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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12571
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10643
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	5663
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	5663
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	152 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1306 (12.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	537.9	N.A.	5.1
FM - Front-Medium (30-60)	3128.2	N.A.	29.4
FH - Front-High (60-80)	3342.6	N.A.	31.4
FVH - Front-Very High (80-90)	184.7	N.A.	1.7
BL - Back-Low (0-30)	480.8	N.A.	4.5
BM - Back-Medium (30-60)	1609.2	N.A.	15.1
BH - Back-High (60-80)	781.0	N.A.	7.3
BVH - Back-Very High (80-90)	134.5	N.A.	1.3
UL - Uplight-Low (90-100)	122.5	N.A.	1.2
UH - Uplight-High (100-180)	321.7	N.A.	3.0
Total	10643.1	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	37.5	45.0	55.0	65.0	75.0
0.0	935	935	935	935	935	935	935	935	935	935
2.5	975	985	982	986	984	980	976	971	962	953
5.0	927	919	942	976	996	995	1003	1015	1012	988
7.5	954	957	926	944	942	941	933	976	1019	1012
10.0	949	933	951	966	962	975	975	986	1007	1030
12.5	1004	1010	1022	1008	1004	1003	999	1015	1010	1119
15.0	1055	1047	1063	1046	1086	1082	1075	1077	1093	1121
17.5	1155	1149	1164	1144	1118	1124	1146	1142	1155	1187
20.0	1218	1242	1248	1236	1270	1271	1186	1245	1242	1217
22.5	1344	1336	1361	1362	1329	1336	1326	1312	1304	1331
25.0	1484	1495	1477	1431	1477	1462	1397	1376	1402	1367
27.5	1619	1643	1613	1594	1552	1545	1528	1449	1431	1433
30.0	1835	1847	1831	1714	1694	1683	1603	1552	1477	1523
32.5	1963	1974	1943	1916	1850	1809	1749	1662	1563	1567
35.0	2133	2105	2063	2038	2032	2021	1899	1751	1619	1587
37.5	2280	2266	2205	2172	2163	2155	2130	1893	1718	1616
40.0	2466	2430	2382	2337	2315	2308	2317	2054	1825	1608
42.5	2696	2647	2585	2537	2501	2499	2505	2279	1906	1657
45.0	2952	2919	2837	2788	2735	2733	2706	2541	1992	1753
47.5	3262	3243	3155	3103	3042	3024	2961	2759	2187	1873
50.0	3623	3606	3520	3504	3407	3353	3287	3040	2416	2054
52.5	3918	3907	3867	3904	3800	3719	3640	3351	2751	2292
55.0	4080	4084	4096	4225	4203	4148	4037	3701	3108	2416
57.5	4169	4183	4265	4443	4553	4560	4426	4112	3499	2629
60.0	4211	4236	4371	4621	4815	4867	4800	4481	3890	2960
62.5	4247	4280	4481	4803	5068	5143	5109	4822	4149	3241
65.0	4200	4231	4472	4918	5302	5447	5486	5076	4280	3387
67.5	4027	4066	4362	4939	5604	5663	5588	5258	4206	3105
70.0	3347	3453	3877	4691	5592	5620	5588	5077	3736	2633
72.5	1939	2104	3000	3867	4927	5140	5446	4273	2951	1826
75.0	894	1016	2076	2885	3821	4107	4349	3312	1973	994
77.5	423	460	1043	1813	2622	2580	2370	2032	1054	609
80.0	344	369	596	921	1306	1303	1094	1079	657	453
82.5	275	301	423	629	715	690	628	586	399	331
85.0	211	234	313	377	371	350	380	287	227	255
87.5	142	154	199	218	145	136	175	151	160	173
90.0	44	54	79	90	101	104	112	117	124	133
92.5	50	56	80	92	102	105	113	117	125	132
95.0	57	58	81	93	104	106	114	115	124	128
97.5	62	60	82	94	104	106	113	113	120	110
100.0	67	62	82	94	104	106	112	110	111	88
102.5	71	65	81	95	104	105	110	105	99	77
105.0	73	68	80	96	103	104	106	97	87	72
107.5	75	71	79	96	102	103	102	88	76	68
110.0	75	73	78	95	100	100	95	79	68	66
112.5	76	75	77	94	96	95	87	73	63	64
115.0	77	76	76	92	91	89	80	68	60	63
117.5	77	77	75	87	85	83	75	66	58	62
120.0	77	77	73	81	80	78	72	64	58	60
122.5	76	75	71	75	76	75	70	62	57	59
125.0	74	74	68	71	73	72	68	62	58	58
127.5	72	71	67	67	70	70	68	63	58	59
130.0	69	69	66	65	68	68	68	64	60	60

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CANDELA TABULATION - (Cont.)

132.5	68	68	66	64	68	68	66	61	60	62
135.0	68	68	66	64	63	62	60	57	60	64
137.5	66	67	64	58	53	51	49	50	56	63
140.0	58	57	53	47	41	40	38	42	48	55
142.5	47	46	42	36	30	29	29	32	38	46
145.0	35	34	31	26	21	21	20	24	30	35
147.5	24	24	22	18	13	12	10	14	20	24
150.0	17	17	15	10	4	4	3	6	11	15
152.5	9	8	6	3	1	1	1	2	4	7
155.0	3	2	2	1	1	1	1	1	2	3
157.5	1	1	1	1	1	1	1	1	1	2
160.0	1	1	1	1	1	1	1	1	1	2
162.5	1	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	1	0	1	1	1	1	1	1	2	2
172.5	0	0	1	1	1	1	1	1	2	2
175.0	0	0	1	1	1	1	1	1	1	2
177.5	1	0	1	1	1	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

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	935	935	935	935	935	935	935	935	935	935
2.5	947	938	939	932	924	928	924	919	916	917
5.0	963	939	921	933	984	989	975	968	953	945
7.5	995	963	951	980	992	981	966	932	893	869
10.0	1013	995	974	1014	981	956	909	900	897	868
12.5	1112	1055	1035	1081	1003	926	900	907	892	924
15.0	1154	1101	1084	1100	1010	976	917	968	979	994
17.5	1229	1181	1171	1161	1039	982	1050	1026	1025	1066
20.0	1302	1226	1229	1179	1081	1063	1060	1084	1105	1133
22.5	1382	1332	1322	1225	1105	1129	1129	1183	1165	1237
25.0	1420	1413	1370	1233	1156	1154	1204	1218	1264	1299
27.5	1506	1454	1458	1286	1175	1216	1251	1308	1317	1398
30.0	1550	1492	1510	1349	1225	1280	1327	1342	1397	1454
32.5	1555	1507	1514	1380	1258	1313	1347	1415	1492	1573
35.0	1569	1502	1522	1366	1253	1325	1401	1481	1536	1609
37.5	1566	1510	1538	1344	1243	1317	1421	1491	1548	1636
40.0	1555	1547	1519	1310	1236	1295	1432	1476	1557	1677
42.5	1594	1524	1526	1286	1210	1282	1406	1459	1572	1819
45.0	1611	1528	1540	1287	1153	1291	1376	1432	1608	1950
47.5	1645	1571	1509	1265	1112	1275	1340	1391	1743	1755
50.0	1695	1626	1520	1258	1066	1228	1292	1355	1734	1594
52.5	1822	1669	1580	1256	1044	1188	1233	1359	1614	1481
55.0	1945	1770	1621	1222	1027	1139	1168	1359	1485	1387
57.5	2110	1873	1658	1191	981	1064	1096	1310	1369	1299
60.0	2261	1952	1723	1164	917	970	1006	1222	1255	1205
62.5	2354	1987	1696	1116	840	877	913	1128	1138	1112
65.0	2314	1934	1573	1024	754	778	819	1032	1021	1020
67.5	2089	1672	1366	898	683	689	736	946	896	904
70.0	1646	1234	972	751	606	621	661	851	761	822
72.5	1058	832	609	592	522	545	581	734	663	745
75.0	592	516	442	470	451	456	510	631	529	604
77.5	391	352	312	371	364	374	427	492	436	559

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CANDELA TABULATION - (Cont.)

80.0	313	277	242	307	292	294	337	367	376	493
82.5	245	216	196	267	252	246	271	286	326	405
85.0	205	150	171	229	211	207	215	226	278	312
87.5	164	84	157	184	177	172	183	177	188	225
90.0	107	64	132	151	148	140	152	148	143	139
92.5	85	98	118	146	143	133	143	140	133	125
95.0	86	121	111	141	138	124	138	136	131	124
97.5	96	122	110	130	130	115	131	130	128	119
100.0	100	115	109	115	123	110	126	126	124	114
102.5	96	107	104	102	115	108	122	122	121	108
105.0	91	99	97	94	106	105	117	119	117	100
107.5	85	91	92	89	98	102	114	117	114	93
110.0	79	85	86	85	92	98	111	115	111	87
112.5	75	79	81	81	86	95	107	113	108	81
115.0	71	75	77	79	82	92	103	110	104	76
117.5	68	72	73	77	79	90	100	106	98	73
120.0	65	69	71	75	78	88	96	101	92	71
122.5	63	66	69	74	77	86	93	95	84	69
125.0	62	64	67	72	77	85	91	90	77	68
127.5	62	64	66	72	76	84	87	84	71	67
130.0	62	64	67	72	76	83	84	79	67	66
132.5	64	65	68	72	75	80	81	73	64	65
135.0	66	67	69	73	73	72	73	69	64	65
137.5	67	69	70	71	67	62	61	61	63	65
140.0	62	64	64	62	57	51	47	49	54	60
142.5	52	54	53	51	45	38	34	36	43	50
145.0	40	41	42	38	33	28	24	26	32	38
147.5	28	28	29	27	23	17	15	18	22	27
150.0	17	17	17	17	13	7	6	11	15	17
152.5	9	9	9	8	5	2	2	3	7	11
155.0	4	4	4	3	2	2	1	1	1	2
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	1	0	0	0
162.5	2	2	2	2	2	1	1	0	0	0
165.0	2	2	2	2	2	1	1	0	0	0
167.5	2	2	2	2	2	1	1	0	0	0
170.0	2	2	2	2	2	1	1	0	0	0
172.5	2	2	2	2	2	1	1	0	0	0
175.0	2	2	2	2	2	1	1	0	0	0
177.5	2	2	2	2	2	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	935	935
2.5	923	932
5.0	944	937
7.5	873	869
10.0	879	884
12.5	932	937
15.0	998	960
17.5	1050	1102
20.0	1131	1106
22.5	1236	1236
25.0	1311	1297

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CANDELA TABULATION - (Cont.)

27.5	1428	1446
30.0	1516	1513
32.5	1625	1628
35.0	1668	1675
37.5	1705	1731
40.0	1786	1844
42.5	1945	1959
45.0	1752	1746
47.5	1618	1625
50.0	1536	1537
52.5	1457	1455
55.0	1378	1377
57.5	1292	1284
60.0	1200	1194
62.5	1108	1106
65.0	1024	1019
67.5	904	893
70.0	833	820
72.5	714	657
75.0	589	561
77.5	584	559
80.0	560	533
82.5	471	452
85.0	363	361
87.5	253	271
90.0	118	99
92.5	79	62
95.0	78	72
97.5	75	81
100.0	74	85
102.5	73	87
105.0	74	87
107.5	75	85
110.0	77	83
112.5	77	81
115.0	77	79
117.5	76	77
120.0	75	76
122.5	74	75
125.0	73	73
127.5	71	72
130.0	69	69
132.5	67	68
135.0	66	66
137.5	66	66
140.0	63	64
142.5	53	53
145.0	41	42
147.5	31	31
150.0	19	20
152.5	13	13
155.0	4	4
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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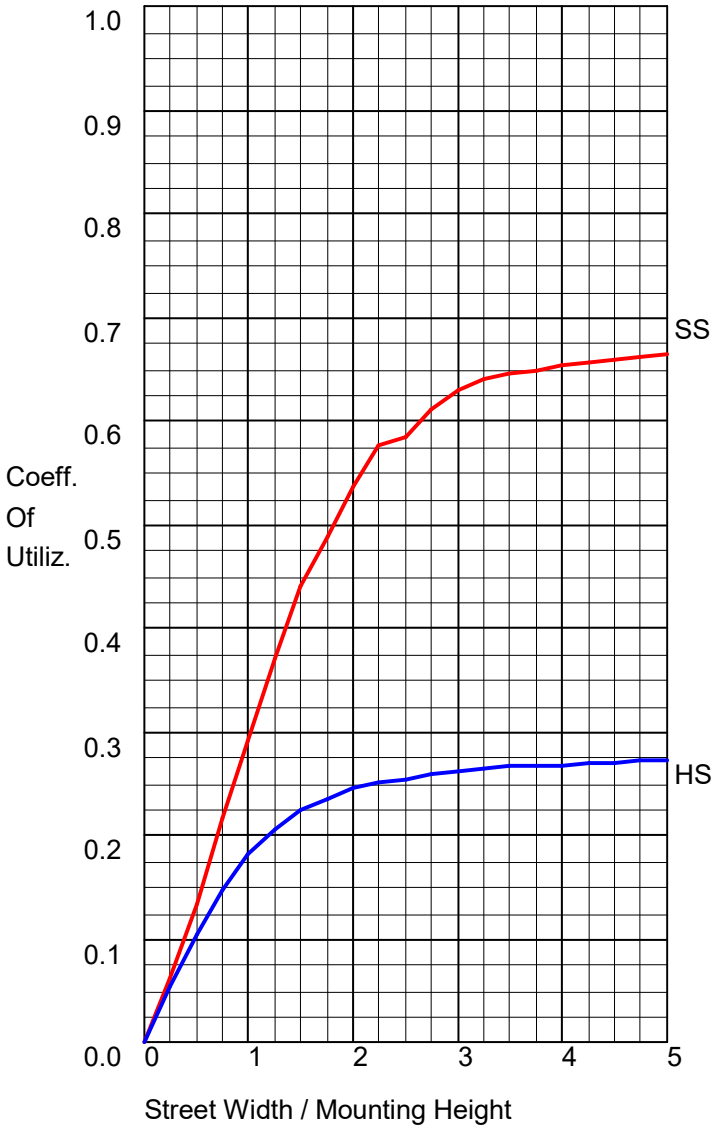
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7193.4	67.6
Downward House Side	3005.6	28.2
Downward Total	10199.0	95.8
Upward Street Side	203.4	1.9
Upward House Side	240.8	2.3
Upward Total	444.2	4.2
Total Flux	10643.2	100.0

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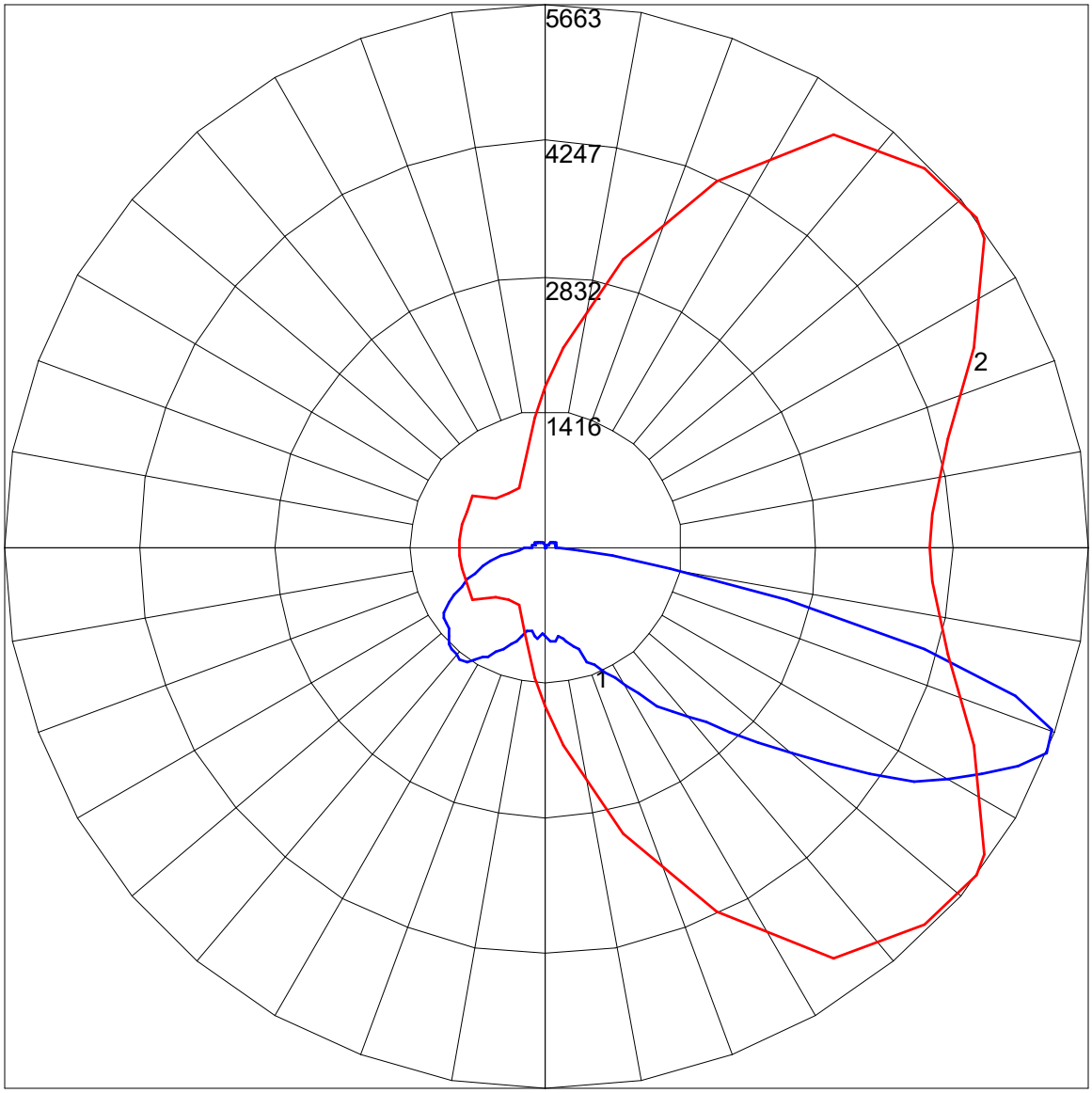
POLAR GRAPH



Maximum Candela = 5663 Located At Horizontal Angle = 37.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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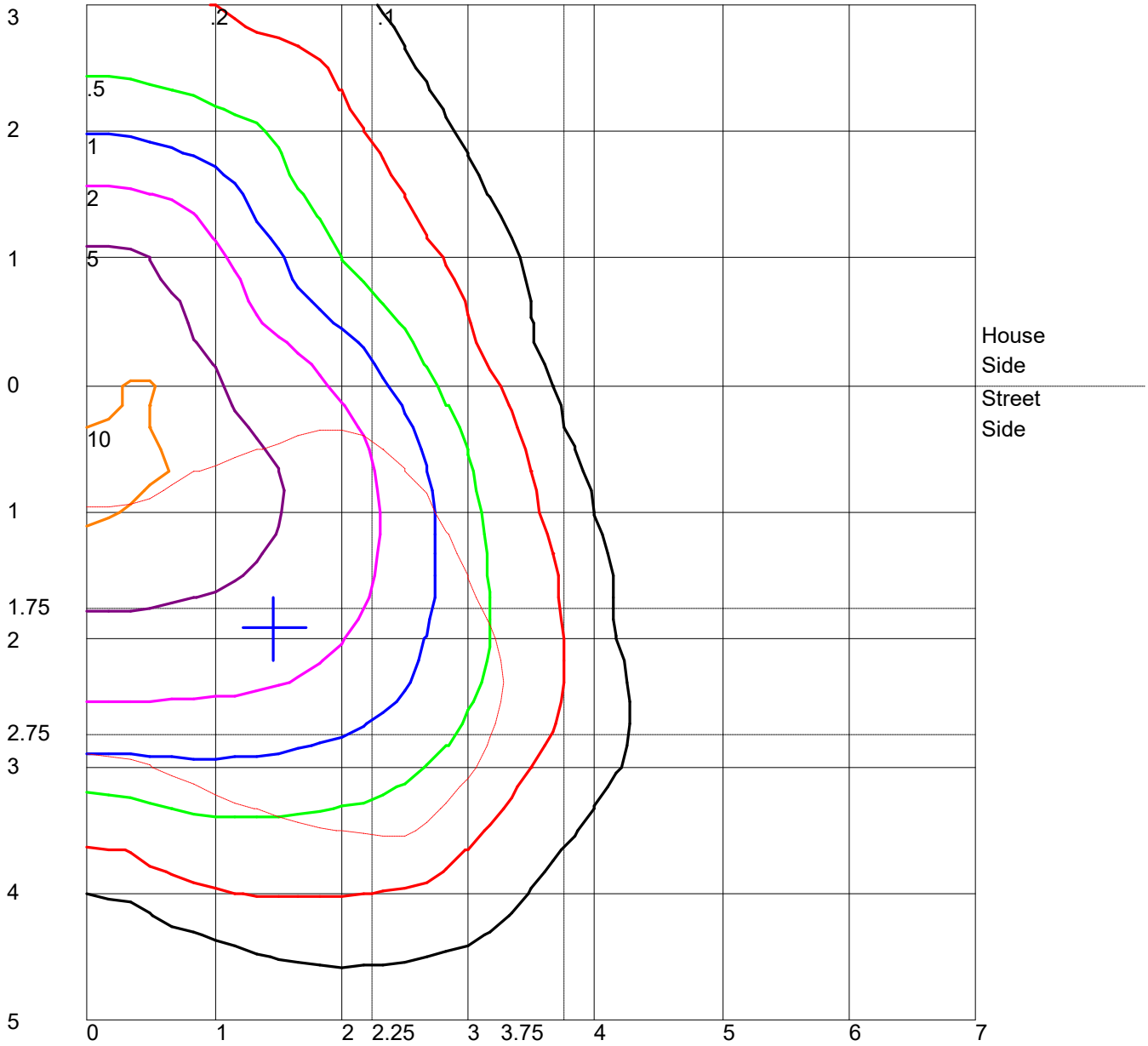
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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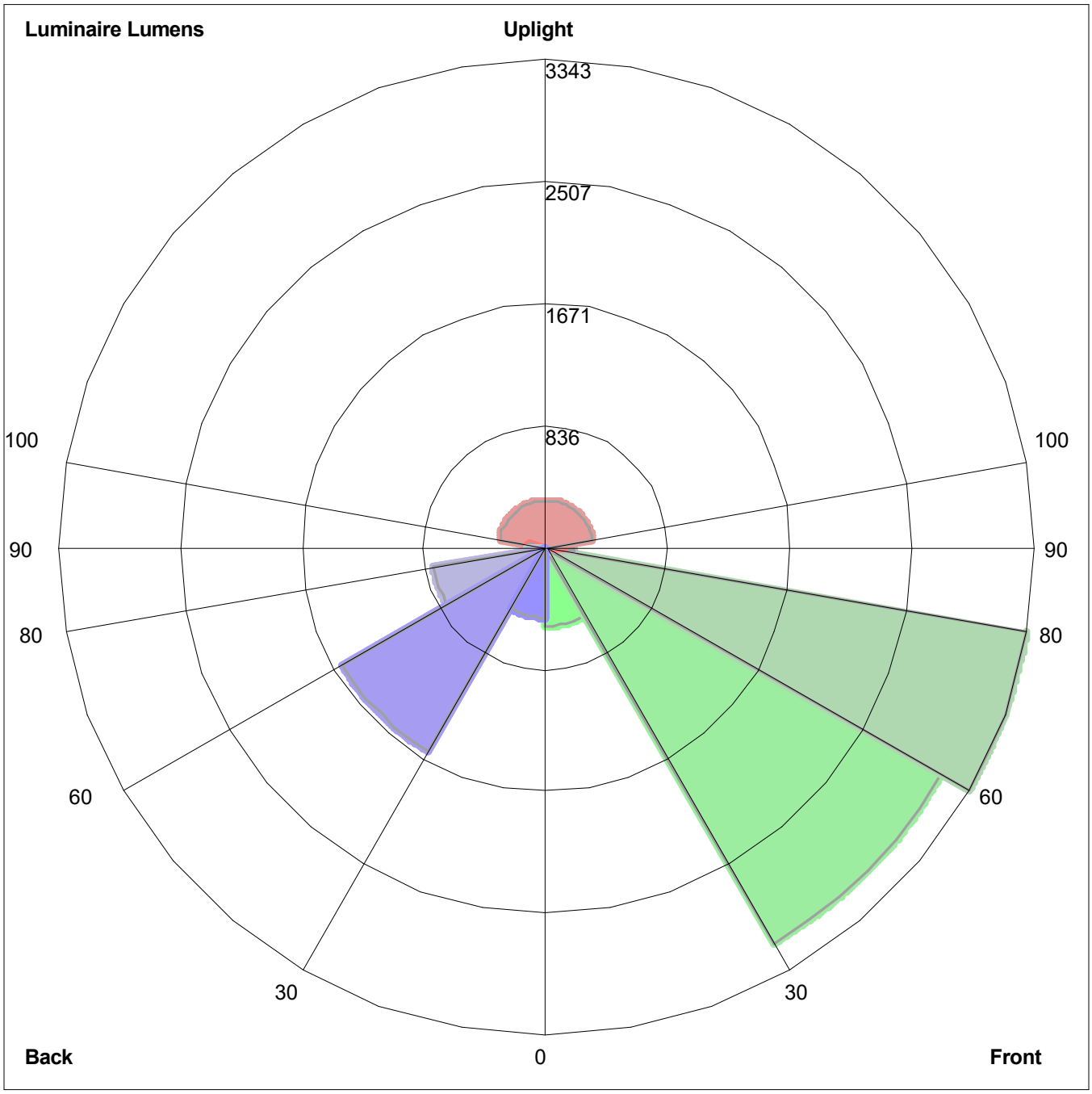
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=537.9, Medium=3128.2, High=3342.6, Very High=184.7
Back: Low=480.8, Medium=1609.2, High=781.0, Very High=134.5
Uplight: Low=122.5, High=321.7

BUG Rating : B2-U3-G2

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