



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50.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-50
[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	12221
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11578
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	11578
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	723 (5.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	603.3	N.A.	4.9
FM - Front-Medium (30-60)	5130.1	N.A.	42.0
FH - Front-High (60-80)	3709.8	N.A.	30.4
FVH - Front-Very High (80-90)	88.4	N.A.	0.7
BL - Back-Low (0-30)	542.4	N.A.	4.4
BM - Back-Medium (30-60)	1455.1	N.A.	11.9
BH - Back-High (60-80)	634.7	N.A.	5.2
BVH - Back-Very High (80-90)	57.5	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	12221.3	N.A.	100.0
BUG Rating	B2-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50.IES

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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
2.5	1031	1032	1036	1038	1044	1047	1051	1050	1054	1057
5.0	983	984	989	995	1010	1022	1033	1035	1045	1056
7.5	934	936	944	955	975	996	1021	1024	1043	1065
10.0	901	903	915	931	959	987	1018	1028	1053	1084
12.5	898	900	913	933	966	1002	1044	1057	1087	1123
15.0	944	945	958	980	1016	1057	1105	1121	1155	1193
17.5	1063	1058	1068	1087	1118	1159	1218	1226	1262	1297
20.0	1262	1251	1252	1257	1276	1304	1358	1365	1398	1420
22.5	1524	1511	1497	1479	1473	1491	1511	1513	1531	1534
25.0	1785	1791	1765	1737	1716	1687	1671	1667	1655	1634
27.5	2014	2019	2008	1993	1960	1899	1839	1827	1782	1730
30.0	2218	2222	2232	2228	2203	2125	2017	1996	1914	1830
32.5	2402	2413	2429	2434	2420	2358	2209	2181	2057	1936
35.0	2616	2626	2632	2650	2631	2584	2416	2376	2212	2046
37.5	2893	2904	2899	2881	2861	2813	2629	2580	2371	2159
40.0	3279	3293	3272	3202	3152	3067	2852	2791	2533	2265
42.5	3793	3836	3777	3668	3537	3380	3103	3031	2698	2374
45.0	4644	4614	4507	4326	4103	3818	3416	3304	2896	2498
47.5	5622	5604	5551	5343	4920	4419	3828	3656	3165	2665
50.0	6609	6621	6693	6638	6130	5306	4375	4142	3515	2917
52.5	7227	7304	7620	7951	7623	6674	5191	4854	4050	3357
55.0	7297	7398	7923	8732	9075	8251	6405	5983	4868	4047
57.5	6480	6590	7441	8711	9754	9748	8025	7564	6103	5054
60.0	4494	4590	5503	7501	9485	10559	9844	9506	7877	6051
62.5	2390	2439	3037	5145	8066	10485	11275	11156	9358	6759
65.0	1149	1138	1475	2906	5754	9369	11522	11578	10084	7020
67.5	643	672	834	1492	3629	7052	10633	10836	10100	6587
70.0	408	430	528	899	1939	4711	8485	9165	8779	5088
72.5	237	248	344	604	1189	2532	5444	6317	5974	2916
75.0	175	183	241	454	815	1339	2756	3150	3068	1092
77.5	131	136	196	390	666	817	1328	1532	1424	521
80.0	97	101	154	315	545	564	619	717	723	286
82.5	64	69	118	224	409	383	321	346	336	185
85.0	45	48	85	164	249	222	163	174	177	111
87.5	45	41	59	110	156	76	62	59	61	52
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
2.5	1062	1068	1071	1068	1076	1084	1086	1086	1092	1086
5.0	1067	1076	1081	1089	1105	1119	1128	1131	1138	1135
7.5	1081	1090	1099	1114	1133	1150	1157	1163	1172	1174
10.0	1105	1115	1123	1142	1160	1170	1188	1205	1219	1224
12.5	1148	1155	1161	1176	1181	1198	1224	1243	1257	1263
15.0	1215	1215	1214	1219	1207	1227	1254	1273	1287	1290
17.5	1310	1300	1286	1266	1233	1251	1280	1299	1308	1307
20.0	1419	1399	1368	1315	1252	1274	1305	1316	1320	1315
22.5	1514	1486	1443	1359	1263	1295	1325	1324	1323	1314
25.0	1589	1552	1508	1381	1266	1310	1339	1329	1323	1314
27.5	1647	1596	1542	1388	1259	1317	1343	1330	1323	1316

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50.IES

CANDELA TABULATION - (Cont.)

30.0	1704	1635	1566	1384	1244	1319	1340	1331	1331	1333
32.5	1776	1677	1588	1371	1222	1316	1336	1338	1354	1373
35.0	1846	1720	1608	1354	1192	1308	1330	1356	1396	1448
37.5	1913	1763	1617	1326	1154	1290	1333	1374	1422	1500
40.0	1982	1802	1626	1293	1111	1265	1319	1358	1402	1479
42.5	2060	1847	1637	1256	1066	1225	1275	1300	1374	1425
45.0	2154	1912	1662	1225	1015	1173	1211	1235	1392	1298
47.5	2288	2020	1726	1213	972	1114	1150	1190	1383	1177
50.0	2514	2228	1867	1235	938	1056	1105	1162	1336	1113
52.5	2897	2567	2086	1286	906	996	1063	1148	1264	1079
55.0	3519	3052	2315	1316	875	937	1010	1094	1173	1055
57.5	4241	3513	2401	1281	828	870	950	1021	1067	996
60.0	4753	3813	2324	1184	762	798	877	931	952	963
62.5	5105	3925	2028	1030	686	711	779	806	831	933
65.0	5140	3657	1468	802	600	623	660	705	714	908
67.5	4411	2945	1002	604	504	542	562	612	632	867
70.0	2893	1798	611	451	420	451	477	539	566	782
72.5	1274	815	327	340	353	375	399	479	476	623
75.0	542	391	225	273	293	316	334	402	331	428
77.5	262	214	173	240	248	267	256	261	228	316
80.0	173	151	151	206	208	203	157	198	174	230
82.5	111	102	121	173	161	121	121	144	103	167
85.0	64	62	92	135	92	81	86	67	49	98
87.5	28	27	61	81	45	41	29	27	21	41
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

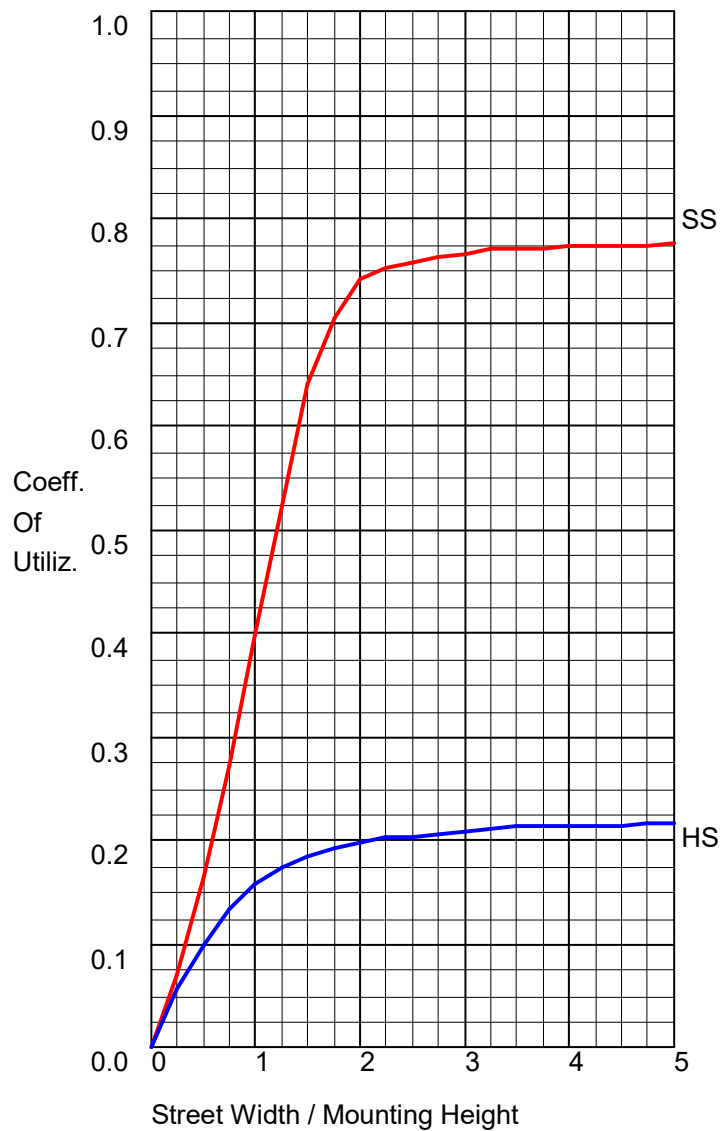
	<u>175.0</u>	<u>180.0</u>
0.0	1062	1062
2.5	1086	1085
5.0	1136	1135
7.5	1175	1174
10.0	1223	1224
12.5	1262	1261
15.0	1291	1289
17.5	1306	1305
20.0	1314	1314
22.5	1312	1308
25.0	1308	1306
27.5	1312	1307
30.0	1335	1329
32.5	1387	1388
35.0	1486	1494
37.5	1546	1548
40.0	1455	1446
42.5	1256	1221
45.0	1084	1054
47.5	999	960
50.0	950	910
52.5	920	873
55.0	871	818
57.5	810	750
60.0	781	718
62.5	772	711
65.0	796	736

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-50.IES

CANDELA TABULATION - (Cont.)

67.5	850	799
70.0	897	881
72.5	843	894
75.0	700	811
77.5	596	688
80.0	460	505
82.5	328	346
85.0	209	217
87.5	119	146
90.0	0	0

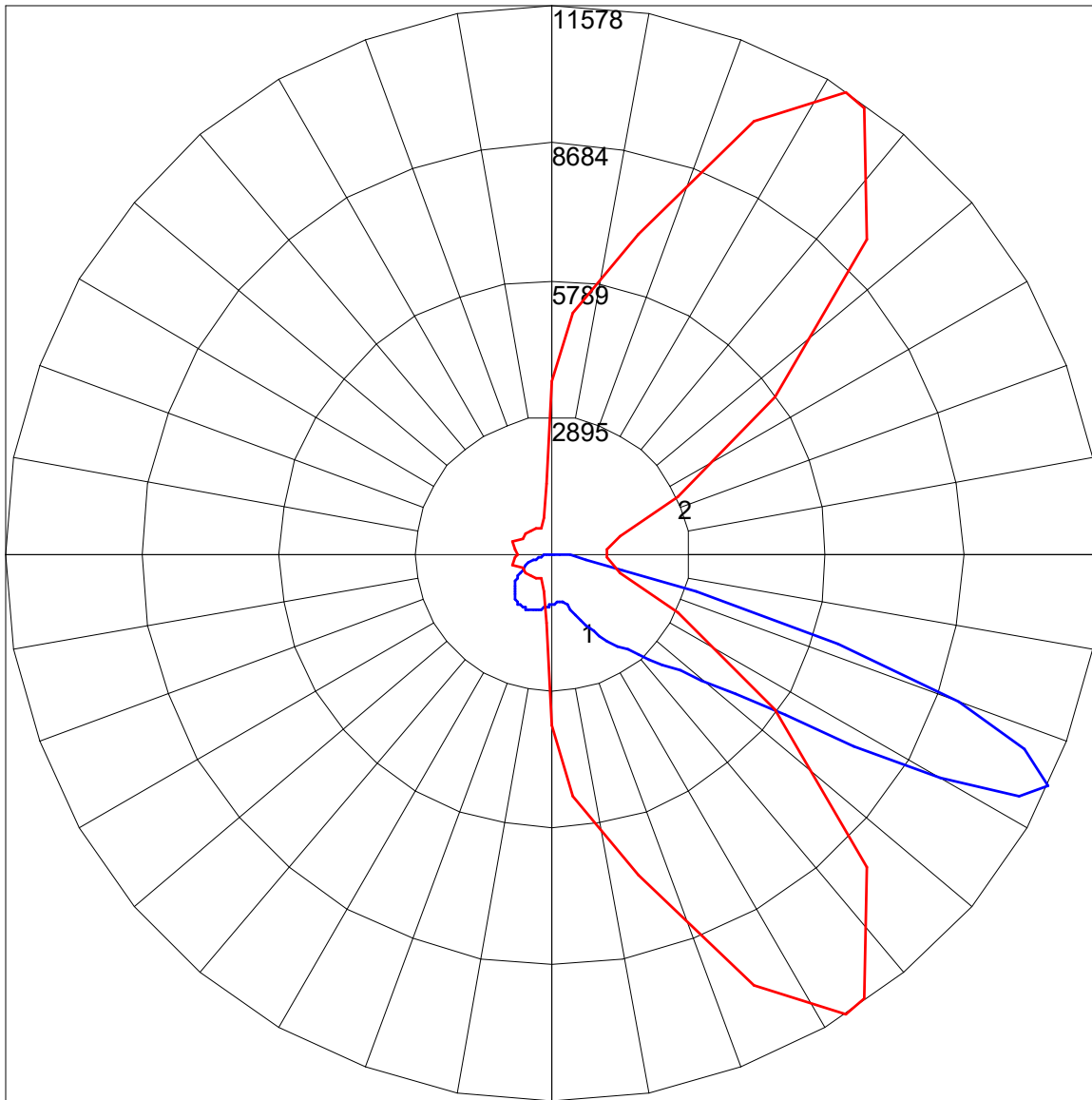
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

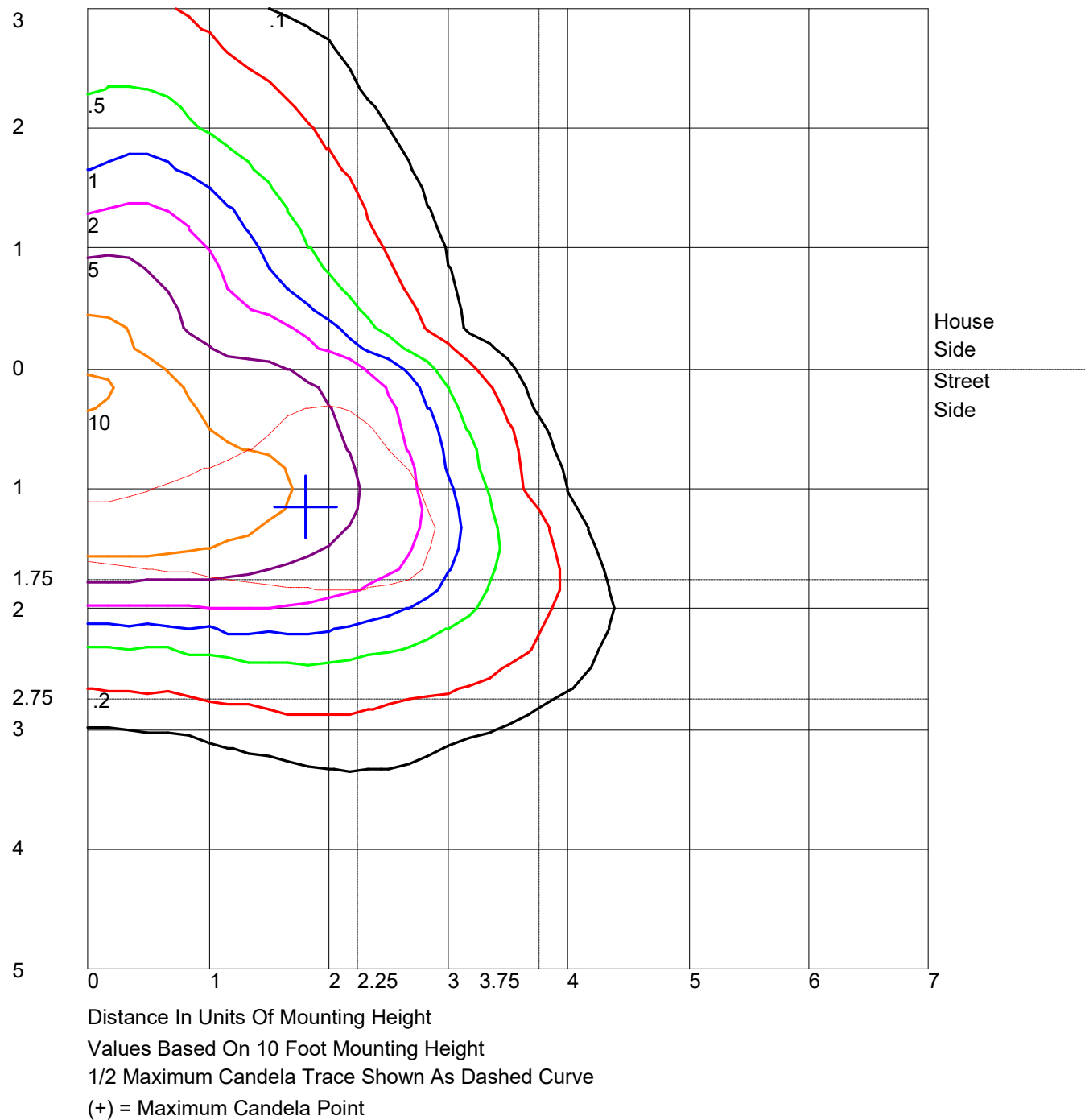
	Lumens	Percent Of Luminaire
Downward Street Side	9531.5	78.0
Downward House Side	2689.7	22.0
Downward Total	12221.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12221.2	100.0

POLAR GRAPH

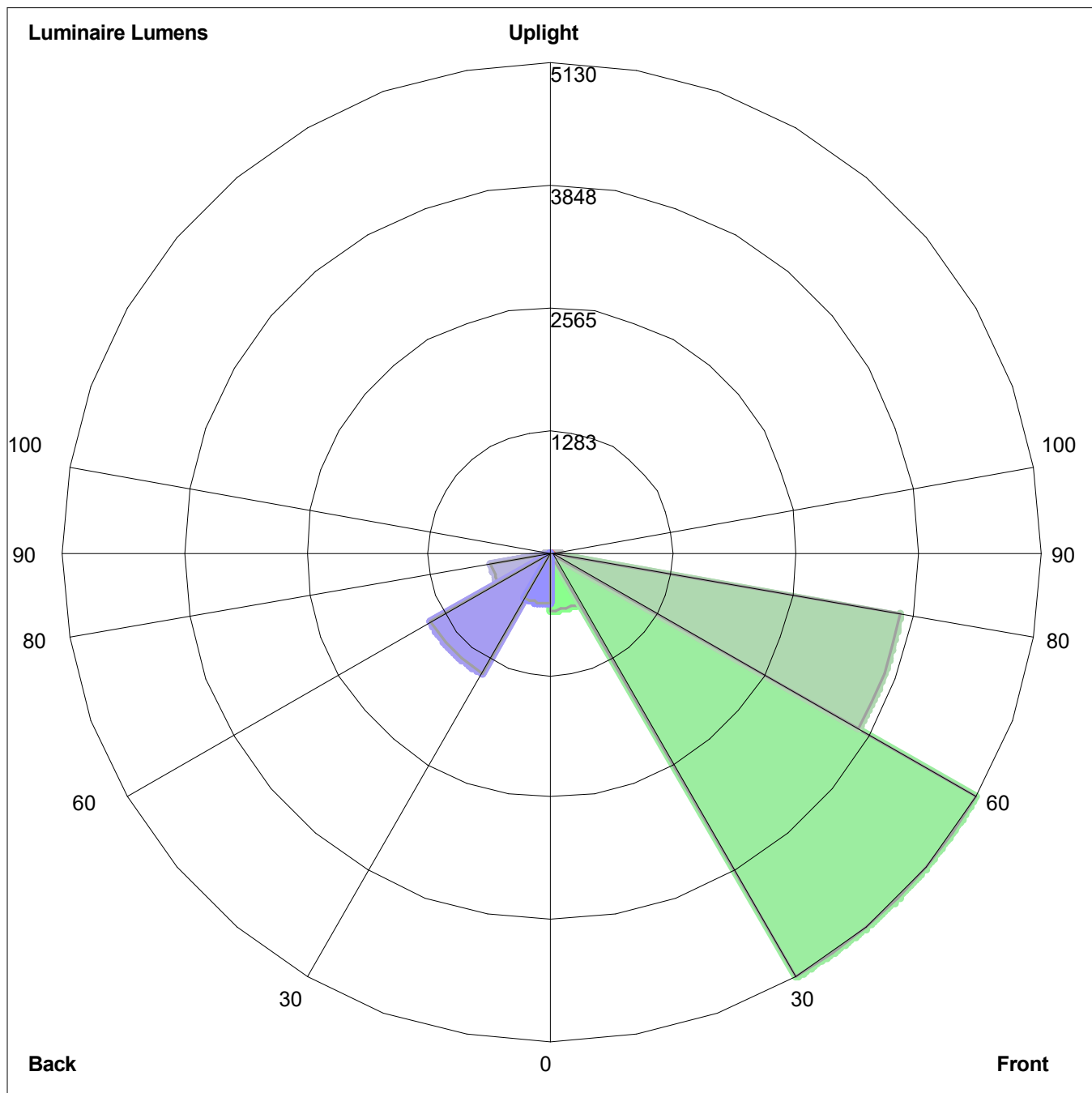


Maximum Candela = 11578 Located At Horizontal Angle = 57.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=603.3, Medium=5130.1, High=3709.8, Very High=88.4
Back: Low=542.4, Medium=1455.1, High=634.7, Very High=57.5
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2