



IES ROAD REPORT  
PHOTOMETRIC FILENAME : XLCW-S-LED-SS-CW-UE.IES

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-6648  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]02/27/15  
[TEST DATE]02/27/15  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XLCW-S-LED-SS-CW-UE  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]3806

**CHARACTERISTICS**

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3806
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	41.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1403
Maximum Candela Angle	85H 7.5V
Maximum Candela (<90 Degrees Vertical)	1403
Maximum Candela Angle (<90 Degrees Vertical)	85H 7.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	181 (4.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	571.7	N.A.	15.0
FM - Front-Medium (30-60)	1136.2	N.A.	29.9
FH - Front-High (60-80)	317.6	N.A.	8.3
FVH - Front-Very High (80-90)	55.0	N.A.	1.4
BL - Back-Low (0-30)	568.2	N.A.	14.9
BM - Back-Medium (30-60)	982.2	N.A.	25.8
BH - Back-High (60-80)	168.5	N.A.	4.4
BVH - Back-Very High (80-90)	6.1	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3805.5	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>0</u></b>	<b><u>5</u></b>	<b><u>10</u></b>	<b><u>15</u></b>	<b><u>25</u></b>	<b><u>35</u></b>	<b><u>45</u></b>	<b><u>55</u></b>	<b><u>65</u></b>	<b><u>75</u></b>
<b>0.0</b>	1372	1372	1372	1372	1372	1372	1372	1372	1372	1372
<b>2.5</b>	1352	1352	1353	1354	1364	1372	1380	1386	1393	1395
<b>5.0</b>	1359	1358	1359	1360	1369	1376	1383	1389	1395	1397
<b>7.5</b>	1365	1363	1365	1366	1374	1380	1387	1391	1396	1397
<b>10.0</b>	1369	1367	1368	1369	1377	1383	1389	1392	1396	1397
<b>12.5</b>	1370	1368	1369	1370	1378	1384	1389	1393	1396	1395
<b>15.0</b>	1369	1366	1368	1369	1377	1382	1388	1391	1393	1391
<b>17.5</b>	1363	1361	1363	1364	1372	1378	1384	1387	1389	1386
<b>20.0</b>	1353	1351	1353	1355	1364	1370	1377	1381	1382	1379
<b>22.5</b>	1339	1336	1338	1340	1350	1358	1366	1371	1373	1369
<b>25.0</b>	1318	1317	1320	1322	1332	1342	1352	1358	1362	1357
<b>27.5</b>	1296	1293	1297	1300	1310	1321	1332	1342	1346	1342
<b>30.0</b>	1267	1265	1269	1272	1283	1296	1309	1320	1327	1324
<b>32.5</b>	1235	1234	1238	1241	1251	1265	1279	1292	1301	1300
<b>35.0</b>	1197	1196	1200	1204	1215	1228	1244	1259	1272	1273
<b>37.5</b>	1155	1152	1157	1162	1174	1189	1203	1222	1238	1242
<b>40.0</b>	1109	1106	1111	1116	1129	1143	1159	1180	1200	1204
<b>42.5</b>	1059	1056	1061	1065	1079	1094	1113	1135	1157	1164
<b>45.0</b>	1008	1004	1008	1012	1020	1040	1061	1084	1109	1119
<b>47.5</b>	955	951	954	956	964	981	1004	1030	1057	1065
<b>50.0</b>	889	882	887	892	907	920	943	971	999	1010
<b>52.5</b>	641	674	734	793	838	858	875	903	936	948
<b>55.0</b>	517	518	520	521	667	787	808	834	866	881
<b>57.5</b>	479	480	481	482	483	651	739	758	790	810
<b>60.0</b>	438	436	439	441	443	445	658	682	714	735
<b>62.5</b>	395	393	395	397	400	403	430	607	633	655
<b>65.0</b>	346	345	347	349	351	357	360	523	551	568
<b>67.5</b>	224	223	222	221	275	309	316	340	468	484
<b>70.0</b>	213	213	211	209	203	219	268	271	387	400
<b>72.5</b>	203	202	201	199	192	182	196	227	273	315
<b>75.0</b>	194	194	192	190	183	172	158	175	177	239
<b>77.5</b>	187	186	185	183	175	163	148	128	134	169
<b>80.0</b>	181	180	179	177	169	156	139	118	97	95
<b>82.5</b>	172	171	169	166	157	146	133	110	84	60
<b>85.0</b>	170	169	167	164	155	142	123	102	77	47
<b>87.5</b>	165	164	162	160	151	138	120	98	71	41
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>95</u></b>	<b><u>105</u></b>	<b><u>115</u></b>	<b><u>125</u></b>	<b><u>135</u></b>	<b><u>145</u></b>	<b><u>155</u></b>	<b><u>165</u></b>
<b>0.0</b>	1372	1372	1372	1372	1372	1372	1372	1372	1372	1372
<b>2.5</b>	1402	1401	1398	1394	1392	1387	1377	1367	1352	1347
<b>5.0</b>	1403	1402	1399	1395	1392	1387	1376	1366	1350	1346
<b>7.5</b>	1403	1402	1398	1394	1391	1386	1375	1365	1350	1345
<b>10.0</b>	1402	1400	1396	1392	1389	1385	1374	1364	1349	1344
<b>12.5</b>	1400	1397	1393	1389	1386	1382	1372	1363	1348	1343
<b>15.0</b>	1396	1393	1388	1384	1381	1378	1368	1360	1345	1341
<b>17.5</b>	1389	1386	1381	1377	1375	1372	1362	1355	1342	1339
<b>20.0</b>	1381	1377	1373	1369	1367	1365	1356	1351	1340	1339
<b>22.5</b>	1371	1367	1362	1358	1358	1355	1349	1348	1338	1339
<b>25.0</b>	1358	1354	1348	1345	1346	1345	1343	1342	1333	1334
<b>27.5</b>	1342	1338	1332	1329	1331	1332	1334	1333	1324	1325

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**CANDELA TABULATION - (Cont.)**

30.0	1322	1317	1311	1309	1310	1317	1321	1320	1311	1312
32.5	1298	1293	1286	1285	1287	1298	1303	1301	1293	1295
35.0	1270	1263	1257	1258	1261	1274	1280	1278	1271	1276
37.5	1237	1231	1225	1225	1233	1248	1253	1253	1248	1247
40.0	1202	1195	1189	1190	1203	1218	1222	1226	1216	1216
42.5	1161	1155	1146	1151	1170	1184	1190	1188	1182	637
45.0	1109	1099	1092	1107	1133	1147	1154	1148	615	610
47.5	1053	1043	1036	1054	1091	1106	1110	595	587	582
50.0	995	987	981	1001	1044	1063	1063	564	554	73
52.5	936	931	927	944	992	1010	543	533	67	59
55.0	874	870	867	890	936	955	508	65	52	37
57.5	803	797	795	832	872	602	182	51	28	8
60.0	726	724	724	766	809	530	99	29	3	1
62.5	646	652	654	691	744	390	72	6	2	0
65.0	560	551	560	620	571	244	40	5	1	0
67.5	468	471	476	546	483	193	24	3	0	0
70.0	381	378	386	467	403	144	14	2	0	0
72.5	298	293	306	386	326	109	9	2	0	0
75.0	219	212	227	312	251	82	7	1	0	0
77.5	151	143	155	235	174	58	6	0	0	0
80.0	92	85	92	150	102	39	4	0	0	0
82.5	43	30	35	71	41	12	3	0	0	0
85.0	22	9	10	19	10	5	1	0	0	0
87.5	13	3	1	2	4	2	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

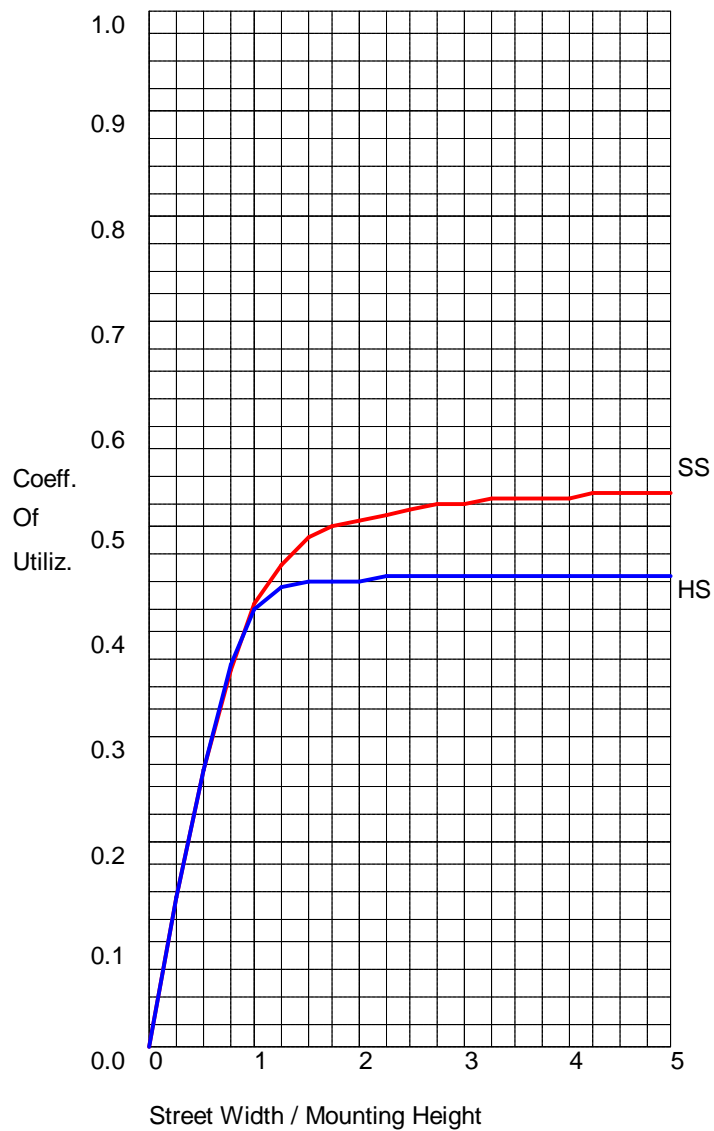
	<b>175</b>	<b>180</b>
0.0	1372	1372
2.5	1345	1341
5.0	1343	1340
7.5	1342	1339
10.0	1342	1340
12.5	1340	1338
15.0	1338	1336
17.5	1338	1336
20.0	1339	1337
22.5	1337	1336
25.0	1332	1332
27.5	1324	1324
30.0	1311	1311
32.5	1294	1293
35.0	1274	1272
37.5	1245	1244
40.0	1214	1212
42.5	632	633
45.0	606	606
47.5	554	492
50.0	70	69
52.5	53	53
55.0	28	28
57.5	2	1
60.0	1	0
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	0	0
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

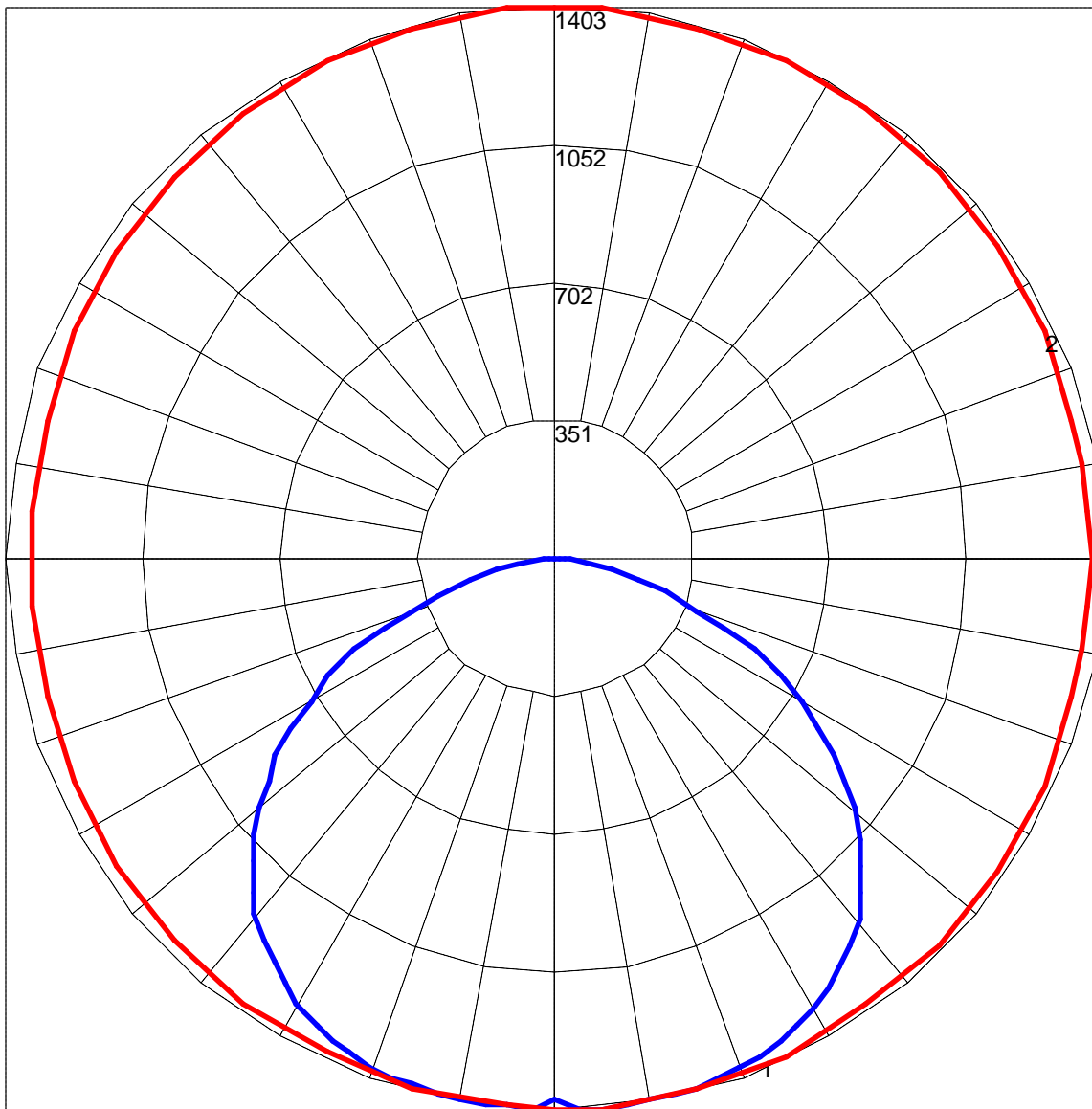
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

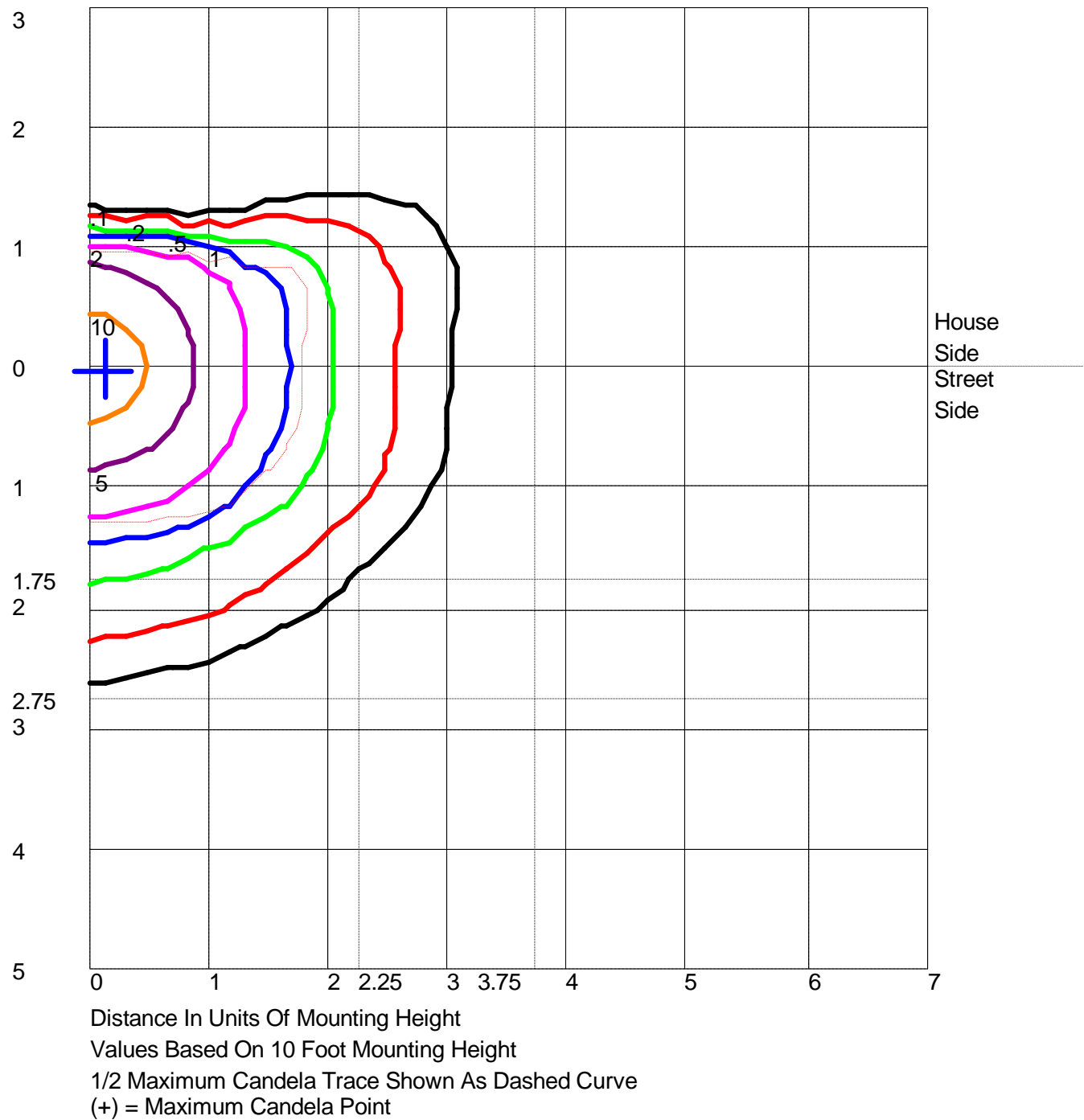
	Lumens	Percent Of Luminaire
Downward Street Side	2080.4	54.7
Downward House Side	1725.1	45.3
Downward Total	3805.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3805.5	100.0

POLAR GRAPH



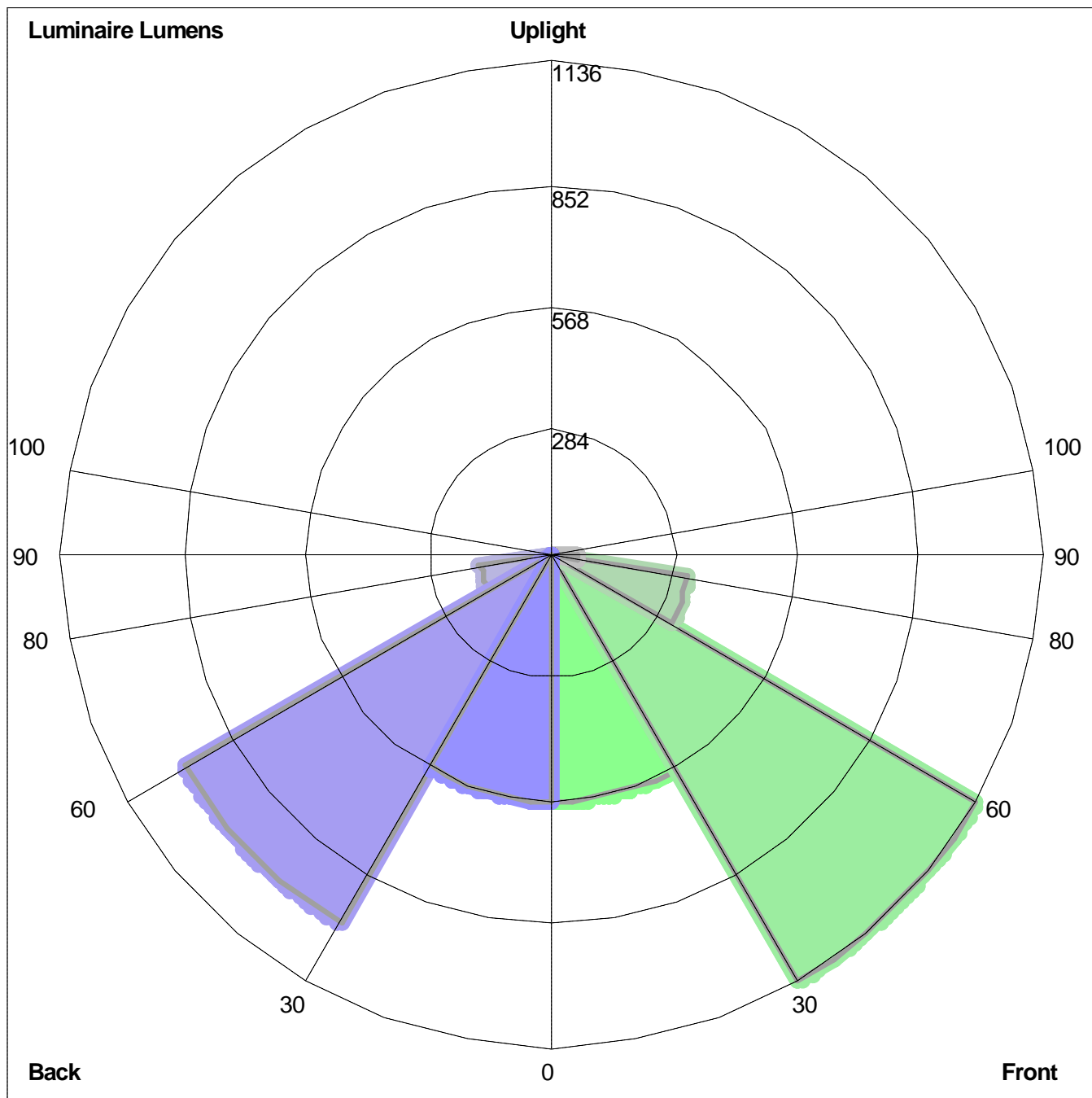
Maximum Candela = 1403 Located At Horizontal Angle = 85, Vertical Angle = 7.5  
# 1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=571.7, Medium=1136.2, High=317.6, Very High=55.0  
Back: Low=568.2, Medium=982.2, High=168.5, Very High=6.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1