



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11798  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/05/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-3-LED-10L-40  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11639
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11027
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	11027
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	689 (5.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	574.5	N.A.	4.9
FM - Front-Medium (30-60)	4885.8	N.A.	42.0
FH - Front-High (60-80)	3533.2	N.A.	30.4
FVH - Front-Very High (80-90)	84.2	N.A.	0.7
BL - Back-Low (0-30)	516.6	N.A.	4.4
BM - Back-Medium (30-60)	1385.8	N.A.	11.9
BH - Back-High (60-80)	604.4	N.A.	5.2
BVH - Back-Very High (80-90)	54.8	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11639.3	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>57.5</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011
<b>2.5</b>	982	983	987	989	994	997	1001	1000	1004	1007
<b>5.0</b>	936	937	942	948	962	973	984	986	995	1006
<b>7.5</b>	890	891	899	910	929	949	972	975	993	1014
<b>10.0</b>	858	860	871	887	913	940	970	979	1003	1032
<b>12.5</b>	855	857	870	889	920	954	994	1007	1035	1070
<b>15.0</b>	899	900	912	933	968	1007	1052	1068	1100	1136
<b>17.5</b>	1012	1008	1017	1035	1065	1104	1160	1168	1202	1235
<b>20.0</b>	1202	1191	1192	1197	1215	1242	1293	1300	1331	1352
<b>22.5</b>	1451	1439	1426	1409	1403	1420	1439	1441	1458	1461
<b>25.0</b>	1700	1706	1681	1654	1634	1607	1591	1588	1576	1556
<b>27.5</b>	1918	1923	1912	1898	1867	1809	1751	1740	1697	1648
<b>30.0</b>	2112	2116	2126	2122	2098	2024	1921	1901	1823	1743
<b>32.5</b>	2288	2298	2313	2318	2305	2246	2104	2077	1959	1844
<b>35.0</b>	2491	2501	2507	2524	2506	2461	2301	2263	2107	1949
<b>37.5</b>	2755	2766	2761	2744	2725	2679	2504	2457	2258	2056
<b>40.0</b>	3123	3136	3116	3050	3002	2921	2716	2658	2412	2157
<b>42.5</b>	3612	3653	3597	3493	3369	3219	2955	2887	2570	2261
<b>45.0</b>	4423	4394	4292	4120	3908	3636	3253	3147	2758	2379
<b>47.5</b>	5354	5337	5287	5089	4686	4209	3646	3482	3014	2538
<b>50.0</b>	6294	6306	6374	6322	5838	5053	4167	3945	3348	2778
<b>52.5</b>	6883	6956	7257	7572	7260	6356	4944	4623	3857	3197
<b>55.0</b>	6950	7046	7546	8316	8643	7858	6100	5698	4636	3854
<b>57.5</b>	6171	6276	7087	8296	9290	9284	7643	7204	5812	4813
<b>60.0</b>	4280	4371	5241	7144	9033	10056	9375	9053	7502	5763
<b>62.5</b>	2276	2323	2892	4900	7682	9986	10738	10625	8912	6437
<b>65.0</b>	1094	1084	1405	2768	5480	8923	10973	11027	9604	6686
<b>67.5</b>	612	640	794	1421	3456	6716	10127	10320	9619	6273
<b>70.0</b>	389	410	503	856	1847	4487	8081	8729	8361	4846
<b>72.5</b>	226	236	328	575	1132	2411	5185	6016	5690	2777
<b>75.0</b>	167	174	230	432	776	1275	2625	3000	2922	1040
<b>77.5</b>	125	130	187	371	634	778	1265	1459	1356	496
<b>80.0</b>	92	96	147	300	519	537	590	683	689	272
<b>82.5</b>	61	66	112	213	390	365	306	330	320	176
<b>85.0</b>	43	46	81	156	237	211	155	166	169	106
<b>87.5</b>	43	39	56	105	149	72	59	56	58	50
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011
<b>2.5</b>	1011	1017	1020	1017	1025	1032	1034	1034	1040	1034
<b>5.0</b>	1016	1025	1030	1037	1052	1066	1074	1077	1084	1081
<b>7.5</b>	1030	1038	1047	1061	1079	1095	1102	1108	1116	1118
<b>10.0</b>	1052	1062	1070	1088	1105	1114	1131	1148	1161	1166
<b>12.5</b>	1093	1100	1106	1120	1125	1141	1166	1184	1197	1203
<b>15.0</b>	1157	1157	1156	1161	1150	1169	1194	1212	1226	1229
<b>17.5</b>	1248	1238	1225	1206	1174	1191	1219	1237	1246	1245
<b>20.0</b>	1351	1332	1303	1252	1192	1213	1243	1253	1257	1252
<b>22.5</b>	1442	1415	1374	1294	1203	1233	1262	1261	1260	1251
<b>25.0</b>	1513	1478	1436	1315	1206	1248	1275	1266	1260	1251
<b>27.5</b>	1569	1520	1469	1322	1199	1254	1279	1267	1260	1253

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**CANDELA TABULATION - (Cont.)**

30.0	1623	1557	1491	1318	1185	1256	1276	1268	1268	1270
32.5	1691	1597	1512	1306	1164	1253	1272	1274	1290	1308
35.0	1758	1638	1531	1290	1135	1246	1267	1291	1330	1379
37.5	1822	1679	1540	1263	1099	1229	1270	1309	1354	1429
40.0	1888	1716	1549	1231	1058	1205	1256	1293	1335	1409
42.5	1962	1759	1559	1196	1015	1167	1214	1238	1309	1357
45.0	2051	1821	1583	1167	967	1117	1153	1176	1326	1236
47.5	2179	1924	1644	1155	926	1061	1095	1133	1317	1121
50.0	2394	2122	1778	1176	893	1006	1052	1107	1272	1060
52.5	2759	2445	1987	1225	863	949	1012	1093	1204	1028
55.0	3351	2907	2205	1253	833	892	962	1042	1117	1005
57.5	4039	3346	2287	1220	789	829	905	972	1016	949
60.0	4527	3631	2213	1128	726	760	835	887	907	917
62.5	4862	3738	1931	981	653	677	742	768	791	889
65.0	4895	3483	1398	764	571	593	629	671	680	865
67.5	4201	2805	954	575	480	516	535	583	602	826
70.0	2755	1712	582	430	400	430	454	513	539	745
72.5	1213	776	311	324	336	357	380	456	453	593
75.0	516	372	214	260	279	301	318	383	315	408
77.5	250	204	165	229	236	254	244	249	217	301
80.0	165	144	144	196	198	193	150	189	166	219
82.5	106	97	115	165	153	115	115	137	98	159
85.0	61	59	88	129	88	77	82	64	47	93
87.5	27	26	58	77	43	39	28	26	20	39
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

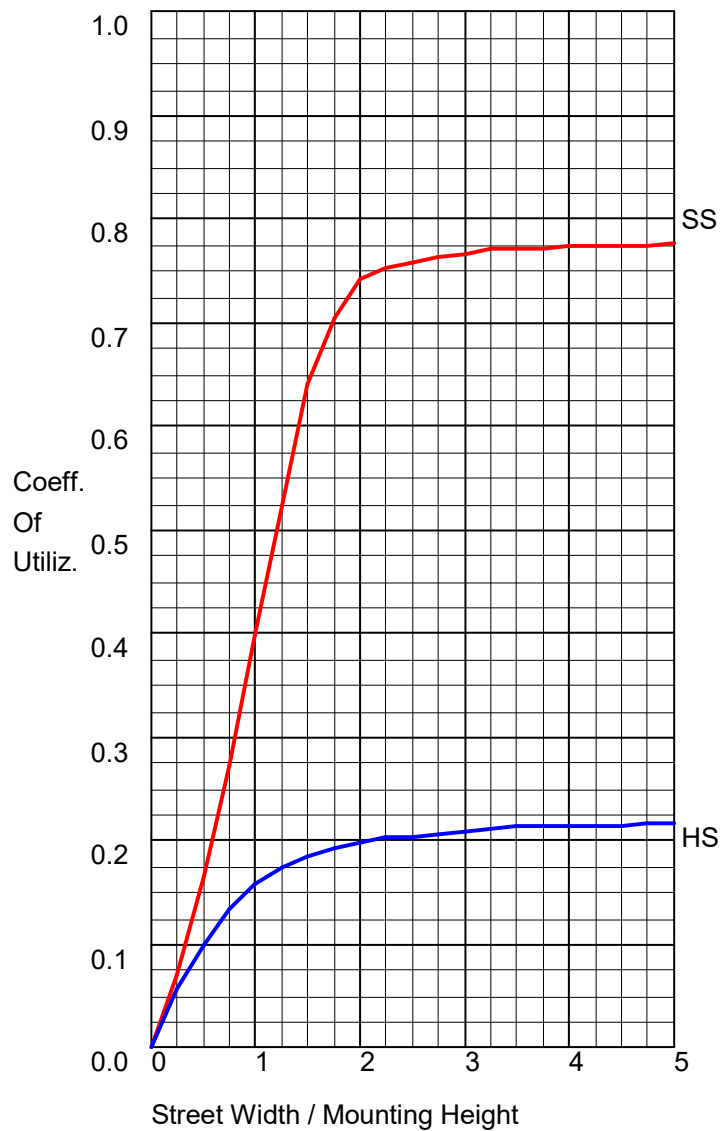
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	1011	1011
2.5	1034	1033
5.0	1082	1081
7.5	1119	1118
10.0	1165	1166
12.5	1202	1201
15.0	1230	1228
17.5	1244	1243
20.0	1251	1251
22.5	1250	1246
25.0	1246	1244
27.5	1250	1245
30.0	1271	1266
32.5	1321	1322
35.0	1415	1423
37.5	1472	1474
40.0	1386	1377
42.5	1196	1163
45.0	1032	1004
47.5	951	914
50.0	905	867
52.5	876	831
55.0	830	779
57.5	771	714
60.0	744	684
62.5	735	677
65.0	758	701

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	810	761
<b>70.0</b>	854	839
<b>72.5</b>	803	851
<b>75.0</b>	667	772
<b>77.5</b>	568	655
<b>80.0</b>	438	481
<b>82.5</b>	312	330
<b>85.0</b>	199	207
<b>87.5</b>	113	139
<b>90.0</b>	0	0

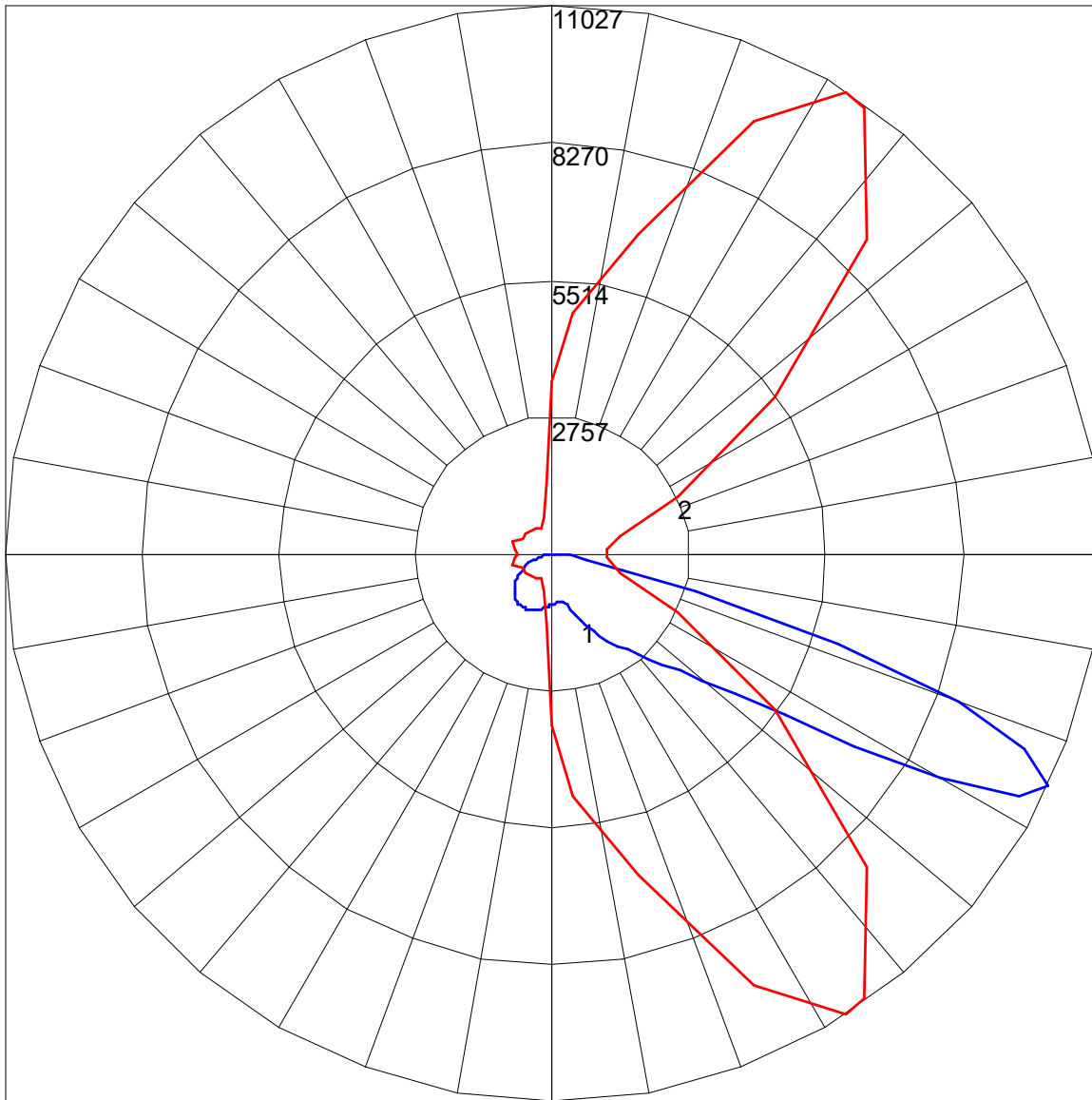
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

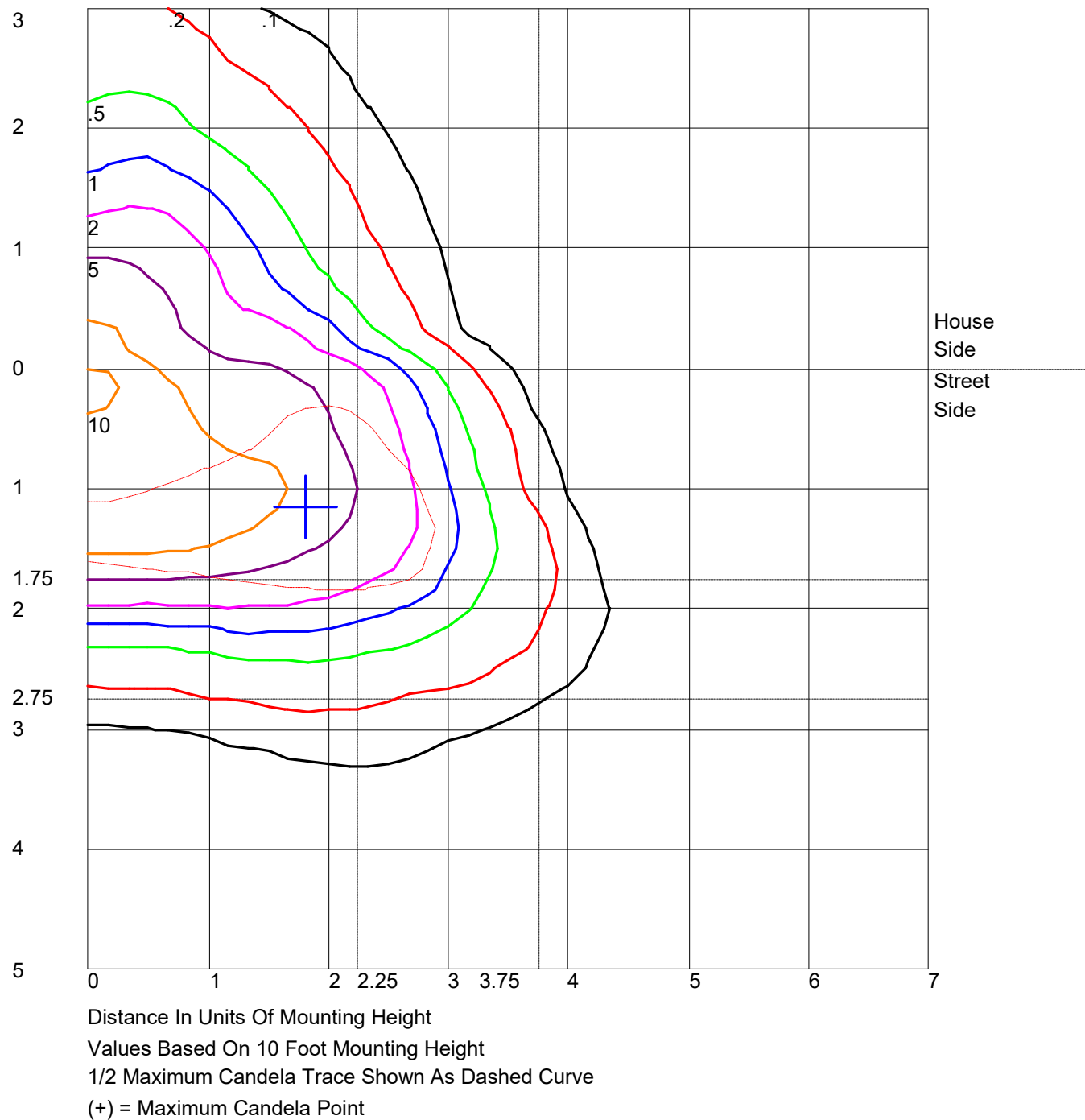
	Lumens	Percent Of Luminaire
Downward Street Side	9077.6	78.0
Downward House Side	2561.6	22.0
Downward Total	11639.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11639.2	100.0

POLAR GRAPH



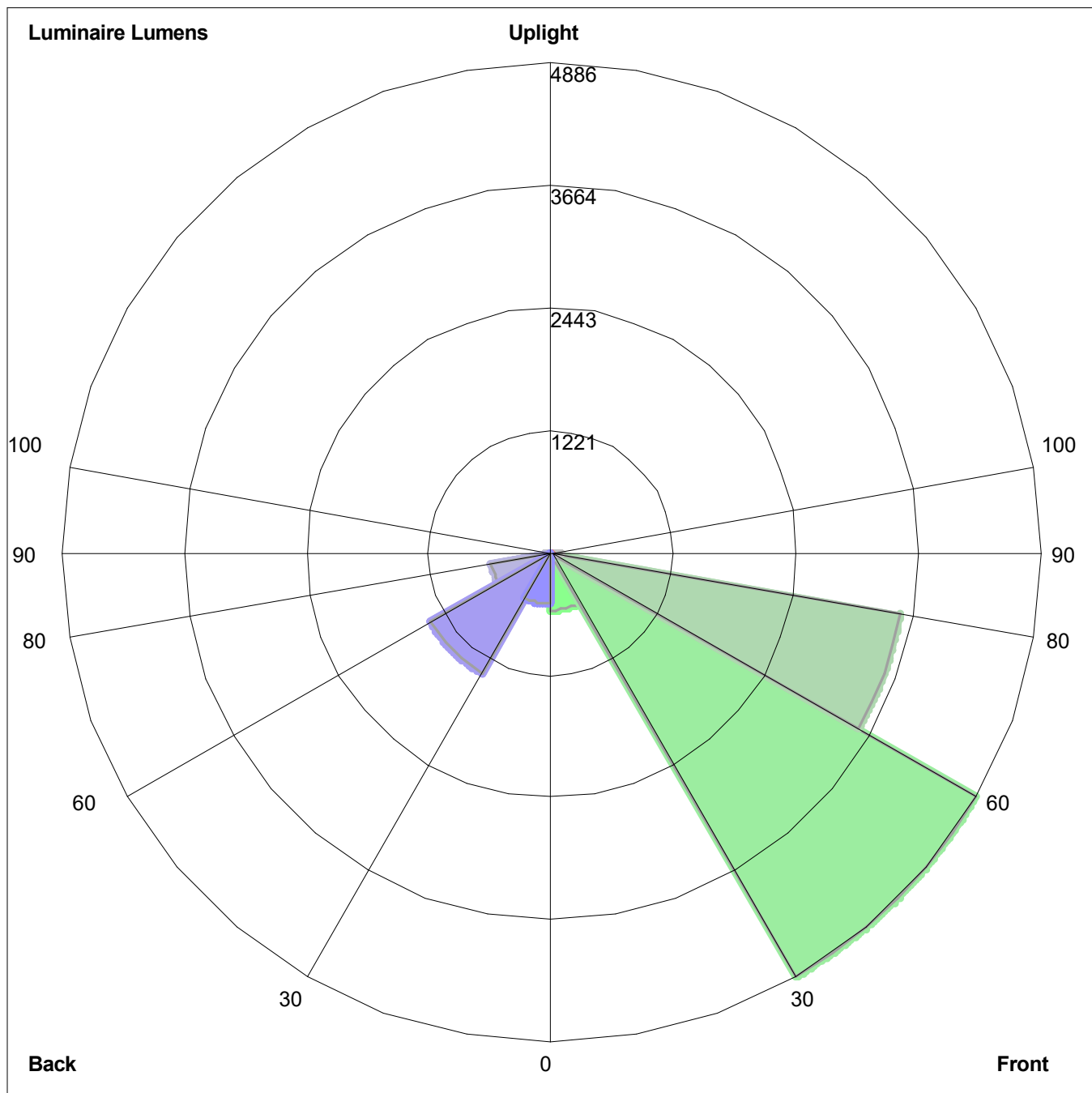
Maximum Candela = 11027 Located At Horizontal Angle = 57.5, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=574.5, Medium=4885.8, High=3533.2, Very High=84.2  
Back: Low=516.6, Medium=1385.8, High=604.4, Very High=54.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2