



IES ROAD REPORT  
PHOTOMETRIC FILENAME : XPWS3-WT-LED-48-450-NW-UE.IES

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-3076  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]03/22/12  
[TEST DATE]03/22/12  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XPWS3-WT-LED-48-450-NW-UE  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[LED DRIVER]ELECTRONIC LED DRIVER

**CHARACTERISTICS**

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5678
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3280
Maximum Candela Angle	59H 42V
Maximum Candela (<90 Degrees Vertical)	3280
Maximum Candela Angle (<90 Degrees Vertical)	59H 42V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	277 (4.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : XPWS3-WT-LED-48-450-NW-UE.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	686.8	N.A.	12.1
FM - Front-Medium (30-60)	2263.1	N.A.	39.9
FH - Front-High (60-80)	693.5	N.A.	12.2
FVH - Front-Very High (80-90)	12.5	N.A.	0.2
BL - Back-Low (0-30)	507.5	N.A.	8.9
BM - Back-Medium (30-60)	1177.9	N.A.	20.7
BH - Back-High (60-80)	329.9	N.A.	5.8
BVH - Back-Very High (80-90)	6.6	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	5677.8	N.A.	100.0
BUG Rating	B2-U0-G1		

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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>59</b></u>	<u><b>65</b></u>	<u><b>75</b></u>
<b>0.0</b>	1271	1271	1271	1271	1271	1271	1271	1271	1271	1271
<b>2.5</b>	1271	1262	1265	1264	1271	1279	1284	1284	1291	1292
<b>5.0</b>	1289	1280	1282	1272	1284	1291	1294	1294	1299	1298
<b>7.5</b>	1312	1302	1303	1294	1300	1301	1299	1299	1301	1296
<b>10.0</b>	1357	1347	1346	1340	1333	1322	1309	1305	1304	1297
<b>12.5</b>	1448	1435	1424	1404	1377	1354	1336	1329	1322	1310
<b>15.0</b>	1585	1567	1542	1497	1452	1413	1375	1360	1349	1328
<b>17.5</b>	1764	1744	1705	1636	1570	1500	1416	1390	1368	1351
<b>20.0</b>	1935	1914	1877	1803	1716	1613	1481	1441	1407	1376
<b>22.5</b>	2037	2024	2010	1954	1865	1744	1577	1532	1482	1442
<b>25.0</b>	2080	2067	2065	2039	1995	1878	1719	1654	1574	1506
<b>27.5</b>	2088	2080	2079	2075	2074	2040	1868	1789	1667	1553
<b>30.0</b>	2037	2035	2063	2080	2129	2185	2060	1959	1790	1667
<b>32.5</b>	1897	1908	1962	2028	2191	2343	2305	2222	2034	1894
<b>35.0</b>	1732	1739	1803	1902	2209	2504	2602	2589	2445	2087
<b>37.5</b>	1575	1580	1642	1759	2125	2633	2920	2978	2859	2246
<b>40.0</b>	1451	1454	1514	1627	2000	2670	3154	3238	3123	2336
<b>42.0</b>	1352	1355	1409	1525	1892	2615	3256	3280	3117	2368
<b>42.5</b>	1342	1345	1400	1516	1883	2601	3258	3274	3117	2376
<b>45.0</b>	1252	1255	1313	1423	1849	2478	3076	3114	3052	2416
<b>47.5</b>	1165	1164	1230	1390	1870	2327	2785	2952	2998	2438
<b>50.0</b>	1067	1068	1130	1380	1878	2152	2546	2777	2944	2469
<b>52.5</b>	953	959	1039	1366	1835	1955	2352	2610	2892	2526
<b>55.0</b>	791	800	928	1338	1715	1793	2213	2471	2808	2594
<b>57.5</b>	598	608	766	1209	1552	1669	2123	2350	2680	2570
<b>60.0</b>	265	280	530	1005	1293	1598	2059	2220	2496	2389
<b>62.5</b>	123	129	252	484	986	1540	1956	2045	2169	2059
<b>65.0</b>	68	72	165	299	548	1399	1759	1795	1870	1866
<b>67.5</b>	46	49	91	191	412	1025	1489	1544	1519	1518
<b>70.0</b>	20	21	42	85	268	663	1039	1083	1169	1296
<b>72.5</b>	17	17	30	48	163	460	637	719	900	1076
<b>75.0</b>	13	15	29	41	124	252	403	424	580	800
<b>77.5</b>	11	11	19	27	93	150	211	259	318	492
<b>80.0</b>	8	8	12	16	24	66	94	94	181	277
<b>82.5</b>	6	6	9	9	11	14	29	36	37	84
<b>85.0</b>	5	5	5	5	6	7	9	10	12	17
<b>87.5</b>	3	4	4	4	4	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>85</b></u>	<u><b>90</b></u>	<u><b>95</b></u>	<u><b>105</b></u>	<u><b>115</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>	1271	1271	1271	1271	1271	1271	1271	1271	1271	1271
<b>2.5</b>	1293	1290	1289	1287	1277	1267	1258	1254	1248	1244
<b>5.0</b>	1295	1291	1289	1285	1272	1260	1248	1243	1235	1229
<b>7.5</b>	1291	1285	1282	1274	1261	1247	1235	1230	1220	1214
<b>10.0</b>	1288	1281	1274	1265	1248	1235	1221	1212	1202	1196
<b>12.5</b>	1298	1290	1285	1271	1248	1229	1207	1194	1184	1177
<b>15.0</b>	1309	1303	1297	1282	1244	1226	1204	1183	1167	1161
<b>17.5</b>	1325	1315	1305	1285	1239	1213	1188	1170	1157	1148
<b>20.0</b>	1352	1344	1327	1297	1239	1199	1182	1161	1151	1138
<b>22.5</b>	1395	1385	1373	1340	1255	1187	1169	1144	1129	1118
<b>25.0</b>	1434	1414	1392	1354	1245	1178	1145	1134	1110	1097

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**CANDELA TABULATION - (Cont.)**

27.5	1467	1446	1414	1364	1219	1160	1131	1118	1095	1083
30.0	1580	1554	1510	1426	1234	1148	1110	1105	1090	1071
32.5	1819	1780	1733	1597	1323	1182	1100	1093	1085	1058
35.0	1913	1870	1808	1688	1481	1264	1115	1078	1067	1048
37.5	1988	1944	1869	1764	1632	1397	1168	1064	1055	1010
40.0	2002	1942	1862	1796	1722	1540	1250	1090	975	748
42.0	1973	1905	1825	1755	1741	1631	1354	1099	720	439
42.5	1970	1902	1821	1754	1741	1641	1368	1091	682	407
45.0	1925	1848	1765	1692	1719	1663	1451	880	368	180
47.5	1864	1774	1688	1612	1685	1600	1354	570	183	130
50.0	1856	1752	1657	1575	1647	1516	908	318	161	137
52.5	1928	1812	1710	1618	1608	1374	453	246	161	140
55.0	2012	1882	1782	1703	1631	1047	235	255	165	131
57.5	1999	1867	1785	1735	1677	723	214	262	153	112
60.0	1885	1752	1697	1673	1641	562	221	232	140	100
62.5	1701	1578	1544	1522	1336	505	195	197	153	105
65.0	1500	1323	1292	1269	896	385	152	176	176	103
67.5	1230	1018	975	923	594	253	130	138	163	82
70.0	1109	882	834	748	439	188	130	105	130	54
72.5	956	781	704	550	286	159	117	74	63	38
75.0	677	529	492	333	134	109	81	51	34	36
77.5	414	335	322	188	73	54	53	41	28	26
80.0	211	164	155	92	34	27	32	24	15	9
82.5	84	79	75	20	12	13	11	9	12	4
85.0	15	13	11	9	5	6	5	4	4	3
87.5	4	4	4	3	3	3	3	3	3	3
90.0	0	0	0	0	0	0	0	0	0	0

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

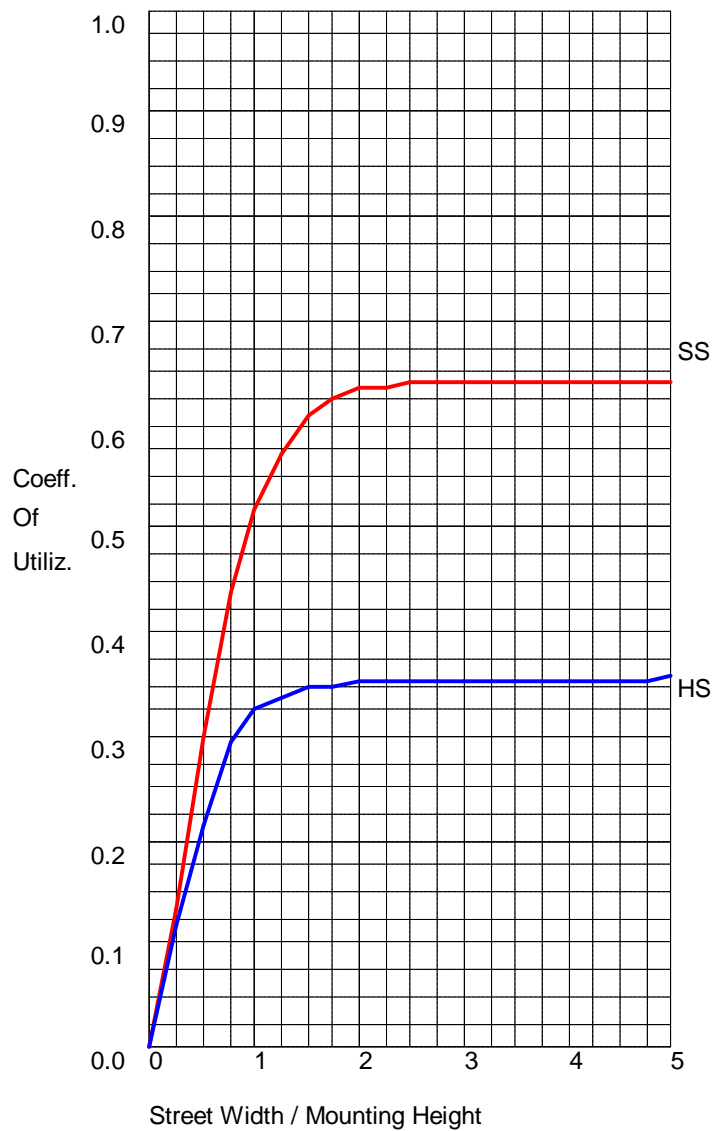
	<u>175</u>	<u>180</u>
0.0	1271	1271
2.5	1237	1233
5.0	1223	1219
7.5	1204	1199
10.0	1183	1178
12.5	1165	1160
15.0	1150	1144
17.5	1136	1130
20.0	1123	1116
22.5	1110	1106
25.0	1091	1088
27.5	1071	1069
30.0	1053	1051
32.5	1037	1035
35.0	1016	1011
37.5	921	907
40.0	599	577
42.0	327	311
42.5	300	286
45.0	129	123
47.5	113	111
50.0	116	112
52.5	118	112
55.0	110	105
57.5	104	101

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**CANDELA TABULATION - (Cont.)**

<b>60.0</b>	100	100
<b>62.5</b>	94	97
<b>65.0</b>	78	80
<b>67.5</b>	59	58
<b>70.0</b>	32	30
<b>72.5</b>	17	16
<b>75.0</b>	13	13
<b>77.5</b>	9	9
<b>80.0</b>	5	5
<b>82.5</b>	4	3
<b>85.0</b>	3	3
<b>87.5</b>	2	2
<b>90.0</b>	0	0

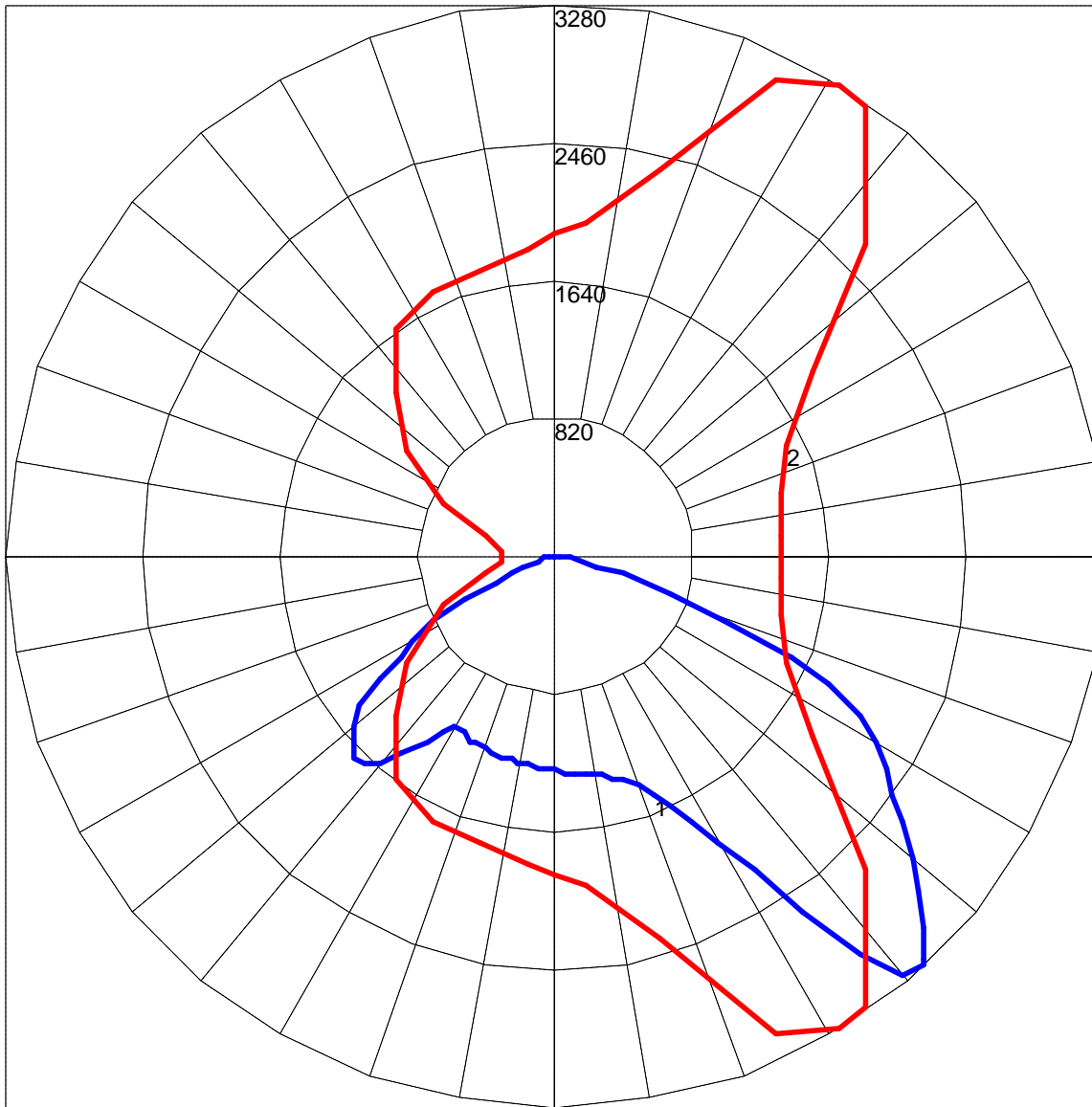
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

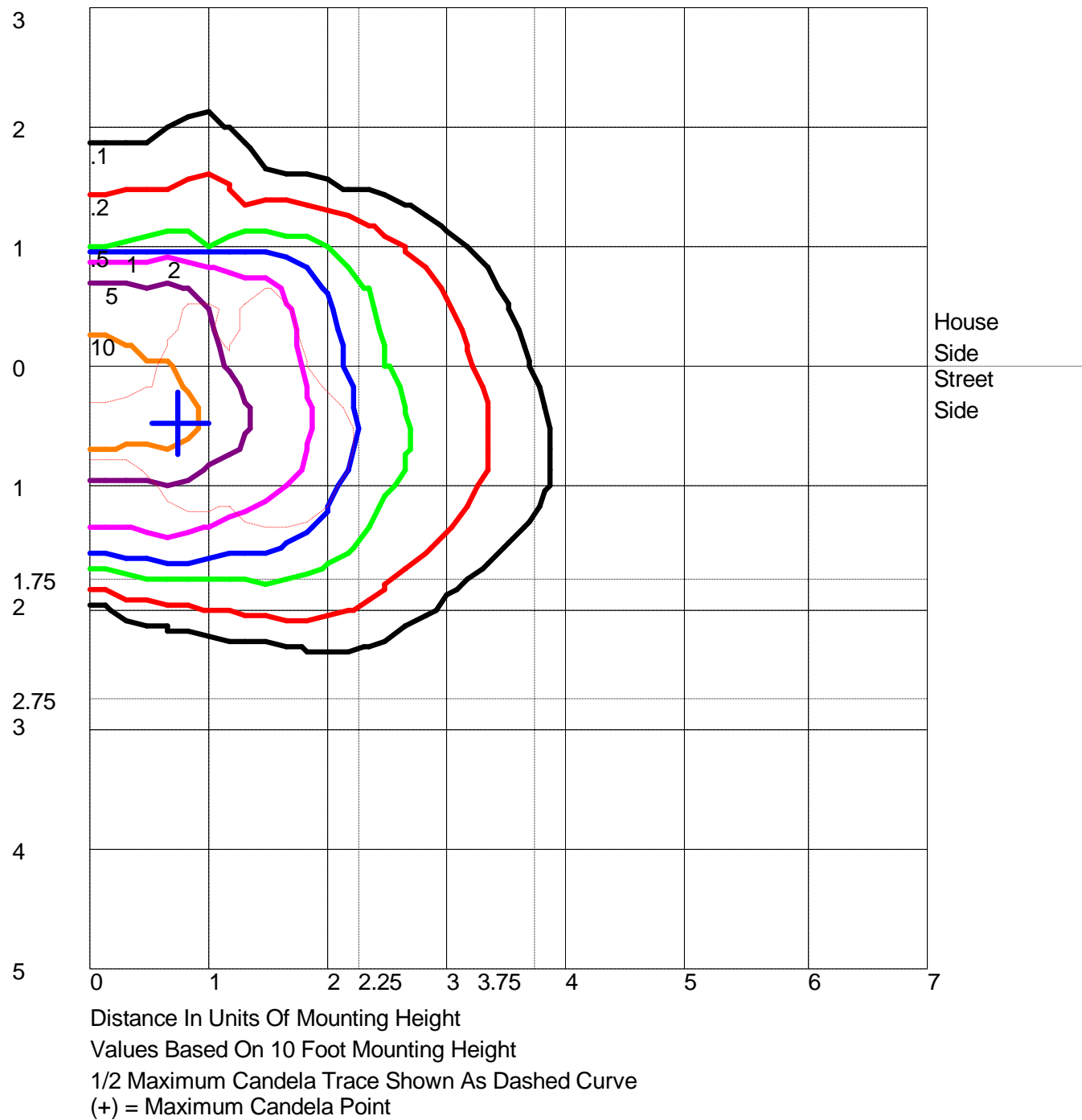
	Lumens	Percent Of Luminaire
Downward Street Side	3655.9	64.4
Downward House Side	2021.9	35.6
Downward Total	5677.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5677.8	100.0

POLAR GRAPH



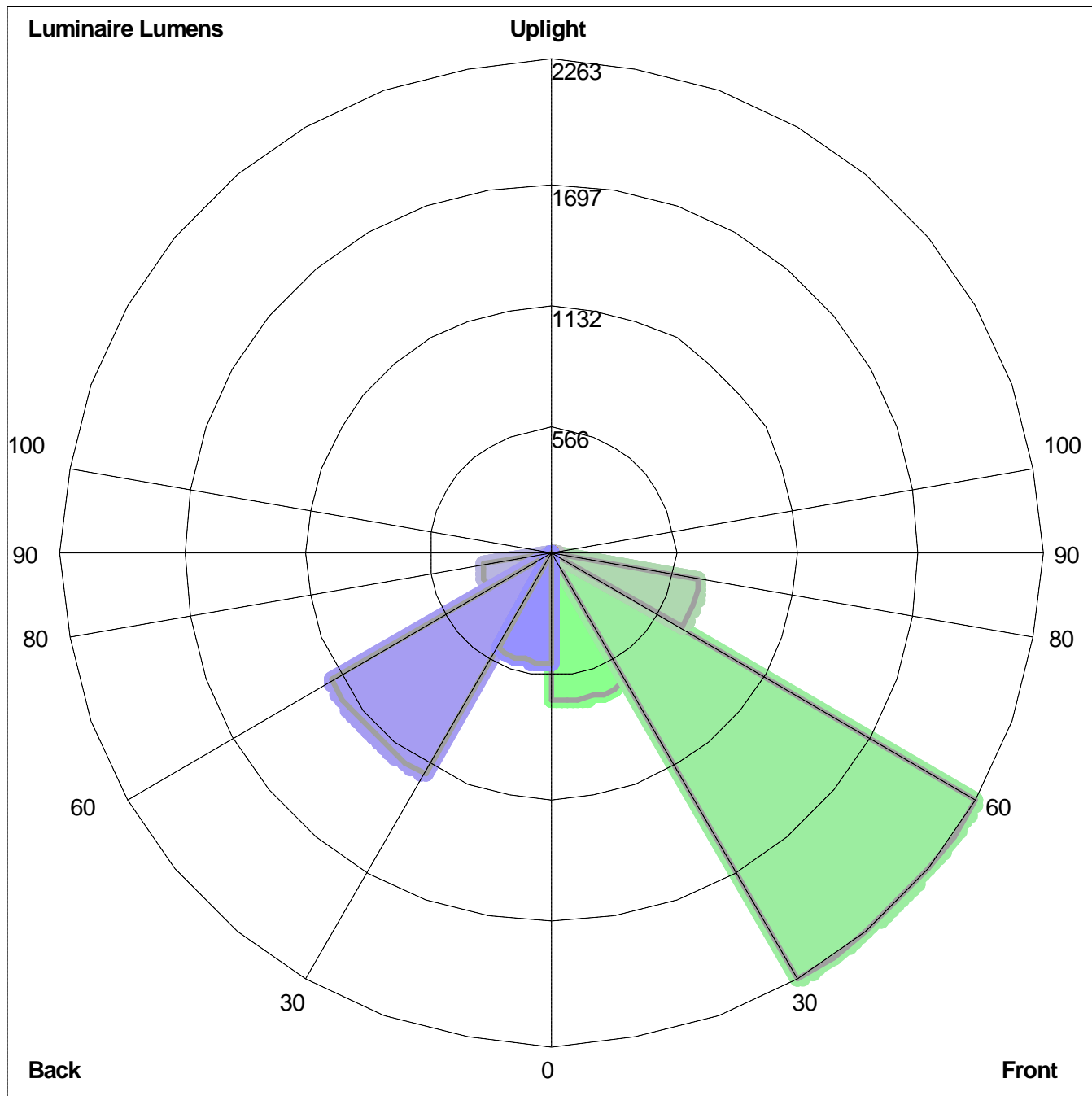
Maximum Candela = 3280 Located At Horizontal Angle = 59, Vertical Angle = 42  
# 1 - Vertical Plane Through Horizontal Angles (59 - 239) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (42) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=686.8, Medium=2263.1, High=693.5, Very High=12.5  
Back: Low=507.5, Medium=1177.9, High=329.9, Very High=6.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1