



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3059
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/19/12
[TEST DATE]03/19/12
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XPWS3-WW-LED-28-450-CW-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	3844
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1699
Maximum Candela Angle	64H 37.5V
Maximum Candela (<90 Degrees Vertical)	1699
Maximum Candela Angle (<90 Degrees Vertical)	64H 37.5V
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)	578.8	N.A.	15.1
FM - Front-Medium (30-60)	1290.4	N.A.	33.6
FH - Front-High (60-80)	88.7	N.A.	2.3
FVH - Front-Very High (80-90)	2.4	N.A.	0.1
BL - Back-Low (0-30)	572.6	N.A.	14.9
BM - Back-Medium (30-60)	1222.9	N.A.	31.8
BH - Back-High (60-80)	85.9	N.A.	2.2
BVH - Back-Very High (80-90)	2.1	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	3843.8	N.A.	100.0
BUG Rating	B2-U0-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>64</u>	<u>65</u>	<u>75</u>
0.0	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340
2.5	1338	1335	1332	1334	1335	1335	1342	1344	1343	1344
5.0	1325	1322	1321	1313	1321	1322	1332	1335	1335	1337
7.5	1313	1311	1309	1296	1309	1312	1319	1323	1323	1329
10.0	1304	1302	1301	1293	1304	1305	1311	1316	1316	1319
12.5	1298	1297	1296	1299	1301	1301	1308	1313	1313	1315
15.0	1297	1298	1297	1302	1302	1302	1310	1316	1314	1315
17.5	1307	1307	1307	1310	1310	1313	1319	1323	1321	1320
20.0	1332	1330	1331	1331	1329	1346	1332	1337	1335	1331
22.5	1387	1384	1383	1378	1369	1368	1365	1369	1366	1358
25.0	1446	1442	1445	1443	1430	1420	1419	1421	1420	1404
27.5	1477	1474	1480	1490	1484	1473	1469	1468	1468	1450
30.0	1473	1469	1481	1507	1515	1511	1508	1510	1503	1487
32.5	1478	1476	1501	1539	1550	1554	1557	1568	1561	1536
35.0	1518	1517	1552	1613	1611	1615	1624	1644	1646	1599
37.5	1553	1552	1592	1668	1652	1654	1670	1699	1699	1627
40.0	1473	1468	1511	1591	1580	1587	1602	1630	1629	1540
42.5	1283	1274	1299	1387	1385	1392	1407	1425	1420	1311
45.0	1107	1100	1107	1190	1189	1192	1198	1216	1211	1097
47.5	992	987	991	1051	1073	1062	1062	1083	1081	973
50.0	900	897	913	983	983	959	962	990	991	892
52.5	821	817	839	908	884	861	874	901	905	823
55.0	673	672	737	829	780	766	773	816	819	769
57.5	564	565	599	669	680	676	671	723	726	711
60.0	448	453	474	485	493	525	524	570	571	594
62.5	241	241	250	264	245	271	274	303	303	311
65.0	71	67	72	81	82	84	86	89	88	77
67.5	43	40	38	38	42	49	45	43	43	45
70.0	26	24	22	21	24	34	26	24	24	27
72.5	17	15	15	14	16	26	18	16	16	17
75.0	11	10	11	10	12	17	14	11	11	12
77.5	9	7	8	8	10	11	12	10	9	9
80.0	6	6	6	6	7	8	8	8	8	7
82.5	5	5	5	5	5	6	6	7	7	6
85.0	4	4	5	4	4	5	4	5	5	4
87.5	5	4	4	4	4	4	4	4	4	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340
2.5	1347	1345	1347	1348	1343	1343	1335	1338	1336	1337
5.0	1335	1333	1334	1335	1330	1329	1320	1323	1321	1321
7.5	1325	1322	1323	1324	1317	1315	1306	1309	1307	1307
10.0	1316	1314	1315	1316	1307	1307	1299	1301	1298	1298
12.5	1315	1312	1311	1314	1303	1302	1294	1297	1295	1292
15.0	1317	1312	1311	1314	1304	1304	1295	1297	1296	1292
17.5	1322	1316	1315	1319	1311	1312	1302	1304	1301	1300
20.0	1331	1327	1325	1329	1323	1324	1321	1316	1314	1313
22.5	1357	1353	1351	1353	1349	1352	1344	1347	1341	1340
25.0	1398	1395	1392	1398	1400	1402	1398	1398	1394	1386
27.5	1442	1439	1436	1445	1454	1458	1453	1458	1451	1442

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CANDELA TABULATION - (Cont.)

30.0	1477	1476	1473	1485	1498	1510	1507	1510	1504	1485
32.5	1522	1522	1520	1536	1556	1568	1560	1570	1558	1519
35.0	1569	1568	1566	1599	1639	1639	1624	1632	1592	1523
37.5	1590	1590	1591	1630	1696	1685	1665	1643	1595	1525
40.0	1501	1503	1505	1545	1632	1623	1602	1537	1518	1372
42.5	1289	1293	1289	1305	1402	1406	1374	1334	1223	1105
45.0	1088	1090	1082	1082	1174	1175	1139	1059	990	906
47.5	968	968	964	964	1047	1042	1000	897	880	804
50.0	886	886	882	890	965	952	835	819	807	740
52.5	809	811	805	820	884	851	717	734	732	680
55.0	733	737	729	758	802	707	629	638	668	626
57.5	657	660	657	702	714	571	559	560	603	580
60.0	557	554	557	596	577	451	452	454	501	497
62.5	307	302	313	317	303	237	235	244	271	263
65.0	73	75	74	78	83	75	73	75	72	62
67.5	47	52	48	46	42	40	43	40	38	36
70.0	28	32	29	27	24	24	30	25	21	22
72.5	19	21	19	17	15	16	23	16	13	13
75.0	12	14	13	12	11	12	15	10	9	9
77.5	9	11	9	9	9	10	9	8	7	7
80.0	7	8	7	7	7	7	7	6	5	5
82.5	6	6	5	6	6	5	5	5	4	4
85.0	4	5	4	4	4	4	4	4	4	4
87.5	4	4	4	4	3	4	4	3	3	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

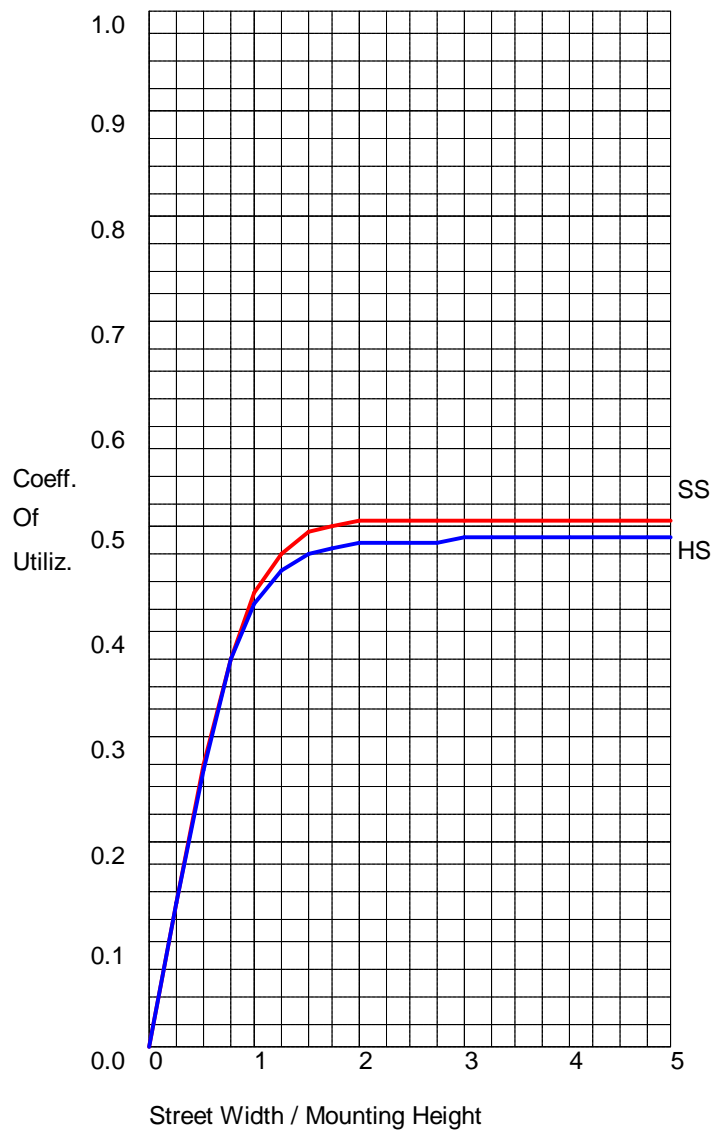
	175	180
0.0	1340	1340
2.5	1330	1328
5.0	1314	1313
7.5	1299	1298
10.0	1290	1288
12.5	1286	1285
15.0	1285	1284
17.5	1291	1289
20.0	1301	1300
22.5	1328	1326
25.0	1373	1369
27.5	1427	1422
30.0	1463	1457
32.5	1470	1459
35.0	1479	1469
37.5	1457	1442
40.0	1285	1272
42.5	1078	1072
45.0	895	891
47.5	797	791
50.0	729	723
52.5	665	662
55.0	605	603
57.5	552	546
60.0	470	463
62.5	254	251
65.0	63	65

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CANDELA TABULATION - (Cont.)

67.5	37	38
70.0	22	23
72.5	14	14
75.0	9	9
77.5	6	7
80.0	5	5
82.5	4	4
85.0	4	3
87.5	4	3
90.0	0	0

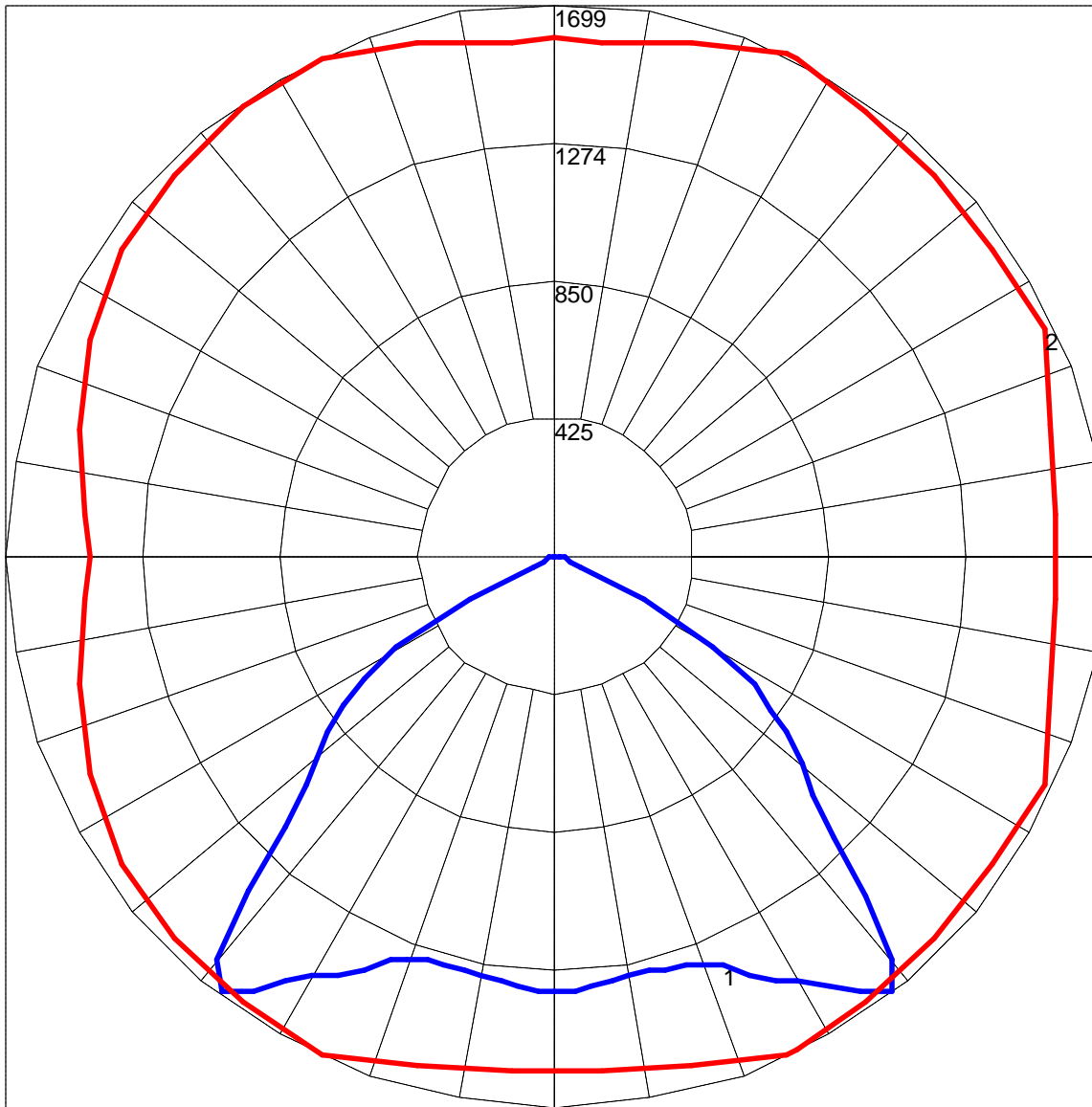
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

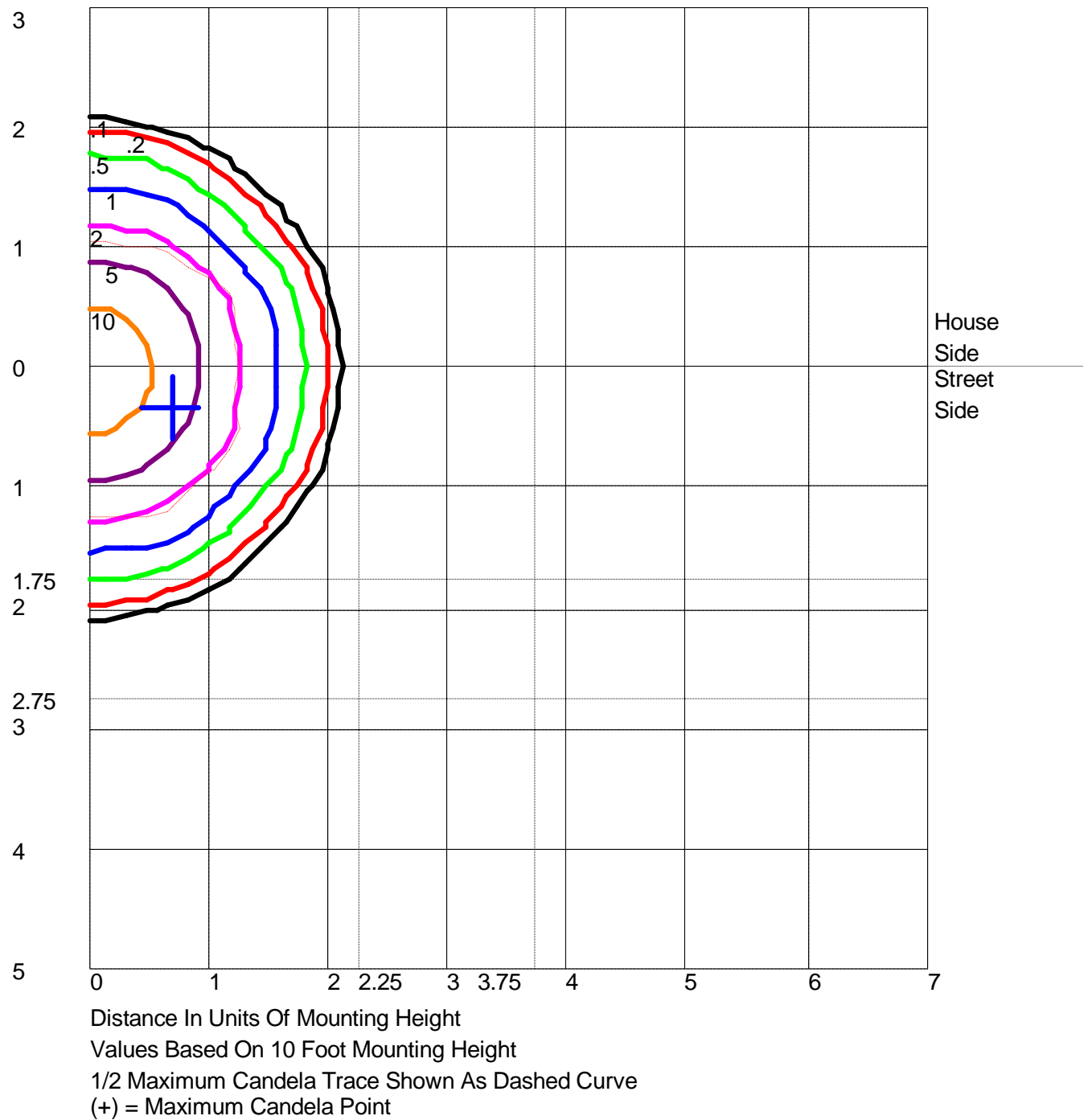
	Lumens	Percent Of Luminaire
Downward Street Side	1960.3	51.0
Downward House Side	1883.5	49.0
Downward Total	3843.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3843.8	100.0

POLAR GRAPH

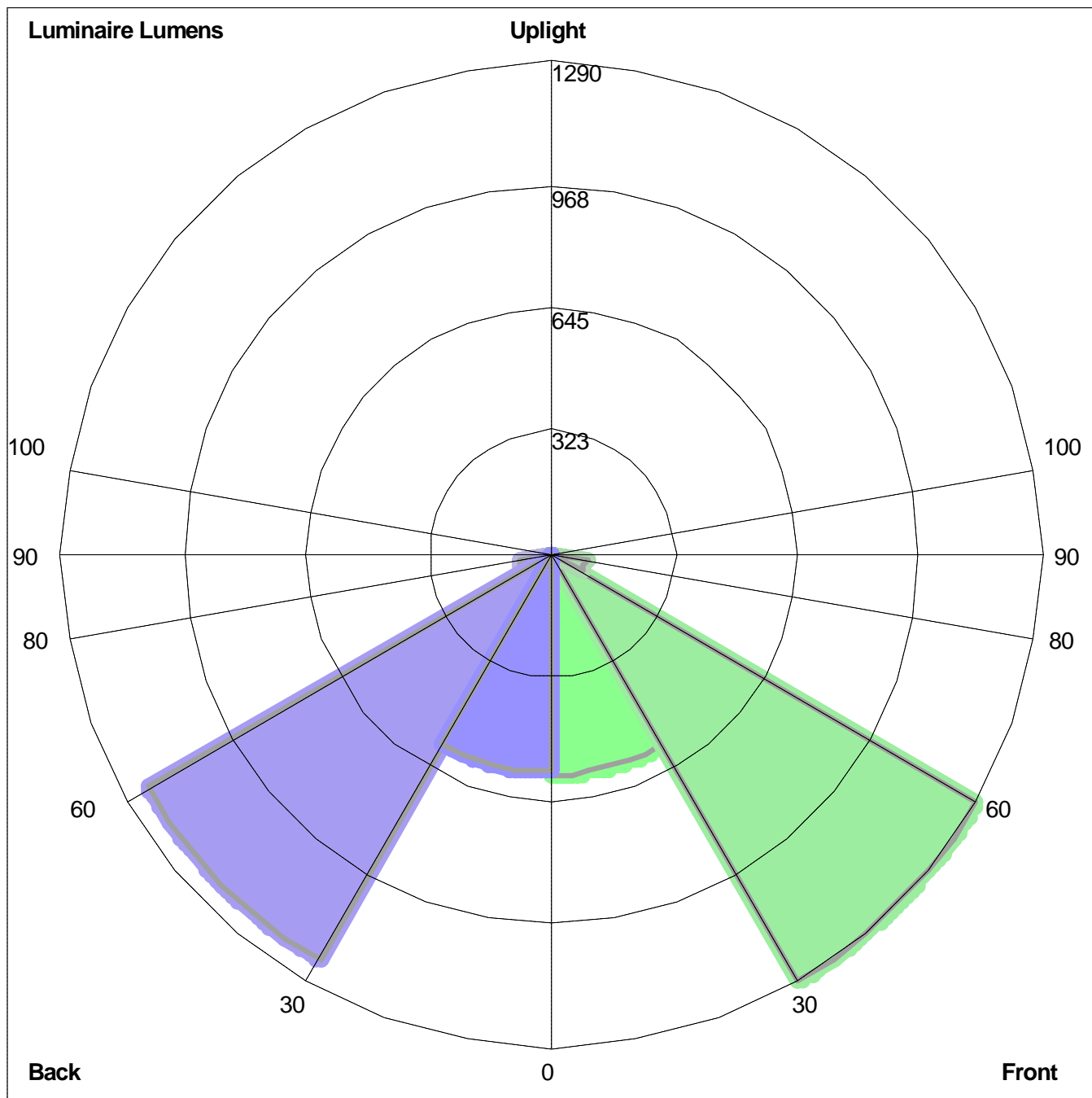


Maximum Candela = 1699 Located At Horizontal Angle = 64, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (64 - 244) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=578.8, Medium=1290.4, High=88.7, Very High=2.4
Back: Low=572.6, Medium=1222.9, High=85.9, Very High=2.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G0