



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-6647  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]02/27/15  
[TEST DATE]02/27/15  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XLCW-FT-LED-SS-CW-UE  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]3760

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3759
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	41.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2185
Maximum Candela Angle	5H 42.5V
Maximum Candela (<90 Degrees Vertical)	2185
Maximum Candela Angle (<90 Degrees Vertical)	5H 42.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	215 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	617.5	N.A.	16.4
FM - Front-Medium (30-60)	1796.2	N.A.	47.8
FH - Front-High (60-80)	718.0	N.A.	19.1
FVH - Front-Very High (80-90)	14.4	N.A.	0.4
BL - Back-Low (0-30)	231.2	N.A.	6.2
BM - Back-Medium (30-60)	305.9	N.A.	8.1
BH - Back-High (60-80)	71.0	N.A.	1.9
BVH - Back-Very High (80-90)	4.8	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	3759.0	N.A.	100.0
BUG Rating	B1-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>	1390	1390	1390	1390	1390	1390	1390	1390	1390	1390
<b>2.5</b>	1478	1468	1470	1472	1476	1474	1468	1459	1446	1437
<b>5.0</b>	1592	1589	1591	1593	1600	1601	1593	1566	1526	1495
<b>7.5</b>	1533	1538	1546	1553	1583	1610	1629	1628	1603	1538
<b>10.0</b>	1427	1427	1432	1437	1459	1503	1573	1626	1633	1584
<b>12.5</b>	1336	1343	1355	1366	1405	1441	1471	1560	1632	1614
<b>15.0</b>	1267	1265	1263	1260	1290	1359	1429	1477	1588	1630
<b>17.5</b>	1322	1319	1314	1309	1294	1277	1338	1437	1515	1630
<b>20.0</b>	1395	1391	1383	1374	1350	1318	1282	1372	1463	1612
<b>22.5</b>	1453	1449	1446	1442	1421	1367	1308	1293	1422	1569
<b>25.0</b>	1607	1596	1564	1532	1468	1428	1348	1272	1369	1511
<b>27.5</b>	1799	1791	1777	1763	1651	1472	1395	1295	1302	1458
<b>30.0</b>	1906	1896	1876	1856	1798	1628	1427	1322	1249	1408
<b>32.5</b>	2041	2031	2013	1994	1894	1769	1505	1347	1219	1353
<b>35.0</b>	2024	2017	2012	2006	2002	1846	1655	1363	1217	1297
<b>37.5</b>	2105	2098	2080	2062	1975	1942	1723	1409	1224	1226
<b>40.0</b>	2130	2120	2097	2073	2042	1909	1790	1514	1224	1168
<b>42.5</b>	2182	2185	2164	2143	2044	1957	1826	1579	1218	1117
<b>45.0</b>	1882	1887	1918	1948	2084	1939	1792	1610	1226	1058
<b>47.5</b>	1713	1701	1718	1734	1826	1962	1807	1637	1263	1009
<b>50.0</b>	1813	1800	1764	1727	1629	1757	1776	1578	1300	978
<b>52.5</b>	1655	1656	1699	1741	1685	1555	1704	1560	1307	944
<b>55.0</b>	1788	1766	1702	1638	1575	1552	1479	1497	1297	900
<b>57.5</b>	1987	1987	1967	1947	1656	1479	1338	1439	1241	872
<b>60.0</b>	1999	1991	1949	1906	1822	1487	1334	1265	1169	848
<b>62.5</b>	1821	1844	1857	1869	1817	1651	1217	1077	1094	808
<b>65.0</b>	1408	1453	1515	1577	1645	1619	1360	1020	977	776
<b>67.5</b>	754	758	828	898	1186	1431	1324	950	794	698
<b>70.0</b>	262	267	326	384	590	889	1186	986	671	606
<b>72.5</b>	108	109	115	120	166	373	750	921	579	504
<b>75.0</b>	37	37	43	48	66	97	278	669	547	372
<b>77.5</b>	30	30	30	29	29	33	67	245	474	249
<b>80.0</b>	29	28	28	28	27	25	23	49	215	191
<b>82.5</b>	27	27	27	26	25	23	21	18	30	107
<b>85.0</b>	26	26	26	25	24	22	19	16	12	17
<b>87.5</b>	24	24	24	23	22	20	18	14	10	6
<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>	1390	1390	1390	1390	1390	1390	1390	1390	1390	1390
<b>2.5</b>	1432	1425	1416	1395	1382	1360	1337	1310	1285	1271
<b>5.0</b>	1448	1428	1400	1343	1278	1204	1142	1082	1033	1002
<b>7.5</b>	1466	1426	1388	1274	1161	1039	928	832	769	730
<b>10.0</b>	1481	1431	1372	1204	1038	860	731	624	541	490
<b>12.5</b>	1495	1429	1349	1129	897	710	550	434	372	338
<b>15.0</b>	1510	1427	1324	1044	766	557	399	323	287	263
<b>17.5</b>	1524	1425	1301	953	651	423	313	264	249	250
<b>20.0</b>	1534	1420	1270	865	538	339	262	250	247	243
<b>22.5</b>	1543	1417	1243	783	440	285	250	245	256	251
<b>25.0</b>	1545	1407	1212	707	367	254	245	254	245	242
<b>27.5</b>	1541	1394	1175	629	317	249	247	243	229	219

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**CANDELA TABULATION - (Cont.)**

30.0	1534	1379	1134	560	279	246	245	228	213	209
32.5	1516	1359	1085	491	264	243	235	212	205	205
35.0	1493	1333	1036	433	258	246	217	205	205	209
37.5	1461	1300	980	382	260	234	206	202	207	209
40.0	1427	1264	918	339	257	223	200	204	206	205
42.5	1383	1221	855	298	261	210	200	202	201	201
45.0	1328	1176	790	276	250	202	199	197	197	185
47.5	1262	1131	726	257	239	200	195	192	171	160
50.0	1185	1076	657	254	220	200	189	170	157	158
52.5	1107	1021	596	252	205	195	185	151	147	103
55.0	1010	942	533	238	199	190	165	142	97	95
57.5	902	856	462	226	195	182	146	93	73	20
60.0	792	780	407	210	188	165	118	71	3	0
62.5	683	680	355	198	180	147	89	12	1	0
65.0	586	588	300	178	166	126	43	5	1	0
67.5	480	488	249	161	155	89	23	5	1	0
70.0	388	371	195	145	137	54	21	5	0	0
72.5	306	277	148	123	101	43	19	4	0	0
75.0	222	192	97	105	64	41	16	3	0	0
77.5	150	114	60	75	50	35	13	3	0	0
80.0	91	59	35	44	45	27	11	2	0	0
82.5	38	19	16	27	35	21	8	2	0	0
85.0	11	5	7	17	26	17	6	2	0	0
87.5	3	2	4	11	18	11	4	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

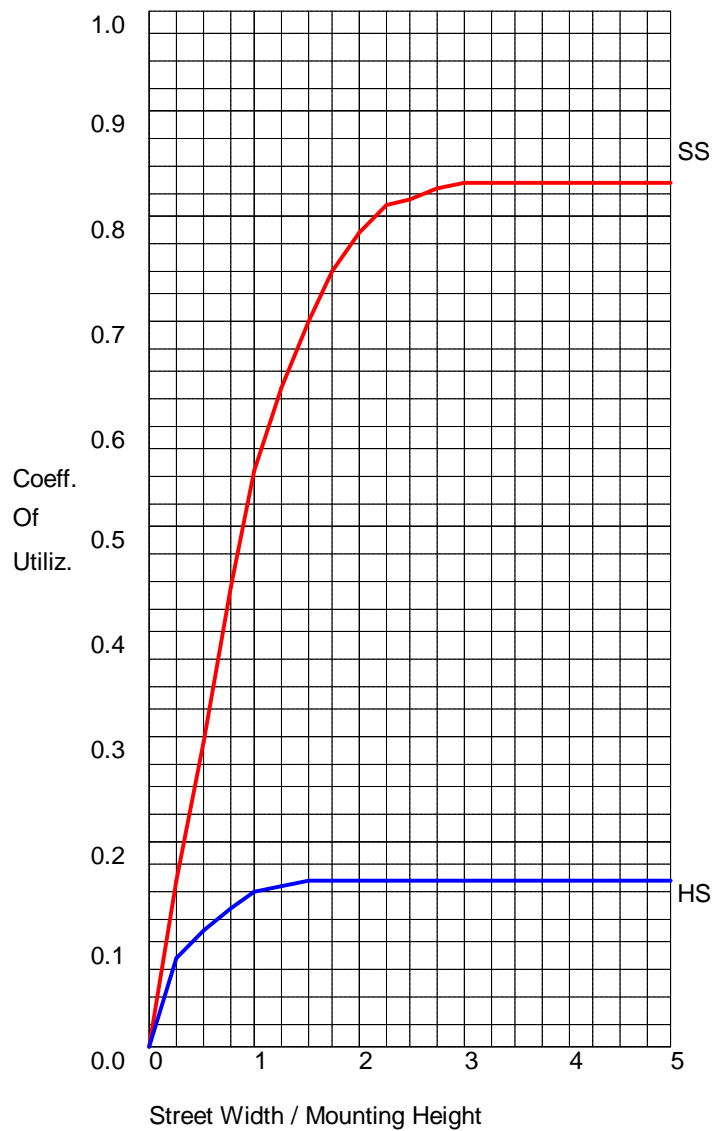
	<b>175</b>	<b>180</b>
0.0	1390	1390
2.5	1276	1277
5.0	999	1000
7.5	708	720
10.0	465	454
12.5	322	316
15.0	252	252
17.5	250	250
20.0	249	250
22.5	246	246
25.0	234	233
27.5	215	214
30.0	207	207
32.5	206	207
35.0	211	211
37.5	210	210
40.0	205	205
42.5	202	201
45.0	160	161
47.5	164	164
50.0	150	150
52.5	103	103
55.0	84	82
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

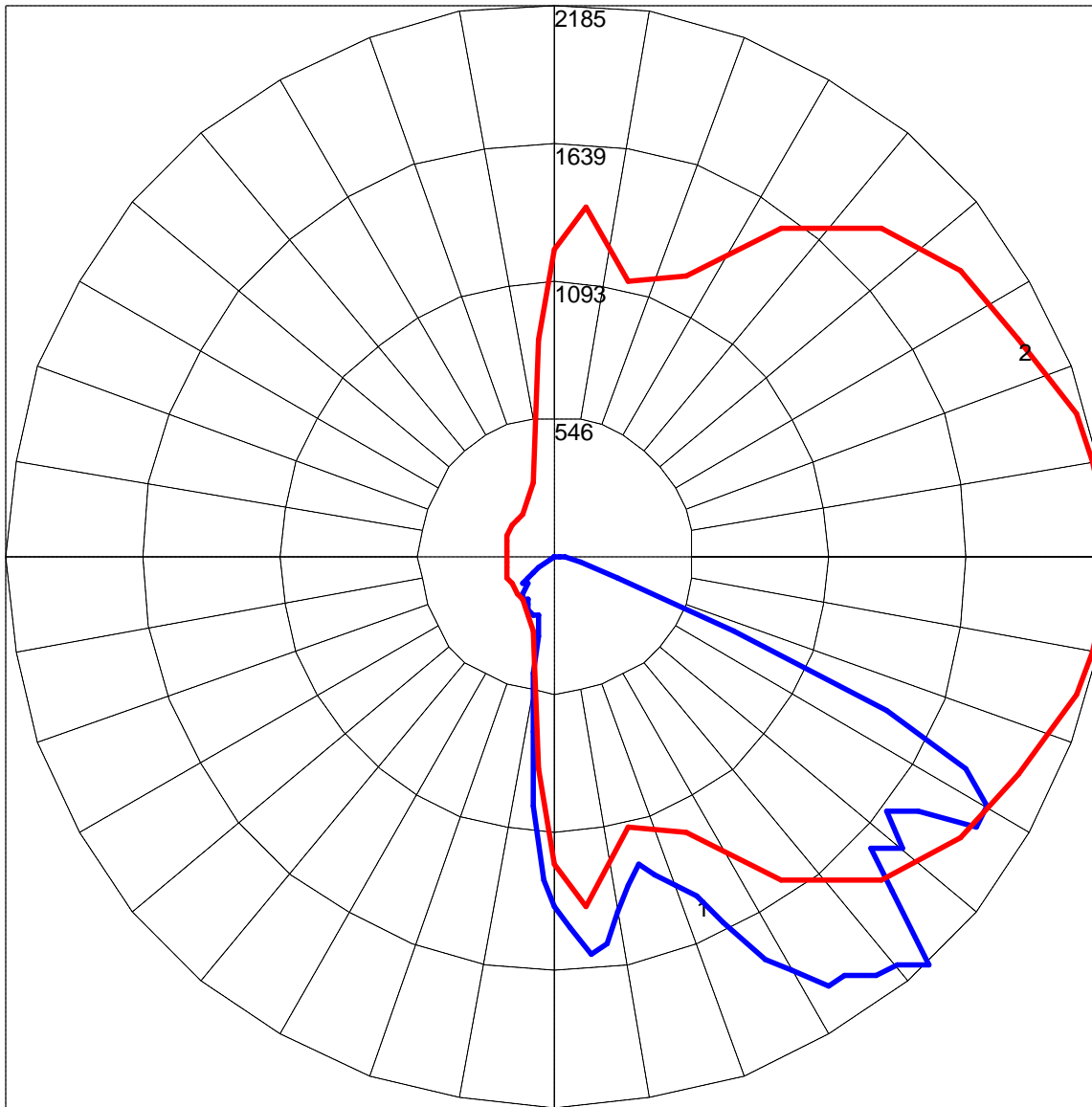
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

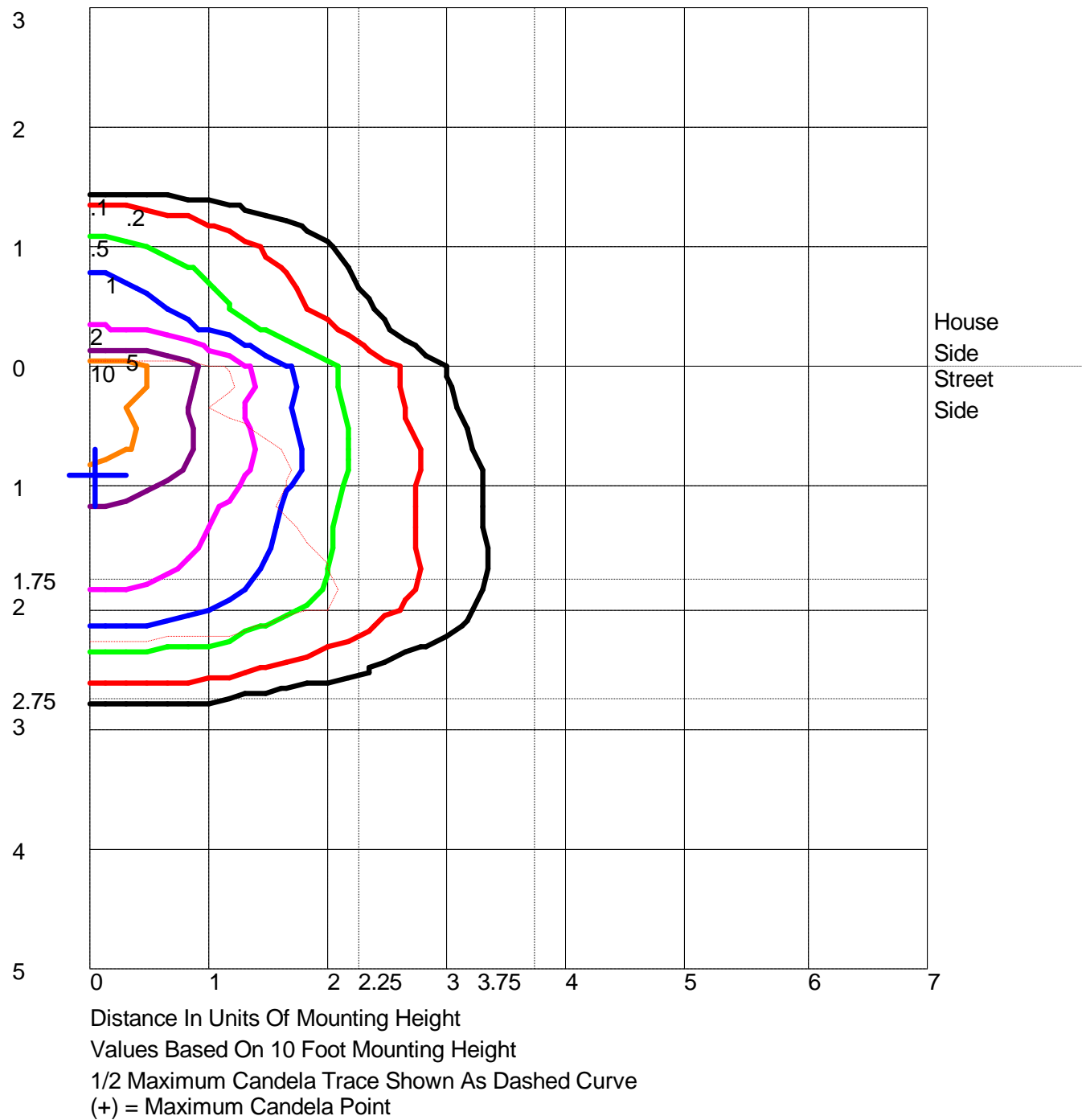
	Lumens	Percent Of Luminaire
Downward Street Side	3146.2	83.7
Downward House Side	613.0	16.3
Downward Total	3759.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3759.2	100.0

POLAR GRAPH



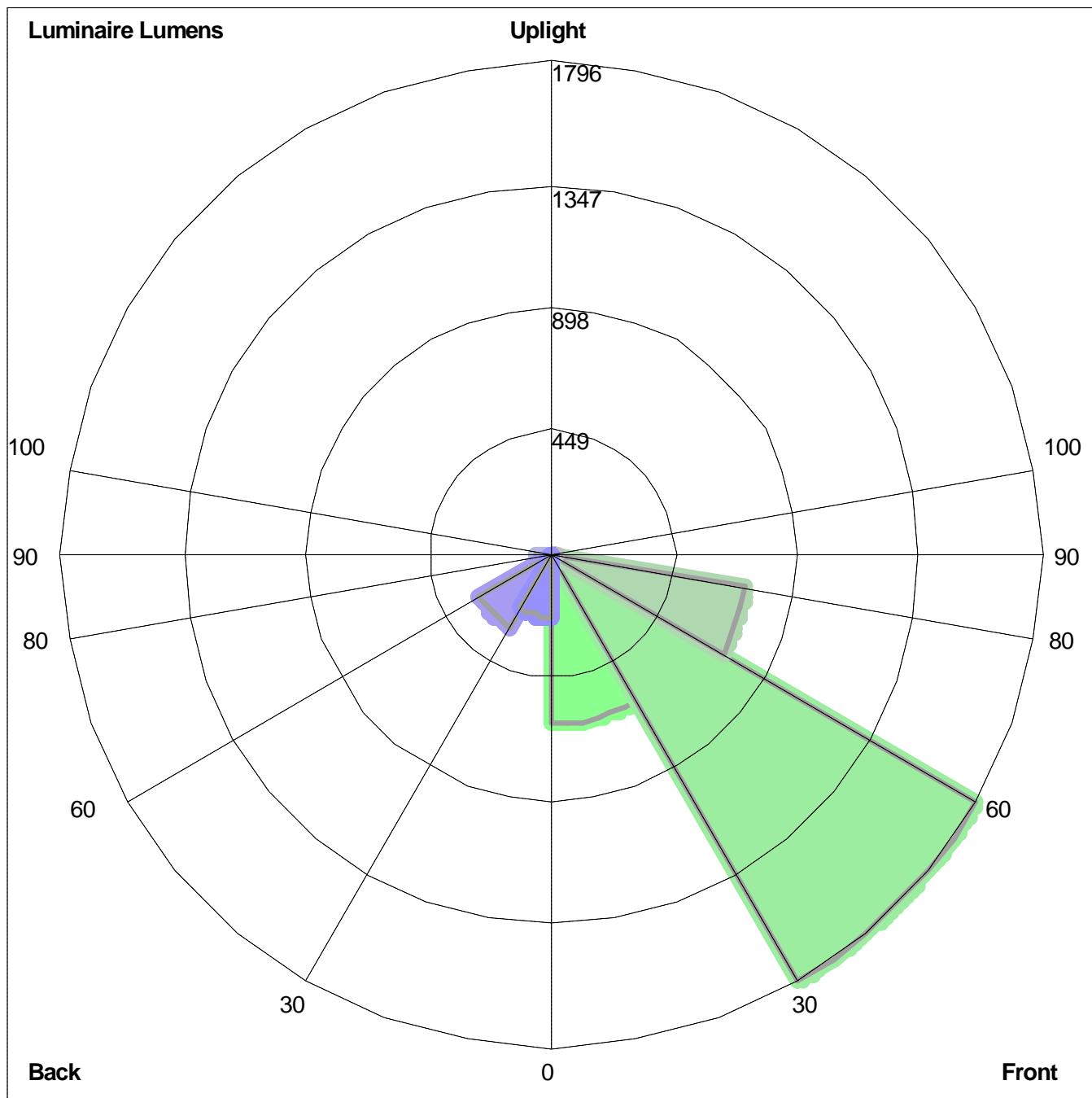
Maximum Candela = 2185 Located At Horizontal Angle = 5, Vertical Angle = 42.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=617.5, Medium=1796.2, High=718.0, Very High=14.4  
Back: Low=231.2, Medium=305.9, High=71.0, Very High=4.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1