



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30.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-30
[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	10641
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10081
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	10081
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	630 (5.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	525.3	N.A.	4.9
FM - Front-Medium (30-60)	4466.5	N.A.	42.0
FH - Front-High (60-80)	3230.1	N.A.	30.4
FVH - Front-Very High (80-90)	77.0	N.A.	0.7
BL - Back-Low (0-30)	472.3	N.A.	4.4
BM - Back-Medium (30-60)	1266.9	N.A.	11.9
BH - Back-High (60-80)	552.6	N.A.	5.2
BVH - Back-Very High (80-90)	50.1	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	10640.8	N.A.	100.0
BUG Rating	B2-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30.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	924	924	924	924	924	924	924	924	924	924
2.5	898	899	902	904	909	911	915	914	918	921
5.0	856	857	861	867	879	890	900	901	910	920
7.5	814	815	822	832	849	868	889	891	908	927
10.0	784	786	796	811	835	859	887	895	917	943
12.5	782	783	795	813	841	872	909	921	946	978
15.0	822	823	834	853	885	921	962	976	1006	1039
17.5	925	922	930	946	974	1009	1060	1068	1099	1129
20.0	1099	1089	1090	1094	1111	1135	1182	1188	1217	1236
22.5	1327	1316	1304	1288	1283	1298	1316	1317	1333	1336
25.0	1554	1560	1537	1512	1494	1469	1454	1452	1441	1422
27.5	1753	1758	1748	1735	1707	1654	1601	1591	1551	1507
30.0	1931	1934	1944	1940	1918	1850	1756	1738	1667	1593
32.5	2092	2101	2115	2119	2107	2053	1923	1899	1791	1686
35.0	2277	2286	2292	2307	2291	2250	2104	2069	1926	1782
37.5	2519	2529	2524	2509	2491	2449	2289	2246	2064	1880
40.0	2855	2867	2849	2788	2744	2670	2483	2430	2205	1972
42.5	3302	3340	3288	3193	3080	2943	2701	2639	2349	2067
45.0	4044	4017	3924	3767	3573	3324	2974	2877	2521	2175
47.5	4895	4879	4833	4652	4284	3848	3333	3183	2755	2320
50.0	5754	5765	5827	5780	5337	4619	3809	3607	3061	2540
52.5	6292	6359	6634	6922	6637	5811	4520	4226	3526	2923
55.0	6354	6441	6899	7602	7901	7184	5577	5209	4238	3523
57.5	5642	5738	6479	7584	8493	8487	6987	6586	5313	4400
60.0	3913	3996	4791	6531	8258	9193	8571	8276	6858	5269
62.5	2081	2124	2644	4480	7023	9129	9817	9713	8147	5885
65.0	1000	991	1284	2531	5010	8157	10032	10081	8780	6112
67.5	559	585	726	1299	3159	6140	9258	9435	8794	5735
70.0	356	375	460	783	1689	4102	7388	7980	7644	4430
72.5	207	216	300	526	1035	2204	4740	5500	5202	2539
75.0	153	159	210	395	709	1166	2400	2743	2671	951
77.5	114	119	171	339	580	711	1156	1334	1240	453
80.0	84	88	134	274	474	491	539	624	630	249
82.5	56	60	102	195	357	334	280	302	293	161
85.0	39	42	74	143	217	193	142	152	154	97
87.5	39	36	51	96	136	66	54	51	53	46
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	924	924	924	924	924	924	924	924	924	924
2.5	924	930	932	930	937	943	945	945	951	945
5.0	929	937	942	948	962	975	982	985	991	988
7.5	942	949	957	970	986	1001	1007	1013	1020	1022
10.0	962	971	978	995	1010	1018	1034	1050	1061	1066
12.5	999	1006	1011	1024	1028	1043	1066	1082	1094	1100
15.0	1058	1058	1057	1061	1051	1069	1092	1108	1121	1124
17.5	1141	1132	1120	1103	1073	1089	1114	1131	1139	1138
20.0	1235	1218	1191	1145	1090	1109	1136	1145	1149	1145
22.5	1318	1294	1256	1183	1100	1127	1154	1153	1152	1144
25.0	1383	1351	1313	1202	1103	1141	1166	1157	1152	1144
27.5	1434	1390	1343	1209	1096	1146	1169	1158	1152	1145

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30.IES

CANDELA TABULATION - (Cont.)

30.0	1484	1423	1363	1205	1083	1148	1167	1159	1159	1161
32.5	1546	1460	1382	1194	1064	1145	1163	1165	1179	1196
35.0	1607	1497	1400	1179	1038	1139	1158	1180	1216	1261
37.5	1666	1535	1408	1155	1005	1124	1161	1197	1238	1306
40.0	1726	1569	1416	1125	967	1102	1148	1182	1220	1288
42.5	1794	1608	1425	1093	928	1067	1110	1132	1197	1241
45.0	1875	1665	1447	1067	884	1021	1054	1075	1212	1130
47.5	1992	1759	1503	1056	847	970	1001	1036	1204	1025
50.0	2189	1940	1625	1075	816	920	962	1012	1163	969
52.5	2522	2235	1817	1120	789	868	925	999	1101	940
55.0	3063	2658	2016	1145	762	815	879	953	1021	919
57.5	3692	3059	2091	1115	721	758	827	889	929	868
60.0	4139	3319	2023	1031	664	695	763	811	829	838
62.5	4445	3417	1765	897	597	619	678	702	723	813
65.0	4475	3184	1278	698	522	542	575	613	622	791
67.5	3841	2564	872	526	439	472	489	533	550	755
70.0	2519	1565	532	393	366	393	415	469	493	681
72.5	1109	709	284	296	307	326	347	417	414	542
75.0	472	340	196	238	255	275	291	350	288	373
77.5	229	186	151	209	216	232	223	228	198	275
80.0	151	132	132	179	181	176	137	173	152	200
82.5	97	89	105	151	140	105	105	125	90	145
85.0	56	54	80	118	80	70	75	59	43	85
87.5	25	24	53	70	39	36	26	24	18	36
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

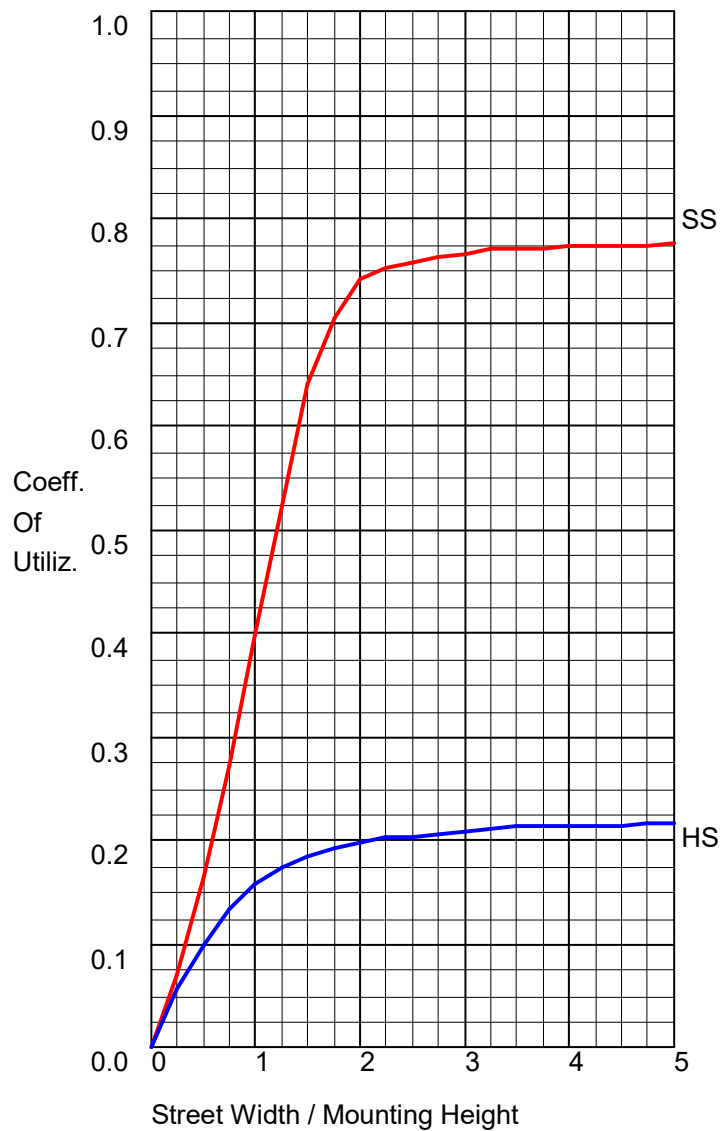
	<u>175.0</u>	<u>180.0</u>
0.0	924	924
2.5	945	944
5.0	989	988
7.5	1023	1022
10.0	1065	1066
12.5	1099	1098
15.0	1124	1123
17.5	1137	1136
20.0	1144	1144
22.5	1143	1139
25.0	1139	1137
27.5	1143	1138
30.0	1162	1157
32.5	1208	1209
35.0	1294	1301
37.5	1346	1348
40.0	1267	1259
42.5	1093	1063
45.0	943	918
47.5	869	836
50.0	827	793
52.5	801	760
55.0	759	712
57.5	705	653
60.0	680	625
62.5	672	619
65.0	693	641

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30.IES

CANDELA TABULATION - (Cont.)

67.5	741	696
70.0	781	767
72.5	734	778
75.0	610	706
77.5	519	599
80.0	400	440
82.5	285	302
85.0	182	189
87.5	103	127
90.0	0	0

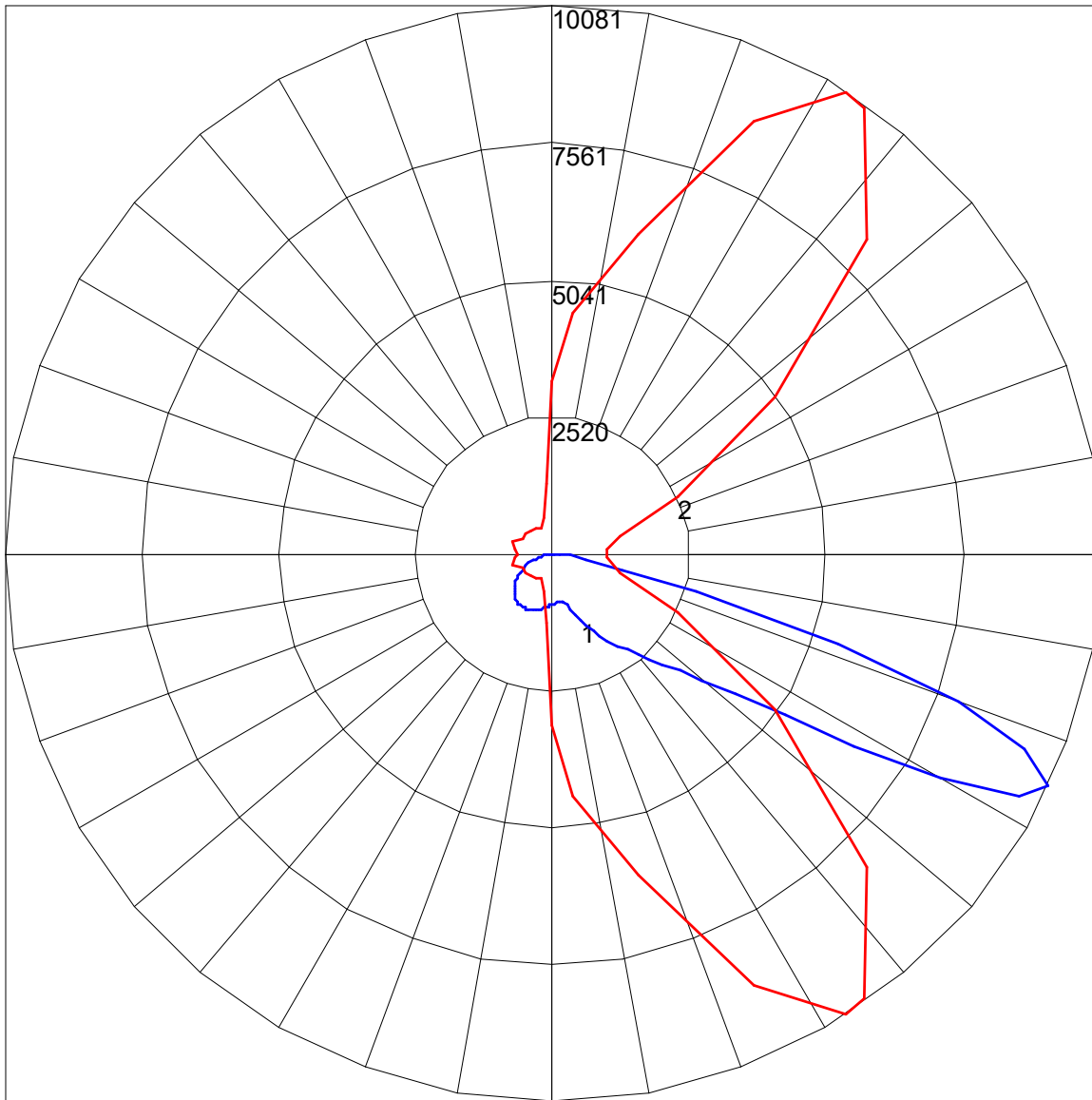
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

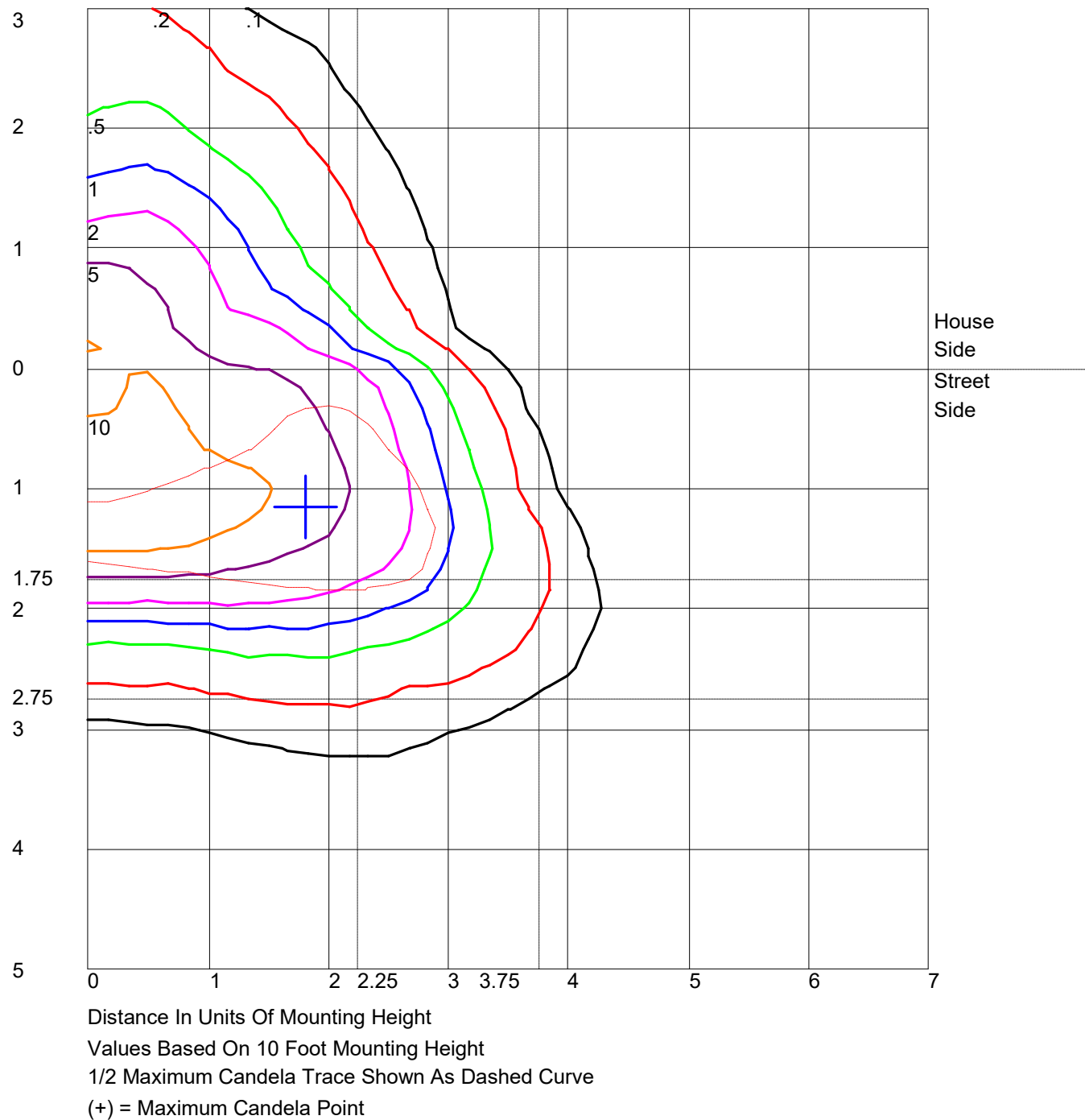
	Lumens	Percent Of Luminaire
Downward Street Side	8298.9	78.0
Downward House Side	2341.8	22.0
Downward Total	10640.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10640.7	100.0

POLAR GRAPH

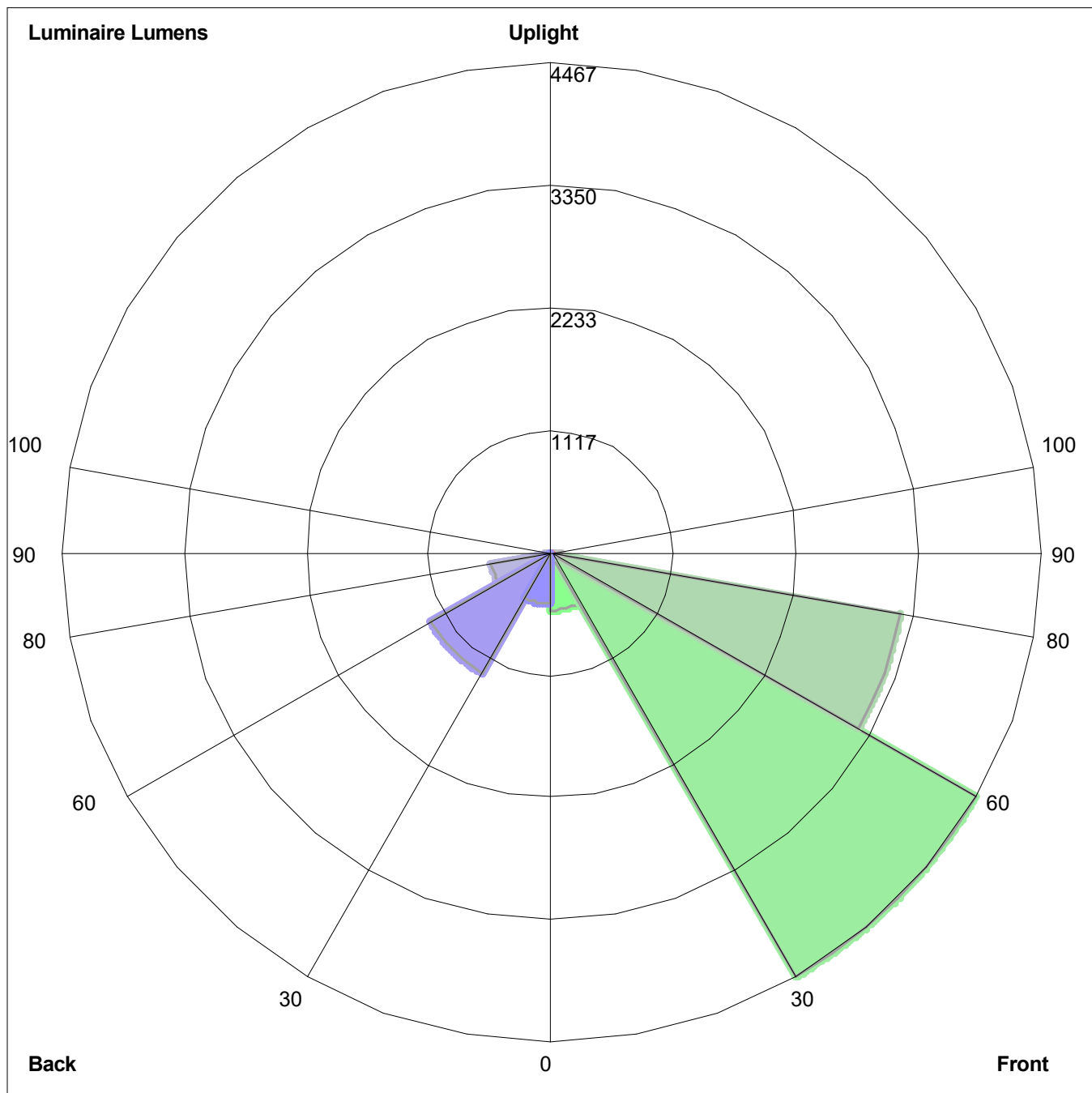


Maximum Candela = 10081 Located At Horizontal Angle = 57.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=525.3, Medium=4466.5, High=3230.1, Very High=77.0
Back: Low=472.3, Medium=1266.9, High=552.6, Very High=50.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2