



IES ROAD REPORT  
PHOTOMETRIC FILENAME : XPWS3-WW-LED-28-450-NW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-3071  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]05/08/12  
[TEST DATE]03/12/12  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XPWS3-WW-LED-28-450-NW-UE  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[LED DRIVER]ELECTRONIC LED DRIVER

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3708
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1661
Maximum Candela Angle	118H 37V
Maximum Candela (<90 Degrees Vertical)	1661
Maximum Candela Angle (<90 Degrees Vertical)	118H 37V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	8 (0.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	564.2	N.A.	15.2
FM - Front-Medium (30-60)	1204.3	N.A.	32.5
FH - Front-High (60-80)	96.6	N.A.	2.6
FVH - Front-Very High (80-90)	2.5	N.A.	0.1
BL - Back-Low (0-30)	561.4	N.A.	15.1
BM - Back-Medium (30-60)	1184.4	N.A.	31.9
BH - Back-High (60-80)	92.5	N.A.	2.5
BVH - Back-Very High (80-90)	2.3	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3708.2	N.A.	100.0
BUG Rating	B2-U0-G0		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>	<u><b>85</b></u>
<b>0.0</b>	1297	1297	1297	1297	1297	1297	1297	1297	1297	1297
<b>2.5</b>	1287	1283	1288	1284	1290	1294	1295	1302	1304	1303
<b>5.0</b>	1279	1276	1282	1273	1284	1289	1291	1296	1294	1293
<b>7.5</b>	1267	1264	1269	1261	1270	1276	1279	1289	1287	1282
<b>10.0</b>	1259	1255	1260	1259	1263	1270	1272	1282	1282	1277
<b>12.5</b>	1254	1250	1257	1262	1261	1266	1269	1278	1280	1275
<b>15.0</b>	1257	1253	1259	1265	1263	1268	1271	1281	1281	1277
<b>17.5</b>	1270	1265	1272	1277	1276	1280	1283	1290	1287	1283
<b>20.0</b>	1302	1296	1302	1302	1299	1317	1299	1303	1298	1295
<b>22.5</b>	1359	1352	1357	1353	1343	1341	1333	1334	1326	1321
<b>25.0</b>	1408	1405	1415	1415	1402	1392	1385	1386	1372	1366
<b>27.5</b>	1425	1424	1436	1453	1452	1441	1437	1441	1422	1414
<b>30.0</b>	1411	1410	1424	1464	1478	1477	1475	1484	1462	1456
<b>32.5</b>	1425	1425	1449	1495	1515	1523	1525	1538	1514	1503
<b>35.0</b>	1482	1482	1519	1570	1569	1579	1590	1612	1572	1546
<b>37.0</b>	1474	1475	1515	1580	1573	1585	1606	1633	1566	1541
<b>37.5</b>	1469	1469	1510	1577	1569	1581	1603	1631	1571	1539
<b>40.0</b>	1298	1297	1337	1420	1427	1440	1464	1488	1416	1391
<b>42.5</b>	1095	1092	1118	1199	1211	1215	1234	1250	1163	1149
<b>45.0</b>	973	971	980	1057	1066	1058	1067	1085	987	986
<b>47.5</b>	896	896	902	972	979	971	976	998	902	903
<b>50.0</b>	821	820	837	902	903	886	900	923	836	833
<b>52.5</b>	752	750	770	834	820	798	817	843	771	760
<b>55.0</b>	627	628	682	763	724	707	720	763	712	690
<b>57.5</b>	518	517	552	637	638	633	632	683	664	627
<b>60.0</b>	454	459	483	499	511	540	538	584	599	564
<b>62.5</b>	283	284	290	297	275	316	316	352	362	357
<b>65.0</b>	76	74	80	91	92	98	105	110	101	92
<b>67.5</b>	44	42	41	41	44	50	47	46	47	48
<b>70.0</b>	26	24	23	22	24	34	26	24	27	29
<b>72.5</b>	16	15	15	14	15	24	18	16	17	18
<b>75.0</b>	11	10	11	10	12	16	14	11	12	12
<b>77.5</b>	9	8	8	8	10	10	12	9	10	9
<b>80.0</b>	7	6	6	7	7	8	8	8	7	7
<b>82.5</b>	5	5	5	6	6	6	6	7	6	6
<b>85.0</b>	5	5	5	5	5	5	4	5	5	4
<b>87.5</b>	5	5	4	4	5	4	4	4	4	4
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>90</b></u>	<u><b>95</b></u>	<u><b>105</b></u>	<u><b>115</b></u>	<u><b>118</b></u>	<u><b>125</b></u>	<u><b>135</b></u>	<u><b>145</b></u>	<u><b>155</b></u>	<u><b>165</b></u>
<b>0.0</b>	1297	1297	1297	1297	1297	1297	1297	1297	1297	1297
<b>2.5</b>	1300	1304	1305	1301	1302	1300	1295	1296	1293	1294
<b>5.0</b>	1289	1292	1292	1287	1288	1286	1280	1281	1278	1281
<b>7.5</b>	1278	1282	1281	1276	1278	1275	1268	1268	1265	1268
<b>10.0</b>	1272	1276	1275	1271	1272	1270	1262	1263	1258	1261
<b>12.5</b>	1270	1274	1275	1270	1270	1268	1261	1263	1257	1259
<b>15.0</b>	1273	1278	1278	1273	1274	1272	1263	1265	1260	1261
<b>17.5</b>	1280	1284	1286	1281	1283	1280	1272	1271	1269	1270
<b>20.0</b>	1292	1295	1298	1294	1297	1295	1295	1285	1284	1282
<b>22.5</b>	1318	1321	1325	1324	1327	1325	1320	1318	1314	1314
<b>25.0</b>	1363	1365	1372	1378	1382	1378	1376	1373	1373	1368

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**CANDELA TABULATION - (Cont.)**

27.5	1412	1415	1426	1437	1441	1441	1438	1443	1437	1427
30.0	1456	1457	1473	1487	1496	1499	1498	1503	1495	1480
32.5	1503	1506	1528	1552	1562	1561	1557	1566	1558	1528
35.0	1546	1550	1585	1626	1635	1628	1611	1622	1588	1516
37.0	1544	1546	1586	1649	1661	1644	1625	1616	1562	1499
37.5	1541	1543	1584	1647	1659	1644	1625	1612	1561	1496
40.0	1397	1400	1444	1532	1549	1532	1521	1471	1446	1314
42.5	1160	1159	1191	1292	1309	1302	1282	1253	1151	1037
45.0	994	990	1003	1099	1109	1099	1076	1008	940	864
47.5	907	905	914	999	1006	992	963	864	850	779
50.0	836	834	849	924	928	915	812	796	786	720
52.5	765	761	784	847	847	827	700	721	717	663
55.0	696	690	722	769	768	692	613	633	652	609
57.5	631	627	675	689	687	559	547	554	591	564
60.0	562	562	603	584	556	464	462	466	505	500
62.5	349	357	361	336	310	268	265	271	304	296
65.0	93	95	101	102	100	88	85	89	90	77
67.5	52	48	48	44	43	41	44	41	39	38
70.0	32	29	27	24	23	23	29	23	20	21
72.5	21	18	17	15	15	16	22	15	12	13
75.0	14	12	12	11	11	12	15	10	9	9
77.5	11	9	9	9	9	10	9	8	7	7
80.0	8	7	8	8	8	7	6	6	5	5
82.5	6	6	6	6	6	5	5	5	5	5
85.0	5	5	5	5	4	4	4	5	5	4
87.5	4	4	3	4	4	4	4	4	3	4
90.0	0	0	0	0	0	0	0	0	0	0

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

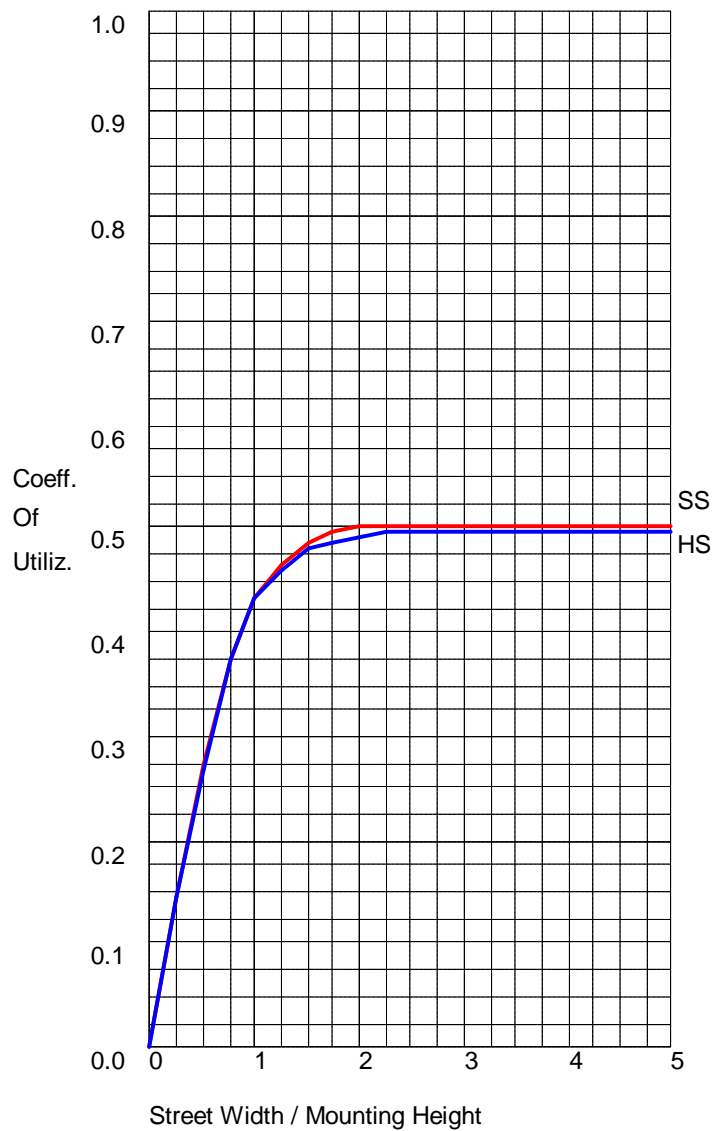
	<u>175</u>	<u>180</u>
0.0	1297	1297
2.5	1290	1293
5.0	1276	1278
7.5	1263	1265
10.0	1256	1258
12.5	1254	1256
15.0	1256	1257
17.5	1266	1267
20.0	1277	1278
22.5	1307	1308
25.0	1360	1360
27.5	1418	1417
30.0	1467	1465
32.5	1489	1482
35.0	1479	1473
37.0	1450	1442
37.5	1441	1433
40.0	1243	1235
42.5	1016	1015
45.0	857	858
47.5	775	774
50.0	712	713
52.5	651	653
55.0	595	598
57.5	540	540

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**CANDELA TABULATION - (Cont.)**

<b>60.0</b>	474	472
<b>62.5</b>	286	285
<b>65.0</b>	75	74
<b>67.5</b>	37	39
<b>70.0</b>	21	22
<b>72.5</b>	13	14
<b>75.0</b>	9	9
<b>77.5</b>	7	7
<b>80.0</b>	5	5
<b>82.5</b>	5	5
<b>85.0</b>	4	5
<b>87.5</b>	4	5
<b>90.0</b>	0	0

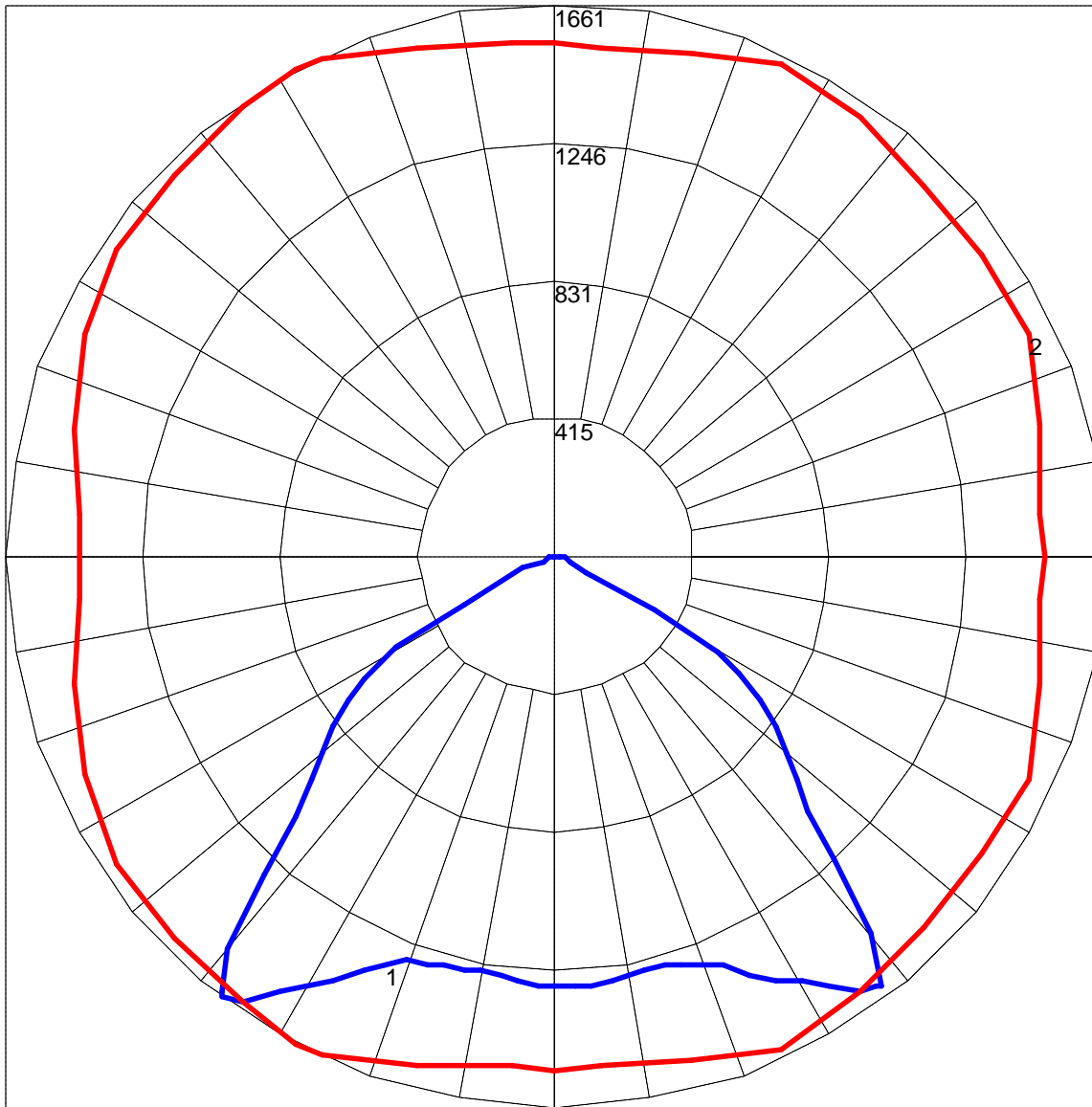
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

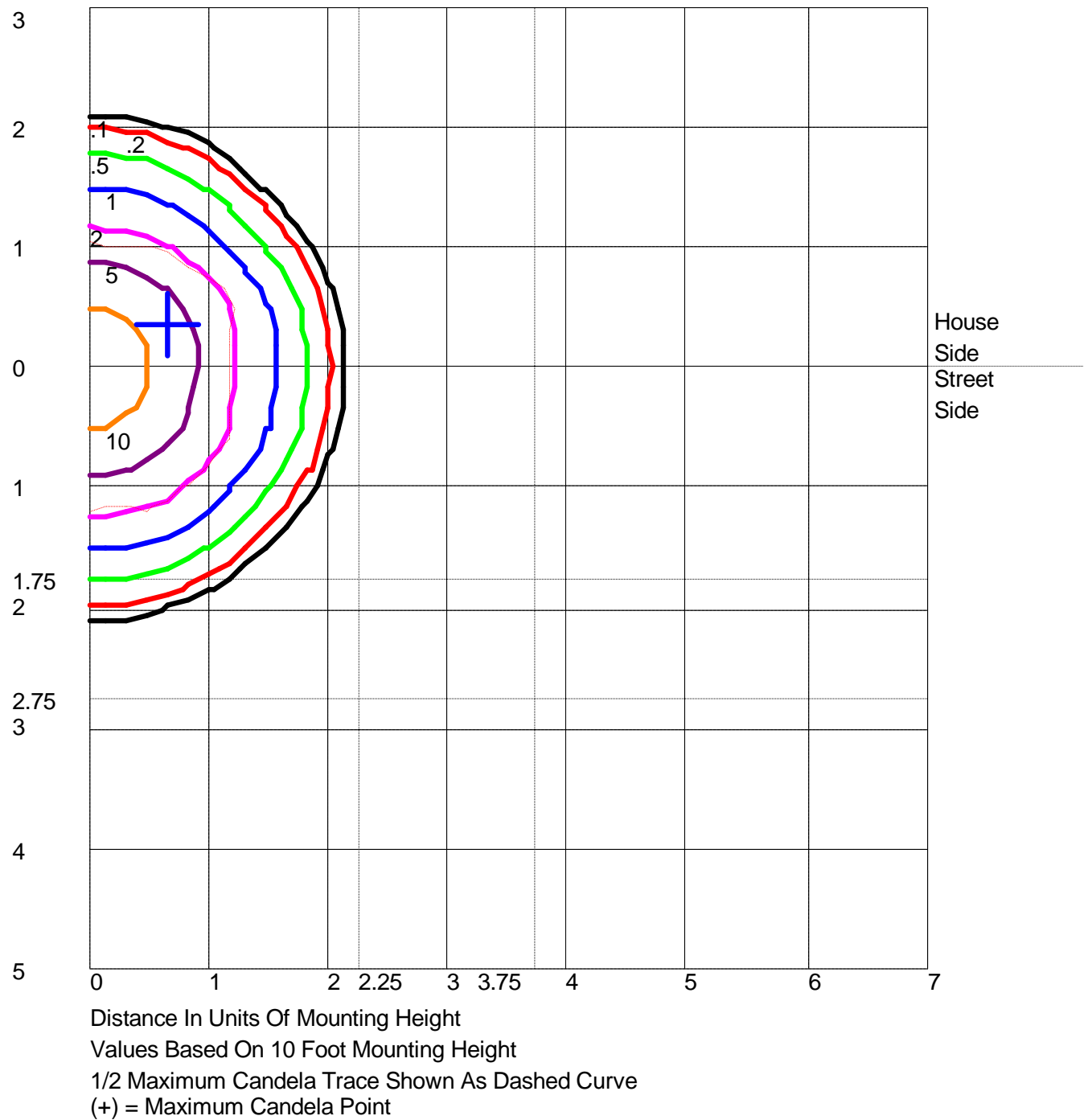
	Lumens	Percent Of Luminaire
Downward Street Side	1867.6	50.4
Downward House Side	1840.6	49.6
Downward Total	3708.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3708.2	100.0

POLAR GRAPH



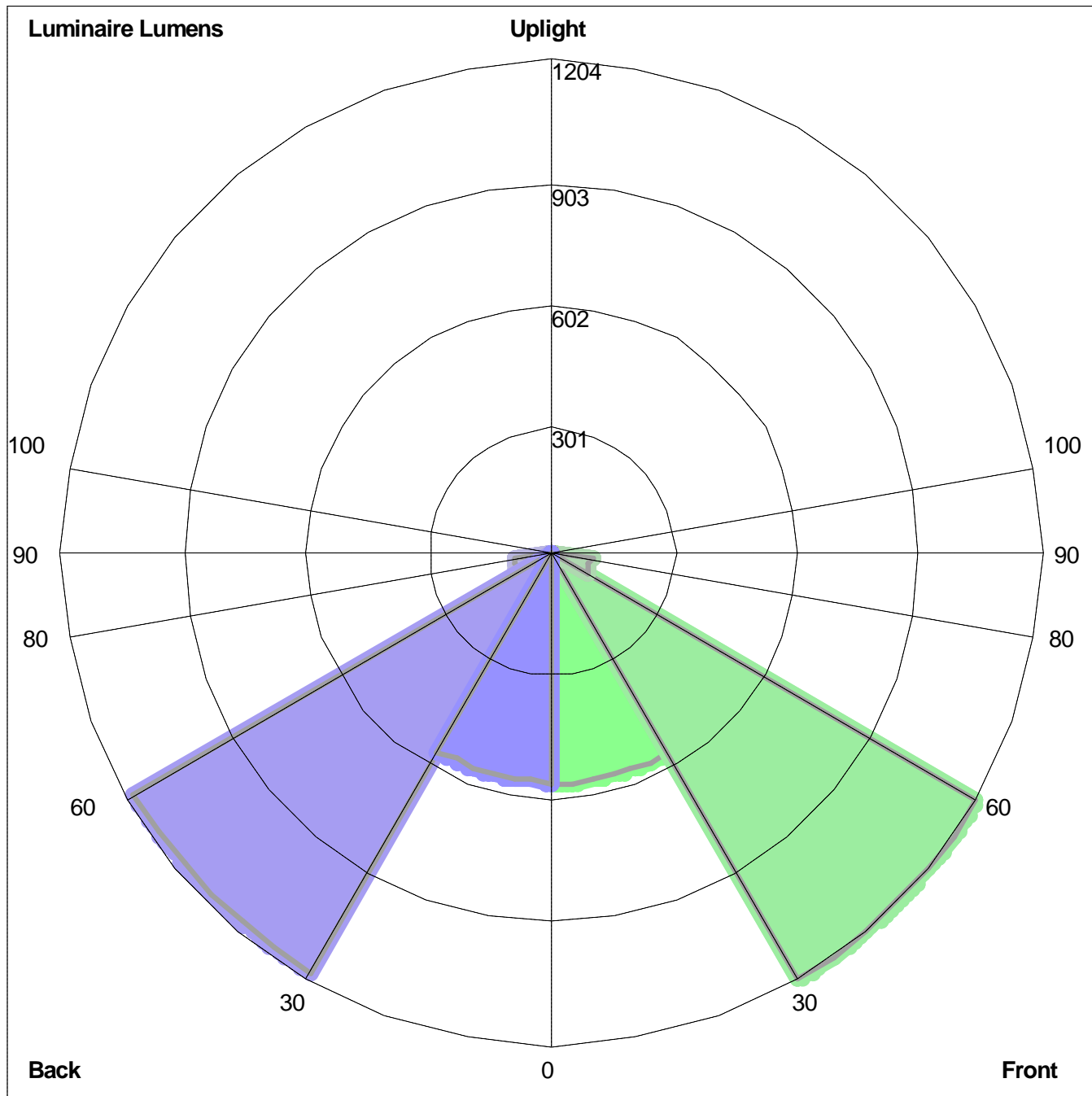
Maximum Candela = 1661 Located At Horizontal Angle = 118, Vertical Angle = 37  
# 1 - Vertical Plane Through Horizontal Angles (118 - 298) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (37) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=564.2, Medium=1204.3, High=96.6, Very High=2.5  
Back: Low=561.4, Medium=1184.4, High=92.5, Very High=2.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G0