



IES ROAD REPORT
PHOTOMETRIC FILENAME : XENM3-SA-5-LED-HO-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4781
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/23/13
[TEST DATE]11/23/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-5-LED-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]7937
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7937
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2706
Maximum Candela Angle	47.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	2706
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 47.5V
Maximum Candela At 90 Degrees Vertical	2 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	632 (8.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	428.1	N.A.	5.4
FM - Front-Medium (30-60)	2013.0	N.A.	25.4
FH - Front-High (60-80)	1449.5	N.A.	18.3
FVH - Front-Very High (80-90)	76.0	N.A.	1.0
BL - Back-Low (0-30)	428.1	N.A.	5.4
BM - Back-Medium (30-60)	2013.0	N.A.	25.4
BH - Back-High (60-80)	1449.5	N.A.	18.3
BVH - Back-Very High (80-90)	76.0	N.A.	1.0
UL - Uplight-Low (90-100)	0.8	N.A.	0.0
UH - Uplight-High (100-180)	3.1	N.A.	0.0
Total	7937.1	N.A.	100.0
BUG Rating	B3-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	392	392	392	392	392	392	392	392	392	392
2.5	392	391	390	391	393	395	400	397	399	400
5.0	465	458	453	451	452	450	454	446	445	442
7.5	567	565	561	569	583	572	566	550	540	535
10.0	639	640	659	697	731	736	771	726	686	625
12.5	683	685	732	819	932	994	1019	943	847	748
15.0	727	737	828	961	1107	1168	1222	1150	995	856
17.5	755	766	878	1091	1269	1317	1348	1232	1125	948
20.0	794	799	925	1143	1354	1433	1451	1335	1214	1024
22.5	842	856	1021	1224	1356	1467	1469	1390	1239	1045
25.0	815	843	1049	1260	1377	1438	1426	1367	1227	1075
27.5	767	792	1011	1235	1376	1415	1363	1339	1230	1056
30.0	814	837	1020	1213	1315	1357	1315	1330	1269	1169
32.5	953	994	1161	1256	1260	1269	1255	1324	1422	1397
35.0	1141	1191	1378	1420	1305	1243	1219	1409	1626	1738
37.5	1308	1358	1571	1591	1426	1279	1311	1587	1965	2060
40.0	1339	1409	1688	1690	1606	1496	1627	1897	2216	2114
42.5	1309	1397	1668	1768	1792	1891	2101	2140	2223	1996
45.0	1285	1383	1651	1787	2014	2360	2531	2254	2101	1919
47.5	1300	1413	1627	1738	2160	2673	2706	2295	1978	1813
50.0	1278	1358	1583	1682	2299	2659	2639	2338	1878	1742
52.5	1244	1324	1480	1685	2399	2470	2470	2338	1852	1685
55.0	1272	1327	1466	1772	2395	2280	2266	2284	1872	1652
57.5	1331	1401	1553	1984	2280	2120	2100	2163	1985	1737
60.0	1332	1396	1572	2169	2171	1999	1978	2092	2164	1843
62.5	1303	1369	1615	2182	2122	1933	1940	2108	2314	1961
65.0	1193	1304	1599	2048	2061	2004	2059	2158	2266	1794
67.5	1057	1184	1497	1733	1978	2138	2216	2092	1832	1494
70.0	1010	1104	1441	1457	1804	2112	2147	1736	1534	1396
72.5	869	959	1313	1304	1728	1665	1672	1559	1377	1287
75.0	650	710	1064	1126	1391	1364	1428	1365	1216	1064
77.5	389	466	760	880	951	1083	1146	1049	838	645
80.0	265	327	528	582	589	632	571	591	462	354
82.5	134	166	360	357	285	234	210	252	235	198
85.0	56	62	143	121	75	59	62	70	75	82
87.5	4	5	13	13	12	9	8	8	11	11
90.0	0	0	0	1	1	2	2	1	1	0
92.5	0	0	0	1	1	2	2	1	1	0
95.0	0	0	0	1	1	2	2	1	1	0
97.5	0	0	1	1	2	2	2	2	1	0
100.0	0	0	1	1	1	2	2	1	1	0
102.5	0	0	1	1	1	2	2	1	1	0
105.0	0	0	1	1	1	1	1	1	1	0
107.5	0	0	0	1	1	1	1	1	1	0
110.0	1	1	1	1	2	2	2	1	1	1
112.5	1	0	1	1	1	1	2	1	1	0
115.0	1	1	1	1	2	2	2	1	1	0
117.5	1	0	1	1	1	1	1	1	1	0
120.0	1	0	1	1	1	1	2	1	1	0
122.5	0	0	1	1	1	1	1	1	1	0
125.0	0	0	1	1	1	1	1	1	1	0
127.5	0	0	1	1	1	1	2	1	1	0
130.0	0	0	1	1	1	1	1	1	1	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	1	1	1	1	1	1	1	0
135.0	0	0	1	1	1	1	1	1	1	0
137.5	0	0	0	1	1	1	1	1	0	0
140.0	0	0	1	1	1	1	1	1	0	0
142.5	0	0	1	1	1	1	1	1	0	0
145.0	0	0	0	1	1	1	1	1	0	0
147.5	0	1	1	1	1	1	1	1	0	0
150.0	0	0	0	1	1	1	1	0	0	0
152.5	0	0	1	1	1	1	1	0	0	0
155.0	0	0	0	0	0	1	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

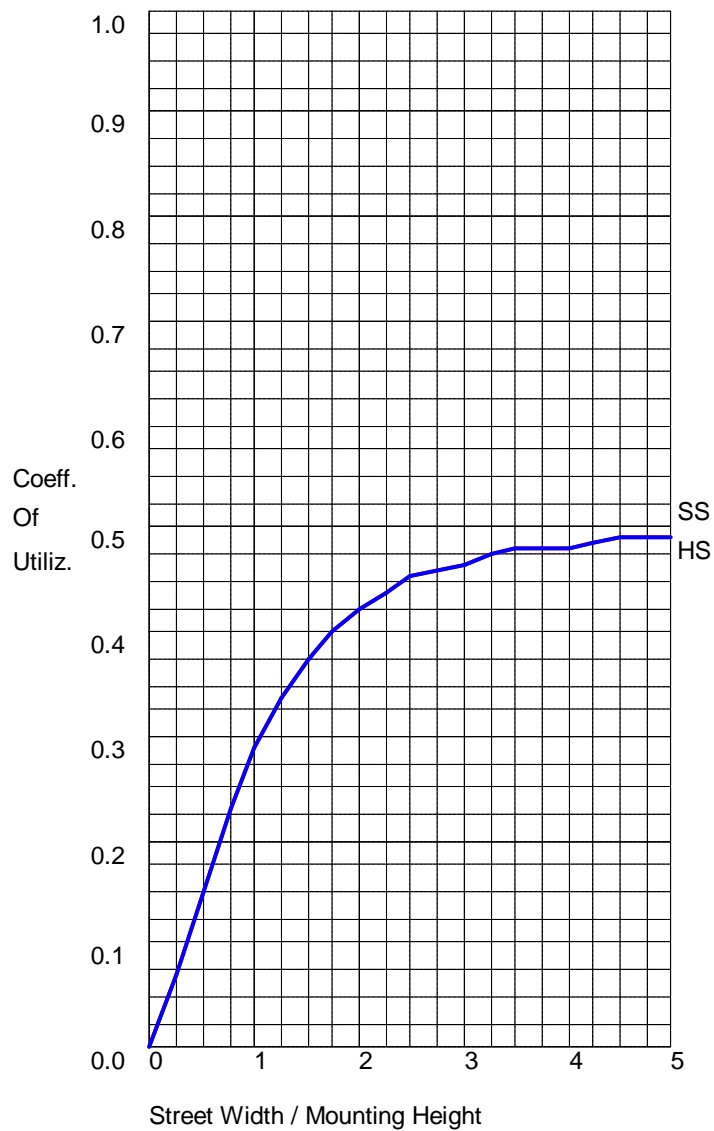
	<u>85.0</u>	<u>90.0</u>
0.0	392	392
2.5	398	398
5.0	439	438
7.5	524	524
10.0	588	582
12.5	691	681
15.0	770	760
17.5	812	790
20.0	826	801
22.5	884	863
25.0	920	911
27.5	883	877
30.0	970	950
32.5	1199	1152
35.0	1562	1475
37.5	1788	1729
40.0	1766	1688
42.5	1662	1581
45.0	1581	1495
47.5	1509	1420
50.0	1455	1363
52.5	1409	1327
55.0	1442	1345
57.5	1559	1476
60.0	1700	1621
62.5	1767	1687
65.0	1499	1423
67.5	1243	1177
70.0	1153	1097
72.5	1017	977
75.0	747	671
77.5	377	319

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CANDELA TABULATION - (Cont.)

80.0	177	126
82.5	82	45
85.0	36	19
87.5	5	3
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0
167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

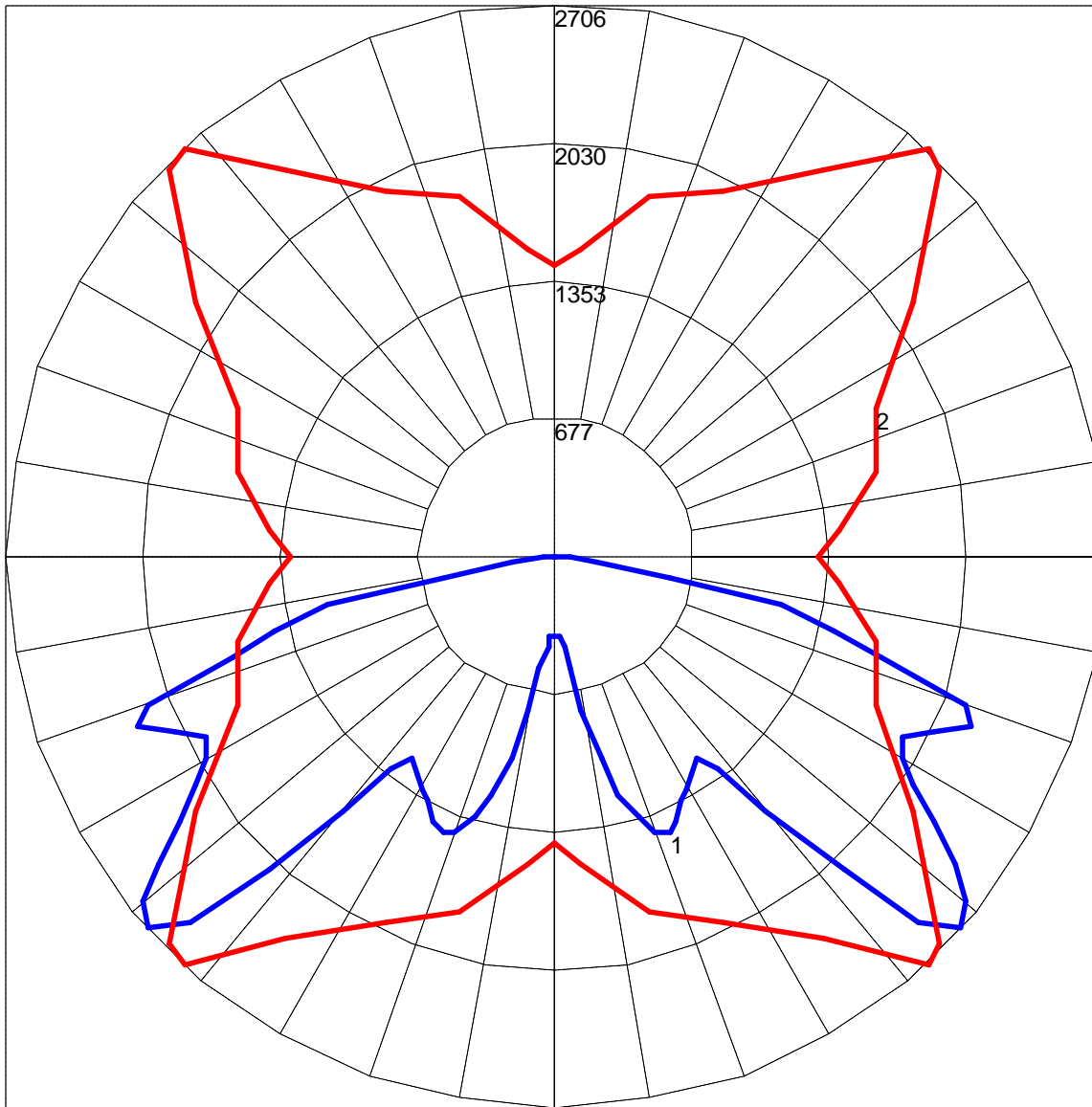
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

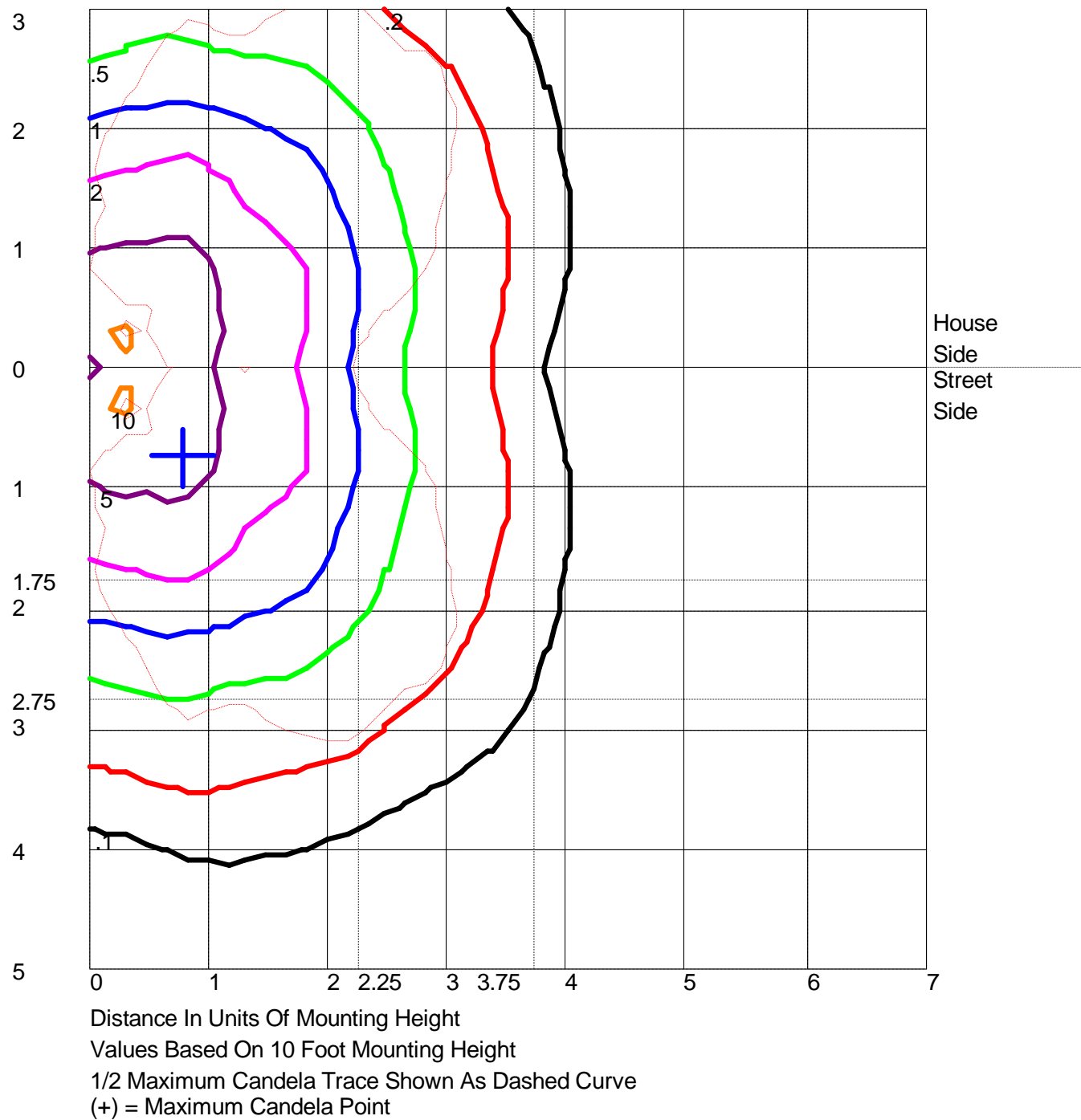
	Lumens	Percent Of Luminaire
Downward Street Side	3966.7	50.0
Downward House Side	3966.7	50.0
Downward Total	7933.4	99.9
Upward Street Side	2.0	0.0
Upward House Side	2.0	0.0
Upward Total	4.0	0.1
Total Flux	7937.4	100.0

POLAR GRAPH

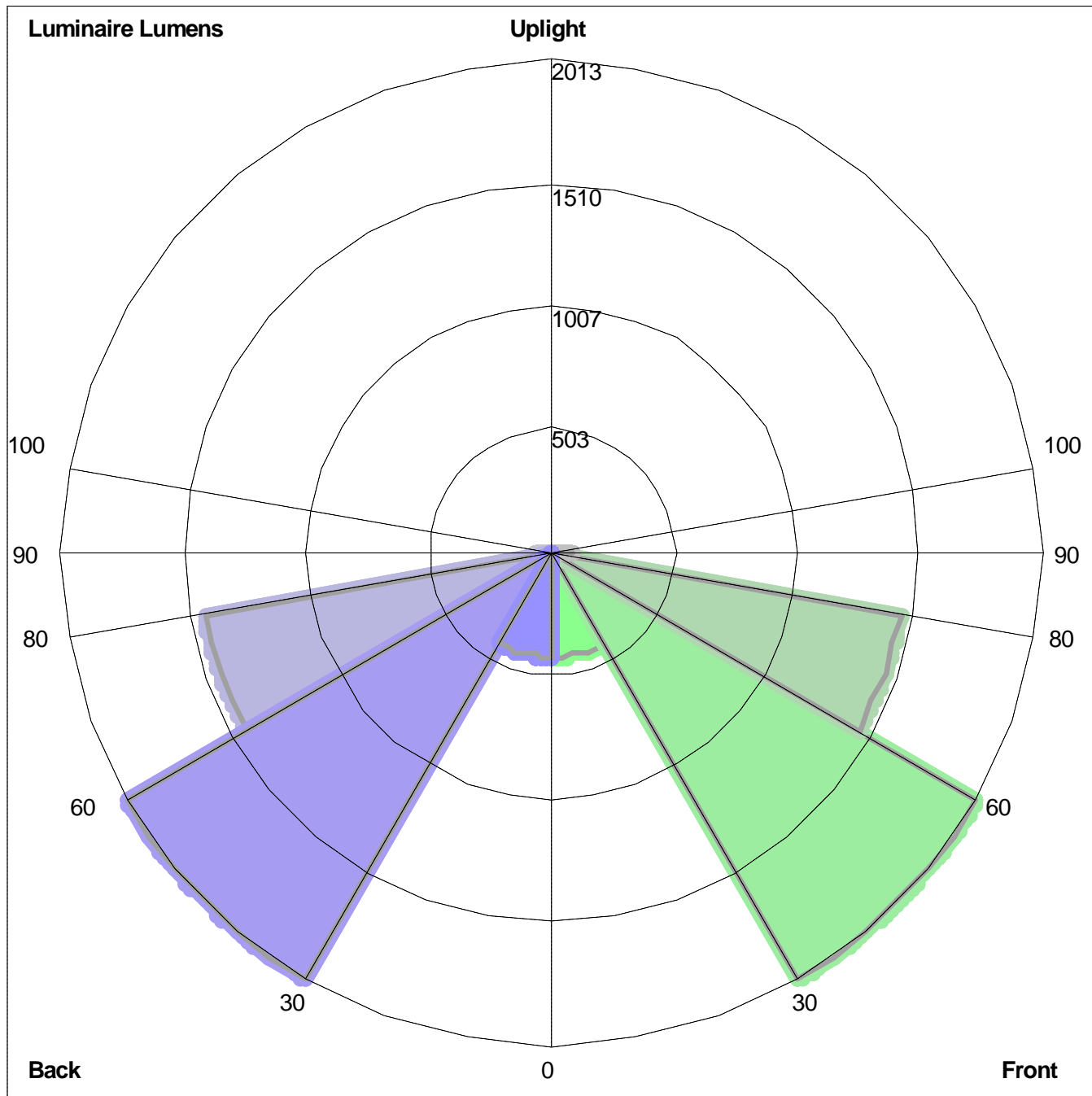


Maximum Candela = 2706 Located At Horizontal Angle = 47.5, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=428.1, Medium= 2013.0, High=1449.5, Very High=76.0
Back: Low=428.1, Medium= 2013.0, High=1449.5, Very High=76.0
Uplight: Low=0.8, High=3.1

BUG Rating : B3-U1-G1