



IES ROAD REPORT

PHOTOMETRIC FILENAME : XENM3-SA-5-LED-HO-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4719
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/15/13
[TEST DATE]11/22/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-5-LED-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]8146
[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	8146
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2762
Maximum Candela Angle	47.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	2762
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	637 (7.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	442.4	N.A.	5.4
FM - Front-Medium (30-60)	2047.2	N.A.	25.1
FH - Front-High (60-80)	1505.1	N.A.	18.5
FVH - Front-Very High (80-90)	76.3	N.A.	0.9
BL - Back-Low (0-30)	442.4	N.A.	5.4
BM - Back-Medium (30-60)	2047.2	N.A.	25.1
BH - Back-High (60-80)	1505.1	N.A.	18.5
BVH - Back-Very High (80-90)	76.3	N.A.	0.9
UL - Uplight-Low (90-100)	0.7	N.A.	0.0
UH - Uplight-High (100-180)	2.5	N.A.	0.0
Total	8145.2	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	400	400	400	400	400	400	400	400	400	400
2.5	396	398	397	399	400	402	409	404	405	408
5.0	459	454	450	452	452	460	471	462	456	455
7.5	598	586	567	573	568	559	562	551	558	549
10.0	668	667	670	707	746	764	788	724	678	647
12.5	713	720	758	866	967	1016	1072	971	850	753
15.0	747	763	846	999	1169	1225	1280	1189	1028	865
17.5	785	800	906	1134	1327	1384	1424	1297	1149	951
20.0	826	840	963	1198	1422	1494	1545	1426	1257	1022
22.5	863	878	1046	1284	1417	1557	1562	1471	1293	1075
25.0	816	843	1082	1293	1433	1516	1494	1430	1294	1119
27.5	766	792	1020	1254	1424	1469	1416	1411	1295	1081
30.0	788	822	1033	1242	1352	1397	1343	1383	1303	1186
32.5	934	960	1150	1265	1280	1300	1261	1344	1436	1385
35.0	1146	1181	1373	1424	1294	1258	1234	1431	1629	1756
37.5	1304	1347	1588	1600	1408	1279	1320	1588	1984	2107
40.0	1372	1434	1702	1706	1614	1479	1623	1883	2257	2182
42.5	1339	1426	1701	1803	1809	1857	2067	2147	2259	2040
45.0	1313	1413	1701	1822	2042	2352	2502	2268	2123	1959
47.5	1323	1440	1666	1792	2183	2677	2762	2276	2001	1857
50.0	1308	1381	1631	1731	2304	2713	2696	2339	1883	1799
52.5	1274	1348	1549	1731	2413	2541	2520	2352	1868	1723
55.0	1306	1370	1534	1827	2428	2347	2314	2329	1887	1700
57.5	1406	1460	1617	2022	2336	2174	2156	2226	1999	1783
60.0	1401	1470	1656	2229	2238	2056	2016	2148	2203	1914
62.5	1369	1419	1679	2271	2207	2008	1989	2176	2376	2043
65.0	1284	1392	1723	2163	2147	2096	2107	2236	2373	1907
67.5	1123	1256	1587	1865	2078	2235	2290	2205	1892	1528
70.0	1035	1133	1455	1525	1928	2233	2201	1813	1571	1414
72.5	907	989	1326	1353	1789	1779	1719	1621	1423	1296
75.0	651	741	1089	1173	1453	1404	1446	1426	1271	1101
77.5	395	480	781	908	986	1108	1171	1098	864	620
80.0	266	341	542	601	592	637	572	578	465	353
82.5	133	164	368	371	289	220	189	246	231	207
85.0	57	65	147	127	74	53	56	68	73	86
87.5	7	5	11	14	10	9	5	7	7	7
90.0	0	0	0	1	1	1	1	1	0	0
92.5	0	0	0	1	1	2	1	1	0	0
95.0	0	0	0	1	2	2	2	1	1	0
97.5	0	0	0	1	1	2	2	1	1	0
100.0	0	0	1	1	2	2	2	1	1	0
102.5	0	0	1	1	1	1	2	1	1	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	0	0
115.0	0	0	1	1	1	1	2	1	1	0
117.5	0	0	1	1	1	1	1	1	1	0
120.0	0	0	0	1	1	1	1	1	0	0
122.5	0	0	1	1	1	1	1	1	1	0
125.0	0	0	0	1	1	1	1	1	1	0
127.5	0	0	1	1	1	1	1	1	1	0
130.0	1	1	1	1	1	1	1	1	1	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	1	1	1	1	1	0	0
135.0	0	0	1	1	1	1	1	1	0	0
137.5	0	0	0	1	1	1	1	1	0	0
140.0	0	0	0	1	1	1	1	1	0	0
142.5	0	0	0	0	1	1	1	0	0	0
145.0	0	0	0	0	1	1	1	0	0	0
147.5	0	0	0	1	1	1	1	1	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**

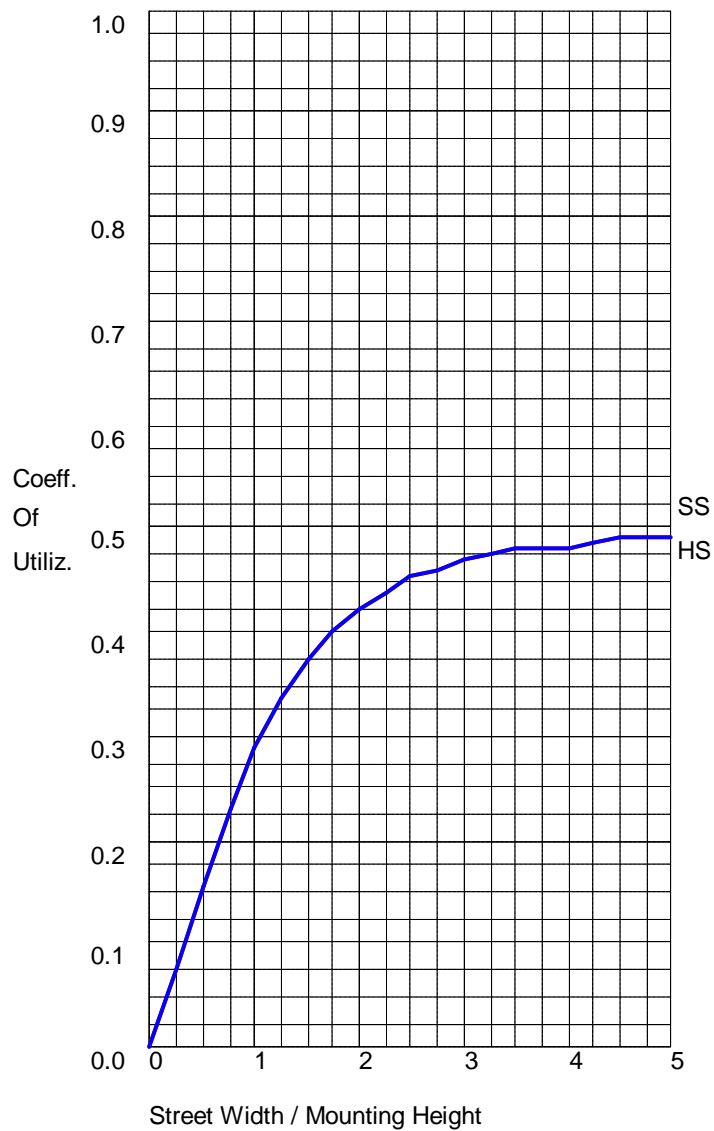
	<u>85.0</u>	<u>90.0</u>
0.0	400	400
2.5	408	407
5.0	453	450
7.5	539	535
10.0	607	600
12.5	691	696
15.0	796	792
17.5	820	807
20.0	835	812
22.5	910	890
25.0	950	941
27.5	889	872
30.0	997	975
32.5	1177	1139
35.0	1579	1497
37.5	1810	1744
40.0	1810	1732
42.5	1707	1623
45.0	1634	1542
47.5	1553	1467
50.0	1512	1410
52.5	1467	1374
55.0	1486	1398
57.5	1606	1522
60.0	1759	1690
62.5	1863	1788
65.0	1572	1487
67.5	1278	1213
70.0	1179	1130
72.5	1049	1009
75.0	790	759
77.5	362	296

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CANDELA TABULATION - (Cont.)

80.0	190	130
82.5	85	44
85.0	34	20
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

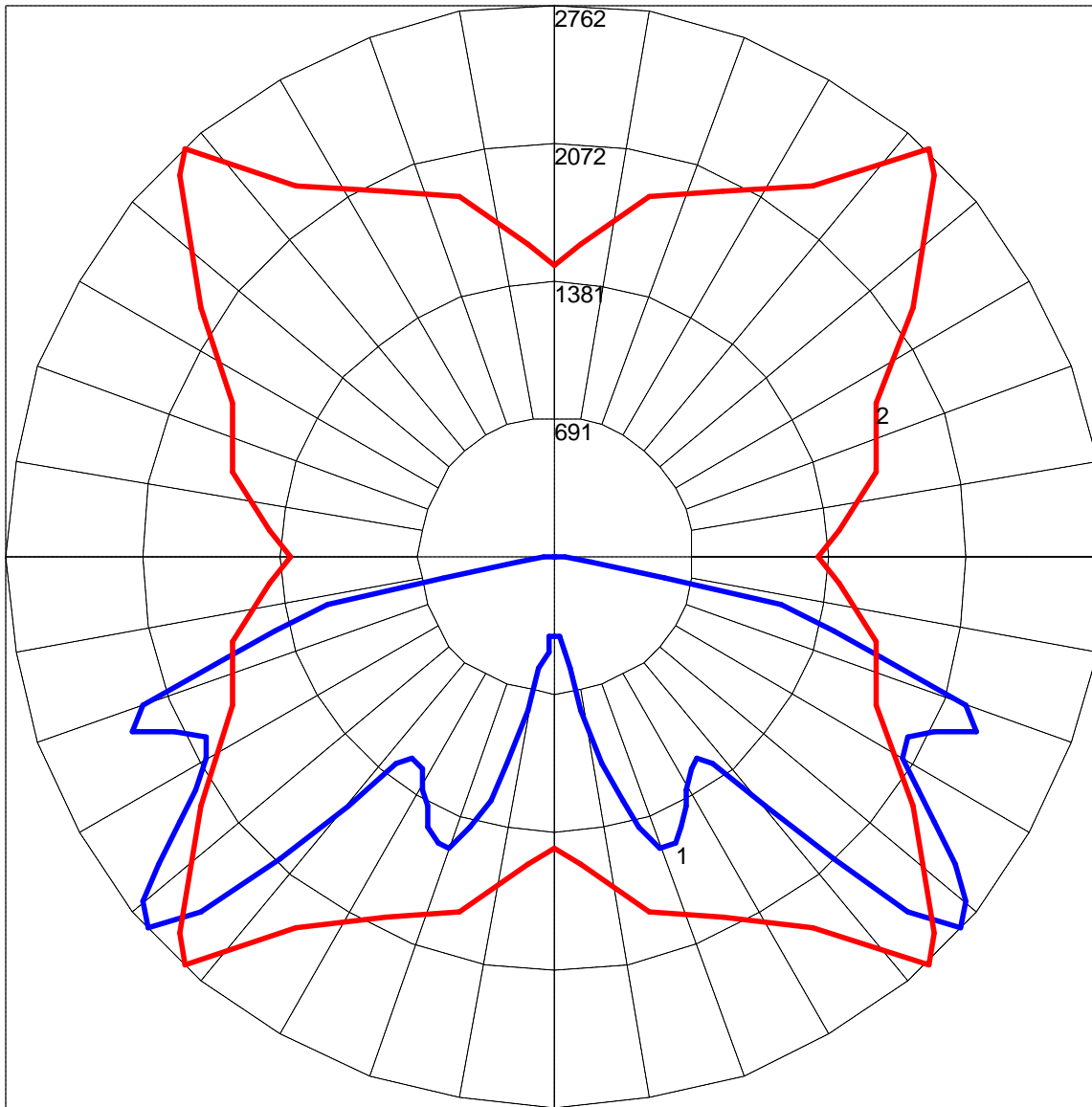
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

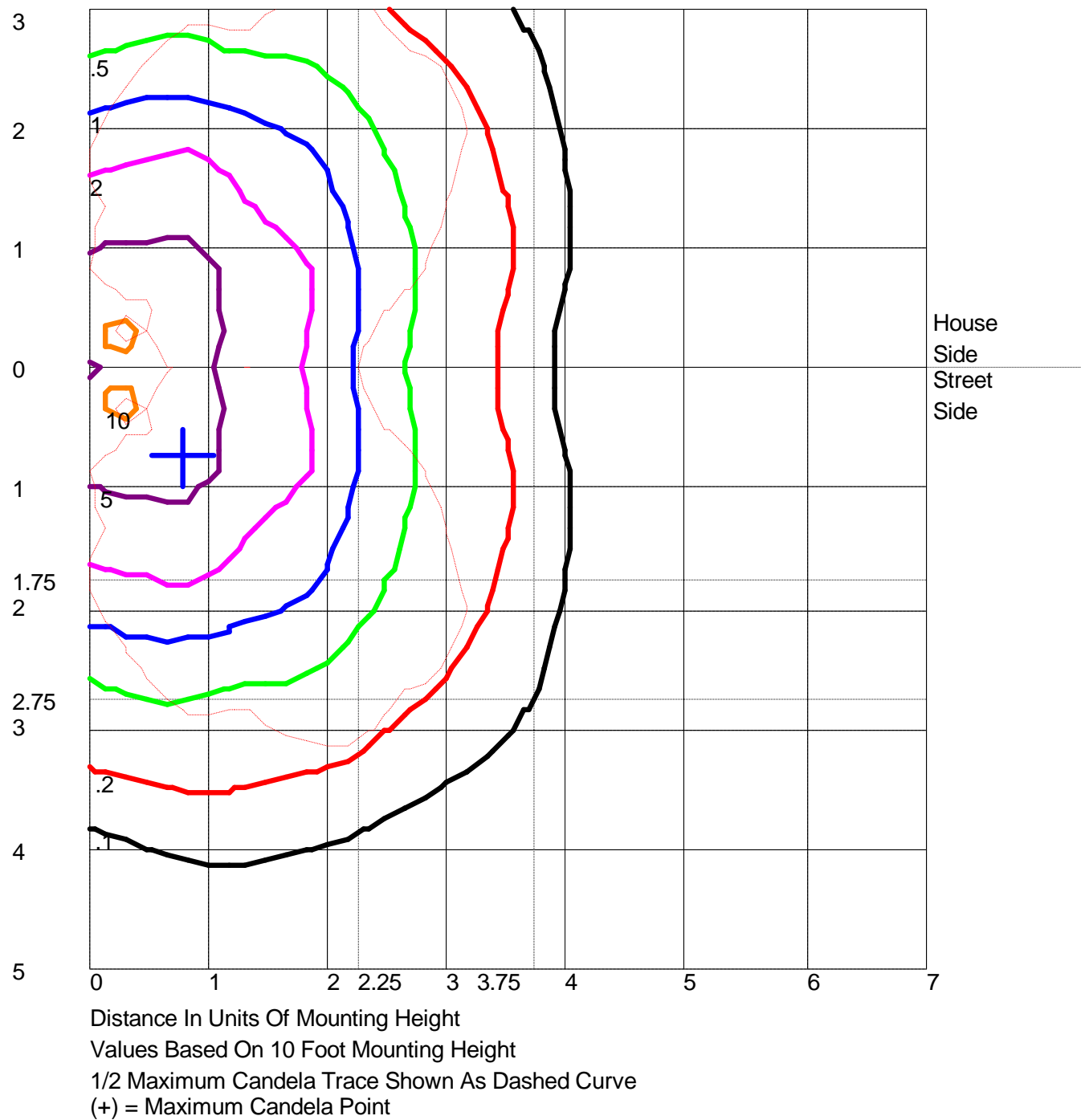
	Lumens	Percent Of Luminaire
Downward Street Side	4071.2	50.0
Downward House Side	4071.2	50.0
Downward Total	8142.4	100.0
Upward Street Side	1.6	0.0
Upward House Side	1.6	0.0
Upward Total	3.2	0.0
Total Flux	8145.6	100.0

POLAR GRAPH

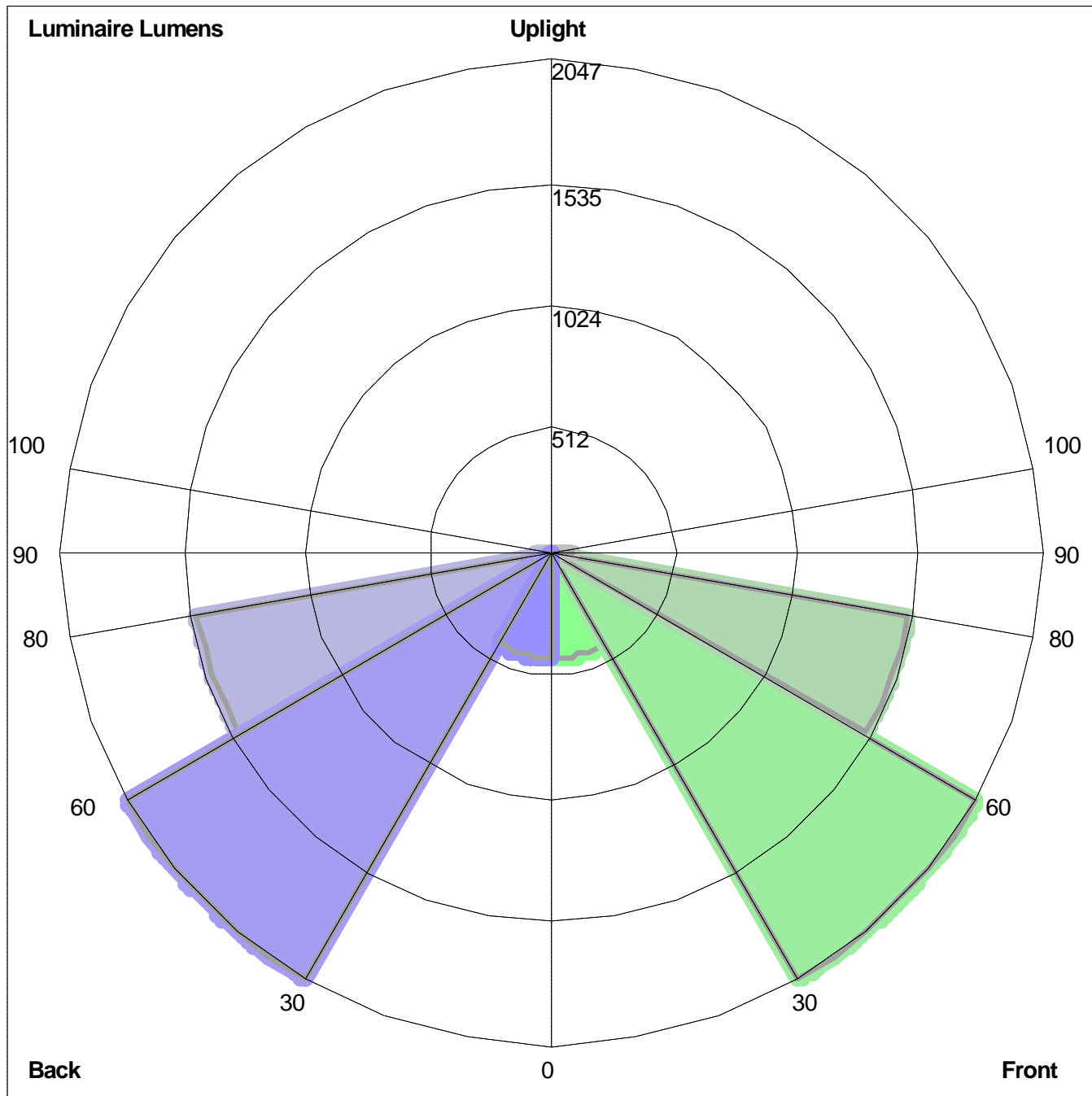


Maximum Candela = 2762 Located At Horizontal Angle = 47.5, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=442.4, Medium=2047.2, High=1505.1, Very High=76.3
Back: Low=442.4, Medium=2047.2, High=1505.1, Very High=76.3
Uplight: Low=0.7, High=2.5

BUG Rating : B3-U1-G1