IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-2-30-70CRI-IH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12637
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-2-30-70CRI-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] 3000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7076
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	5511
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	5511
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	121 (1.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	468 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	544.2	N.A.	7.7
FM - Front-Medium (30-60)	3667.9	N.A.	51.8
FH - Front-High (60-80)	1384.6	N.A.	19.6
FVH - Front-Very High (80-90)	63.9	N.A.	0.9
BL - Back-Low (0-30)	258.7	N.A.	3.7
BM - Back-Medium (30-60)	546.4	N.A.	7.7
BH - Back-High (60-80)	204.5	N.A.	2.9
BVH - Back-Very High (80-90)	55.6	N.A.	0.8
UL - Uplight-Low (90-100)	100.0	N.A.	1.4
UH - Uplight-High (100-180)	250.0	N.A.	3.5
Total	7075.8	N.A.	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	72.5	75.0
0.0	749	749	749	749	749	749	749	749	749	749
2.5	739	733	735	741	740	737	729	728	732	732
5.0	798	793	808	796	798	796	804	786	743	734
7.5	741	743	746	768	791	817	819	806	801	782
10.0	820	820	797	837	821	805	815	823	824	836
12.5	877	880	852	848	877	857	834	880	920	928
15.0	928	976	957	958	947	901	951	926	988	983
17.5	1095	1052	1078	1025	1055	1059	1014	1033	1067	1090
20.0	1186	1193	1215	1166	1151	1141	1172	1164	1160	1174
22.5	1413	1424	1419	1326	1360	1275	1308	1310	1287	1285
25.0	1598	1609	1605	1567	1501	1499	1474	1472	1452	1459
27.5	2041	2021	1966	1798	1784	1696	1698	1684	1672	1650
30.0	2399	2439	2339	2204	2081	2050	1975	1918	1906	1911
32.5	2710	2711	2704	2609	2525	2369	2334	2235	2218	2223
35.0	2609	2612	2645	2754	2886	2834	2771	2634	2520	2451
37.5	2647	2602	2591	2653	2912	3118	3212	3041	2816	2722
40.0	2842	2764	2715	2729	2900	3227	3364	3567	3103	3025
42.5	3036	2938	2864	2876	3020	3335	3437	3862	3508	3377
45.0	3097	3013	2939	2977	3155	3478	3684	3927	3911	3907
47.5	3020	2954	2884	2982	3232	3661	3958	3919	4252	4262
50.0	2830	2774	2718	2866	3211	3825	4189	4073	4584	4579
52.5	2515	2466	2421	2647	3073	3877	4372	4414	4817	4856
55.0	2121	2064	2032	2285	2803	3785	4531	4821	5088	5117
57.5	1650	1642	1609	1818	2339	3466	4565	5128	5193	5261
60.0	1181	1180	1182	1335	1730	2876	4320	5147	5240	5344
62.5	701	710	743	870	1146	2027	3820	5024	5511	5413
65.0	440	448	486	559	703	1158	3056	4373	5278	5263
67.5	300	300	313	392	488	622	1961	3424	4419	4507
70.0	259	260	266	292	363	422	1072	2492	3367	3525
72.5	205	203	216	241	296	325	556	1595	2200	2331
75.0	144	145	157	180	237	275	355	896	1380	1454
77.5	93	102	117	135	176	226	272	549	839	824
80.0	55	66	85	99	133	177	210	314	468	467
82.5	41	53	70	78	94	123	159	194	271	293
85.0	32	43	62	71	82	95	110	135	169	185
87.5	32	42	60	69	79	89	99	108	119	125
90.0	34	41	60	69	77	87	94	101	107	108
92.5	39	44	61	71	79	88	93	102	108	109
95.0	46	46	64	73	82	91	93	104	108	110
97.5	52	48	65	75	83	91	91	102	104	102
100.0	57	50	66	76	84	90	89	97	91	80
102.5	59	53	66	77	84	89	86	86	72	65
105.0	60	56	65	77	84	87	82	76	60	57
107.5	61	58	64	78	84	84	74	66	52	52
110.0	62	60	63	77	82	80	66	57	48	50
112.5	62	60	62	77	80	73	60	48	45	47
115.0	62	62	62	75	75	66	54	44	43	45
117.5	63	62	61	72	70	60	50	40	42	43
120.0	63	62	60	67	65	57	47	39	41	41
122.5	63	62	59	62	60	54	45	38	39	40
125.0	61	60	57	59	58	51	44	38	38	39
127.5	60	59	55	55	55	50	44	39	39	38
130.0	57	57	53	52	53	49	45	40	39	39

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CANDELA TABULATION - (Cont.)

132.5	55	54	52	50	52	50	45	40	40	40
135.0	54	54	52	50	51	47	41	40	41	41
137.5	54	54	52	49	46	41	37	37	39	40
140.0	51	51	48	44	38	34	31	32	34	35
142.5	44	44	41	36	29	25	24	25	27	28
145.0	36	36	33	27	20	18	16	18	20	21
147.5	27	26	23	18	14	11	11	12	13	14
150.0	18	17	15	12	8	3	3	6	8	8
152.5	12	12	10	5	2	1	1	2	2	2
155.0	4	4	2	2	1	0	0	0	1	1
157.5	1	1	1	1	0	0	0	0	0	0
160.0	0	0	0	1	0	0	0	0	0	0
162.5	0	0	0	1	0	0	0	0	0	0
165.0	0	0	1	1	0	0	0	0	0	0
167.5	0	0	1	1	0	0	0	0	0	0
170.0	0	0	1	1	0	0	0	0	0	0
172.5	0	0	1	1	0	0	0	0	0	0
175.0	0	0	1	1	1	0	0	0	0	0
177.5	0	0	1	1	1	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	85.0	**90.0**	**95.0**	**105.0**	**115.0**	**125.0**	**135.0**	**145.0**	**155.0**	**165.0**
0.0	749	749	749	749	749	749	749	749	749	749
2.5	738	739	751	770	776	781	782	776	777	771
5.0	729	749	783	804	789	788	784	778	749	718
7.5	749	760	794	795	786	736	713	713	703	689
10.0	785	795	817	795	760	745	711	673	641	614
12.5	846	860	902	878	767	712	641	588	550	539
15.0	915	932	945	883	797	676	586	531	473	449
17.5	1026	1020	1048	935	793	622	533	450	402	380
20.0	1141	1108	1118	982	788	586	464	392	348	324
22.5	1309	1263	1278	1058	740	534	412	335	303	298
25.0	1463	1413	1371	1071	739	482	355	301	278	264
27.5	1694	1584	1558	1131	674	428	313	277	250	238
30.0	1932	1800	1709	1173	624	369	293	251	227	216
32.5	2109	1944	1832	1171	558	335	267	229	215	208
35.0	2309	2100	1937	1119	482	314	244	217	206	196
37.5	2576	2308	2023	1023	409	285	221	209	195	181
40.0	2815	2552	2090	899	366	249	210	201	181	165
42.5	3056	2734	2181	765	321	218	205	189	166	150
45.0	3415	2944	2234	632	277	212	198	174	153	137
47.5	3656	3179	2281	517	242	208	185	159	143	130
50.0	3945	3457	2245	422	216	200	173	150	137	124
52.5	4327	3628	2235	360	205	189	161	142	132	119
55.0	4622	3785	2110	323	205	179	152	137	129	115
57.5	4727	3750	1882	272	212	169	146	133	125	111
60.0	4807	3597	1516	228	204	160	139	129	118	103
62.5	4679	3317	1150	202	185	152	133	123	109	100
65.0	4132	2710	768	189	166	144	128	114	119	127
67.5	3309	1980	513	180	156	136	121	125	141	156
70.0	2490	1410	358	170	148	130	127	139	152	134
72.5	1624	934	261	158	137	124	131	136	110	100
75.0	1023	612	205	150	131	123	133	114	100	86
77.5	458	296	161	141	125	127	119	101	90	83

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CANDELA TABULATION - (Cont.)

80.0	275	214	134	132	123	120	108	100	93	85
82.5	197	166	113	124	124	108	108	102	96	87
85.0	158	107	108	125	112	108	110	105	98	90
87.5	127	46	114	119	114	108	113	107	101	92
90.0	91	36	110	121	115	109	115	109	104	95
92.5	63	78	100	124	119	112	118	113	108	99
95.0	60	103	94	123	117	107	115	111	108	99
97.5	74	104	92	112	111	99	110	108	106	96
100.0	81	99	91	98	107	96	108	107	105	94
102.5	80	91	87	85	98	93	104	105	103	90
105.0	75	83	81	76	88	89	100	103	101	85
107.5	69	74	73	69	79	84	96	100	99	81
110.0	62	65	66	62	69	77	91	97	96	75
112.5	57	60	60	58	62	71	85	93	92	70
115.0	52	54	54	54	57	66	80	88	87	66
117.5	48	50	50	51	52	63	75	84	82	63
120.0	45	46	47	48	50	60	71	79	75	61
122.5	42	43	44	46	49	58	67	74	69	60
125.0	40	41	42	44	48	57	64	69	62	57
127.5	39	40	41	44	48	57	62	64	57	56
130.0	40	40	41	45	48	56	60	60	53	54
132.5	41	41	43	46	48	52	58	57	50	53
135.0	42	43	44	47	48	47	50	51	50	52
137.5	43	44	45	46	43	41	40	41	44	50
140.0	38	40	40	39	36	34	30	32	36	41
142.5	32	34	34	32	28	25	21	22	27	32
145.0	24	25	25	23	20	16	14	15	19	23
147.5	15	15	16	14	12	10	8	11	12	15
150.0	9	9	9	9	7	4	4	5	9	11
152.5	3	3	3	3	3	3	2	3	3	5
155.0	1	2	2	2	2	2	2	2	2	2
157.5	0	1	1	1	2	2	2	2	2	2
160.0	0	0	1	1	2	2	2	2	2	2
162.5	0	0	1	1	2	2	2	2	2	1
165.0	0	0	0	1	1	2	2	2	2	1
167.5	0	0	0	1	1	1	2	2	2	1
170.0	0	0	0	0	1	1	1	1	1	1
172.5	0	0	0	0	1	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	0
177.5	0	0	0	0	0	0	1	1	1	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	749	749
2.5	775	781
5.0	695	694
7.5	693	691
10.0	588	585
12.5	516	510
15.0	431	429
17.5	364	364
20.0	314	314
22.5	290	289
25.0	257	256

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CANDELA TABULATION - (Cont.)

27.5	234	233
30.0	219	219
32.5	206	207
35.0	195	194
37.5	180	180
40.0	164	165
42.5	149	151
45.0	137	139
47.5	129	131
50.0	121	123
52.5	114	114
55.0	107	108
57.5	96	97
60.0	84	82
62.5	84	86
65.0	111	110
67.5	137	132
70.0	88	79
72.5	70	59
75.0	52	37
77.5	50	29
80.0	52	27
82.5	54	29
85.0	56	33
87.5	59	36
90.0	60	46
92.5	64	58
95.0	65	66
97.5	65	73
100.0	66	78
102.5	68	81
105.0	71	82
107.5	73	81
110.0	74	79
112.5	74	77
115.0	73	75
117.5	71	71
120.0	68	69
122.5	66	66
125.0	63	64
127.5	60	60
130.0	58	58
132.5	55	56
135.0	54	54
137.5	53	52
140.0	44	44
142.5	35	35
145.0	25	25
147.5	16	16
150.0	12	12
152.5	7	7
155.0	2	2
157.5	1	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	0	0

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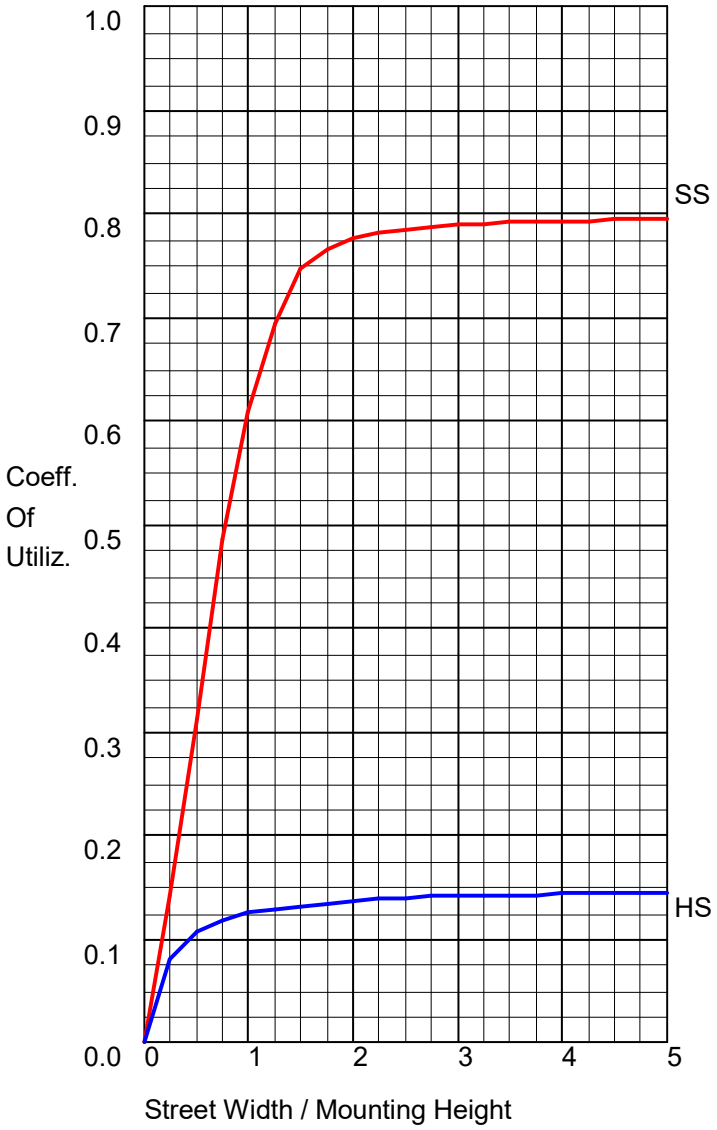
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5660.6	80.0
Downward House Side	1065.2	15.1
Downward Total	6725.8	95.1
Upward Street Side	160.9	2.3
Upward House Side	189.1	2.7
Upward Total	350.0	4.9
Total Flux	7075.8	100.0

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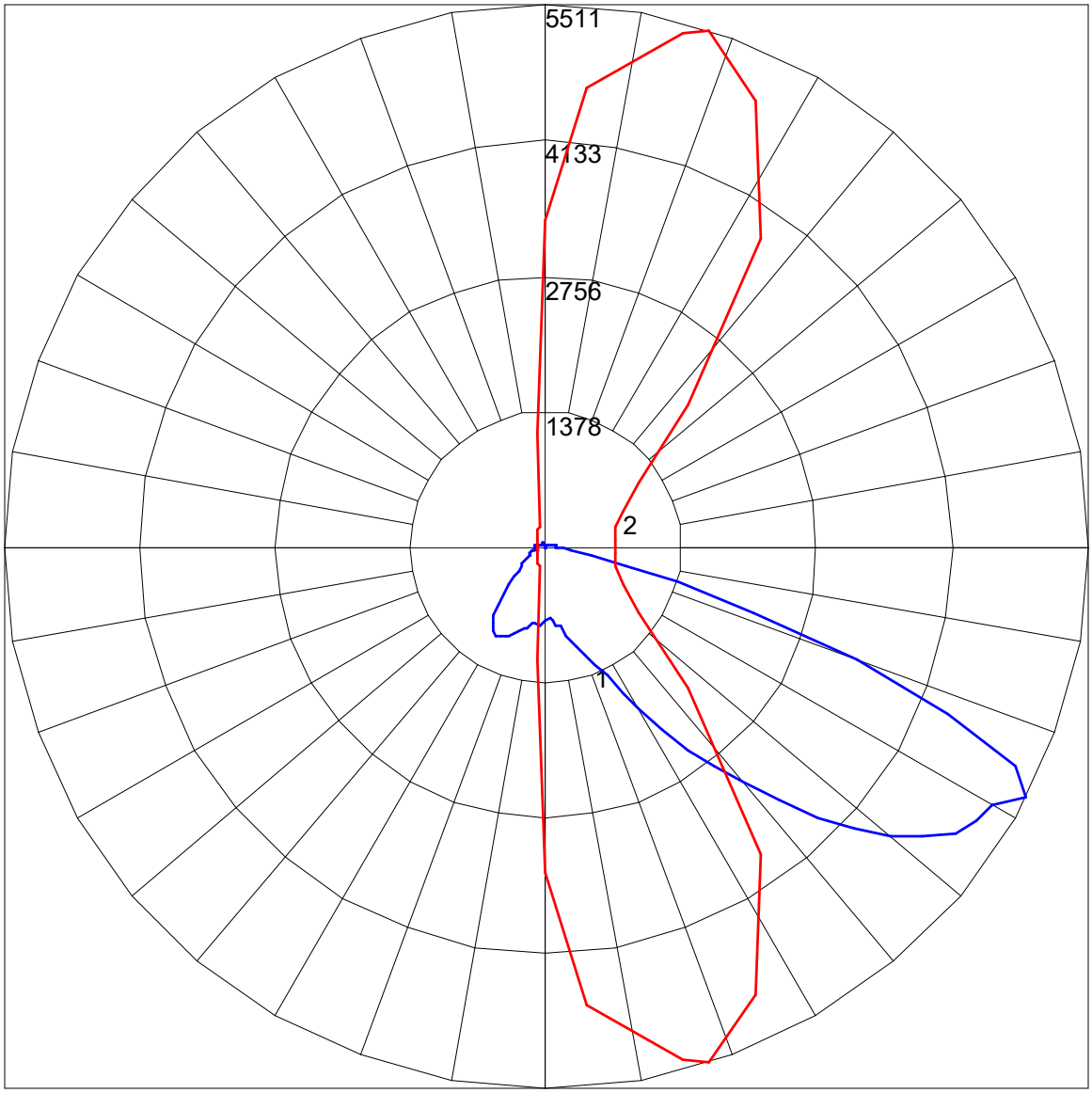
POLAR GRAPH



Maximum Candela = 5511 Located At Horizontal Angle = 72.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (72.5 - 252.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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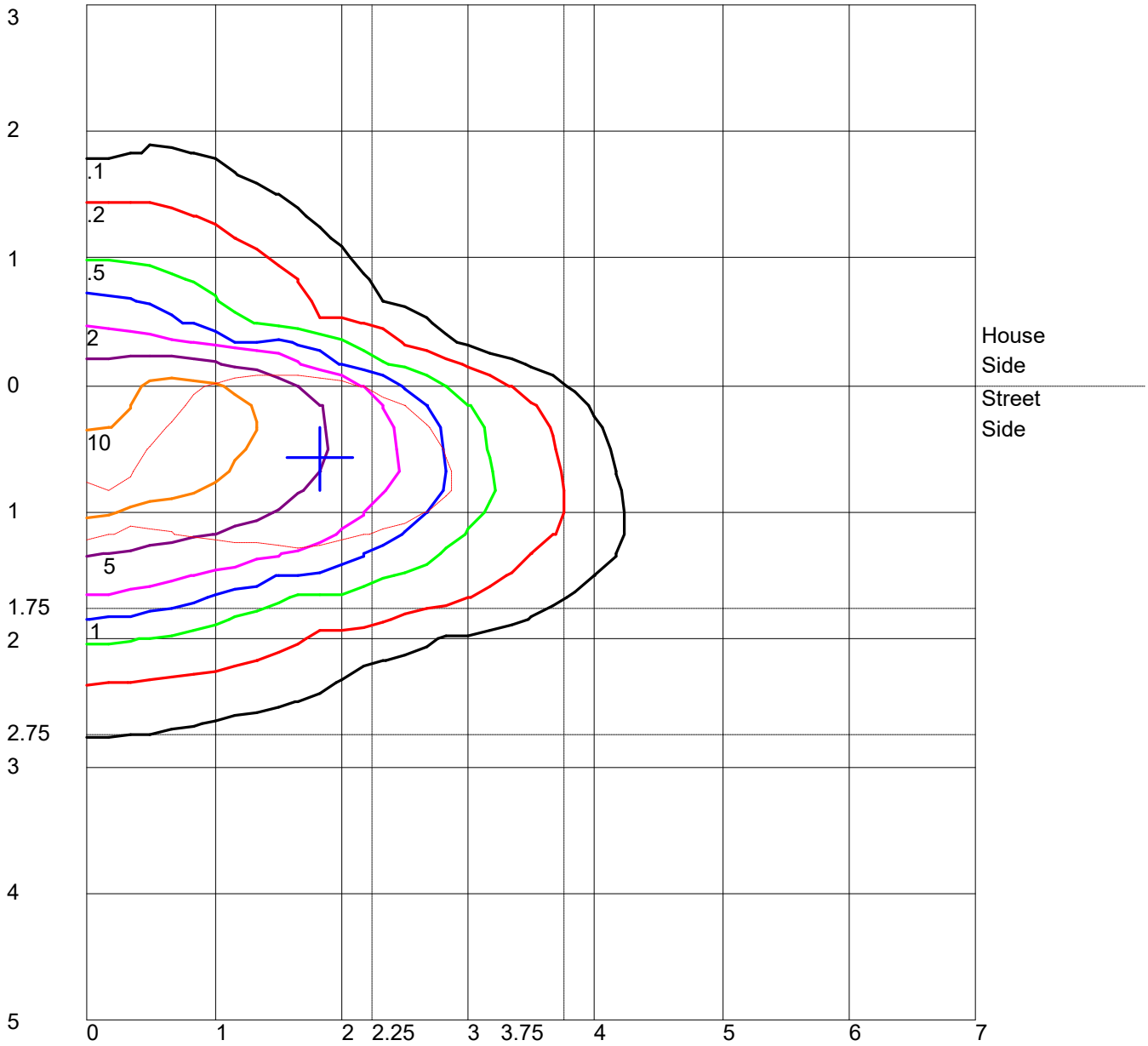
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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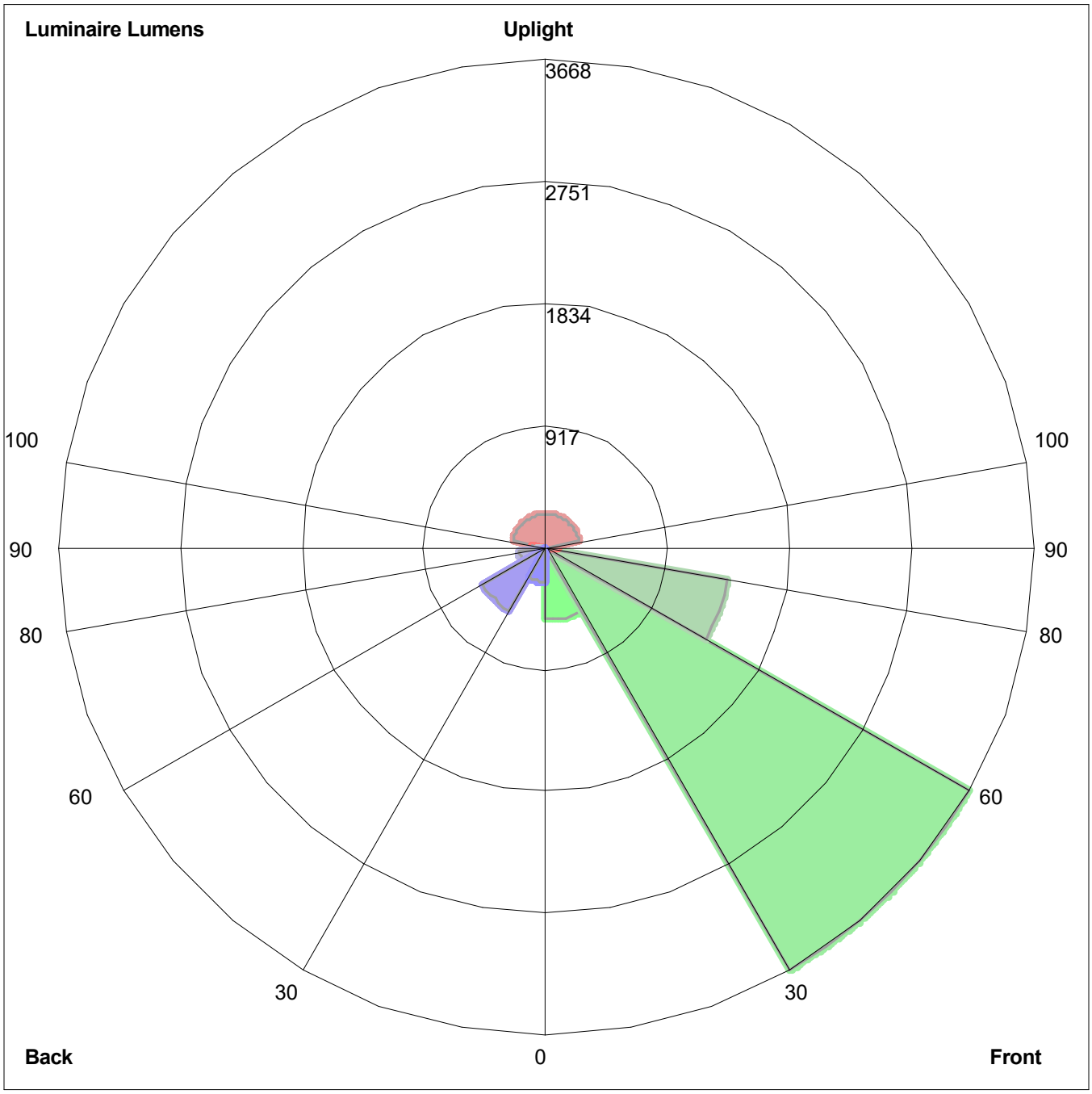
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=544.2, Medium=3667.9, High=1384.6, Very High=63.9
Back: Low=258.7, Medium=546.4, High=204.5, Very High=55.6
Uplight: Low=100.0, High=250.0

BUG Rating : B1-U3-G1

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