



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-4782  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]11/23/13  
[TEST DATE]11/23/13  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XENM3-SA-5-LED-SS-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]5645  
[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	5645
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1898
Maximum Candela Angle	47.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	1898
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 47.5V
Maximum Candela At 90 Degrees Vertical	1 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	457 (8.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	303.7	N.A.	5.4
FM - Front-Medium (30-60)	1418.9	N.A.	25.1
FH - Front-High (60-80)	1042.6	N.A.	18.5
FVH - Front-Very High (80-90)	55.9	N.A.	1.0
BL - Back-Low (0-30)	303.7	N.A.	5.4
BM - Back-Medium (30-60)	1418.9	N.A.	25.1
BH - Back-High (60-80)	1042.6	N.A.	18.5
BVH - Back-Very High (80-90)	55.9	N.A.	1.0
UL - Uplight-Low (90-100)	0.6	N.A.	0.0
UH - Uplight-High (100-180)	2.0	N.A.	0.0
Total	5644.8	N.A.	100.0
BUG Rating	B3-U1-G1		

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

**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	274	274	274	274	274	274	274	274	274	274
2.5	272	273	273	273	274	276	279	276	278	279
5.0	315	317	313	311	311	315	320	314	311	308
7.5	391	391	397	399	396	393	390	374	375	375
10.0	447	452	467	486	509	512	534	498	471	442
12.5	486	488	522	583	659	694	732	659	595	520
15.0	513	522	583	681	802	826	863	812	698	595
17.5	540	541	624	777	906	939	964	880	787	664
20.0	572	570	656	814	971	1025	1045	958	865	722
22.5	583	597	711	873	980	1060	1065	1005	891	742
25.0	573	592	733	883	983	1047	1048	985	879	764
27.5	543	560	722	880	978	1015	987	962	880	742
30.0	556	579	710	863	950	963	943	953	899	804
32.5	636	667	797	879	910	909	894	938	1006	965
35.0	765	804	944	978	914	881	864	983	1150	1215
37.5	895	933	1090	1101	984	896	913	1102	1385	1453
40.0	935	980	1180	1179	1102	1030	1128	1318	1571	1499
42.5	920	983	1179	1245	1241	1289	1459	1503	1573	1424
45.0	904	973	1170	1267	1397	1621	1751	1572	1486	1365
47.5	915	992	1153	1230	1508	1855	1898	1599	1403	1291
50.0	903	959	1136	1187	1611	1873	1872	1619	1330	1250
52.5	879	935	1068	1179	1684	1763	1760	1639	1309	1212
55.0	894	941	1037	1242	1697	1627	1623	1619	1313	1188
57.5	945	1002	1110	1394	1631	1515	1504	1546	1393	1243
60.0	948	1002	1123	1544	1554	1434	1423	1500	1526	1319
62.5	931	984	1151	1567	1524	1391	1403	1515	1646	1395
65.0	864	962	1159	1490	1486	1444	1487	1549	1634	1296
67.5	750	854	1075	1278	1440	1536	1603	1509	1326	1062
70.0	708	778	1018	1048	1329	1540	1566	1256	1095	982
72.5	620	675	928	925	1246	1231	1230	1121	983	910
75.0	465	511	757	810	1017	977	1027	990	875	761
77.5	280	328	535	643	690	770	815	767	615	466
80.0	185	232	384	426	415	457	421	426	336	266
82.5	87	119	271	259	208	166	152	188	174	151
85.0	37	44	111	89	57	44	45	52	58	62
87.5	7	4	10	10	9	7	7	6	8	10
90.0	0	0	0	0	1	1	1	1	0	0
92.5	0	0	0	1	1	1	1	1	1	0
95.0	0	0	0	1	1	1	1	1	0	0
97.5	0	0	1	1	1	1	1	1	1	0
100.0	0	0	0	1	1	1	1	1	1	0
102.5	0	0	0	1	1	1	1	1	0	0
105.0	0	0	1	1	1	1	1	1	1	0
107.5	0	0	1	1	1	1	1	1	1	0
110.0	0	0	0	1	1	1	1	1	0	0
112.5	0	0	1	1	1	1	1	1	1	0
115.0	0	0	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	0	0	1	1	1	1	1	0	0
122.5	0	0	0	1	1	1	1	1	1	0
125.0	0	0	0	1	1	1	1	1	0	0
127.5	0	0	0	1	1	1	1	1	1	0
130.0	0	0	0	0	1	1	1	0	0	0

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

**CANDELA TABULATION - (Cont.)**

132.5	0	0	0	1	1	1	1	1	0	0
135.0	0	0	0	1	1	1	1	1	0	0
137.5	0	0	1	1	1	1	1	1	0	0
140.0	0	0	0	0	0	1	1	0	0	0
142.5	0	0	0	0	0	1	1	0	0	0
145.0	0	0	0	0	0	1	1	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	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**

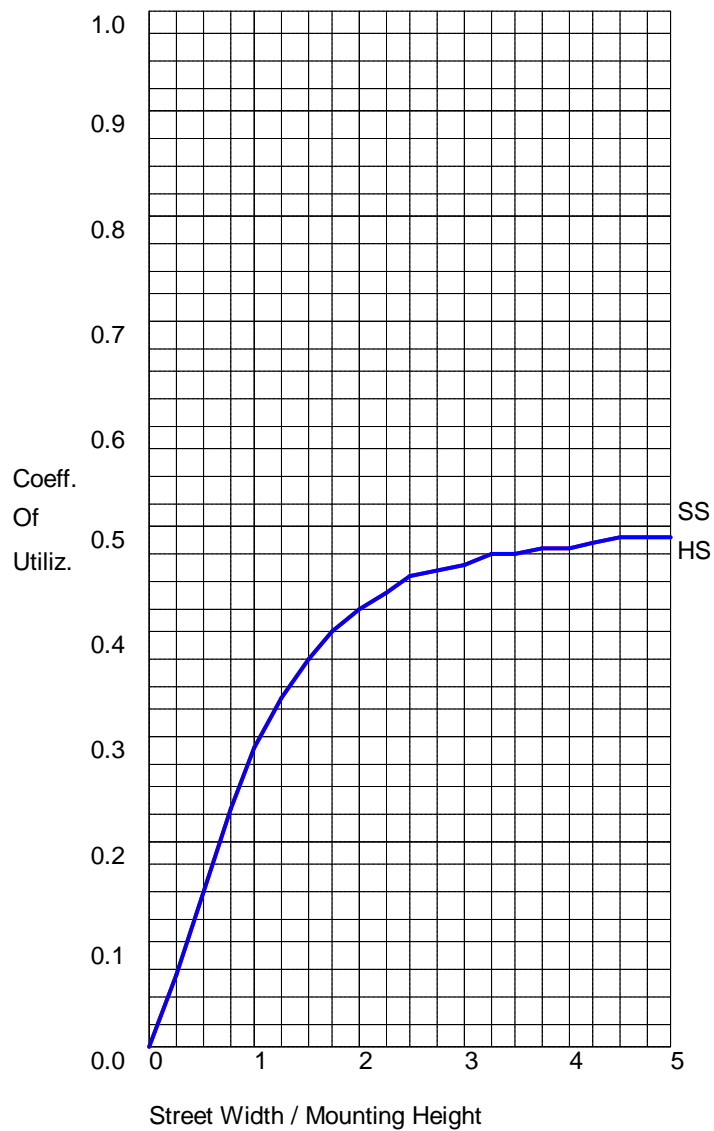
	<u><b>85.0</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	274	274
<b>2.5</b>	278	278
<b>5.0</b>	307	307
<b>7.5</b>	365	364
<b>10.0</b>	411	408
<b>12.5</b>	480	471
<b>15.0</b>	539	529
<b>17.5</b>	572	553
<b>20.0</b>	586	563
<b>22.5</b>	624	610
<b>25.0</b>	647	642
<b>27.5</b>	610	600
<b>30.0</b>	675	659
<b>32.5</b>	830	805
<b>35.0</b>	1073	1031
<b>37.5</b>	1249	1202
<b>40.0</b>	1245	1190
<b>42.5</b>	1176	1119
<b>45.0</b>	1119	1061
<b>47.5</b>	1070	1002
<b>50.0</b>	1035	965
<b>52.5</b>	1004	942
<b>55.0</b>	1029	965
<b>57.5</b>	1114	1049
<b>60.0</b>	1210	1150
<b>62.5</b>	1265	1208
<b>65.0</b>	1086	1034
<b>67.5</b>	884	830
<b>70.0</b>	811	765
<b>72.5</b>	720	682
<b>75.0</b>	545	495
<b>77.5</b>	281	241

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

CANDELA TABULATION - (Cont.)

80.0	131	100
82.5	62	35
85.0	27	14
87.5	4	2
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

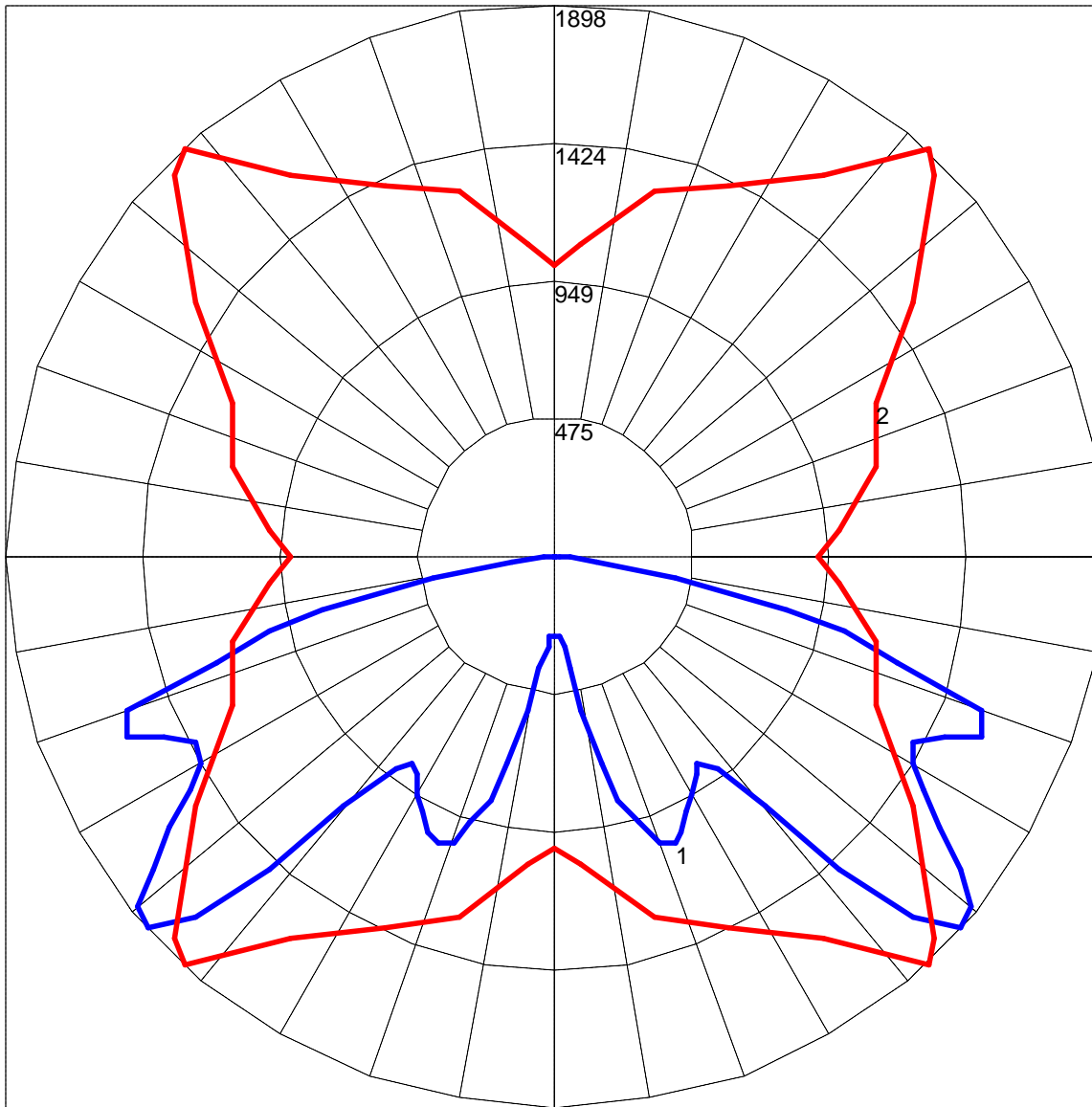
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

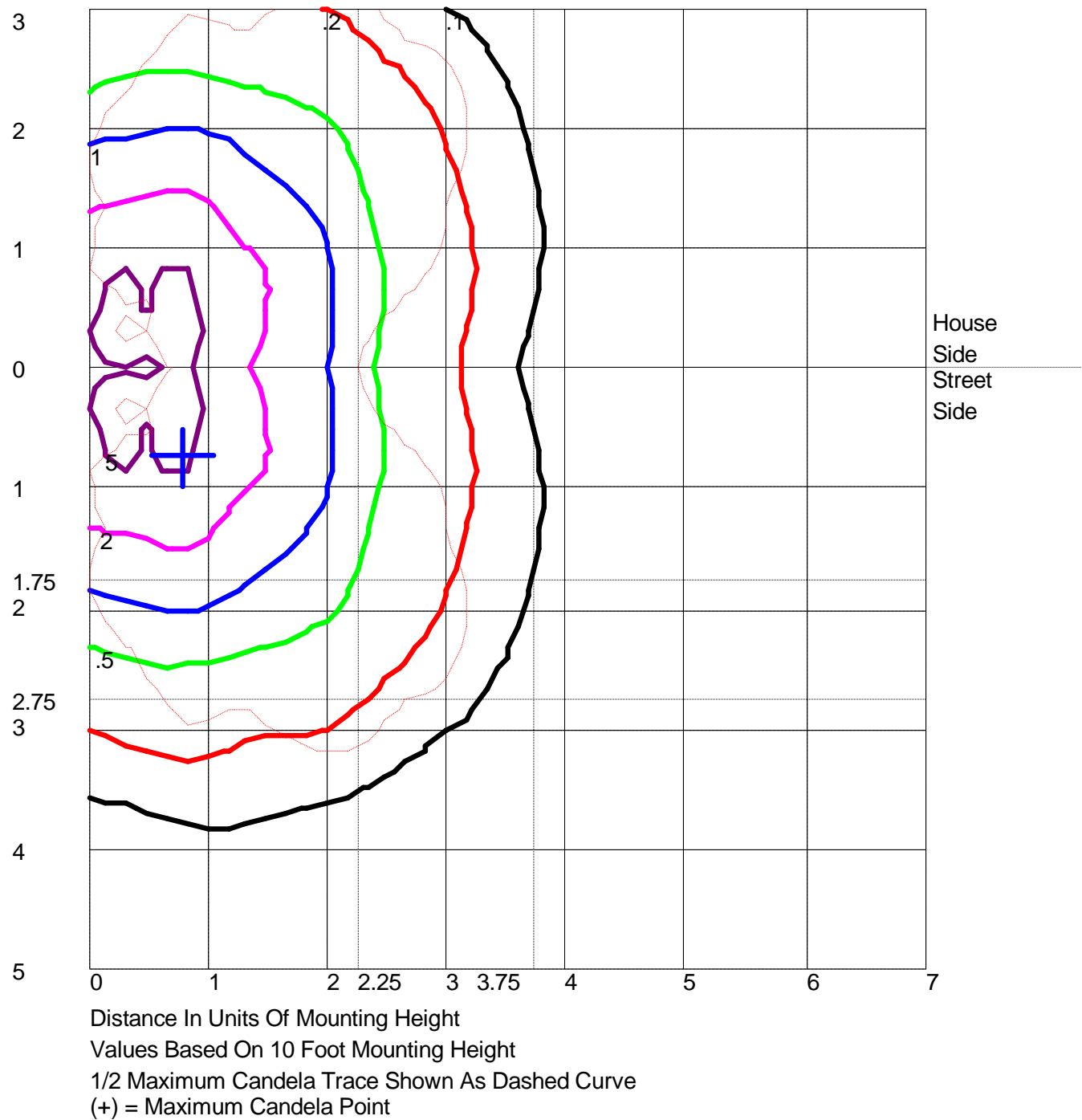
	Lumens	Percent Of Luminaire
Downward Street Side	2821.1	50.0
Downward House Side	2821.1	50.0
Downward Total	5642.2	100.0
Upward Street Side	1.3	0.0
Upward House Side	1.3	0.0
Upward Total	2.6	0.0
Total Flux	5644.8	100.0

POLAR GRAPH



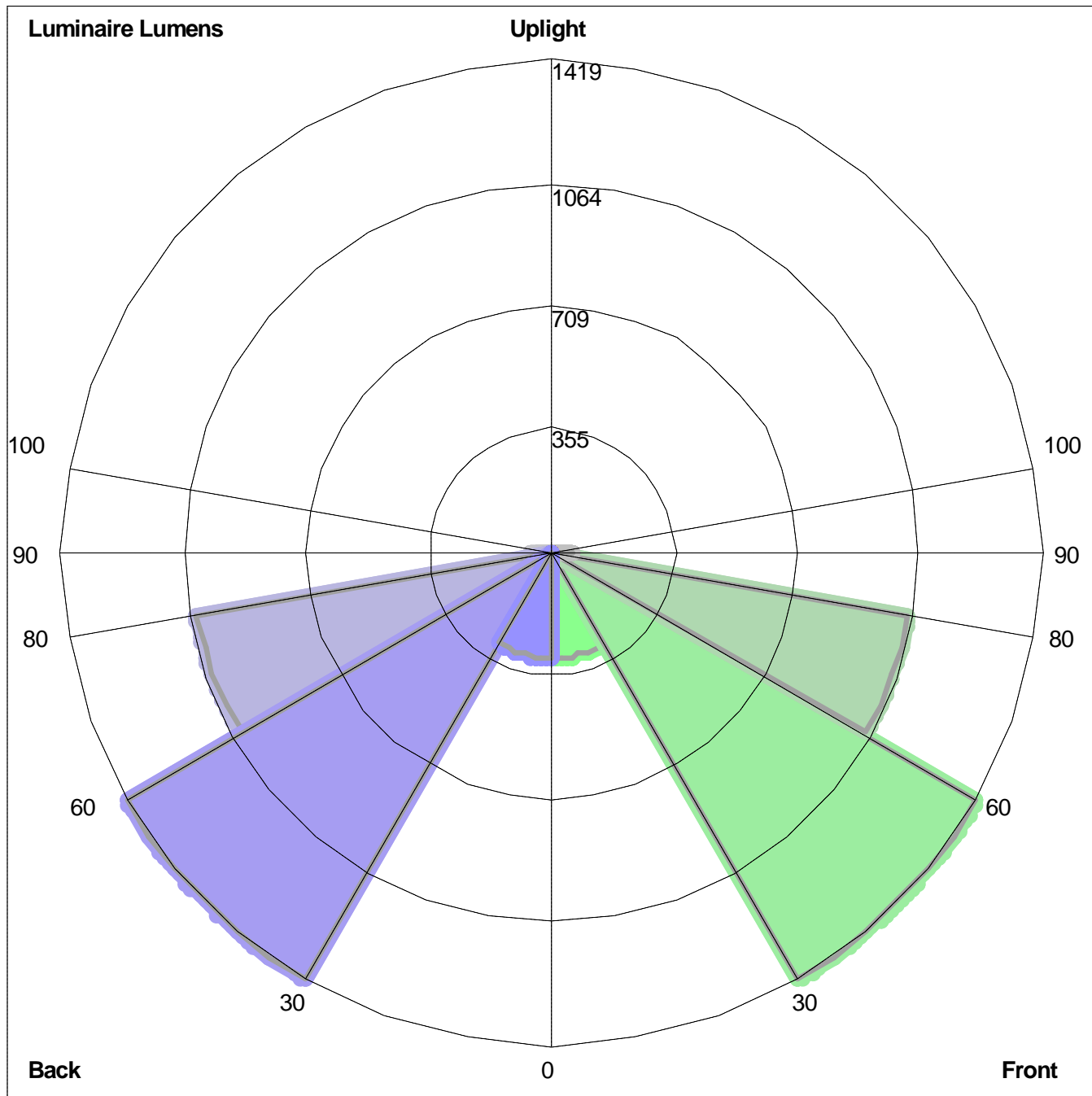
Maximum Candela = 1898 Located At Horizontal Angle = 47.5, Vertical Angle = 47.5  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=303.7, Medium=1418.9, High=1042.6, Very High=55.9  
Back: Low=303.7, Medium=1418.9, High=1042.6, Very High=55.9  
Uplight: Low=0.6, High=2.0

BUG Rating : B3-U1-G1