



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XENM3-PT-5-LED-SS-NW.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-4787  
[TESTLAB]LSI INDUSTRIES, INC  
[ISS DATE]11/25/13  
[TESTDATE]11/25/13  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XENM3-PT-5-LED-SS-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE]LUMENS]5146  
[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	5145
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1870
Maximum Candela Angle	47.5H 50V
Maximum Candela (<90 Degrees Vertical)	1870
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 50V
Maximum Candela At 90 Degrees Vertical	4 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	541 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	205.6	N.A.	4.0
FM - Front-Medium (30-60)	1321.2	N.A.	25.7
FH - Front-High (60-80)	988.8	N.A.	19.2
FVH - Front-Very High (80-90)	56.0	N.A.	1.1
BL - Back-Low (0-30)	205.6	N.A.	4.0
BM - Back-Medium (30-60)	1321.2	N.A.	25.7
BH - Back-High (60-80)	988.8	N.A.	19.2
BVH - Back-Very High (80-90)	56.0	N.A.	1.1
UL - Uplight-Low (90-100)	1.3	N.A.	0.0
UH - Uplight-High (100-180)	1.1	N.A.	0.0
Total	5145.6	N.A.	100.0
BUG Rating	B2-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	127	127	127	127	127	127	127	127	127	127
2.5	127	127	127	127	127	127	122	128	128	128
5.0	159	160	159	158	155	150	139	142	137	133
7.5	222	227	224	208	197	188	165	176	166	154
10.0	292	294	284	294	289	268	262	236	216	189
12.5	322	325	339	361	394	390	376	341	270	229
15.0	348	355	395	446	475	466	471	438	353	288
17.5	368	369	432	514	578	575	566	532	450	344
20.0	381	375	453	560	642	687	682	633	569	435
22.5	368	367	465	587	686	769	756	743	632	492
25.0	414	411	506	610	714	822	813	784	671	552
27.5	401	419	539	656	749	821	818	800	709	573
30.0	441	448	555	684	771	802	815	825	760	671
32.5	555	562	654	720	780	786	812	825	885	870
35.0	750	725	835	829	812	793	804	882	1052	1103
37.5	888	858	985	980	886	814	855	1023	1276	1344
40.0	931	923	1100	1073	1018	941	1033	1214	1449	1407
42.5	918	925	1085	1148	1147	1200	1309	1382	1458	1335
45.0	894	925	1098	1159	1280	1501	1653	1450	1374	1269
47.5	905	935	1076	1124	1380	1711	1850	1479	1306	1210
50.0	902	918	1078	1078	1477	1733	1870	1514	1248	1173
52.5	872	883	1022	1072	1536	1629	1762	1554	1215	1131
55.0	893	905	990	1149	1565	1514	1633	1532	1225	1103
57.5	921	930	1042	1281	1523	1422	1513	1463	1314	1147
60.0	943	951	1069	1415	1461	1344	1420	1414	1445	1213
62.5	926	932	1088	1453	1433	1312	1378	1428	1546	1278
65.0	860	893	1083	1380	1401	1363	1442	1452	1509	1186
67.5	740	820	1011	1202	1346	1442	1555	1408	1256	995
70.0	686	727	940	992	1241	1430	1572	1196	1030	924
72.5	596	634	859	880	1156	1164	1283	1050	927	845
75.0	467	497	724	766	966	922	1052	935	830	705
77.5	254	299	502	586	649	730	864	715	597	451
80.0	167	212	350	397	390	428	541	417	337	262
82.5	99	130	245	243	200	151	179	183	180	150
85.0	46	63	112	94	55	45	58	51	60	64
87.5	16	13	15	12	9	9	13	9	9	14
90.0	1	1	1	2	2	2	4	3	2	2
92.5	1	1	1	1	1	2	3	2	2	1
95.0	1	1	1	1	1	2	3	2	2	1
97.5	0	0	1	1	1	1	2	1	1	1
100.0	0	0	0	0	1	1	2	1	1	0
102.5	0	0	0	0	0	1	1	1	0	0
105.0	0	0	0	0	0	0	1	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	1	0	0	0
112.5	0	0	0	0	0	1	1	0	0	0
115.0	0	0	0	1	1	1	1	1	0	0
117.5	0	0	0	0	0	1	1	0	0	0
120.0	0	0	0	0	1	1	1	1	0	0
122.5	0	0	1	1	1	1	1	1	0	0
125.0	0	0	1	1	1	1	1	1	1	0
127.5	0	0	0	1	1	1	1	1	0	0
130.0	0	0	0	1	1	1	1	1	0	0

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**CANDELA TABULATION - (Cont.)**

132.5	0	0	1	1	1	1	1	1	1	0
135.0	0	0	0	1	1	1	1	1	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	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**

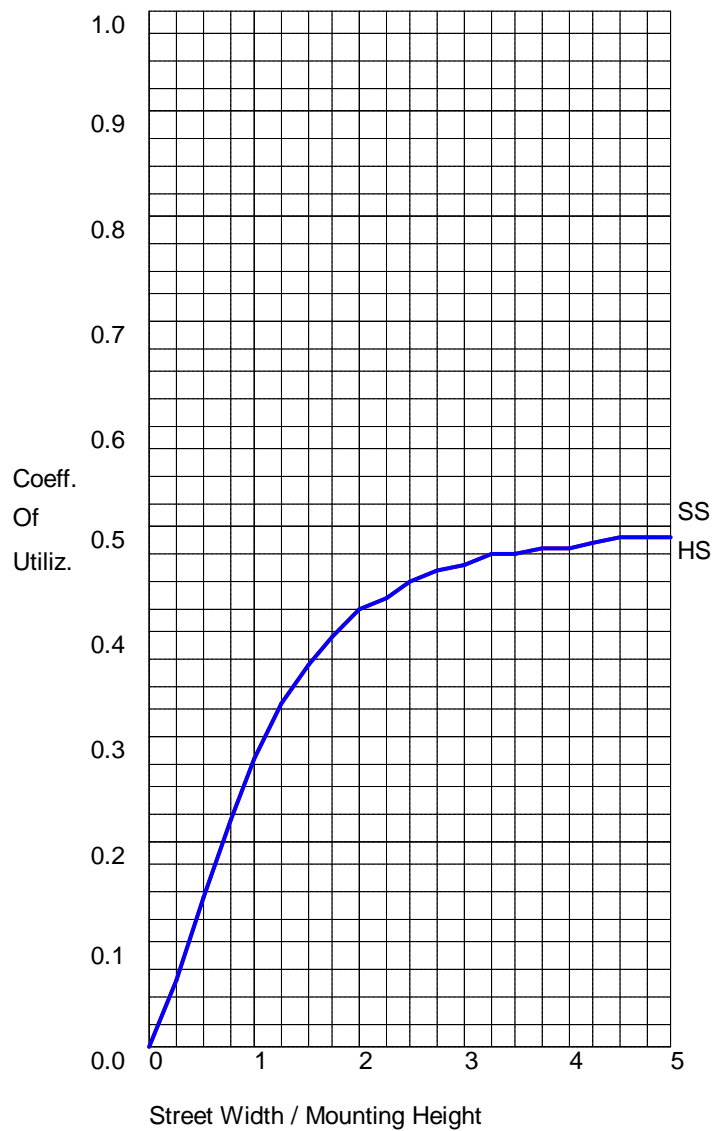
	<u><b>85.0</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	127	127
<b>2.5</b>	129	129
<b>5.0</b>	129	128
<b>7.5</b>	145	142
<b>10.0</b>	167	162
<b>12.5</b>	194	183
<b>15.0</b>	220	209
<b>17.5</b>	257	242
<b>20.0</b>	329	311
<b>22.5</b>	401	388
<b>25.0</b>	446	438
<b>27.5</b>	456	448
<b>30.0</b>	552	537
<b>32.5</b>	750	727
<b>35.0</b>	1006	1000
<b>37.5</b>	1200	1194
<b>40.0</b>	1203	1185
<b>42.5</b>	1148	1123
<b>45.0</b>	1088	1059
<b>47.5</b>	1050	1007
<b>50.0</b>	1018	968
<b>52.5</b>	997	952
<b>55.0</b>	1019	975
<b>57.5</b>	1104	1062
<b>60.0</b>	1197	1157
<b>62.5</b>	1248	1209
<b>65.0</b>	1083	1042
<b>67.5</b>	878	845
<b>70.0</b>	805	767
<b>72.5</b>	709	682
<b>75.0</b>	528	499
<b>77.5</b>	284	253

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CANDELA TABULATION - (Cont.)

80.0	144	108
82.5	69	39
85.0	26	16
87.5	6	3
90.0	1	0
92.5	1	0
95.0	1	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

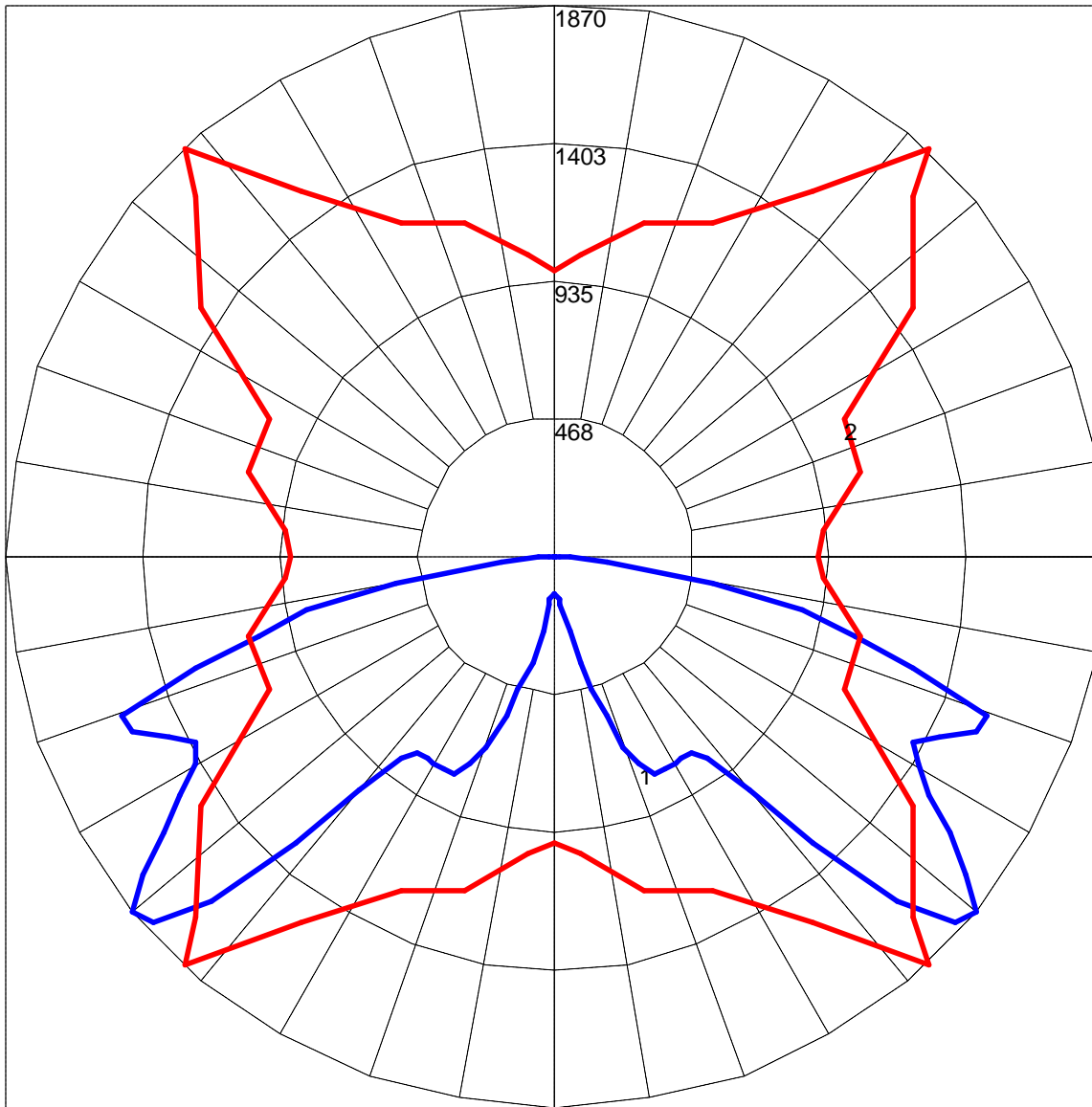
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

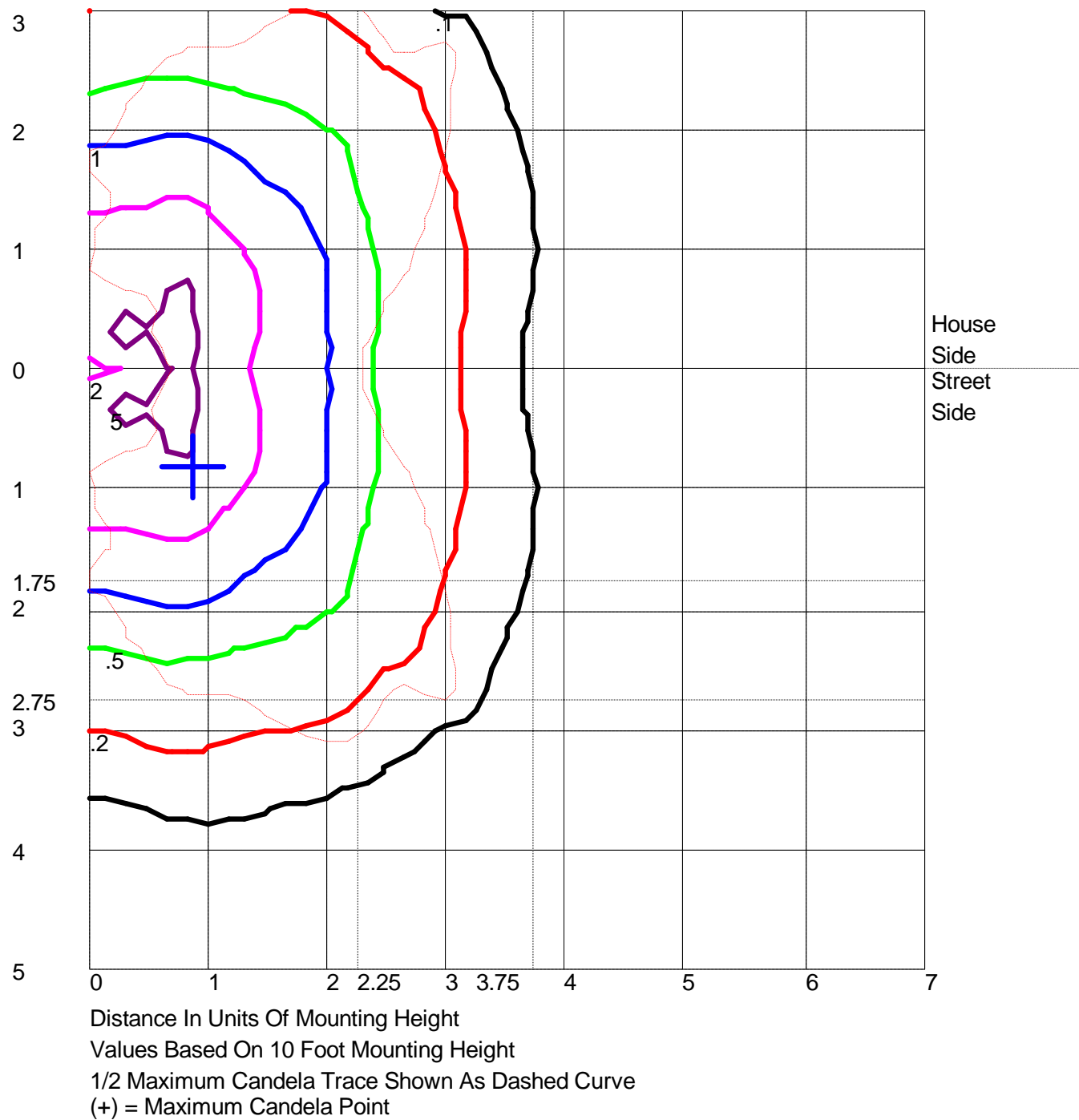
	Lumens	Percent Of Luminaire
Downward Street Side	2571.5	50.0
Downward House Side	2571.5	50.0
Downward Total	5143.0	100.0
Upward Street Side	1.2	0.0
Upward House Side	1.2	0.0
Upward Total	2.4	0.0
Total Flux	5145.4	100.0

POLAR GRAPH



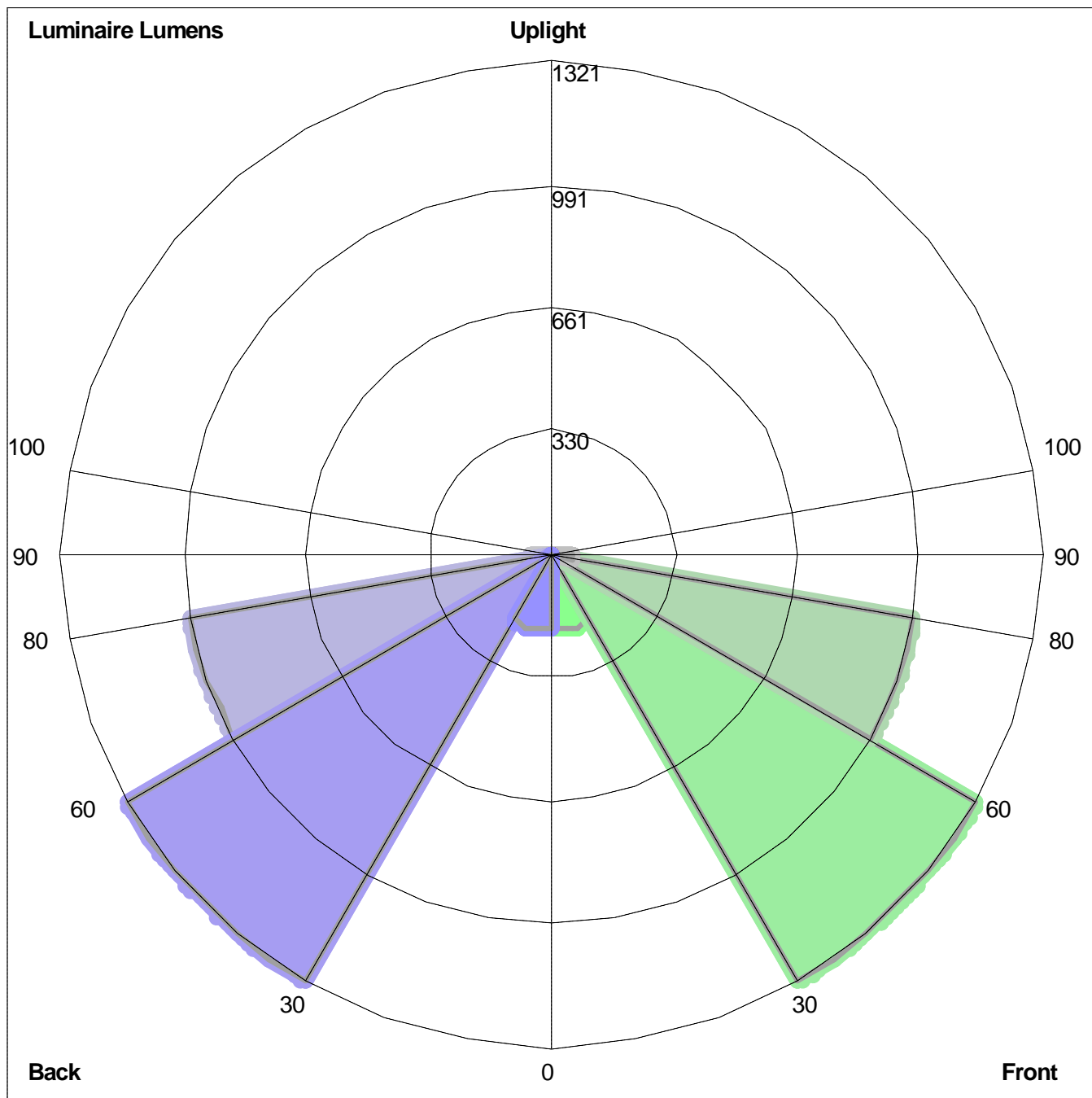
Maximum Candela = 1870 Located At Horizontal Angle = 47.5, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=205.6, Medium=1321.2, High=988.8, Very High=56.0  
Back: Low=205.6, Medium=1321.2, High=988.8, Very High=56.0  
Uplight: Low=1.3, High=1.1

BUG Rating : B2-U1-G1