



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4691
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/11/13
[TEST DATE]11/22/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-5-LED-SS-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]5871
[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	5871
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1940
Maximum Candela Angle	47.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	1940
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	522 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	318.5	N.A.	5.4
FM - Front-Medium (30-60)	1462.6	N.A.	24.9
FH - Front-High (60-80)	1092.8	N.A.	18.6
FVH - Front-Very High (80-90)	60.1	N.A.	1.0
BL - Back-Low (0-30)	318.5	N.A.	5.4
BM - Back-Medium (30-60)	1462.6	N.A.	24.9
BH - Back-High (60-80)	1092.8	N.A.	18.6
BVH - Back-Very High (80-90)	60.1	N.A.	1.0
UL - Uplight-Low (90-100)	0.5	N.A.	0.0
UH - Uplight-High (100-180)	1.9	N.A.	0.0
Total	5870.4	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	284	284	284	284	284	284	284	284	284	284
2.5	283	283	284	285	285	286	285	287	288	288
5.0	321	322	322	324	326	328	321	329	325	321
7.5	404	403	400	397	397	390	380	392	395	390
10.0	493	489	487	509	525	523	510	506	484	458
12.5	524	523	559	632	700	720	723	675	606	534
15.0	552	555	620	721	848	884	890	843	728	611
17.5	582	584	664	819	965	1000	1001	918	823	676
20.0	623	628	711	882	1031	1083	1087	1035	893	722
22.5	603	618	736	927	1053	1143	1136	1076	931	760
25.0	587	606	754	907	1035	1122	1112	1048	936	804
27.5	560	580	755	902	1017	1071	1042	1040	937	772
30.0	570	592	729	893	990	1001	985	1022	941	841
32.5	639	663	807	896	949	944	945	988	1056	994
35.0	781	804	937	980	941	915	896	1021	1199	1251
37.5	920	946	1092	1104	982	927	943	1128	1445	1507
40.0	971	1018	1204	1195	1115	1063	1163	1349	1621	1557
42.5	961	1027	1210	1277	1265	1308	1487	1540	1617	1465
45.0	942	1017	1216	1298	1435	1628	1777	1606	1536	1407
47.5	952	1031	1191	1280	1556	1871	1940	1610	1450	1344
50.0	947	1001	1180	1254	1644	1920	1926	1633	1379	1312
52.5	909	957	1111	1246	1710	1821	1821	1661	1362	1251
55.0	933	970	1078	1303	1734	1695	1683	1656	1355	1223
57.5	982	1018	1142	1423	1673	1585	1565	1605	1423	1291
60.0	1008	1054	1191	1551	1595	1496	1466	1561	1556	1383
62.5	982	1027	1208	1597	1584	1455	1430	1578	1677	1464
65.0	940	1003	1240	1543	1554	1501	1501	1609	1696	1380
67.5	813	929	1161	1376	1505	1592	1611	1577	1401	1106
70.0	752	810	1059	1137	1408	1597	1626	1322	1144	1009
72.5	662	720	949	985	1291	1318	1307	1166	1026	921
75.0	504	575	807	870	1070	1036	1123	1042	914	792
77.5	285	345	559	674	736	812	896	810	642	494
80.0	189	247	402	447	442	491	522	447	356	282
82.5	88	119	267	280	227	176	186	201	188	160
85.0	42	56	109	105	62	45	59	53	61	64
87.5	16	16	16	13	9	8	11	8	7	10
90.0	0	0	0	1	1	1	1	1	0	0
92.5	0	0	0	1	1	1	1	1	0	0
95.0	0	0	0	1	1	1	1	1	0	0
97.5	0	0	0	1	1	1	1	1	0	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	0	0
107.5	0	0	0	0	1	1	1	1	0	0
110.0	0	0	0	0	1	1	1	0	0	0
112.5	0	0	1	1	1	1	1	1	1	0
115.0	1	1	1	1	1	1	1	1	1	0
117.5	0	0	1	1	1	1	1	1	0	0
120.0	0	0	0	1	1	1	1	1	0	0
122.5	0	0	0	1	1	1	1	1	0	0
125.0	0	0	0	1	1	1	1	1	0	0
127.5	0	0	1	1	1	1	1	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	0	0	1	1	1	0	0	0
137.5	0	0	0	1	1	1	1	0	0	0
140.0	0	0	0	0	0	0	1	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	1	0	0	1	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	1	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**

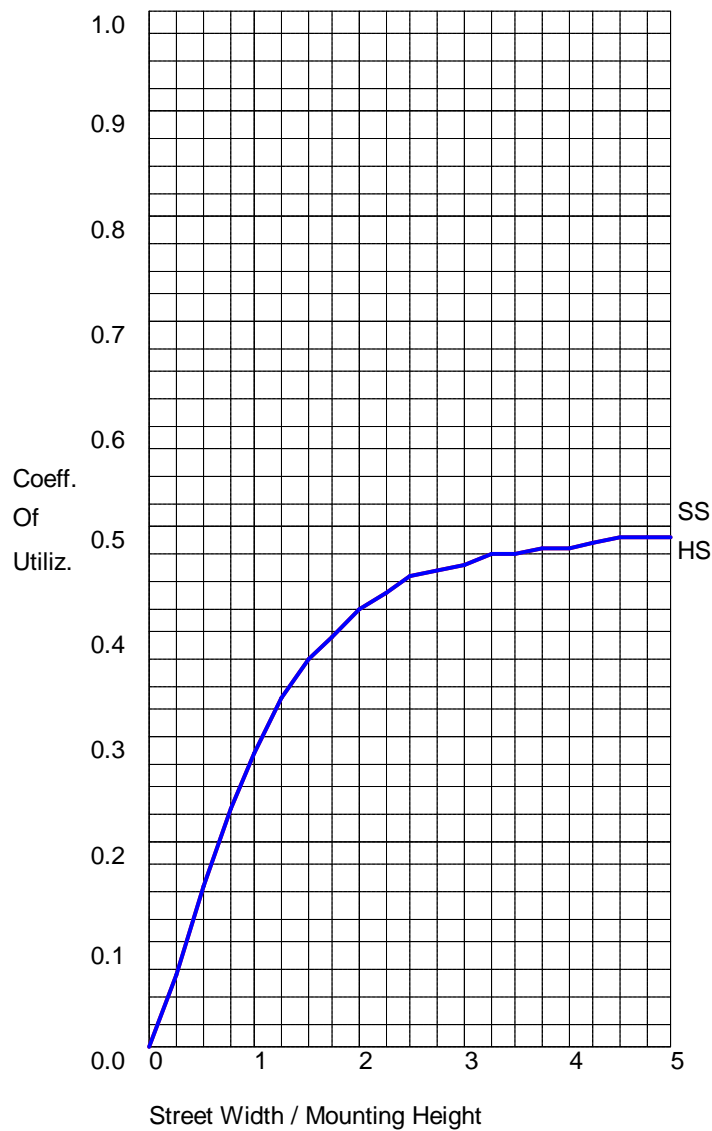
	<u>85.0</u>	<u>90.0</u>
0.0	284	284
2.5	289	288
5.0	320	320
7.5	377	376
10.0	432	425
12.5	494	484
15.0	560	548
17.5	589	576
20.0	606	586
22.5	652	638
25.0	680	674
27.5	630	618
30.0	698	698
32.5	833	812
35.0	1107	1082
37.5	1295	1258
40.0	1286	1238
42.5	1223	1169
45.0	1163	1109
47.5	1114	1061
50.0	1092	1026
52.5	1059	994
55.0	1069	1015
57.5	1161	1112
60.0	1267	1220
62.5	1331	1283
65.0	1153	1104
67.5	919	877
70.0	845	809
72.5	754	733
75.0	570	537
77.5	292	264

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CANDELA TABULATION - (Cont.)

80.0	145	109
82.5	72	40
85.0	27	17
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

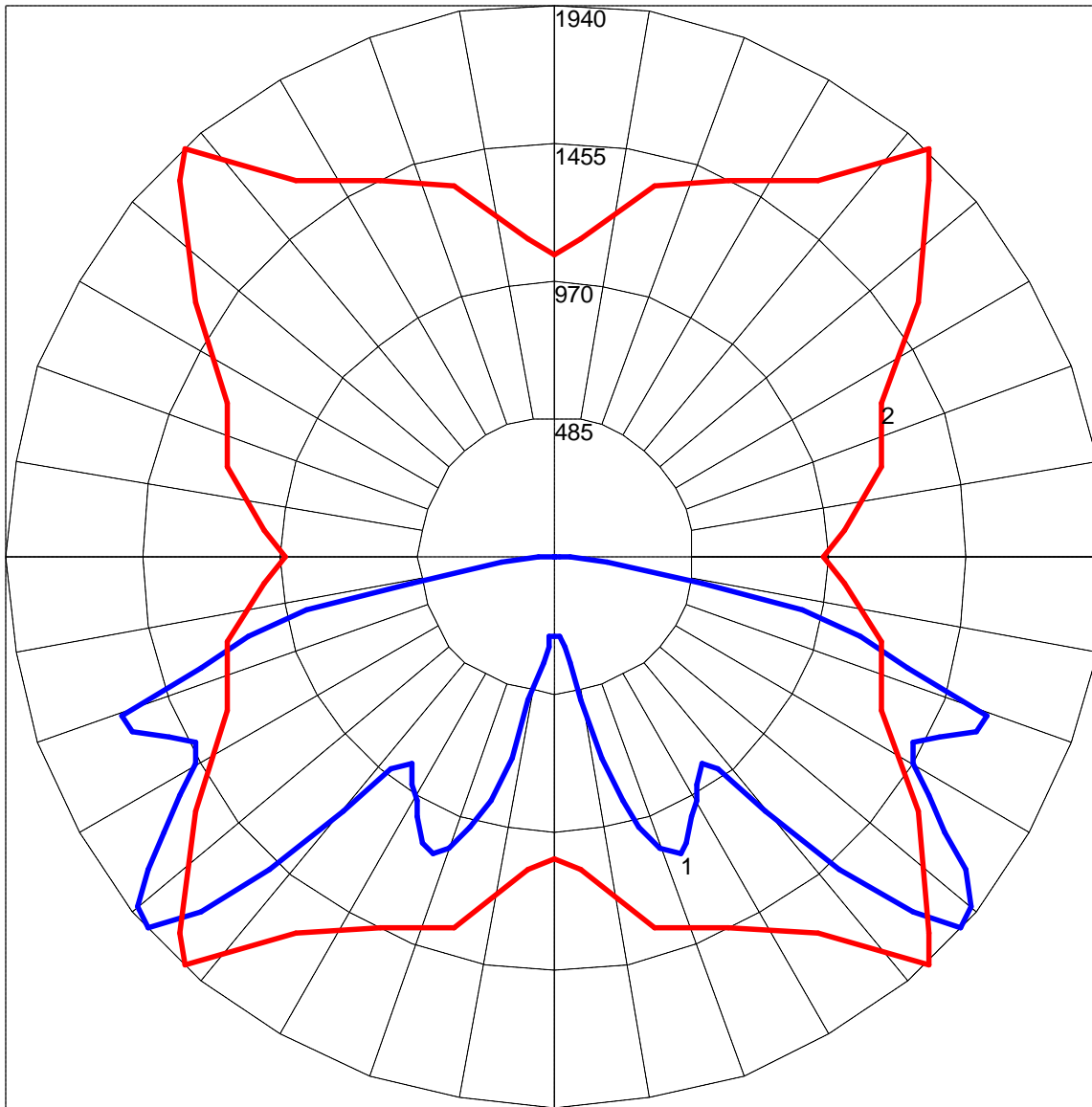
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

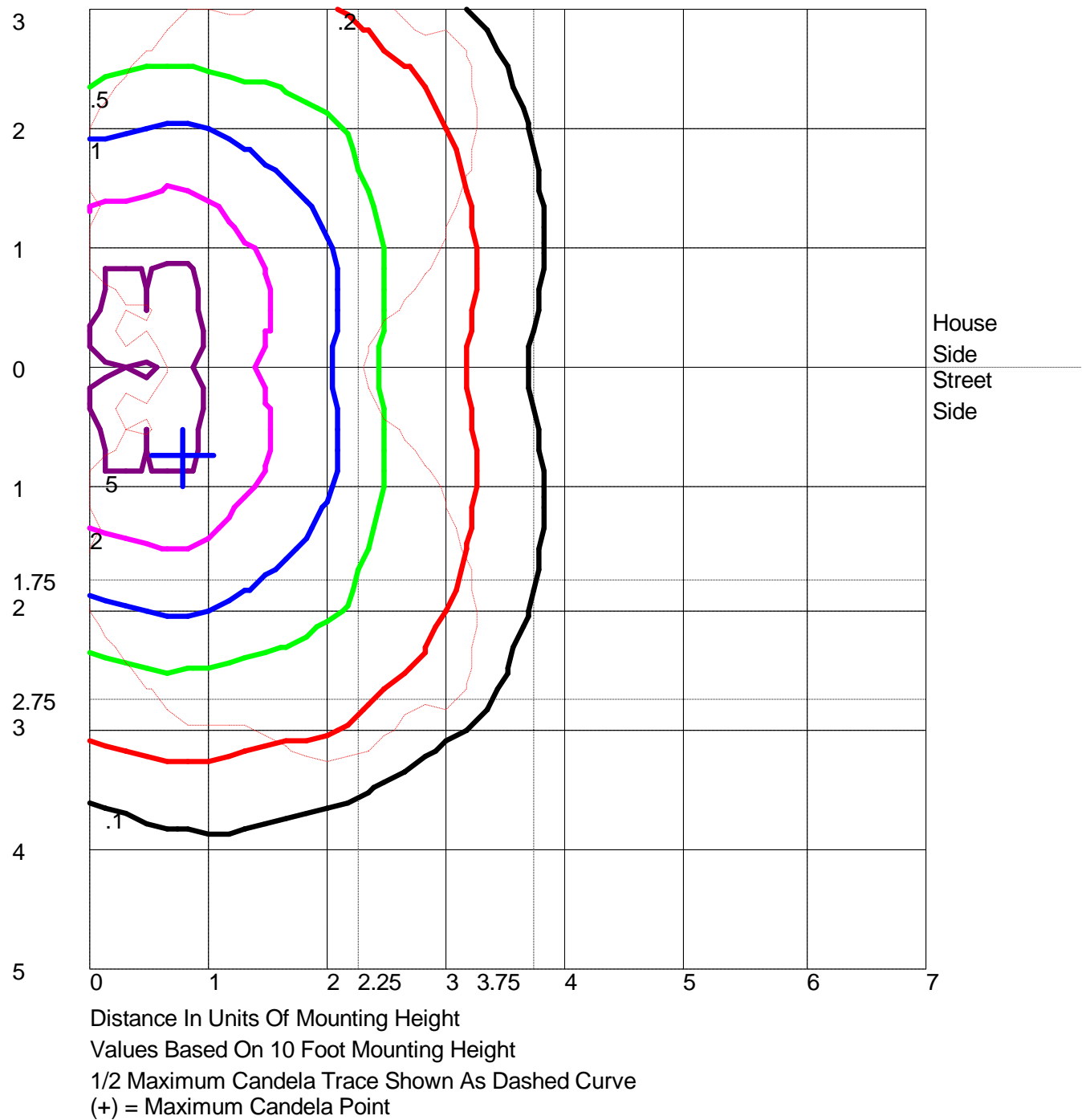
	Lumens	Percent Of Luminaire
Downward Street Side	2934.1	50.0
Downward House Side	2934.1	50.0
Downward Total	5868.2	100.0
Upward Street Side	1.2	0.0
Upward House Side	1.2	0.0
Upward Total	2.4	0.0
Total Flux	5870.6	100.0

POLAR GRAPH

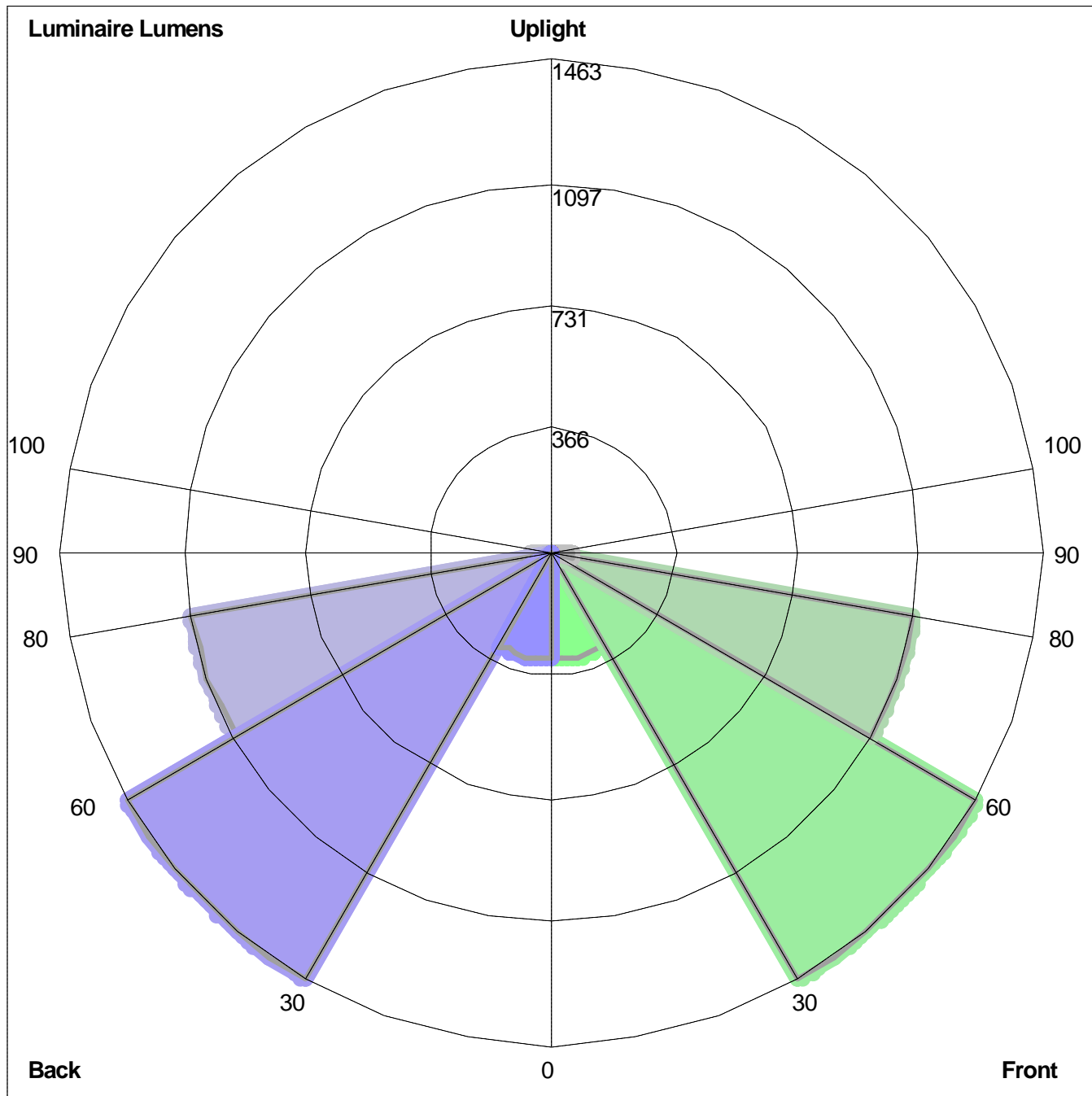


Maximum Candela = 1940 Located At Horizontal Angle = 47.5, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=318.5, Medium=1462.6, High=1092.8, Very High=60.1
Back: Low=318.5, Medium=1462.6, High=1092.8, Very High=60.1
Uplight: Low=0.5, High=1.9

BUG Rating : B3-U1-G1