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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12638
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/26/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-2-30-70CRI-IL
[_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 I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3987
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	4810
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	4810
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	87 (2.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	302 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	468.1	N.A.	11.7
FM - Front-Medium (30-60)	1902.2	N.A.	47.7
FH - Front-High (60-80)	795.1	N.A.	19.9
FVH - Front-Very High (80-90)	86.8	N.A.	2.2
BL - Back-Low (0-30)	114.9	N.A.	2.9
BM - Back-Medium (30-60)	247.3	N.A.	6.2
BH - Back-High (60-80)	104.6	N.A.	2.6
BVH - Back-Very High (80-90)	35.5	N.A.	0.9
UL - Uplight-Low (90-100)	65.0	N.A.	1.6
UH - Uplight-High (100-180)	167.7	N.A.	4.2
Total	3987.2	N.A.	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	626	626	626	626	626	626	626	626	626	626
2.5	647	647	654	658	649	644	634	626	624	621
5.0	735	730	742	729	729	724	723	700	643	627
7.5	668	678	680	700	721	752	752	736	706	668
10.0	755	756	730	770	756	737	755	755	760	729
12.5	807	806	775	777	806	790	754	808	844	822
15.0	852	897	878	882	860	825	878	851	904	902
17.5	1002	955	975	945	970	970	938	954	1001	991
20.0	1060	1071	1095	1072	1054	1060	1091	1083	1086	1093
22.5	1181	1202	1192	1162	1231	1187	1226	1226	1203	1273
25.0	1200	1198	1233	1280	1294	1375	1389	1386	1380	1409
27.5	1221	1213	1240	1259	1401	1481	1592	1612	1566	1648
30.0	1127	1145	1175	1263	1389	1625	1790	1837	1819	1824
32.5	1022	1026	1101	1192	1401	1635	1970	2141	2142	2108
35.0	880	883	954	1117	1353	1671	2091	2423	2383	2307
37.5	739	738	807	975	1283	1690	2139	2631	2656	2530
40.0	600	594	660	821	1134	1641	2166	2828	2940	2772
42.5	470	475	529	670	969	1515	2154	2972	3195	3139
45.0	374	378	424	546	806	1335	2118	3105	3537	3435
47.5	316	319	351	455	654	1142	2025	3083	3868	3846
50.0	297	296	315	398	539	948	1840	3067	4140	4183
52.5	311	306	304	371	464	754	1622	2982	4303	4212
55.0	445	429	363	364	423	578	1391	2768	4373	4387
57.5	792	758	617	445	397	463	1074	2455	4365	4555
60.0	949	916	817	675	447	401	724	1991	4342	4810
62.5	681	662	645	669	594	337	460	1480	4201	4777
65.0	510	512	496	496	514	401	313	972	3742	4215
67.5	470	471	452	437	405	395	277	561	2677	3320
70.0	439	441	415	399	369	335	326	328	1622	2232
72.5	343	346	338	349	343	310	328	252	728	1113
75.0	291	291	277	279	308	295	288	301	286	480
77.5	256	258	254	256	281	294	256	349	159	194
80.0	234	238	235	235	260	302	253	269	167	141
82.5	200	202	209	219	246	283	273	212	174	116
85.0	122	131	139	149	179	234	263	191	155	116
87.5	65	71	84	89	99	122	154	158	110	95
90.0	36	40	54	60	66	74	84	87	81	78
92.5	29	32	44	49	54	59	60	66	71	72
95.0	32	33	44	50	56	60	60	66	71	61
97.5	36	35	46	52	57	60	60	66	65	50
100.0	39	36	46	52	57	60	59	62	52	43
102.5	41	37	46	53	57	60	57	57	43	41
105.0	43	39	46	53	57	59	53	49	38	40
107.5	44	41	45	54	57	57	48	42	36	37
110.0	44	42	44	54	56	53	43	37	34	36
112.5	44	43	44	53	54	48	39	33	32	34
115.0	45	44	44	52	51	44	36	30	30	32
117.5	45	45	44	50	48	41	35	28	29	31
120.0	45	45	43	47	45	39	33	27	29	29
122.5	45	45	41	44	42	37	32	27	27	28
125.0	44	44	40	41	40	36	31	27	27	27
127.5	43	42	39	39	39	36	31	27	27	27
130.0	41	41	39	38	37	35	32	28	27	27

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CANDELA TABULATION - (Cont.)

132.5	40	40	38	37	37	36	32	28	28	28
135.0	40	39	38	37	36	34	29	28	29	29
137.5	40	39	38	36	34	29	26	26	28	29
140.0	38	37	36	32	27	23	21	22	24	25
142.5	34	33	31	26	21	17	16	16	19	20
145.0	27	27	24	19	14	12	12	12	14	14
147.5	19	19	16	13	10	7	7	8	9	10
150.0	13	12	12	9	5	1	2	4	5	5
152.5	10	10	7	4	1	0	0	0	1	1
155.0	3	3	2	1	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	626	626	626	626	626	626	626	626	626	626
2.5	626	625	629	638	638	634	625	610	602	603
5.0	621	632	652	640	597	558	518	475	440	405
7.5	651	651	666	608	526	429	349	299	270	244
10.0	688	681	674	562	448	328	247	188	158	141
12.5	751	740	736	570	359	241	162	129	116	114
15.0	814	804	756	536	309	178	123	115	111	108
17.5	925	880	827	506	249	135	117	108	105	103
20.0	1033	953	859	473	201	124	111	105	102	96
22.5	1190	1083	969	451	162	122	108	100	92	89
25.0	1335	1197	1005	400	144	120	107	92	84	77
27.5	1554	1339	1109	351	141	119	100	84	71	69
30.0	1772	1513	1171	293	140	115	92	73	64	62
32.5	1952	1621	1195	241	135	108	81	66	60	61
35.0	2152	1724	1209	198	130	100	72	62	60	60
37.5	2410	1870	1207	171	121	88	65	63	60	58
40.0	2651	2048	1171	158	111	77	65	64	58	47
42.5	2897	2166	1129	149	100	69	69	63	48	38
45.0	3230	2301	1079	142	91	72	73	55	42	36
47.5	3430	2409	990	149	90	77	69	48	42	36
50.0	3613	2575	878	175	108	89	61	48	44	50
52.5	3849	2672	781	150	114	116	66	51	62	72
55.0	4109	2820	667	118	89	106	87	72	84	87
57.5	4256	2770	534	97	75	74	90	95	84	64
60.0	4429	2686	392	87	75	64	84	96	62	53
62.5	4350	2529	299	79	73	66	88	71	54	48
65.0	3855	2097	221	74	68	76	79	59	53	46
67.5	3101	1592	173	73	66	84	64	60	53	47
70.0	2260	1109	145	74	70	76	62	59	54	48
72.5	1325	698	115	72	73	68	61	59	54	50
75.0	722	449	94	71	74	66	62	60	56	51
77.5	250	186	79	73	71	66	64	60	58	52

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CANDELA TABULATION - (Cont.)

80.0	158	132	69	78	71	66	66	62	59	54
82.5	112	102	61	82	74	68	69	64	60	59
85.0	89	66	64	84	77	70	73	66	62	62
87.5	78	29	72	82	76	69	72	71	65	59
90.0	63	21	68	78	74	68	71	67	63	59
92.5	44	44	60	79	75	69	73	69	66	60
95.0	39	62	56	77	74	65	71	69	66	61
97.5	48	64	55	69	70	61	68	66	64	60
100.0	52	61	55	60	67	60	66	65	64	59
102.5	50	57	53	51	62	59	64	64	63	57
105.0	47	52	49	45	56	57	62	64	63	55
107.5	44	47	46	41	50	54	61	63	62	52
110.0	40	42	41	38	44	50	59	62	61	50
112.5	37	38	38	36	39	47	56	60	60	48
115.0	35	36	36	35	36	44	52	59	57	46
117.5	32	34	33	34	35	41	49	55	54	45
120.0	31	32	31	32	33	39	47	52	50	44
122.5	29	29	29	30	32	37	44	49	47	43
125.0	27	28	28	29	32	37	42	46	43	42
127.5	27	27	27	29	32	37	41	43	40	41
130.0	27	27	28	29	32	36	40	40	38	39
132.5	28	28	29	31	32	35	38	39	36	39
135.0	29	29	30	31	32	31	34	36	36	39
137.5	29	30	31	30	28	27	27	29	33	37
140.0	26	27	27	25	23	21	19	22	26	31
142.5	21	22	22	20	17	15	14	14	19	23
145.0	16	16	16	14	12	11	10	11	13	16
147.5	10	10	10	9	8	6	5	7	9	11
150.0	5	5	4	4	4	2	1	2	6	7
152.5	1	1	1	1	1	1	0	1	2	4
155.0	0	0	0	0	0	0	0	0	1	1
157.5	0	0	0	0	0	0	0	0	1	1
160.0	0	0	0	0	0	0	0	0	1	1
162.5	0	0	0	0	0	0	0	0	1	1
165.0	0	0	0	0	0	0	0	0	1	1
167.5	0	0	0	0	0	0	0	0	1	1
170.0	0	0	0	0	0	0	0	0	0	1
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	626	626
2.5	604	608
5.0	398	394
7.5	239	239
10.0	133	134
12.5	113	113
15.0	106	105
17.5	102	102
20.0	93	93
22.5	85	85
25.0	75	75

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CANDELA TABULATION - (Cont.)

27.5	67	66
30.0	62	62
32.5	62	62
35.0	61	60
37.5	57	57
40.0	45	44
42.5	38	38
45.0	37	37
47.5	37	38
50.0	59	61
52.5	75	77
55.0	77	77
57.5	48	50
60.0	41	41
62.5	37	37
65.0	34	34
67.5	33	31
70.0	32	28
72.5	32	26
75.0	34	25
77.5	35	23
80.0	36	22
82.5	38	25
85.0	43	28
87.5	38	28
90.0	39	33
92.5	41	39
95.0	42	44
97.5	43	48
100.0	44	50
102.5	45	52
105.0	46	52
107.5	48	52
110.0	50	52
112.5	50	51
115.0	50	50
117.5	49	50
120.0	48	49
122.5	48	48
125.0	46	47
127.5	44	45
130.0	42	43
132.5	41	41
135.0	40	40
137.5	39	39
140.0	34	34
142.5	26	26
145.0	18	19
147.5	12	12
150.0	8	8
152.5	4	4
155.0	2	2
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	0	0

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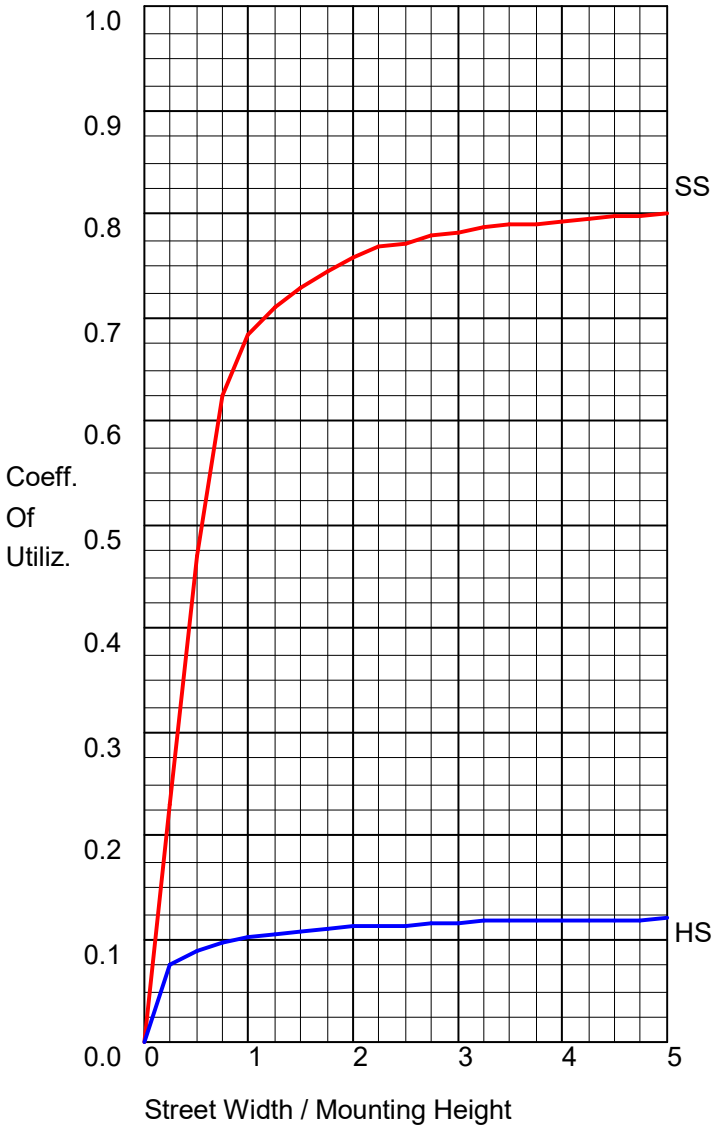
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3252.2	81.6
Downward House Side	502.4	12.6
Downward Total	3754.6	94.2
Upward Street Side	110.7	2.8
Upward House Side	121.9	3.1
Upward Total	232.6	5.8
Total Flux	3987.2	100.0

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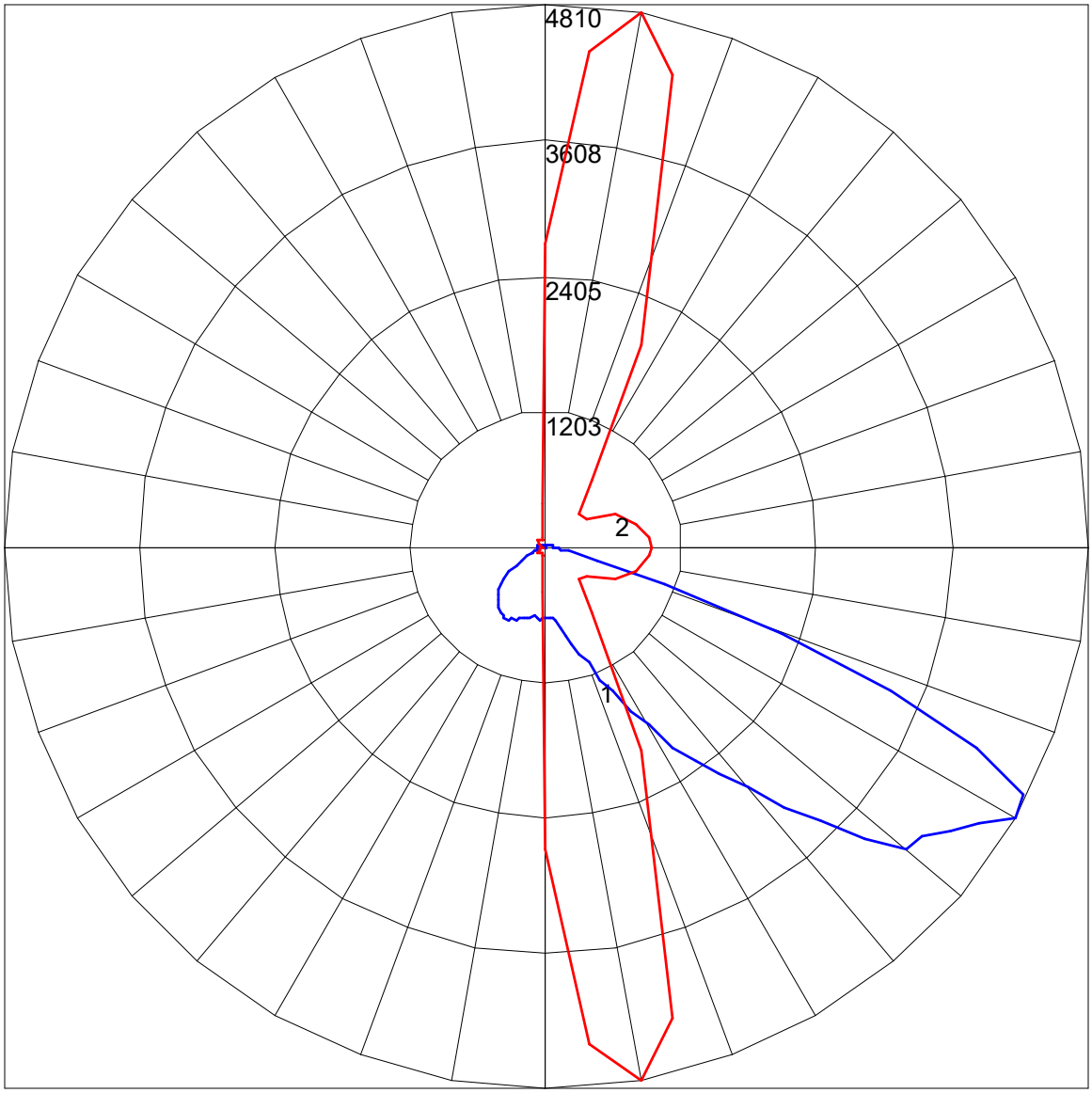
POLAR GRAPH



Maximum Candela = 4810 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

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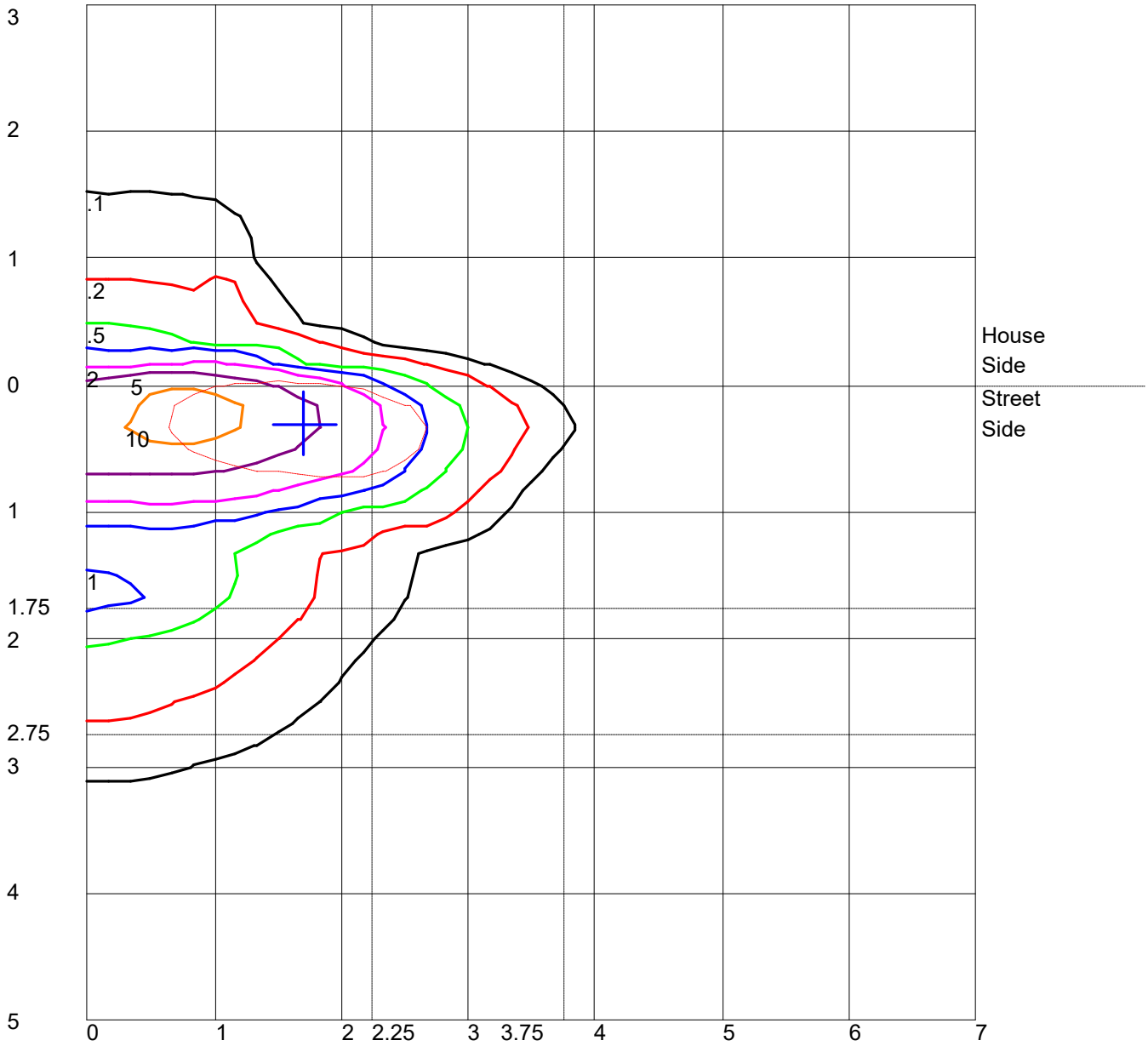
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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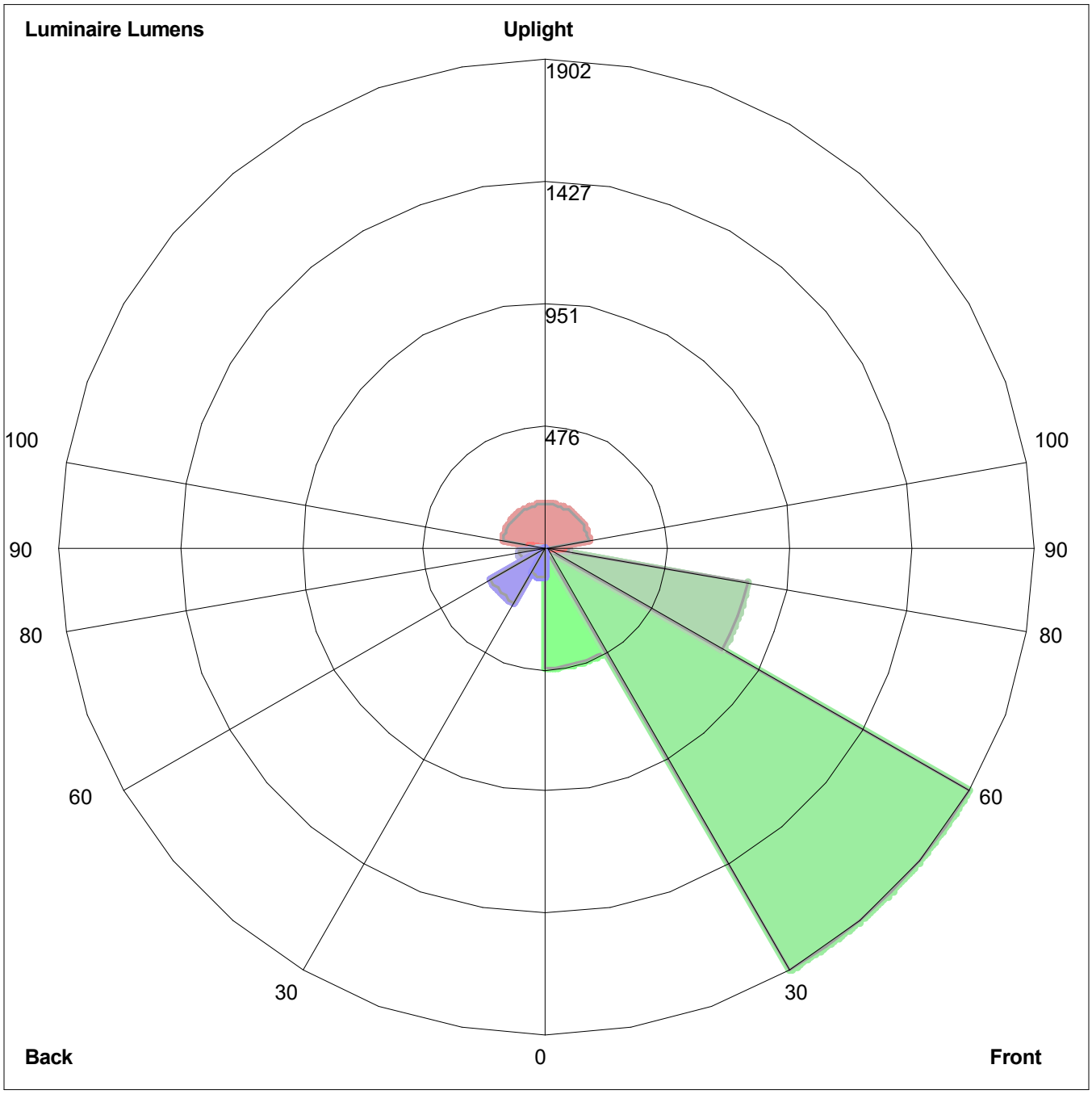
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=468.1, Medium=1902.2, High=795.1, Very High=86.8
Back: Low=114.9, Medium=247.3, High=104.6, Very High=35.5
Uplight: Low=65.0, High=167.7

BUG Rating : B1-U3-G1

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