IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-50-70CRI.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-3-50-70CRI
[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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10796
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	8070
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	8070
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	159 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	613 (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)	421.6	N.A.	3.9
FM - Front-Medium (30-60)	4033.3	N.A.	37.4
FH - Front-High (60-80)	3237.9	N.A.	30.0
FVH - Front-Very High (80-90)	127.3	N.A.	1.2
BL - Back-Low (0-30)	385.6	N.A.	3.6
BM - Back-Medium (30-60)	1342.2	N.A.	12.4
BH - Back-High (60-80)	725.9	N.A.	6.7
BVH - Back-Very High (80-90)	115.2	N.A.	1.1
UL - Uplight-Low (90-100)	121.9	N.A.	1.1
UH - Uplight-High (100-180)	285.4	N.A.	2.6
Total	10796.3	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	650	650	650	650	650	650	650	650	650	650
2.5	661	661	665	670	669	667	661	666	658	653
5.0	635	636	641	660	670	674	672	677	676	672
7.5	628	632	620	632	634	636	646	663	676	678
10.0	618	617	625	629	640	645	647	645	674	686
12.5	634	643	646	648	647	646	652	663	667	733
15.0	655	657	666	664	686	678	675	686	717	751
17.5	729	731	746	729	735	760	766	745	774	788
20.0	807	820	837	833	867	832	850	866	863	849
22.5	985	1002	1024	1021	1010	1008	985	990	978	979
25.0	1255	1285	1238	1215	1242	1195	1179	1147	1152	1093
27.5	1603	1640	1597	1539	1465	1473	1391	1355	1312	1231
30.0	1992	2026	1988	1847	1778	1697	1660	1583	1456	1417
32.5	2240	2245	2244	2237	2089	1978	1862	1829	1635	1527
35.0	2485	2455	2451	2483	2471	2270	2146	2038	1780	1639
37.5	2717	2694	2675	2726	2753	2640	2461	2267	1964	1729
40.0	3016	2965	2967	3007	3035	2983	2798	2502	2136	1784
42.5	3348	3287	3313	3378	3348	3262	3153	2793	2279	1875
45.0	3770	3728	3777	3837	3747	3535	3413	3136	2359	1964
47.5	4287	4304	4318	4411	4257	3865	3678	3394	2528	2088
50.0	4857	4877	4867	5012	4856	4309	4003	3621	2772	2288
52.5	5546	5587	5486	5581	5464	4921	4428	3940	3129	2530
55.0	6259	6336	6320	6369	6191	5544	4999	4374	3585	2726
57.5	6206	6214	6436	6991	7098	6352	5651	5047	4025	3054
60.0	5581	5590	5830	6636	7508	7304	6668	5835	4649	3567
62.5	3940	4138	4746	5852	6960	7959	7695	6710	5310	4168
65.0	1544	1698	2451	4391	6223	7677	8070	7685	6058	4758
67.5	715	736	1007	1939	4961	6955	7678	8000	6316	4774
70.0	522	538	656	1046	2471	5930	6832	7339	6554	4451
72.5	397	409	512	738	1407	3504	4997	5790	5839	3323
75.0	299	312	410	591	901	1531	2415	3409	3486	1874
77.5	229	243	326	490	665	893	1035	1168	1342	592
80.0	174	196	265	400	504	592	613	593	495	389
82.5	135	160	219	332	371	383	374	381	344	307
85.0	124	155	173	251	260	275	245	239	241	243
87.5	83	102	128	178	150	175	163	154	166	183
90.0	40	49	72	84	98	111	116	120	130	141
92.5	47	50	73	84	97	111	113	118	128	136
95.0	53	52	74	86	97	110	112	116	127	130
97.5	58	53	74	86	97	108	111	111	122	110
100.0	61	54	74	87	96	106	109	107	112	87
102.5	63	56	73	87	96	104	106	102	98	70
105.0	64	59	72	88	96	102	102	94	83	64
107.5	65	61	70	88	95	97	93	82	70	60
110.0	66	63	68	87	93	88	82	71	60	58
112.5	65	64	67	86	89	79	72	63	54	56
115.0	65	64	66	82	82	70	64	58	50	54
117.5	65	65	64	77	74	64	60	55	48	52
120.0	65	64	62	70	68	60	56	52	48	51
122.5	64	63	58	63	63	58	54	51	47	50
125.0	61	60	55	57	59	56	53	51	47	49
127.5	58	57	53	53	56	54	53	51	48	49
130.0	55	54	52	51	54	54	54	52	49	50

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CANDELA TABULATION - (Cont.)

132.5	53	53	51	49	53	53	52	50	49	52
135.0	52	52	51	49	50	48	47	47	50	53
137.5	52	52	49	44	42	40	40	42	46	52
140.0	45	45	42	37	33	32	32	35	40	46
142.5	37	36	34	29	23	23	25	27	32	39
145.0	28	28	25	20	16	16	17	19	24	30
147.5	19	18	16	14	10	7	9	11	16	20
150.0	14	13	12	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	650	650	650	650	650	650	650	650	650	650
2.5	649	644	643	646	644	646	646	650	654	660
5.0	654	645	647	665	692	699	698	700	694	692
7.5	670	658	661	694	709	709	698	683	664	658
10.0	683	669	674	714	724	698	694	694	703	685
12.5	729	710	729	768	734	713	710	730	718	750
15.0	769	738	758	796	769	778	760	804	800	823
17.5	814	788	819	839	806	813	869	855	850	898
20.0	889	851	877	869	864	888	886	927	931	953
22.5	1005	960	960	931	902	940	948	995	984	1043
25.0	1092	1068	1031	976	965	975	1005	1035	1060	1089
27.5	1224	1142	1138	1025	977	1027	1054	1101	1108	1169
30.0	1323	1228	1214	1081	1013	1071	1101	1129	1162	1222
32.5	1388	1284	1257	1130	1032	1086	1103	1178	1248	1332
35.0	1459	1313	1268	1126	1029	1085	1126	1227	1307	1406
37.5	1491	1352	1282	1098	1007	1061	1148	1246	1332	1445
40.0	1521	1388	1269	1059	985	1029	1154	1230	1333	1490
42.5	1596	1397	1269	1016	939	1020	1121	1184	1346	1565
45.0	1634	1431	1277	994	886	1015	1078	1141	1435	1557
47.5	1716	1490	1277	970	844	976	1038	1115	1566	1503
50.0	1815	1599	1310	952	806	945	1011	1094	1599	1469
52.5	1995	1735	1398	962	784	905	975	1086	1559	1408
55.0	2197	1920	1554	977	768	863	936	1057	1500	1335
57.5	2520	2170	1755	1012	762	822	887	1006	1423	1266
60.0	2961	2512	2045	1058	745	765	836	941	1302	1190
62.5	3260	2756	2199	1096	712	697	780	867	1129	1113
65.0	3421	2790	2098	1073	657	625	727	798	942	1049
67.5	3136	2409	1667	927	597	550	656	724	792	978
70.0	2615	1845	1085	696	509	475	581	640	686	886
72.5	1709	1153	598	482	411	402	491	548	629	741
75.0	647	475	384	347	334	333	386	443	491	510
77.5	372	334	257	298	291	286	296	324	373	415

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CANDELA TABULATION - (Cont.)

80.0	277	260	203	266	261	250	265	285	314	333
82.5	231	209	173	234	224	211	233	251	274	278
85.0	203	151	157	209	195	189	195	199	232	233
87.5	168	92	154	181	171	167	169	162	162	175
90.0	120	73	144	159	152	142	151	144	137	133
92.5	90	102	130	154	147	136	143	140	132	123
95.0	88	127	120	150	143	129	139	136	130	122
97.5	94	128	118	138	134	118	132	130	126	117
100.0	100	119	115	121	126	111	126	125	122	111
102.5	96	108	107	107	117	106	121	121	119	104
105.0	88	97	98	96	106	103	115	117	116	97
107.5	79	86	88	87	96	98	111	113	111	89
110.0	71	77	80	81	88	93	106	110	106	80
112.5	66	71	74	76	80	89	101	106	102	73
115.0	61	66	68	72	76	85	96	102	96	67
117.5	58	62	64	69	72	82	92	97	90	62
120.0	56	59	62	67	70	80	88	92	82	58
122.5	54	56	59	64	69	78	84	86	74	56
125.0	52	54	57	62	68	76	81	80	65	54
127.5	52	54	56	62	68	75	78	74	58	52
130.0	52	54	56	62	67	74	74	67	53	51
132.5	53	55	57	62	66	70	70	61	50	50
135.0	55	56	58	62	64	64	63	56	49	49
137.5	56	57	59	60	58	55	52	48	48	49
140.0	52	54	54	53	50	45	40	38	41	45
142.5	44	46	46	44	40	34	28	28	32	36
145.0	35	36	36	34	29	24	19	18	24	28
147.5	24	24	25	24	20	14	12	13	15	18
150.0	14	15	15	14	11	7	5	7	10	11
152.5	7	8	8	7	6	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	650	650
2.5	658	666
5.0	678	668
7.5	658	670
10.0	696	686
12.5	761	767
15.0	820	783
17.5	884	917
20.0	953	919
22.5	1040	1033
25.0	1095	1073

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CANDELA TABULATION - (Cont.)

27.5	1184	1194
30.0	1270	1251
32.5	1354	1345
35.0	1429	1429
37.5	1449	1457
40.0	1402	1395
42.5	1342	1326
45.0	1222	1208
47.5	1170	1148
50.0	1119	1093
52.5	1071	1043
55.0	1029	992
57.5	982	936
60.0	940	871
62.5	912	817
65.0	904	781
67.5	888	750
70.0	855	743
72.5	705	694
75.0	671	726
77.5	604	648
80.0	475	496
82.5	342	351
85.0	327	324
87.5	172	143
90.0	95	68
92.5	75	54
95.0	75	64
97.5	74	72
100.0	72	78
102.5	71	81
105.0	71	81
107.5	70	79
110.0	69	76
112.5	68	73
115.0	66	69
117.5	64	66
120.0	62	63
122.5	60	61
125.0	58	59
127.5	56	57
130.0	54	54
132.5	52	52
135.0	50	50
137.5	50	50
140.0	47	47
142.5	39	39
145.0	30	30
147.5	21	21
150.0	12	12
152.5	8	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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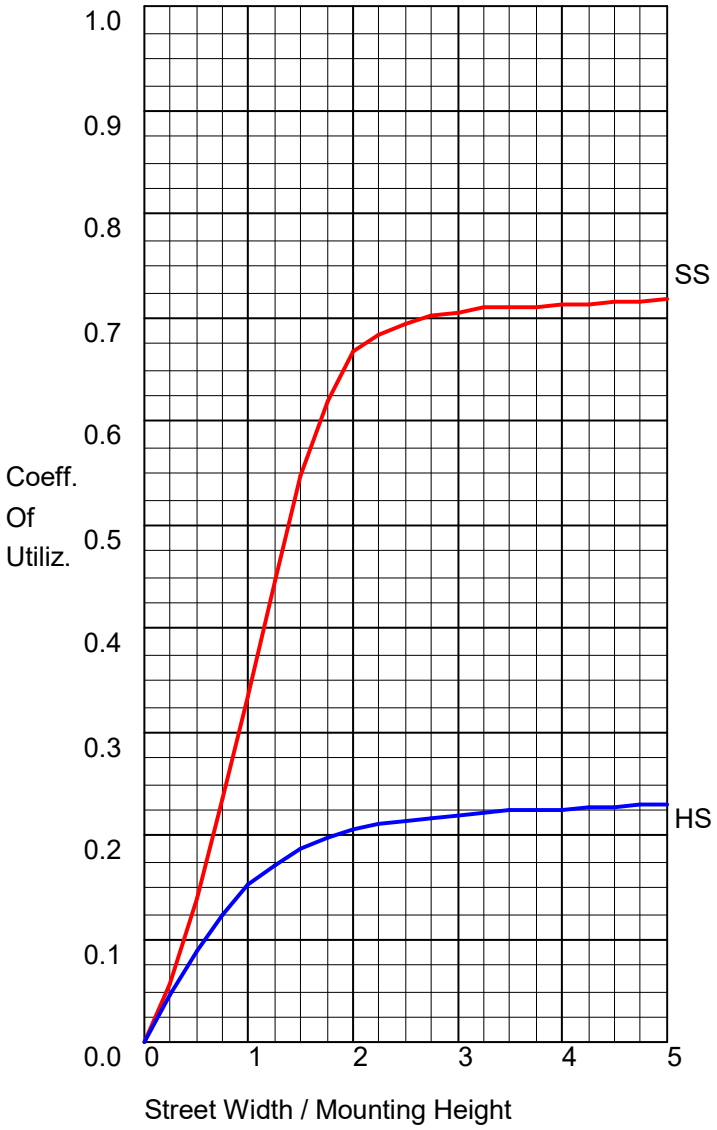
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7820.1	72.4
Downward House Side	2568.8	23.8
Downward Total	10388.9	96.2
Upward Street Side	182.2	1.7
Upward House Side	225.1	2.1
Upward Total	407.3	3.8
Total Flux	10796.2	100.0

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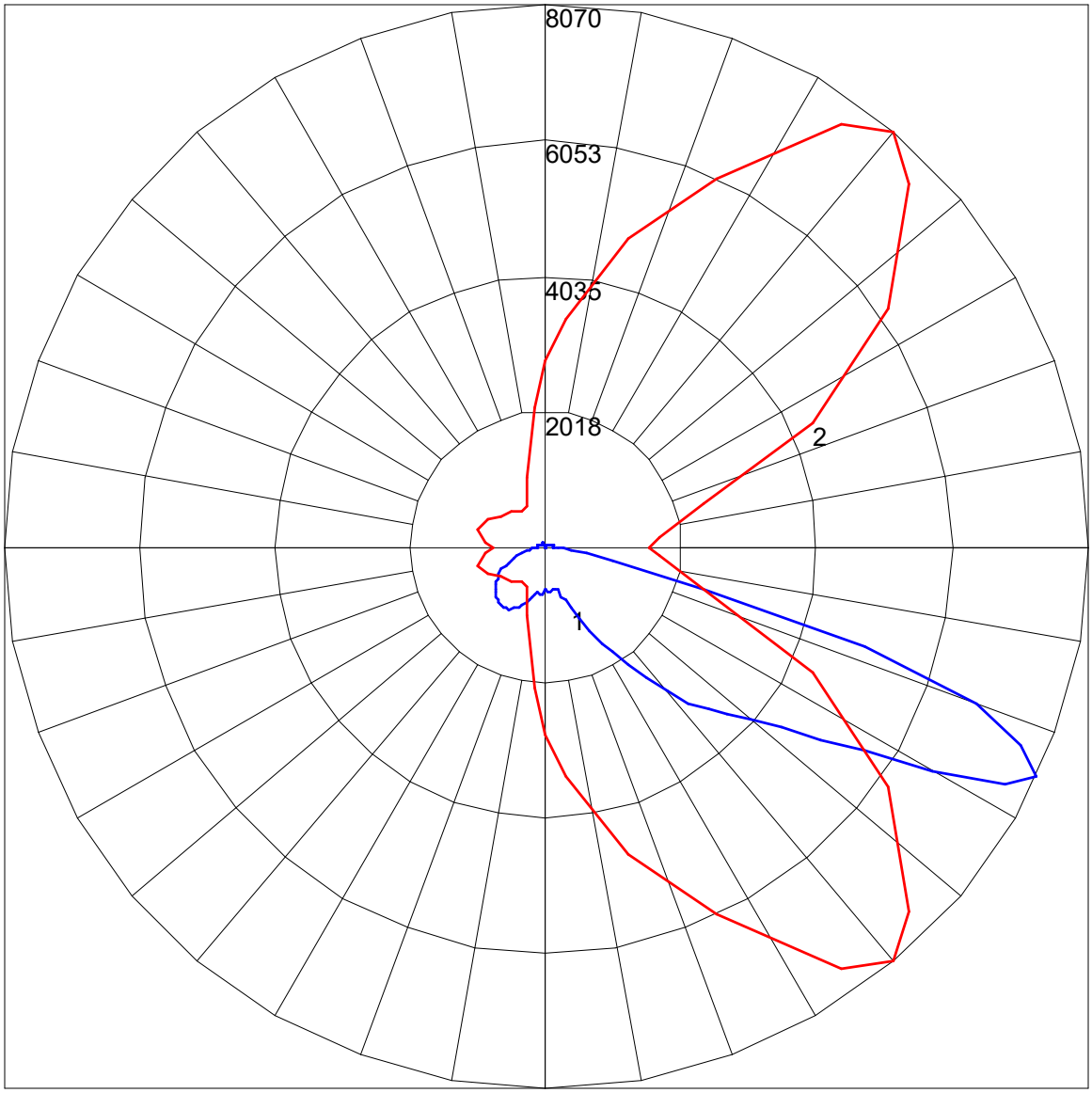
POLAR GRAPH



Maximum Candela = 8070 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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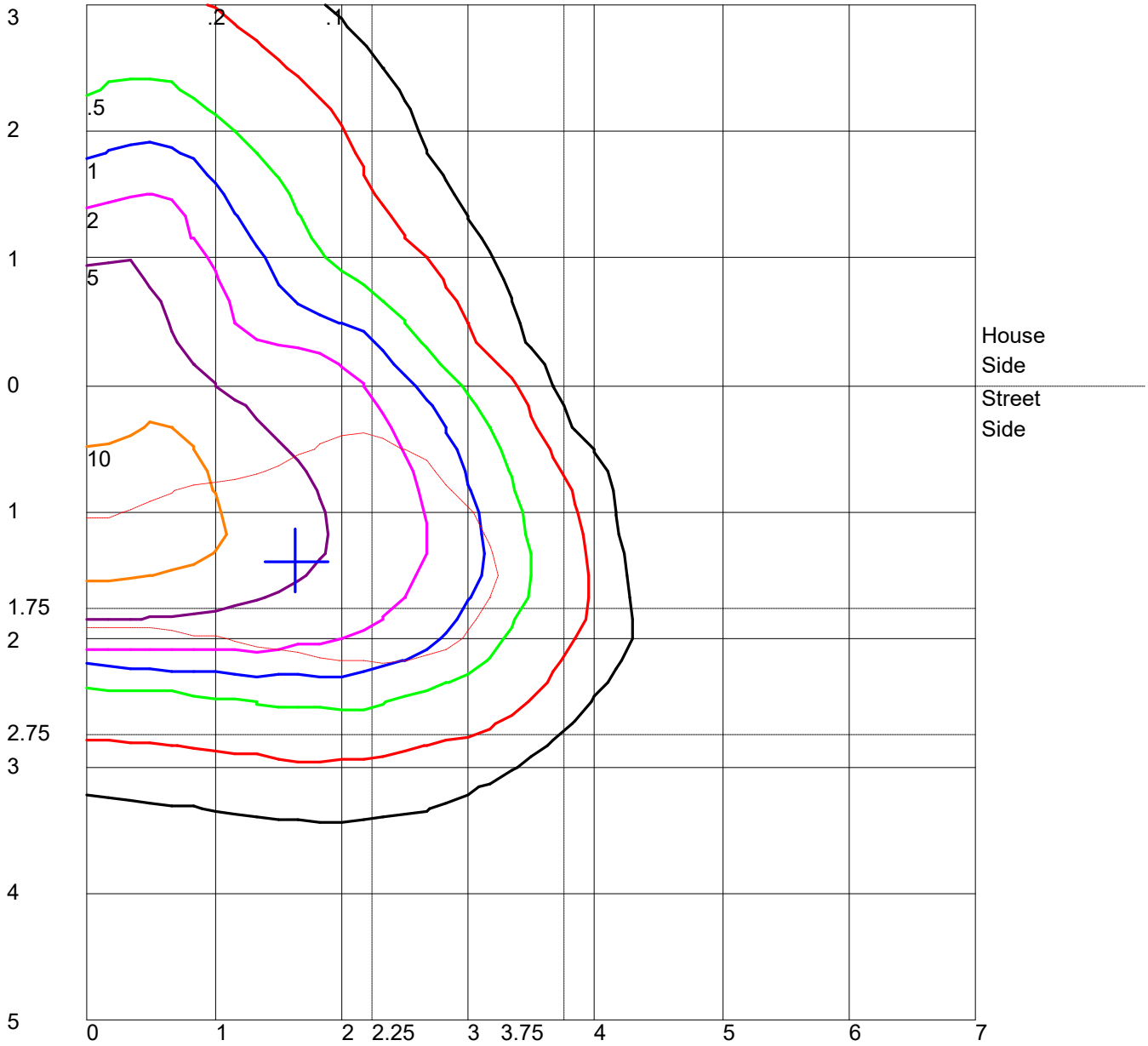
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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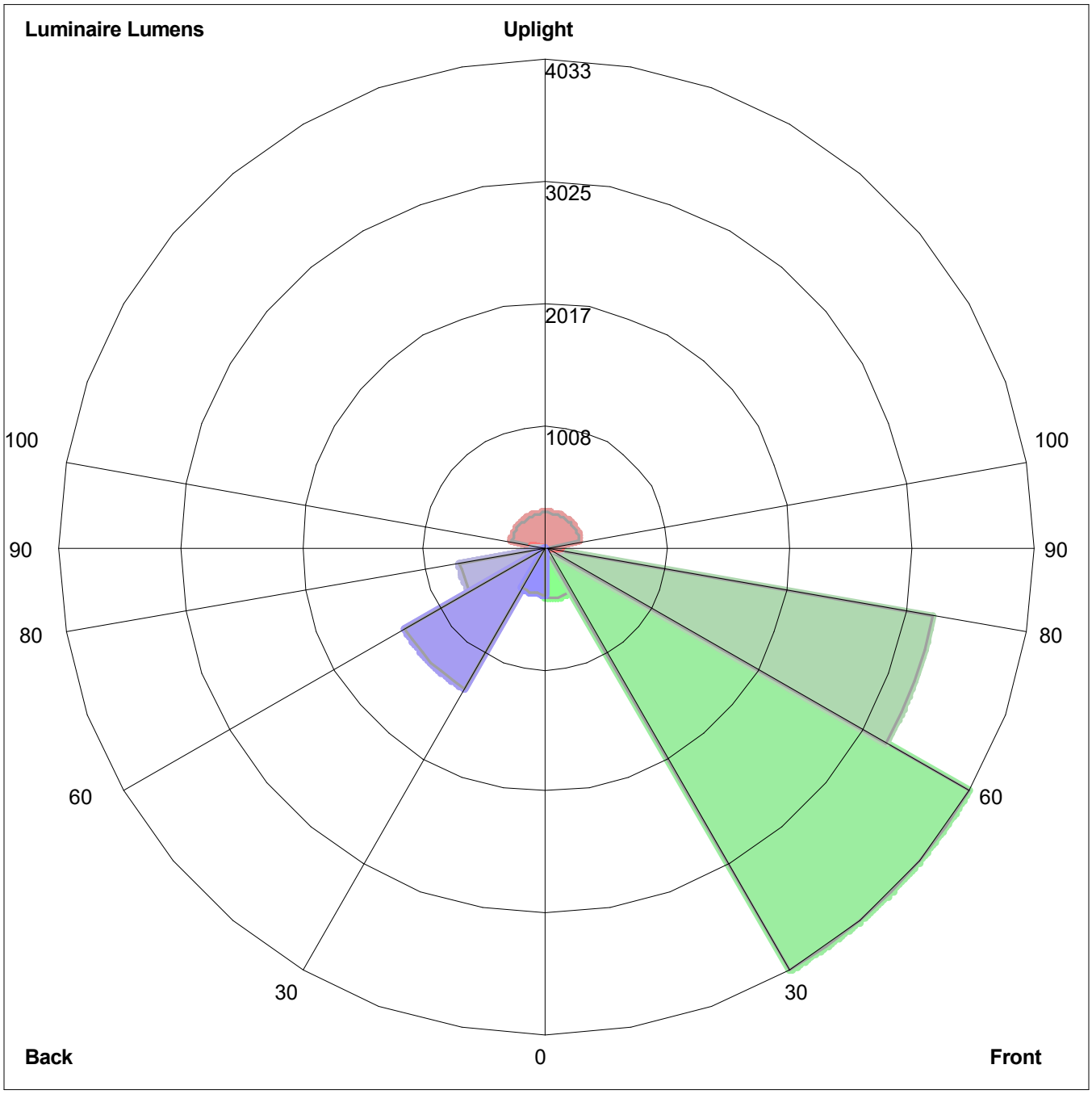
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=421.6, Medium=4033.3, High=3237.9, Very High=127.3
Back: Low=385.6, Medium=1342.2, High=725.9, Very High=115.2
Uplight: Low=121.9, High=285.4

BUG Rating : B2-U3-G2

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