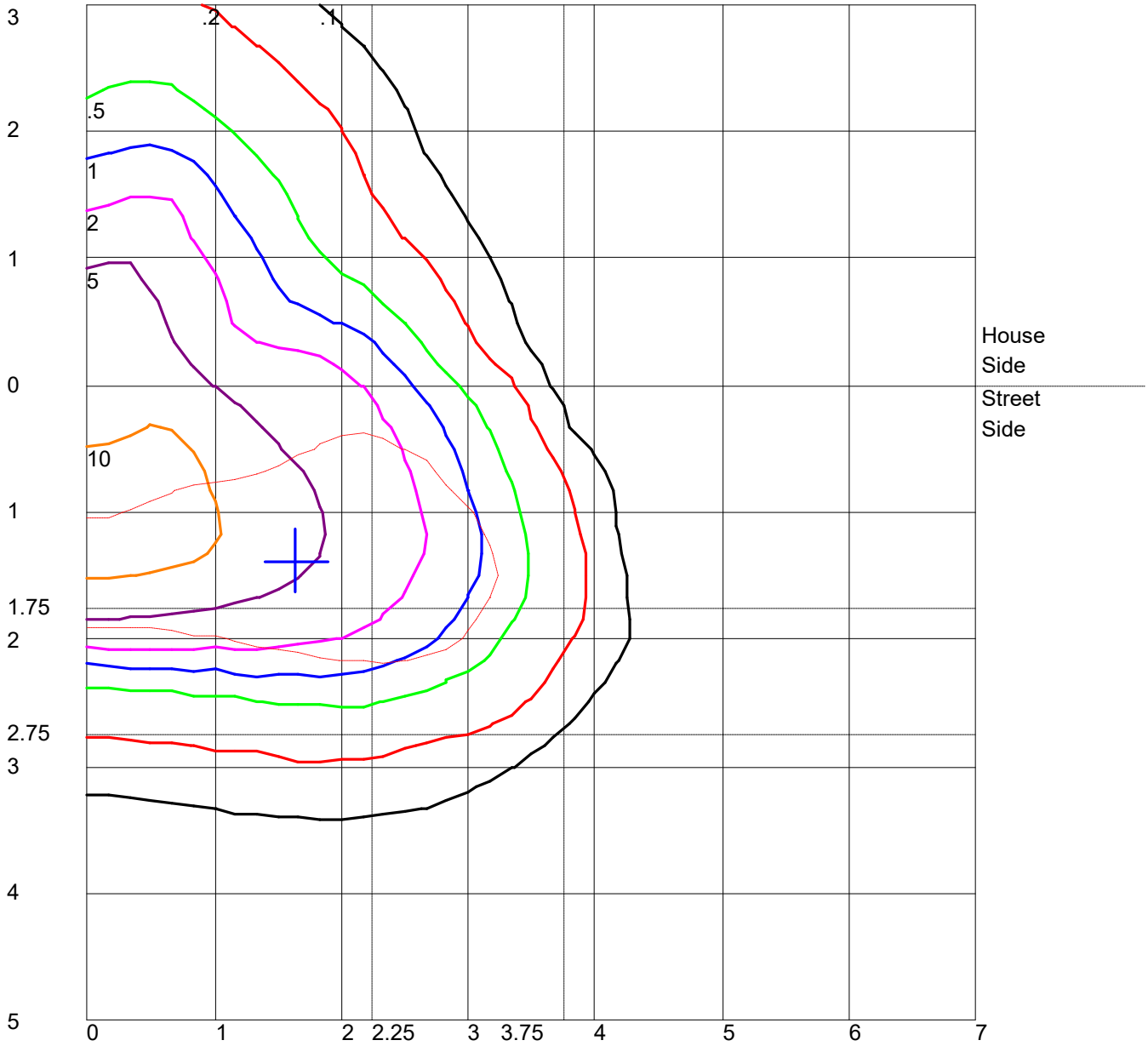
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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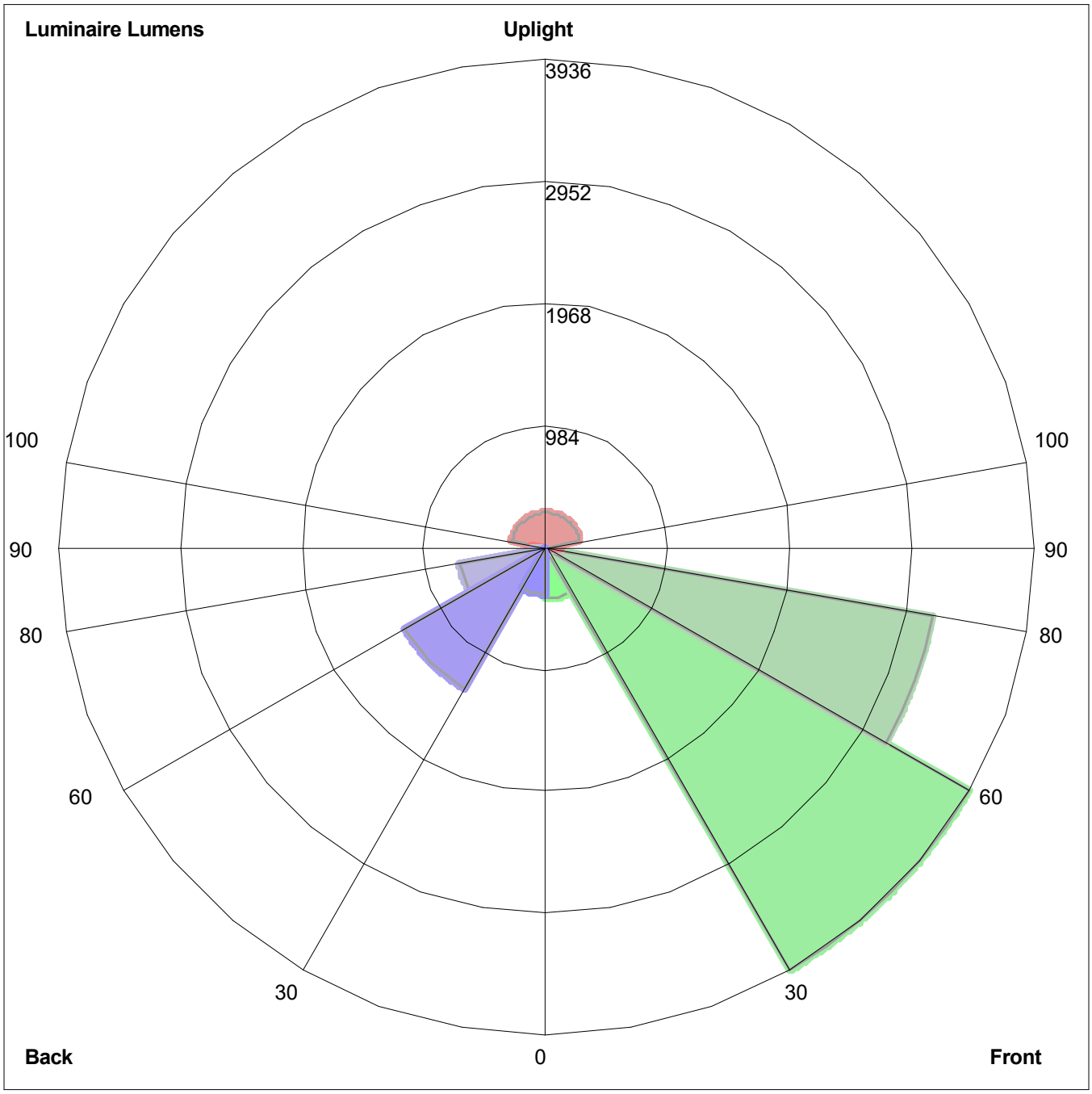
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=411.4, Medium=3935.7, High=3159.6, Very High=124.2
Back: Low=376.3, Medium=1309.7, High=708.3, Very High=112.4
Uplight: Low=118.9, High=278.4

BUG Rating : B2-U3-G2

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