IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-2-50-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12569
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-2-50-70CRI
[_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] 5000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10513
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	0.05
Maximum Candela	6288
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	6288
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	168 (1.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	553 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	644.7	N.A.	6.1
FM - Front-Medium (30-60)	3922.2	N.A.	37.3
FH - Front-High (60-80)	1610.5	N.A.	15.3
FVH - Front-Very High (80-90)	112.4	N.A.	1.1
BL - Back-Low (0-30)	552.1	N.A.	5.3
BM - Back-Medium (30-60)	2288.9	N.A.	21.8
BH - Back-High (60-80)	752.9	N.A.	7.2
BVH - Back-Very High (80-90)	126.2	N.A.	1.2
UL - Uplight-Low (90-100)	141.2	N.A.	1.3
UH - Uplight-High (100-180)	362.2	N.A.	3.4
Total	10513.3	N.A.	100.0
BUG Rating	B2-U3-G2		

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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	899	899	899	899	899	899	899	899	899	899
2.5	916	914	924	937	937	934	926	906	901	901
5.0	943	939	953	970	974	968	956	943	937	941
7.5	973	968	943	952	941	943	977	980	962	956
10.0	997	1001	1005	1007	1016	988	966	1003	990	992
12.5	1089	1107	1090	1078	1067	1041	1060	1021	1091	1093
15.0	1139	1137	1147	1142	1175	1130	1127	1152	1133	1177
17.5	1285	1279	1294	1226	1246	1303	1229	1273	1237	1272
20.0	1382	1381	1396	1377	1419	1370	1421	1406	1372	1372
22.5	1609	1594	1624	1580	1574	1547	1556	1535	1542	1534
25.0	1901	1890	1844	1801	1813	1726	1719	1742	1685	1683
27.5	2353	2365	2311	2219	2063	2009	1952	1927	1885	1877
30.0	2819	2839	2795	2641	2530	2296	2237	2170	2132	2139
32.5	2948	2962	3005	3092	2973	2737	2651	2475	2432	2367
35.0	2842	2822	2877	3069	3303	3162	3069	2813	2692	2624
37.5	2931	2904	2903	2990	3208	3412	3453	3287	2968	2877
40.0	3114	3077	3061	3096	3243	3434	3541	3841	3291	3211
42.5	3253	3185	3170	3202	3359	3561	3653	4002	3805	3617
45.0	3218	3171	3165	3236	3443	3738	3895	3939	4313	4189
47.5	3074	3052	3049	3181	3447	3904	4082	3993	4562	4562
50.0	2899	2874	2865	3024	3368	4022	4327	4197	4697	4725
52.5	2586	2564	2572	2732	3174	4031	4562	4609	4852	4933
55.0	2166	2156	2203	2347	2821	3866	4701	4986	5071	5176
57.5	1735	1729	1760	1924	2358	3452	4671	5236	5422	5501
60.0	1214	1230	1275	1413	1773	2818	4463	5399	5729	5739
62.5	751	761	792	905	1175	1932	3954	5286	6288	5999
65.0	612	612	619	642	736	1092	3123	4917	6094	6192
67.5	534	533	532	555	583	627	2027	4101	5200	5401
70.0	396	401	426	467	512	518	1031	2952	3802	4111
72.5	316	323	320	331	421	452	558	1693	2420	2597
75.0	269	280	281	285	327	379	428	959	1483	1587
77.5	221	243	246	249	283	321	361	639	935	927
80.0	198	218	221	217	244	280	305	430	553	550
82.5	176	186	196	191	212	239	265	323	389	389
85.0	140	151	164	163	178	203	221	246	279	292
87.5	85	97	125	133	144	160	174	184	194	196
90.0	55	69	100	113	124	136	141	150	156	158
92.5	63	71	102	115	126	137	139	150	155	157
95.0	73	73	104	117	127	138	137	150	154	155
97.5	83	76	104	118	128	136	132	146	148	140
100.0	88	78	103	119	127	134	128	138	129	117
102.5	92	81	102	119	126	132	124	126	108	98
105.0	93	85	100	119	126	129	118	112	92	89
107.5	94	88	97	119	125	125	109	97	82	83
110.0	94	91	94	117	123	119	98	85	76	78
112.5	94	92	92	116	119	110	90	75	71	74
115.0	93	92	90	113	114	100	83	68	68	71
117.5	93	92	89	108	106	93	77	64	66	67
120.0	92	92	87	100	99	88	73	62	64	64
122.5	92	91	84	92	92	83	70	60	61	61
125.0	89	88	81	86	88	79	68	60	60	59
127.5	86	85	78	79	83	77	68	60	59	59
130.0	81	80	76	74	79	76	69	61	60	60

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CANDELA TABULATION - (Cont.)

132.5	78	77	74	71	77	74	66	61	62	62
135.0	76	76	74	71	73	68	61	62	63	63
137.5	76	76	73	66	62	57	54	57	61	62
140.0	67	67	63	56	49	44	45	49	53	54
142.5	55	55	51	45	35	32	34	38	43	45
145.0	43	42	39	31	25	24	25	29	33	34
147.5	31	30	26	22	17	12	15	20	22	24
150.0	22	21	19	15	7	4	5	11	13	13
152.5	13	13	9	5	2	0	1	3	4	5
155.0	4	4	3	1	0	0	0	0	1	1
157.5	1	1	0	0	0	0	0	0	0	0
160.0	1	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	0	0	0	0	0	0	0	0	0
170.0	1	0	0	0	0	0	0	0	0	0
172.5	1	0	0	0	0	0	0	0	0	0
175.0	1	0	0	0	0	0	0	0	0	0
177.5	1	1	0	0	0	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	899	899	899	899	899	899	899	899	899	899
2.5	894	888	889	893	888	897	904	899	901	909
5.0	898	886	888	924	930	926	940	927	919	915
7.5	930	907	913	945	950	926	897	858	862	872
10.0	968	946	945	969	957	898	913	895	889	866
12.5	1063	1019	1042	1055	963	941	906	891	884	936
15.0	1159	1098	1121	1120	1044	1011	941	973	961	989
17.5	1269	1215	1259	1221	1121	1043	1059	1017	1032	1139
20.0	1381	1359	1375	1299	1222	1134	1076	1157	1193	1260
22.5	1596	1536	1538	1440	1302	1208	1213	1297	1359	1498
25.0	1738	1742	1681	1564	1413	1290	1343	1469	1554	1656
27.5	1995	1932	1916	1698	1481	1431	1518	1648	1746	1872
30.0	2179	2148	2120	1887	1619	1600	1685	1797	1903	2060
32.5	2356	2314	2302	2069	1737	1757	1799	1960	2125	2244
35.0	2582	2500	2474	2159	1827	1858	1936	2125	2203	2299
37.5	2805	2725	2679	2225	1910	1935	2062	2174	2241	2311
40.0	3073	2969	2872	2252	1988	1967	2118	2186	2239	2276
42.5	3323	3229	3019	2285	2018	2013	2113	2158	2163	2145
45.0	3606	3357	3246	2328	1941	2077	2065	2063	1986	1924
47.5	3945	3661	3388	2292	1946	2025	1969	1904	1768	1696
50.0	4256	4002	3494	2317	1913	1922	1833	1717	1564	1488
52.5	4669	4330	3651	2276	1839	1783	1669	1544	1388	1339
55.0	5058	4570	3754	2086	1726	1604	1497	1375	1260	1237
57.5	5348	4914	3644	1917	1596	1437	1319	1240	1158	1143
60.0	5613	4947	3430	1748	1410	1240	1161	1117	1050	1026
62.5	5661	4814	3031	1555	1210	1048	1011	987	925	893
65.0	5373	4226	2420	1294	950	862	869	853	791	751
67.5	4472	3107	1691	943	740	679	712	702	639	618
70.0	3086	1974	1074	636	556	535	561	535	505	497
72.5	1948	1260	721	471	456	430	442	421	403	390
75.0	1262	889	554	402	412	370	362	342	330	333
77.5	597	461	407	365	375	320	306	293	293	292

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CANDELA TABULATION - (Cont.)

80.0	362	334	318	332	333	274	264	260	274	282
82.5	270	256	252	294	279	235	232	242	283	307
85.0	217	164	204	254	229	206	212	230	285	324
87.5	179	88	179	204	190	176	181	207	234	238
90.0	133	62	152	168	162	153	154	146	136	124
92.5	105	107	129	168	161	151	153	146	137	125
95.0	102	140	118	166	160	147	152	145	138	126
97.5	112	146	123	155	154	140	149	143	137	124
100.0	119	140	125	134	148	134	145	141	136	121
102.5	117	130	121	117	137	130	141	139	135	118
105.0	110	118	113	104	124	125	138	137	133	114
107.5	101	106	104	94	111	118	133	135	132	109
110.0	92	96	95	89	98	110	128	132	128	104
112.5	84	88	87	82	88	102	120	128	125	99
115.0	77	80	79	77	80	95	112	124	121	94
117.5	72	74	74	73	74	90	105	117	115	91
120.0	67	69	69	70	71	86	99	110	107	88
122.5	64	65	65	67	69	81	94	103	98	85
125.0	60	61	62	65	68	79	91	97	91	82
127.5	59	60	61	64	68	79	87	91	83	79
130.0	60	60	62	64	69	79	85	86	77	77
132.5	61	61	62	66	68	76	83	81	73	75
135.0	63	63	64	67	68	70	76	78	72	75
137.5	65	66	66	66	63	62	64	66	69	75
140.0	60	61	61	58	54	51	50	53	60	67
142.5	50	51	51	48	43	40	36	40	47	54
145.0	39	39	40	37	32	29	27	28	35	42
147.5	26	27	28	26	23	18	17	20	24	30
150.0	15	15	16	16	13	9	7	12	17	21
152.5	7	7	8	7	5	3	3	4	9	13
155.0	2	2	2	2	2	2	2	2	4	5
157.5	0	0	0	1	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	2	2	2	2
165.0	0	0	0	0	1	1	2	2	2	2
167.5	0	0	0	0	1	1	2	2	2	2
170.0	0	0	0	0	1	1	2	2	2	2
172.5	0	0	0	0	1	1	1	2	2	2
175.0	0	0	0	0	0	1	1	2	2	1
177.5	0	0	0	0	1	1	1	2	2	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	899	899
2.5	904	912
5.0	896	888
7.5	856	865
10.0	864	843
12.5	929	936
15.0	989	955
17.5	1141	1164
20.0	1308	1255
22.5	1517	1515
25.0	1723	1729

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CANDELA TABULATION - (Cont.)

27.5	1934	1962
30.0	2190	2183
32.5	2307	2308
35.0	2363	2380
37.5	2378	2422
40.0	2340	2393
42.5	2172	2212
45.0	1916	1948
47.5	1689	1708
50.0	1487	1500
52.5	1334	1345
55.0	1231	1238
57.5	1130	1134
60.0	999	1008
62.5	859	853
65.0	703	700
67.5	585	580
70.0	477	468
72.5	368	355
75.0	312	296
77.5	263	243
80.0	256	230
82.5	297	271
85.0	323	301
87.5	165	164
90.0	81	58
92.5	82	64
95.0	84	75
97.5	86	86
100.0	88	93
102.5	90	98
105.0	92	101
107.5	93	102
110.0	94	102
112.5	96	102
115.0	96	100
117.5	96	97
120.0	94	95
122.5	92	93
125.0	90	91
127.5	86	87
130.0	83	84
132.5	79	80
135.0	77	77
137.5	76	77
140.0	70	71
142.5	58	59
145.0	45	46
147.5	33	33
150.0	23	23
152.5	16	16
155.0	7	6
157.5	3	3
160.0	2	2
162.5	2	2
165.0	2	2

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CANDELA TABULATION - (Cont.)

167.5	1	1
170.0	1	1
172.5	1	1
175.0	1	1
177.5	1	1
180.0	0	0

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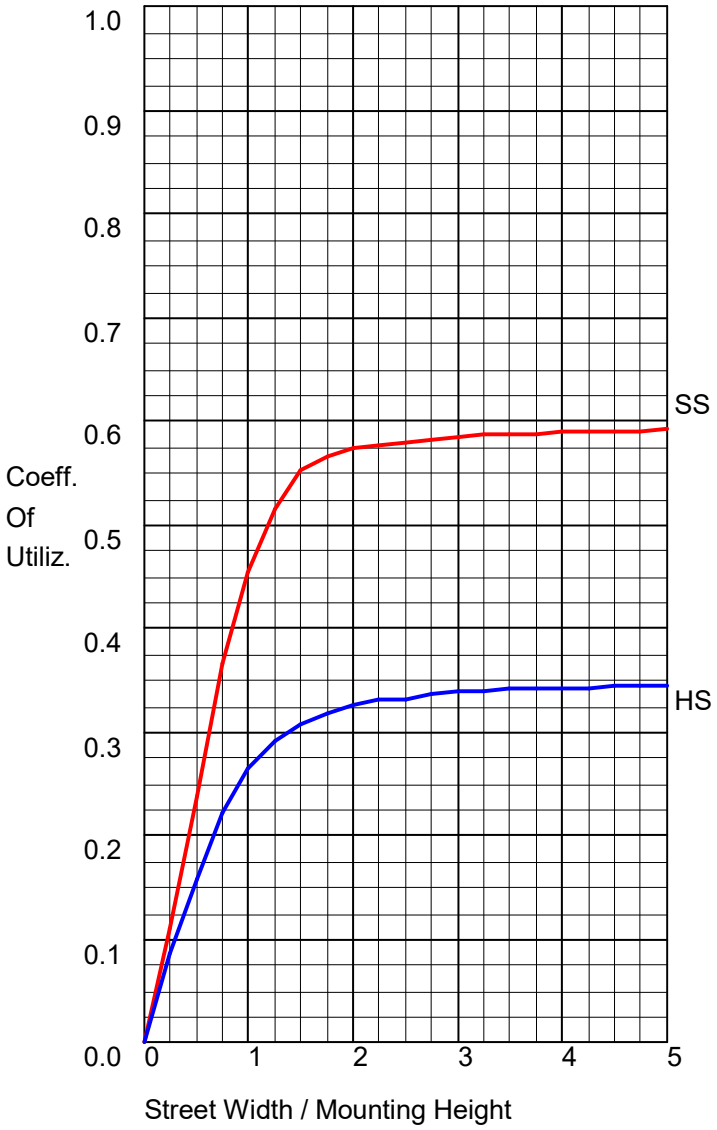
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6289.8	59.8
Downward House Side	3720.2	35.4
Downward Total	10010.0	95.2
Upward Street Side	240.1	2.3
Upward House Side	263.3	2.5
Upward Total	503.4	4.8
Total Flux	10513.4	100.0

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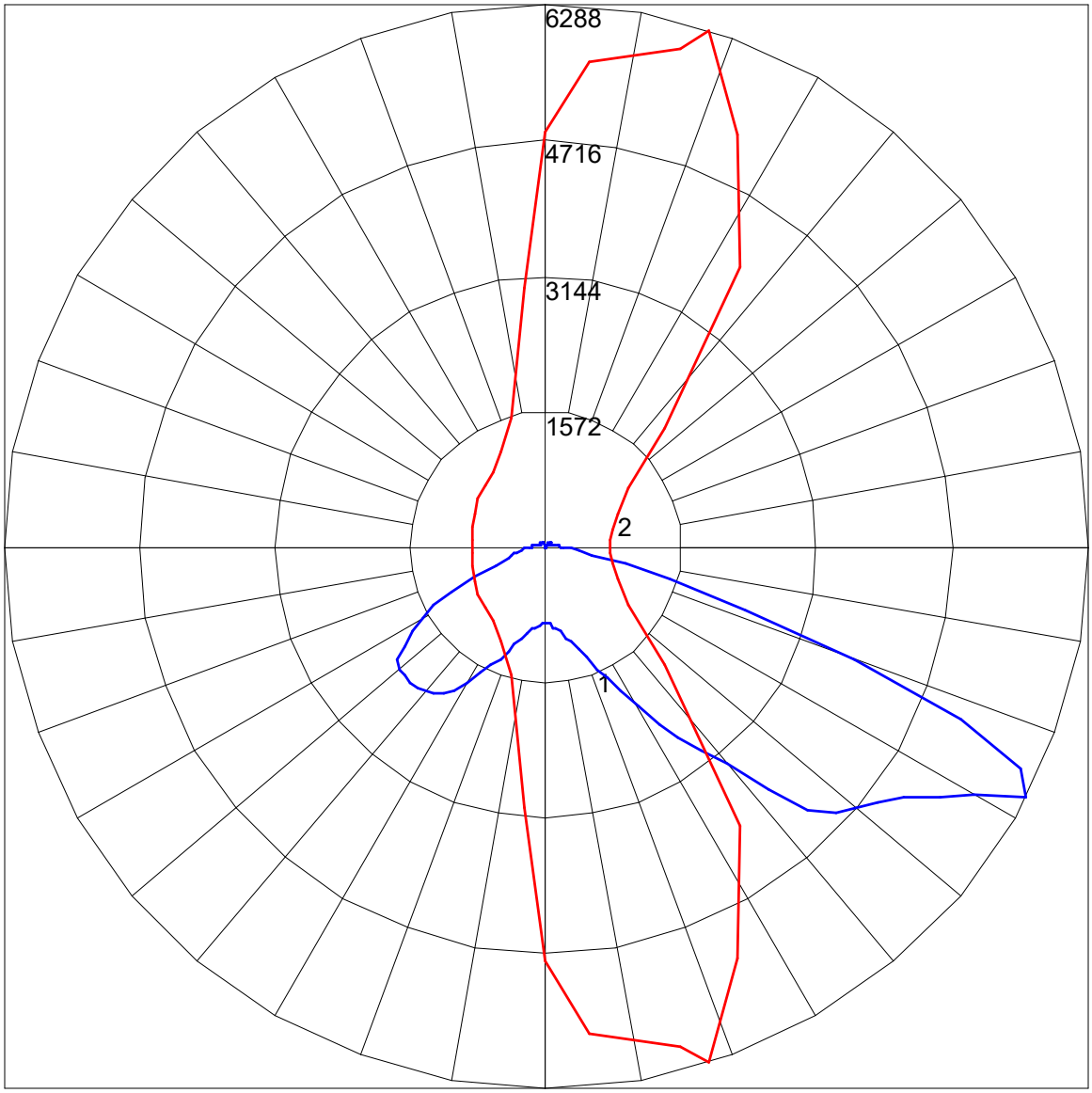
POLAR GRAPH



Maximum Candela = 6288 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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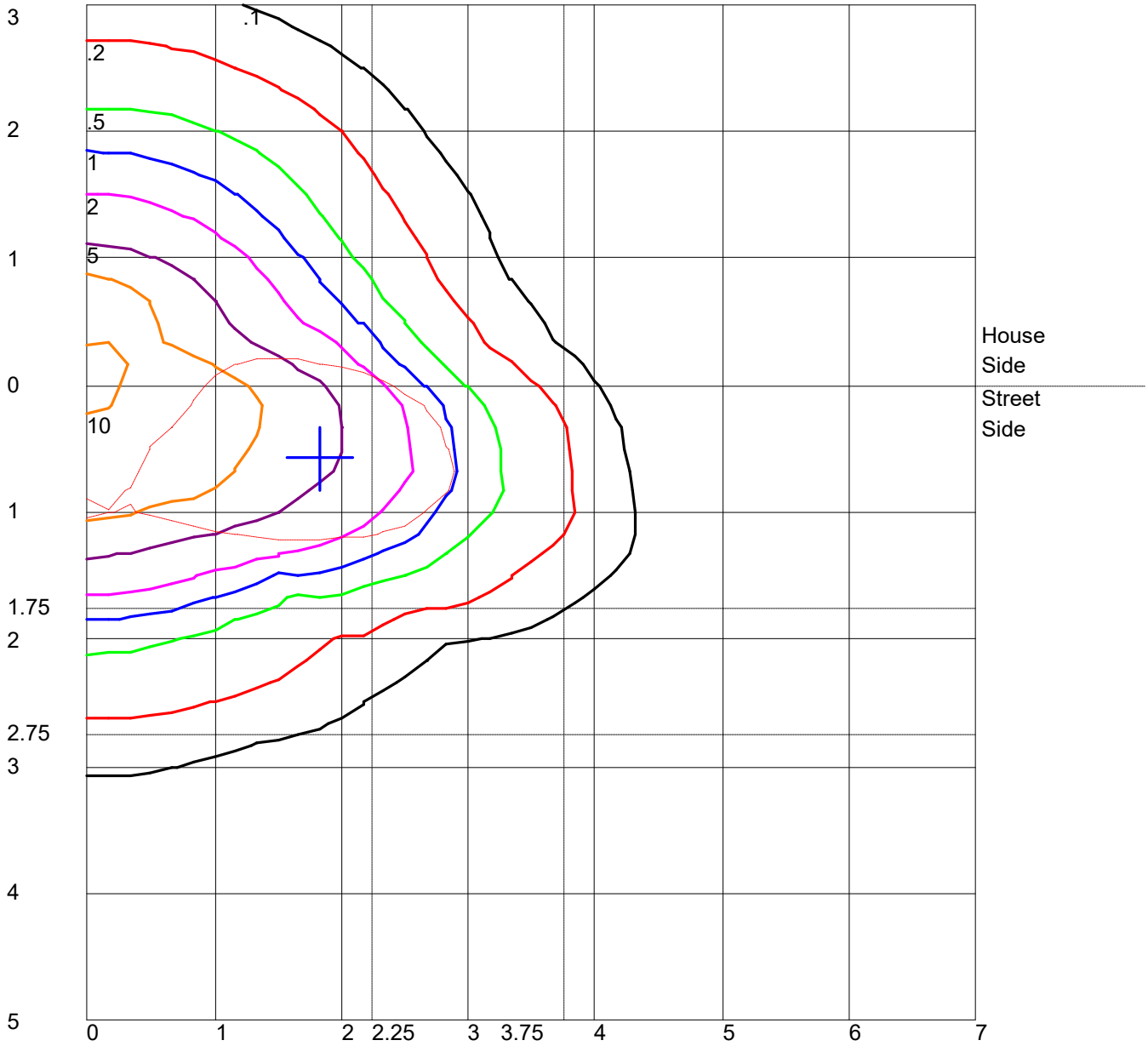
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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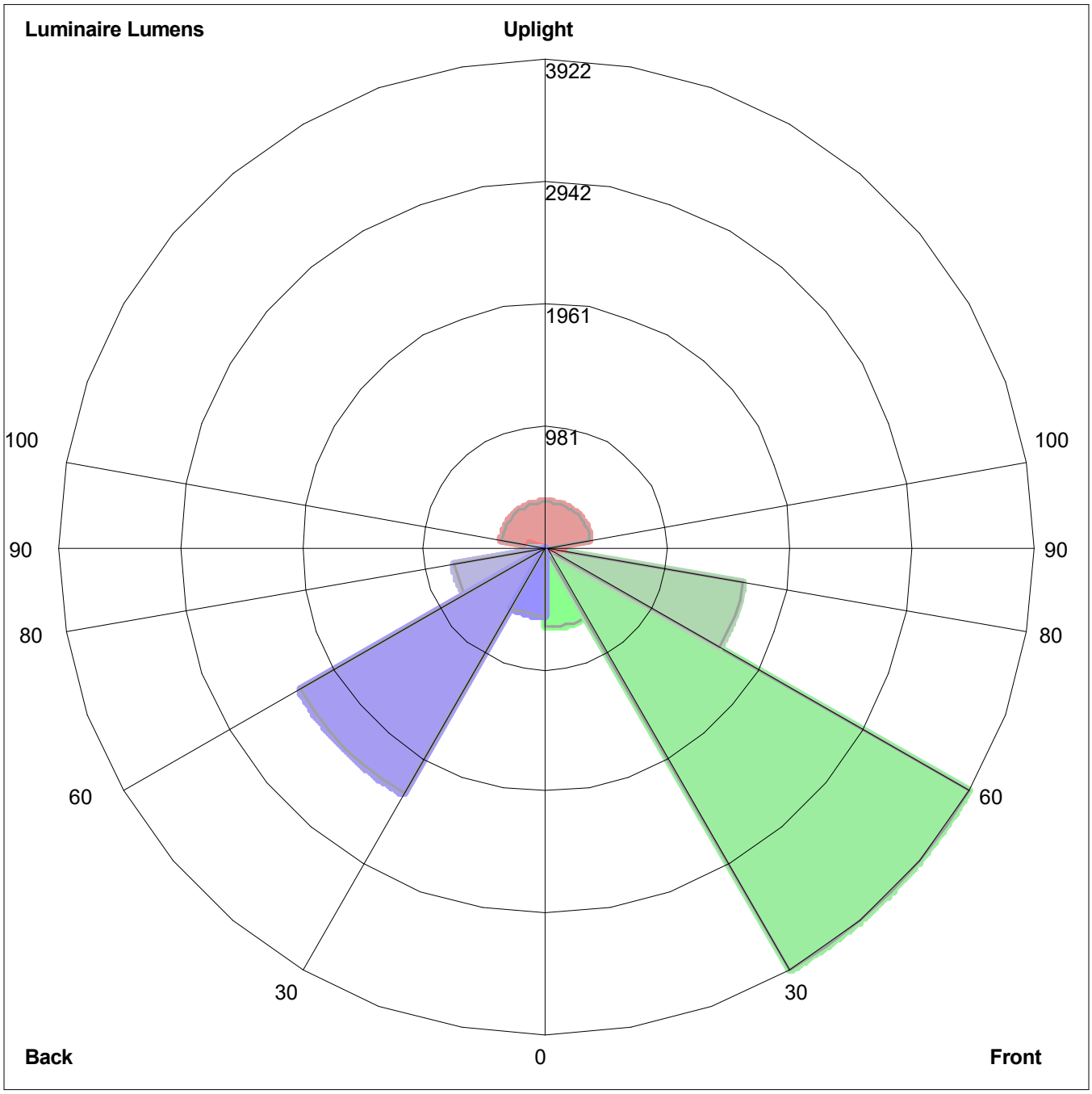
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=644.7, Medium=3922.2, High=1610.5, Very High=112.4
Back: Low=552.1, Medium=2288.9, High=752.9, Very High=126.2
Uplight: Low=141.2, High=362.2

BUG Rating : B2-U3-G2

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