



## IES ROAD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-4937  
[TESTLAB]LSI INDUSTRIES, INC  
[ISS DATE]12/20/13  
[TESTDATE]12/20/13  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XENM3-PT-5-LED-HO-NW  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE]LUMENS]6894  
[\_SEARCH\_SOURCE]TYPE] 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	6894
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2404
Maximum Candela Angle	45H 50V
Maximum Candela (<90 Degrees Vertical)	2404
Maximum Candela Angle (<90 Degrees Vertical)	45H 50V
Maximum Candela At 90 Degrees Vertical	5 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	522 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	278.7	N.A.	4.0
FM - Front-Medium (30-60)	1782.3	N.A.	25.9
FH - Front-High (60-80)	1313.9	N.A.	19.1
FVH - Front-Very High (80-90)	66.6	N.A.	1.0
BL - Back-Low (0-30)	278.7	N.A.	4.0
BM - Back-Medium (30-60)	1782.3	N.A.	25.9
BH - Back-High (60-80)	1313.9	N.A.	19.1
BVH - Back-Very High (80-90)	66.6	N.A.	1.0
UL - Uplight-Low (90-100)	3.1	N.A.	0.0
UH - Uplight-High (100-180)	8.0	N.A.	0.1
Total	6894.1	N.A.	100.0
BUG Rating	B3-U1-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	174	174	174	174	174	174	174	174	174	174
2.5	175	175	176	175	175	176	176	176	176	175
5.0	232	231	223	216	213	208	203	199	191	188
7.5	315	319	310	304	300	280	253	227	207	193
10.0	377	374	372	394	384	373	341	299	256	234
12.5	413	412	436	490	511	503	449	387	309	270
15.0	488	473	523	581	636	641	572	490	401	325
17.5	497	490	566	696	800	747	725	606	495	363
20.0	498	505	582	750	856	940	864	733	587	424
22.5	506	501	624	823	903	1039	976	861	676	532
25.0	520	547	705	863	964	1055	1048	905	755	624
27.5	545	546	719	892	1011	1094	1091	979	803	672
30.0	602	614	772	910	1027	1078	1117	1071	950	805
32.5	766	774	924	980	1088	1064	1158	1199	1163	1024
35.0	978	984	1163	1165	1124	1113	1234	1419	1528	1434
37.5	1159	1174	1352	1320	1236	1141	1397	1712	1814	1639
40.0	1226	1251	1477	1451	1414	1310	1668	1926	1892	1655
42.5	1212	1246	1483	1540	1584	1670	1878	1927	1794	1567
45.0	1189	1241	1507	1572	1761	2083	1962	1798	1681	1509
47.5	1206	1270	1477	1536	1923	2376	1979	1705	1611	1429
50.0	1190	1242	1445	1478	2029	2404	2038	1622	1541	1374
52.5	1173	1207	1362	1512	2110	2242	2076	1606	1486	1327
55.0	1193	1237	1327	1596	2127	2077	2068	1601	1445	1344
57.5	1235	1287	1372	1797	2050	1945	1958	1707	1519	1454
60.0	1262	1274	1401	1965	1975	1840	1874	1890	1624	1605
62.5	1266	1289	1474	1974	1915	1790	1896	2056	1727	1698
65.0	1161	1229	1512	1876	1857	1834	1969	2015	1593	1421
67.5	982	1098	1377	1596	1786	1948	1929	1599	1308	1191
70.0	938	993	1264	1296	1617	1975	1569	1358	1274	1111
72.5	816	855	1172	1145	1536	1511	1435	1234	1182	989
75.0	602	646	980	1015	1250	1227	1278	1101	984	759
77.5	319	392	660	784	849	985	966	767	526	321
80.0	222	285	455	501	487	522	519	402	295	153
82.5	119	166	318	308	232	157	194	214	181	81
85.0	57	81	152	106	56	52	62	60	78	37
87.5	9	12	16	13	10	11	11	9	8	7
90.0	3	3	3	3	3	5	5	4	4	3
92.5	2	2	3	3	3	4	4	4	3	2
95.0	2	3	3	3	3	4	4	4	3	2
97.5	2	2	2	2	3	3	3	3	2	1
100.0	2	2	2	2	2	3	3	2	2	1
102.5	2	2	2	2	2	3	2	2	2	1
105.0	1	1	2	2	2	2	2	2	1	1
107.5	1	1	1	2	2	2	2	1	1	1
110.0	1	1	2	2	2	2	2	2	1	1
112.5	1	1	2	2	2	2	2	2	1	1
115.0	2	2	2	2	3	3	2	2	2	1
117.5	2	2	2	2	3	3	2	2	2	1
120.0	2	2	2	3	3	3	3	2	2	2
122.5	2	2	2	3	3	3	3	2	2	2
125.0	2	2	3	3	3	3	3	2	2	2
127.5	2	2	2	3	3	3	3	2	2	2
130.0	2	2	2	3	3	3	2	2	2	2

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**CANDELA TABULATION - (Cont.)**

132.5	2	2	3	3	3	3	3	2	2	2
135.0	2	2	2	2	3	3	2	2	2	2
137.5	1	1	1	2	2	2	1	1	1	1
140.0	1	0	1	1	1	1	1	0	0	0
142.5	0	1	1	1	1	1	1	0	0	0
145.0	0	0	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	1	1	0	0
150.0	0	1	1	1	1	1	1	1	0	0
152.5	0	0	0	0	1	0	0	0	0	0
155.0	0	0	1	1	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	1	1	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. Horizontal Angles**

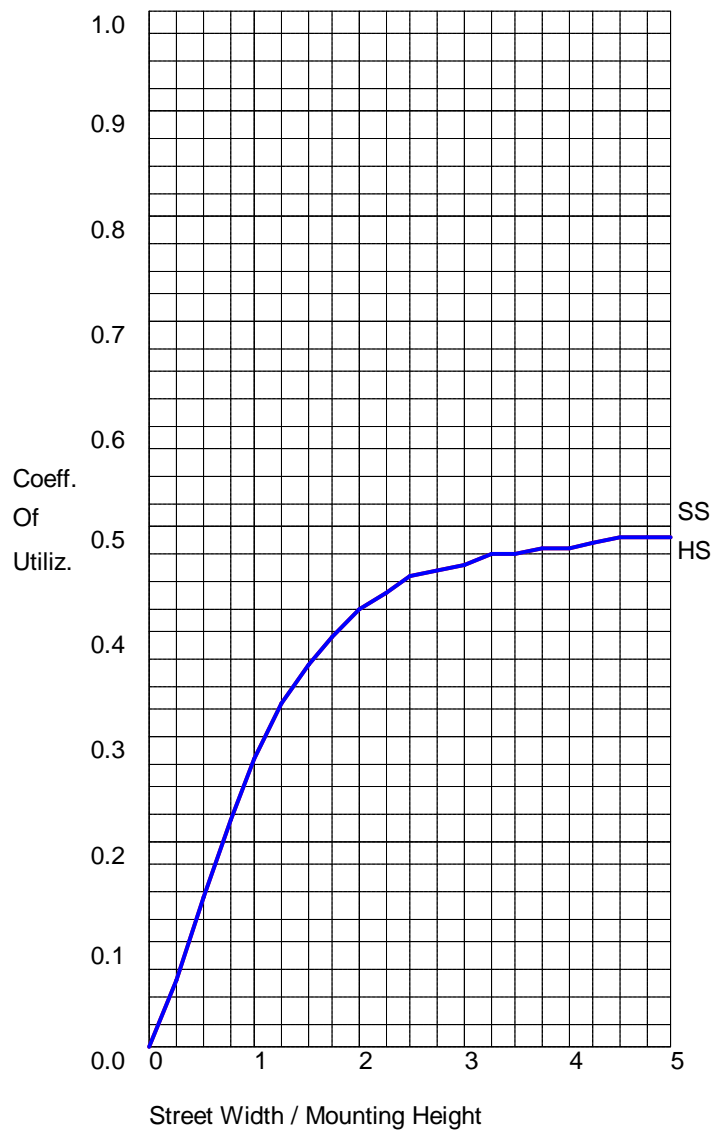
	<u>90</u>
0.0	174
2.5	175
5.0	187
7.5	193
10.0	229
12.5	263
15.0	309
17.5	342
20.0	410
22.5	516
25.0	627
27.5	672
30.0	797
32.5	1011
35.0	1403
37.5	1617
40.0	1617
42.5	1504
45.0	1424
47.5	1350
50.0	1293
52.5	1264
55.0	1274
57.5	1391
60.0	1551
62.5	1635
65.0	1358
67.5	1133
70.0	1053
72.5	940
75.0	678
77.5	255

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CANDELA TABULATION - (Cont.)

80.0	111
82.5	43
85.0	18
87.5	4
90.0	1
92.5	1
95.0	2
97.5	1
100.0	1
102.5	1
105.0	1
107.5	1
110.0	1
112.5	1
115.0	1
117.5	1
120.0	1
122.5	2
125.0	2
127.5	2
130.0	2
132.5	2
135.0	2
137.5	1
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

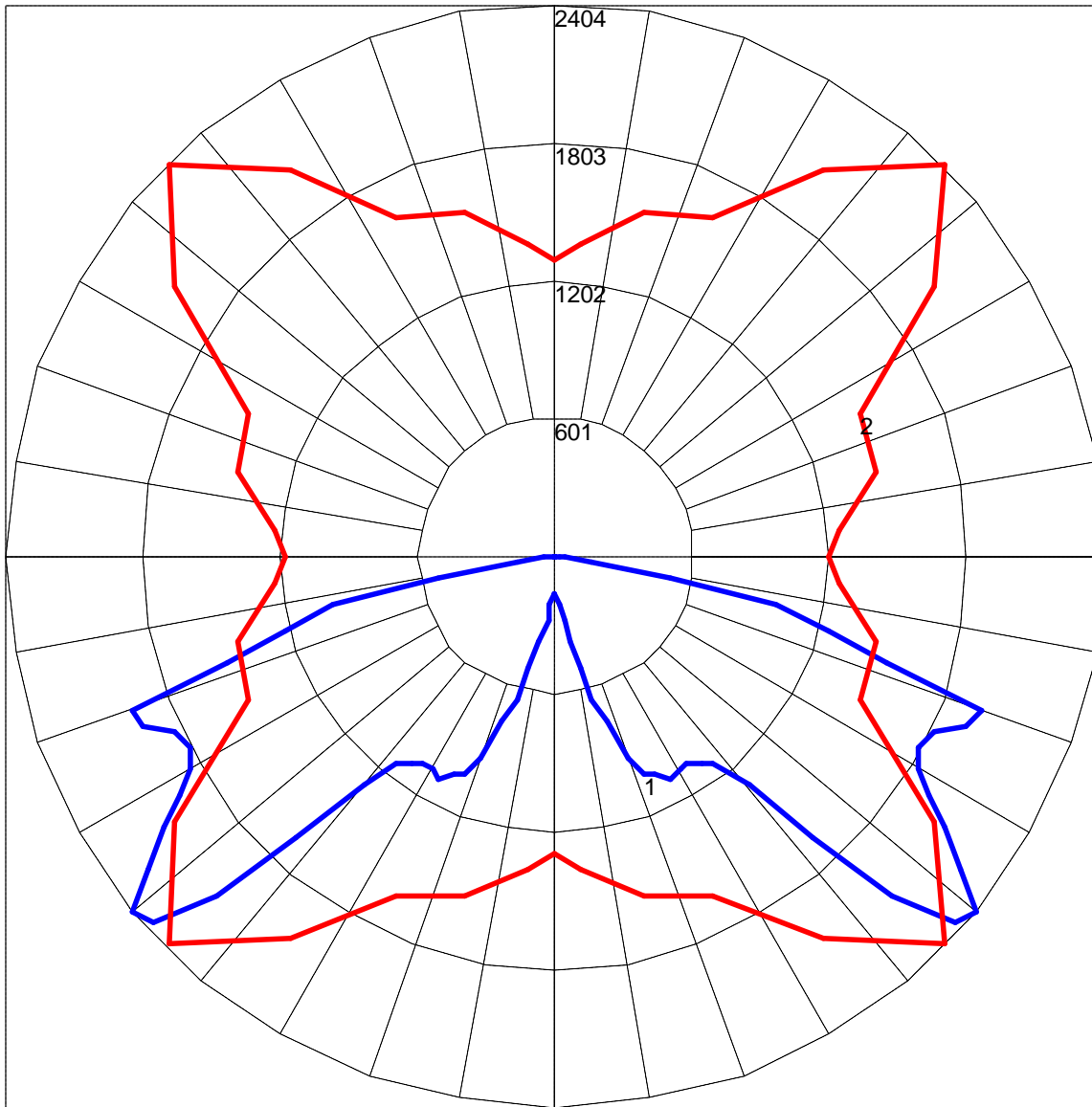
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

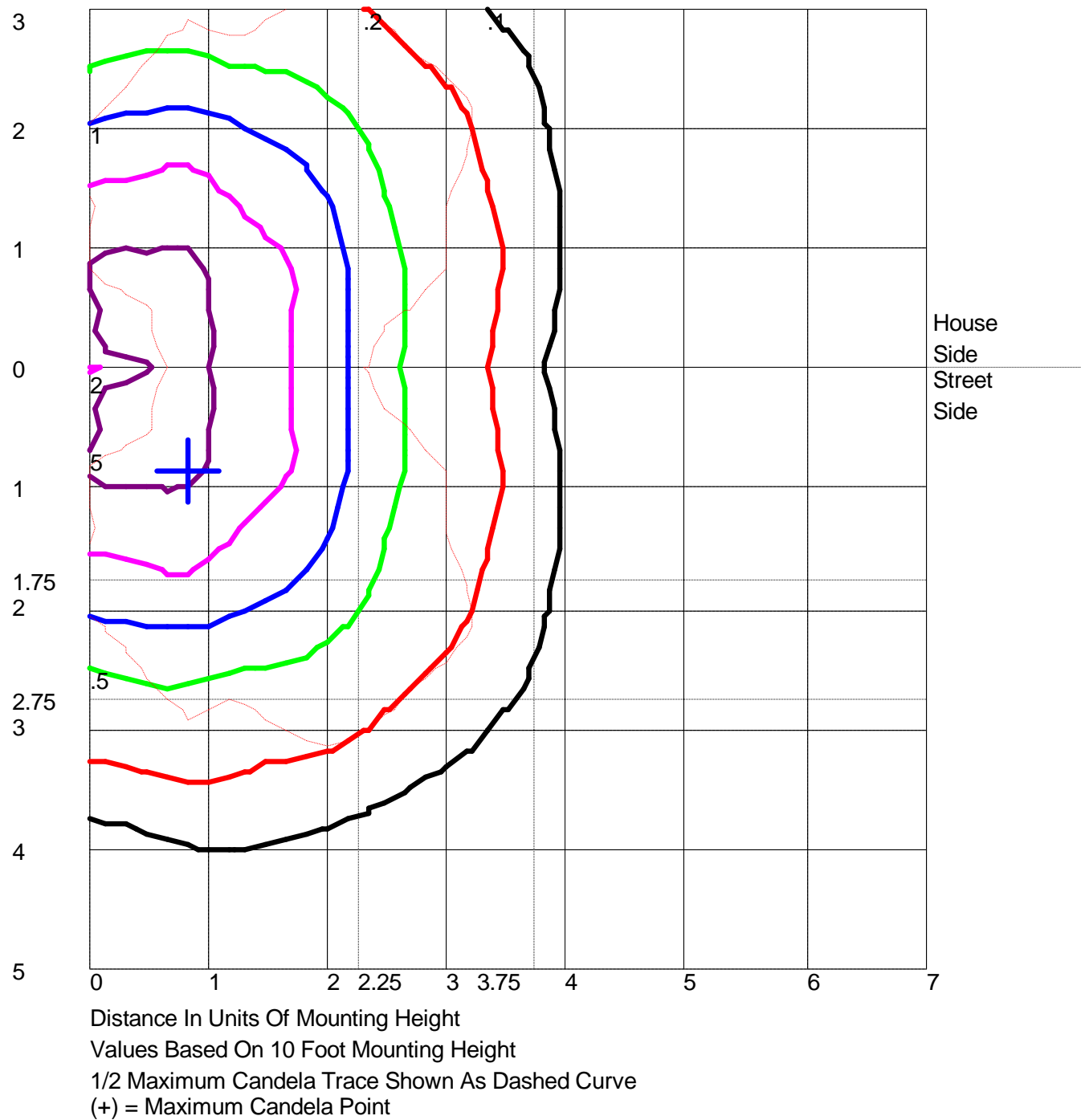
	Lumens	Percent Of Luminaire
Downward Street Side	3441.4	49.9
Downward House Side	3441.4	49.9
Downward Total	6882.8	99.8
Upward Street Side	5.6	0.1
Upward House Side	5.6	0.1
Upward Total	11.2	0.2
Total Flux	6894.0	100.0

POLAR GRAPH



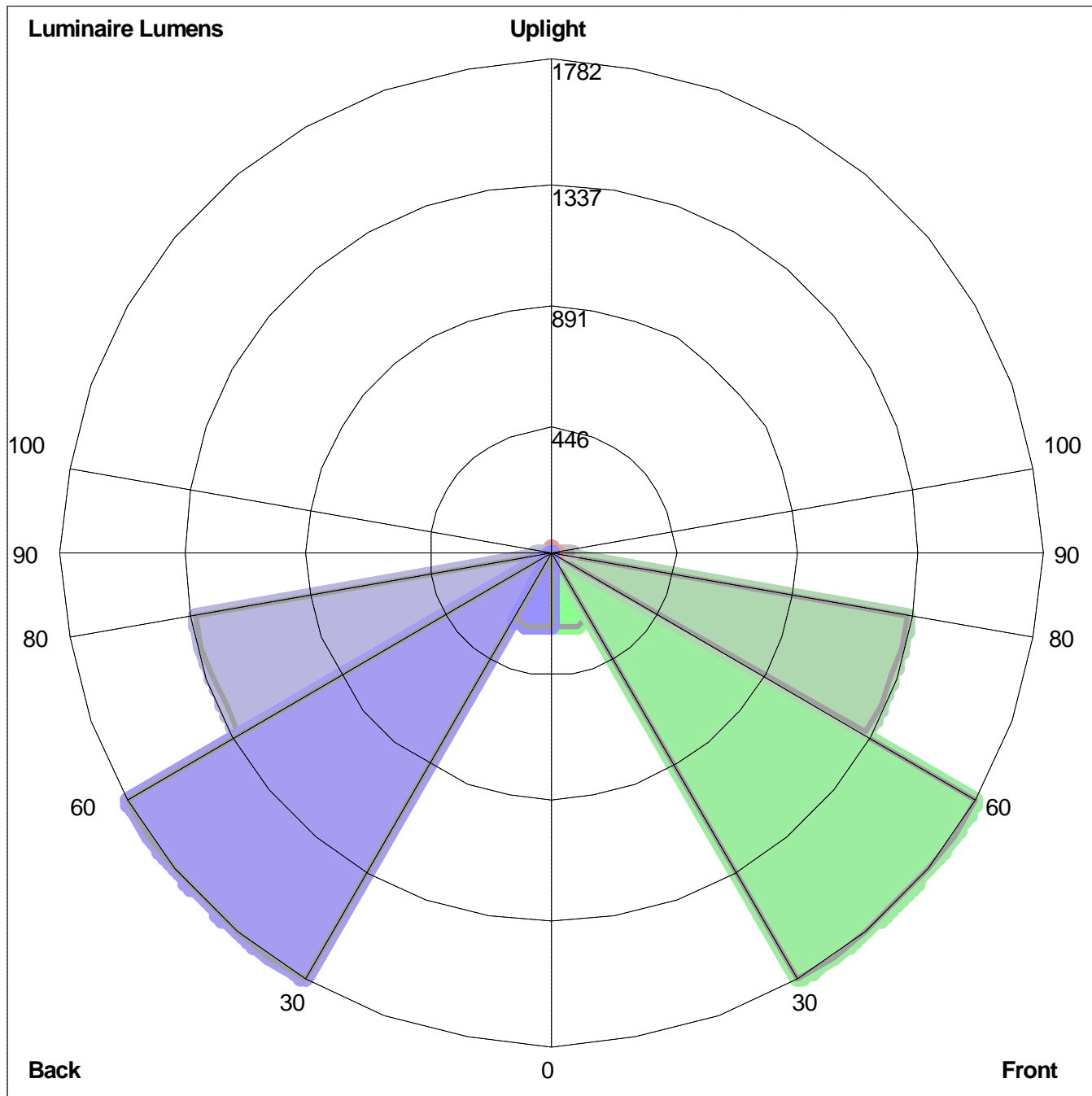
Maximum Candela = 2404 Located At Horizontal Angle = 45, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=278.7, Medium=1782.3, High=1313.9, Very High=66.6  
Back: Low=278.7, Medium=1782.3, High=1313.9, Very High=66.6  
Uplight: Low=3.1, High=8.0

BUG Rating : B3-U1-G1