IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-2-30-70CRI.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-2-30-70CRI
[_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] 3000

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10259
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	6136
Maximum Candela Angle	72.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	6136
Maximum Candela Angle (<90 Degrees Vertical)	72.5H 62.5V
Maximum Candela At 90 Degrees Vertical	164 (1.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	540 (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)	629.1	N.A.	6.1
FM - Front-Medium (30-60)	3827.3	N.A.	37.3
FH - Front-High (60-80)	1571.6	N.A.	15.3
FVH - Front-Very High (80-90)	109.6	N.A.	1.1
BL - Back-Low (0-30)	538.8	N.A.	5.3
BM - Back-Medium (30-60)	2233.5	N.A.	21.8
BH - Back-High (60-80)	734.7	N.A.	7.2
BVH - Back-Very High (80-90)	123.2	N.A.	1.2
UL - Uplight-Low (90-100)	137.7	N.A.	1.3
UH - Uplight-High (100-180)	353.1	N.A.	3.4
Total	10258.6	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	878	878	878	878	878	878	878	878	878	878
2.5	894	892	902	914	914	911	903	884	879	879
5.0	920	916	930	947	950	945	933	920	914	918
7.5	950	945	920	929	918	920	953	956	939	933
10.0	973	976	980	982	992	964	943	978	966	968
12.5	1063	1080	1064	1052	1041	1016	1034	997	1065	1067
15.0	1112	1110	1119	1115	1146	1102	1099	1124	1106	1148
17.5	1254	1248	1263	1196	1215	1271	1199	1242	1207	1241
20.0	1349	1348	1362	1344	1384	1336	1386	1372	1338	1338
22.5	1570	1555	1585	1542	1536	1509	1518	1498	1504	1497
25.0	1855	1844	1799	1757	1769	1684	1677	1699	1645	1643
27.5	2297	2308	2255	2165	2013	1961	1905	1881	1840	1832
30.0	2751	2770	2728	2577	2468	2241	2183	2118	2081	2087
32.5	2876	2890	2932	3018	2901	2671	2587	2415	2373	2310
35.0	2773	2754	2807	2995	3223	3086	2995	2745	2627	2561
37.5	2860	2834	2832	2918	3131	3330	3369	3208	2897	2807
40.0	3039	3002	2987	3021	3164	3351	3455	3748	3212	3134
42.5	3174	3108	3093	3124	3278	3475	3565	3905	3713	3529
45.0	3140	3094	3089	3158	3359	3647	3801	3843	4209	4088
47.5	2999	2978	2975	3104	3363	3810	3983	3896	4452	4452
50.0	2828	2804	2796	2950	3286	3925	4223	4096	4584	4610
52.5	2523	2502	2510	2666	3097	3934	4452	4497	4734	4814
55.0	2113	2104	2150	2290	2753	3772	4587	4866	4948	5051
57.5	1693	1687	1718	1877	2301	3368	4558	5110	5291	5368
60.0	1185	1200	1244	1379	1730	2750	4355	5268	5591	5600
62.5	733	742	773	883	1146	1886	3859	5158	6136	5854
65.0	597	597	604	627	718	1066	3047	4798	5947	6042
67.5	521	520	519	541	569	612	1978	4002	5074	5270
70.0	386	392	416	456	499	505	1006	2880	3710	4011
72.5	308	315	312	323	411	441	544	1652	2362	2535
75.0	262	274	275	278	319	370	418	936	1447	1549
77.5	216	237	240	243	277	313	352	623	912	904
80.0	193	213	216	212	238	274	298	420	540	537
82.5	172	181	191	186	206	233	258	315	379	379
85.0	136	147	160	159	174	198	216	240	273	285
87.5	83	95	122	130	140	156	170	180	189	191
90.0	54	67	98	110	121	132	137	146	153	155
92.5	61	69	100	112	123	133	135	146	152	154
95.0	71	71	102	114	124	134	133	146	151	152
97.5	81	74	102	115	125	132	129	142	144	136
100.0	85	76	101	116	124	131	125	134	126	114
102.5	89	79	100	116	123	129	121	123	106	96
105.0	91	83	98	116	123	126	115	109	89	86
107.5	92	85	95	116	122	122	107	95	80	81
110.0	92	88	92	114	120	116	96	83	74	76
112.5	92	89	89	113	116	108	87	73	69	72
115.0	91	90	87	110	111	98	81	66	66	69
117.5	91	90	86	106	104	91	75	62	64	65
120.0	90	89	84	98	97	85	71	60	62	62
122.5	89	88	82	90	90	81	68	59	60	60
125.0	86	85	79	84	85	77	66	59	59	58
127.5	84	83	76	77	81	75	66	59	58	58
130.0	79	78	74	72	77	74	67	60	59	59

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CANDELA TABULATION - (Cont.)

132.5	76	75	72	69	75	72	64	60	60	60
135.0	74	74	72	69	71	66	60	60	61	61
137.5	74	74	71	64	60	56	53	56	60	60
140.0	65	65	61	55	48	43	44	48	52	53
142.5	54	54	50	44	35	32	34	37	42	44
145.0	42	41	38	31	24	23	24	28	33	34
147.5	30	29	25	21	16	12	14	19	21	23
150.0	21	20	18	14	7	4	5	11	12	12
152.5	12	12	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	878	878	878	878	878	878	878	878	878	878
2.5	873	867	868	872	867	876	882	878	879	887
5.0	877	865	867	902	907	903	917	904	897	893
7.5	907	885	891	922	927	903	876	837	841	851
10.0	945	923	922	946	934	877	891	874	868	845
12.5	1037	995	1017	1029	940	918	884	870	862	913
15.0	1131	1071	1094	1093	1019	987	918	950	938	965
17.5	1239	1186	1229	1191	1094	1018	1033	993	1007	1112
20.0	1348	1326	1341	1267	1192	1107	1050	1129	1165	1230
22.5	1557	1499	1501	1406	1270	1179	1184	1265	1326	1462
25.0	1696	1699	1640	1527	1379	1259	1311	1433	1516	1616
27.5	1947	1886	1869	1657	1445	1396	1481	1608	1704	1827
30.0	2127	2096	2069	1841	1579	1561	1645	1753	1857	2010
32.5	2299	2258	2247	2019	1695	1715	1755	1913	2074	2190
35.0	2519	2440	2414	2106	1783	1813	1889	2074	2150	2244
37.5	2737	2659	2614	2171	1864	1889	2012	2122	2187	2255
40.0	2998	2898	2803	2198	1940	1919	2067	2133	2185	2221
42.5	3242	3151	2946	2229	1969	1964	2062	2105	2110	2093
45.0	3519	3276	3167	2272	1894	2027	2015	2013	1937	1877
47.5	3850	3573	3306	2236	1899	1976	1921	1858	1725	1655
50.0	4153	3905	3409	2261	1866	1875	1789	1675	1527	1452
52.5	4556	4225	3563	2221	1794	1740	1628	1506	1355	1307
55.0	4936	4460	3663	2035	1684	1565	1461	1341	1230	1207
57.5	5219	4795	3556	1870	1557	1403	1287	1210	1130	1116
60.0	5477	4827	3347	1706	1376	1210	1133	1090	1024	1001
62.5	5524	4698	2958	1517	1181	1023	987	963	902	872
65.0	5243	4124	2362	1263	927	841	848	832	772	733
67.5	4364	3032	1650	920	722	662	695	685	623	603
70.0	3011	1926	1048	620	542	522	547	522	493	485
72.5	1901	1230	704	460	445	420	431	411	394	380
75.0	1232	868	541	393	402	361	353	334	322	325
77.5	583	450	397	356	366	312	299	286	286	285

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CANDELA TABULATION - (Cont.)

80.0	353	325	310	324	325	267	257	253	267	276
82.5	263	250	246	287	273	229	227	236	277	300
85.0	212	160	199	248	224	201	206	225	278	316
87.5	175	85	175	199	185	172	177	202	229	232
90.0	130	60	148	164	158	149	151	142	132	121
92.5	103	105	126	164	157	147	150	142	133	122
95.0	100	136	115	162	156	143	148	141	134	123
97.5	109	142	120	152	151	136	145	139	133	121
100.0	116	136	122	131	144	131	141	137	132	118
102.5	114	127	118	114	133	127	137	135	132	115
105.0	108	115	110	102	121	122	134	133	130	111
107.5	99	104	102	92	108	115	130	132	129	107
110.0	89	94	93	86	96	108	125	129	125	102
112.5	82	85	84	80	85	100	117	125	122	97
115.0	75	78	77	75	78	93	109	121	118	92
117.5	70	72	72	71	72	87	103	114	112	88
120.0	65	67	67	68	69	84	97	108	105	85
122.5	62	63	63	65	67	79	92	101	96	83
125.0	59	60	60	63	66	77	88	95	88	80
127.5	58	59	60	62	66	77	84	88	81	77
130.0	59	59	60	62	67	77	83	84	75	75
132.5	60	60	60	64	66	74	81	79	71	73
135.0	61	61	62	65	66	68	74	76	70	73
137.5	63	64	64	64	61	60	62	64	67	73
140.0	59	60	60	57	53	50	49	52	59	65
142.5	49	50	50	47	42	39	36	39	46	53
145.0	38	38	39	36	32	28	26	27	35	41
147.5	25	26	27	25	22	17	16	19	23	29
150.0	14	14	15	15	12	9	7	12	16	20
152.5	7	7	8	7	5	3	3	4	9	12
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	878	878
2.5	882	890
5.0	875	867
7.5	835	844
10.0	843	823
12.5	906	913
15.0	965	932
17.5	1114	1136
20.0	1276	1225
22.5	1480	1479
25.0	1681	1687

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CANDELA TABULATION - (Cont.)

27.5	1888	1914
30.0	2137	2130
32.5	2251	2252
35.0	2306	2322
37.5	2321	2364
40.0	2283	2335
42.5	2120	2158
45.0	1869	1901
47.5	1648	1667
50.0	1451	1464
52.5	1302	1312
55.0	1201	1208
57.5	1102	1107
60.0	975	984
62.5	838	832
65.0	686	683
67.5	571	565
70.0	466	457
72.5	359	347
75.0	304	289
77.5	256	237
80.0	250	225
82.5	290	264
85.0	315	294
87.5	161	160
90.0	79	57
92.5	80	62
95.0	82	73
97.5	84	84
100.0	85	91
102.5	87	96
105.0	89	99
107.5	91	100
110.0	92	100
112.5	94	100
115.0	94	98
117.5	94	95
120.0	92	93
122.5	89	91
125.0	87	88
127.5	84	84
130.0	81	82
132.5	77	78
135.0	75	75
137.5	74	75
140.0	68	69
142.5	57	58
145.0	44	45
147.5	33	33
150.0	22	22
152.5	15	15
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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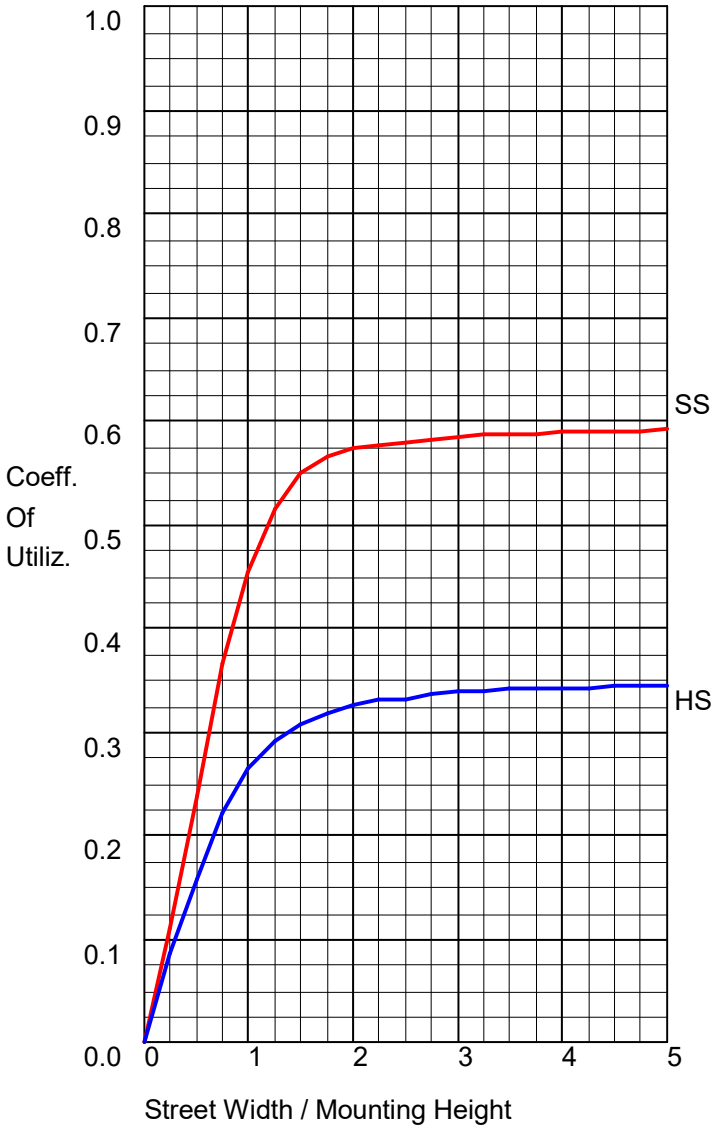
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6137.6	59.8
Downward House Side	3630.2	35.4
Downward Total	9767.8	95.2
Upward Street Side	234.2	2.3
Upward House Side	256.6	2.5
Upward Total	490.8	4.8
Total Flux	10258.6	100.0

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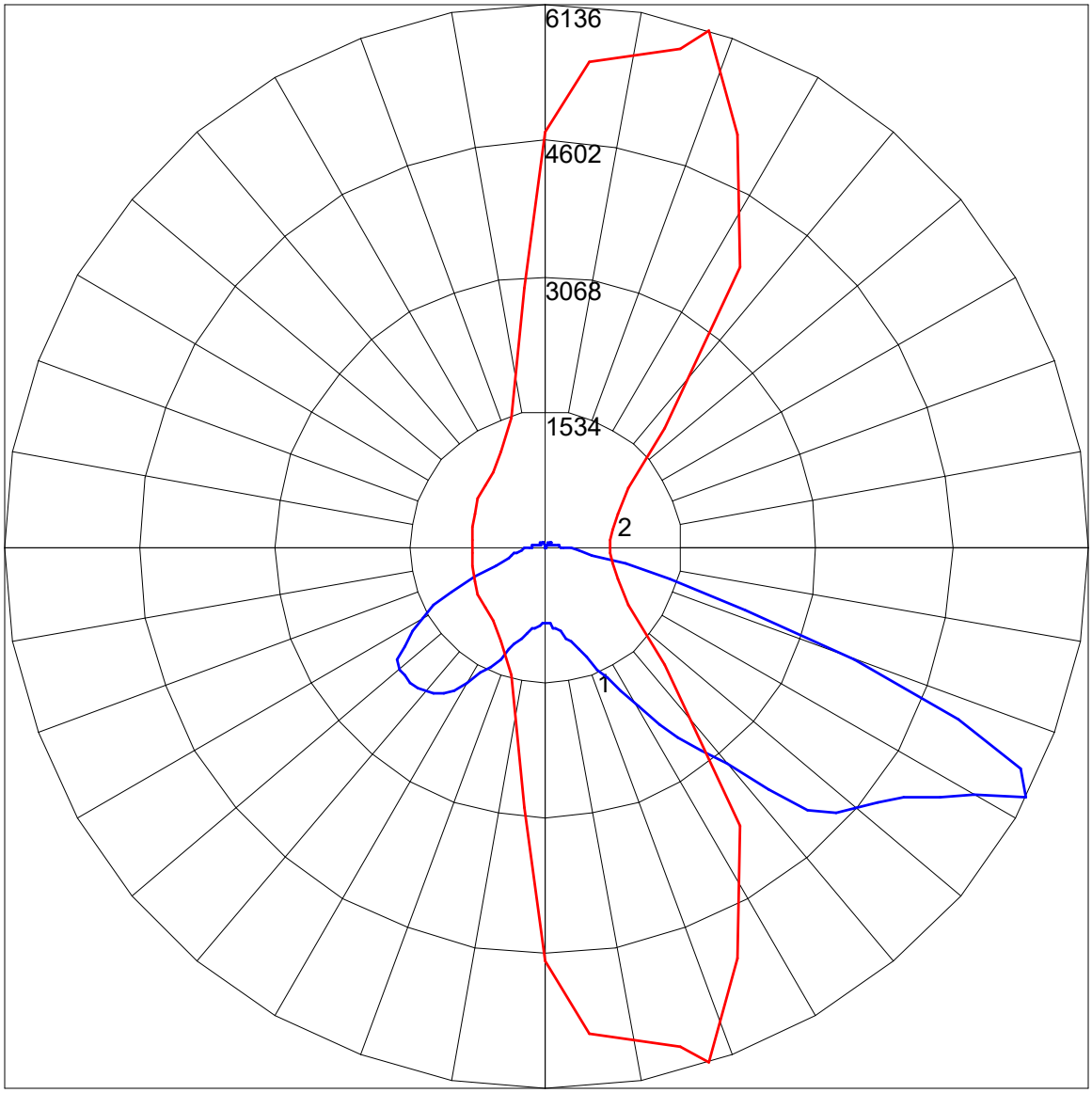
POLAR GRAPH



Maximum Candela = 6136 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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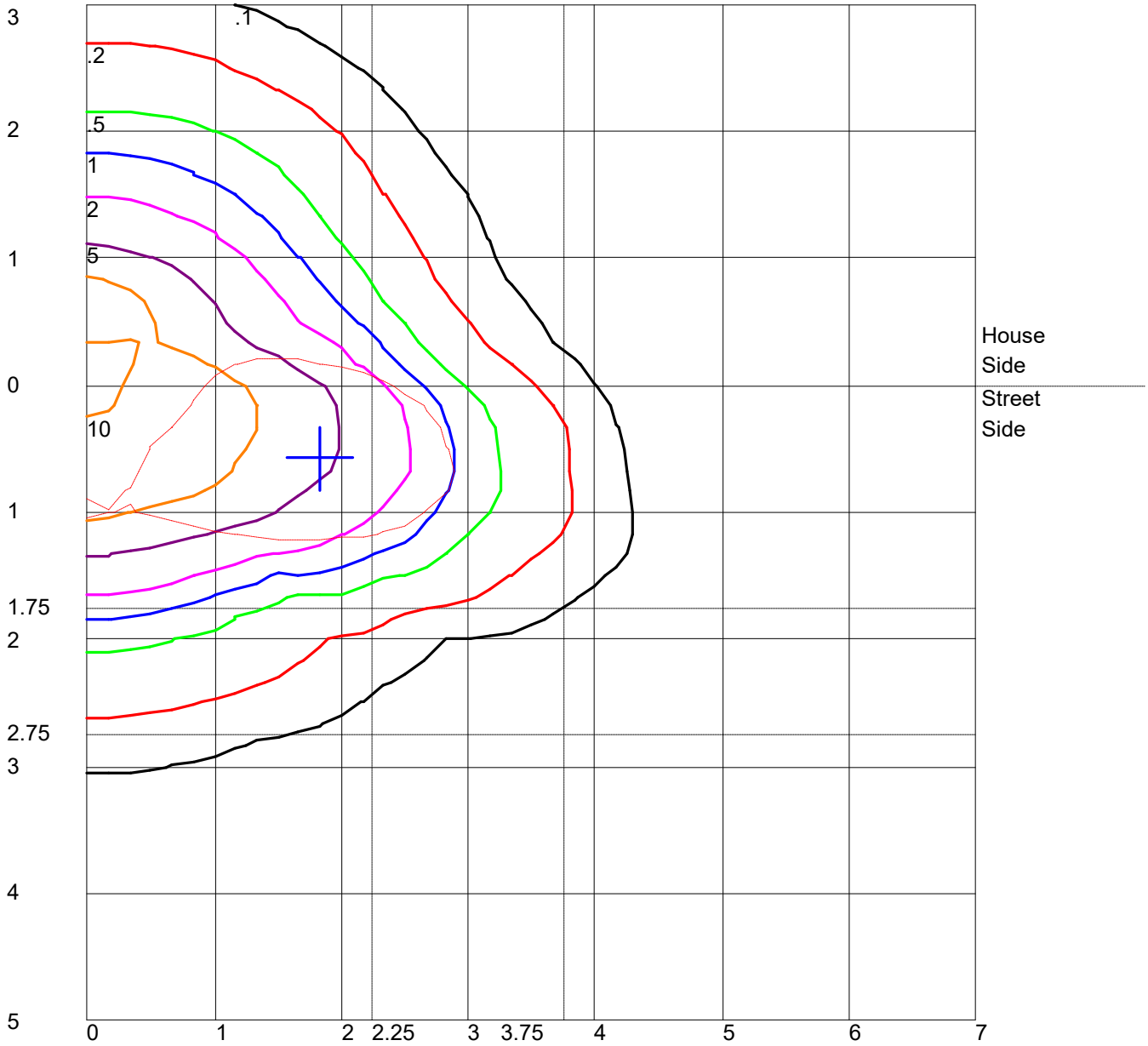
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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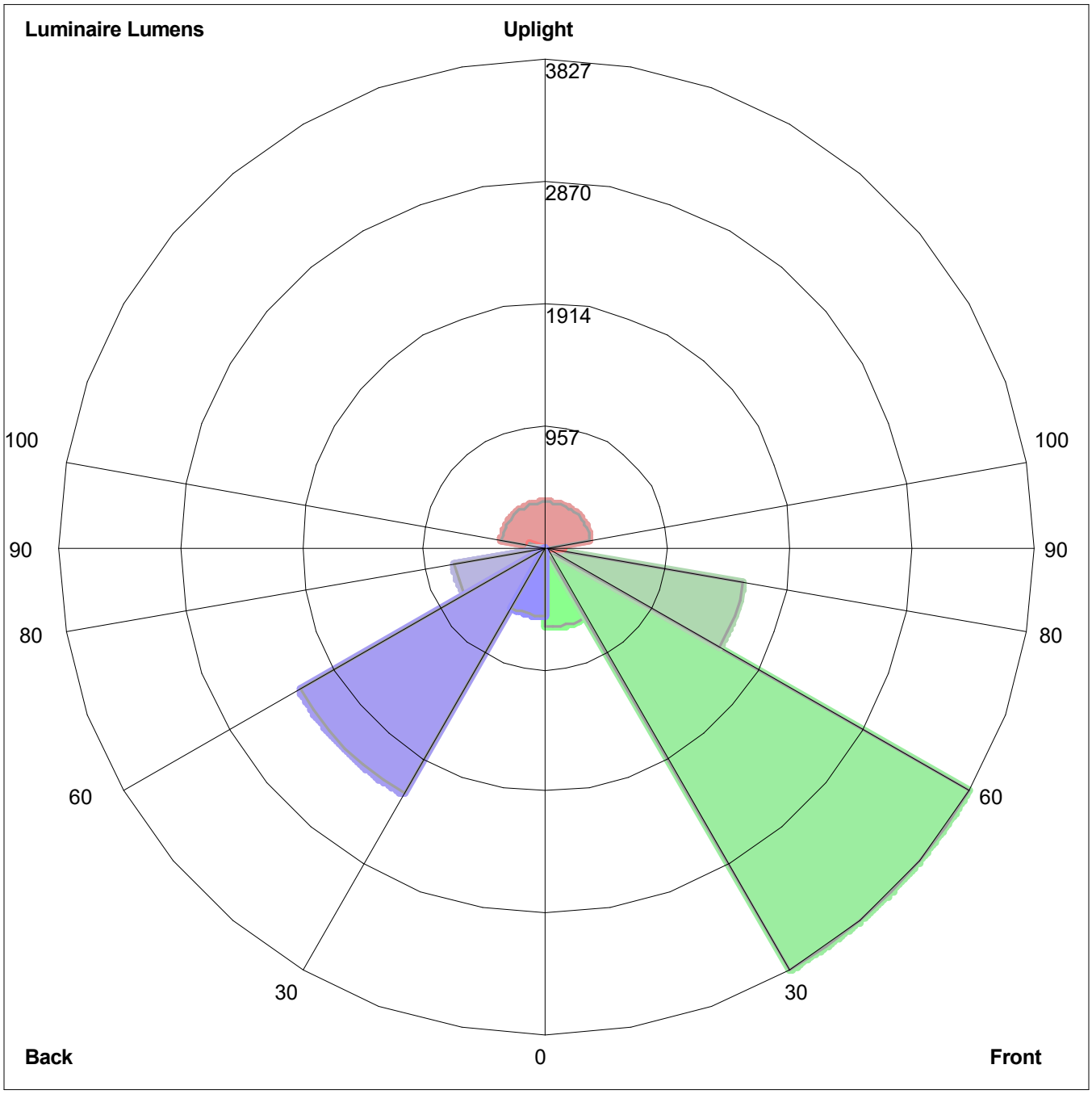
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=629.1, Medium=3827.3, High=1571.6, Very High=109.6
Back: Low=538.8, Medium=2233.5, High=734.7, Very High=123.2
Uplight: Low=137.7, High=353.1

BUG Rating : B2-U3-G2

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