



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11788

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-FT-LED-05L-40-IL

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4264
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3318
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3318
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	422 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	387.9	N.A.	9.1
FM - Front-Medium (30-60)	1762.2	N.A.	41.3
FH - Front-High (60-80)	1519.9	N.A.	35.6
FVH - Front-Very High (80-90)	47.7	N.A.	1.1
BL - Back-Low (0-30)	198.6	N.A.	4.7
BM - Back-Medium (30-60)	293.4	N.A.	6.9
BH - Back-High (60-80)	53.1	N.A.	1.2
BVH - Back-Very High (80-90)	1.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4263.9	N.A.	100.0
BUG Rating	B1-U0-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	786	786	786	786	786	786	786	786	786	786
2.5	811	803	804	804	805	795	801	800	796	797
5.0	830	823	823	825	826	814	822	820	814	810
7.5	839	830	832	835	838	827	838	837	834	828
10.0	841	834	835	840	844	840	846	854	851	848
12.5	849	840	842	845	850	850	857	868	870	867
15.0	860	855	858	862	867	863	872	882	888	888
17.5	876	876	877	883	886	882	890	898	906	910
20.0	900	898	901	906	907	904	910	918	924	932
22.5	928	924	928	930	932	930	936	940	940	949
25.0	959	957	957	960	962	963	965	967	962	970
27.5	998	994	994	998	999	1000	998	996	988	992
30.0	1044	1040	1039	1043	1042	1043	1041	1028	1018	1011
32.5	1095	1093	1094	1095	1090	1093	1092	1070	1052	1031
35.0	1149	1151	1156	1155	1154	1157	1149	1127	1089	1058
37.5	1216	1215	1216	1217	1223	1229	1220	1195	1134	1091
40.0	1279	1279	1284	1288	1298	1312	1302	1270	1191	1131
42.5	1346	1349	1354	1371	1390	1411	1397	1364	1271	1188
45.0	1424	1427	1438	1472	1494	1520	1516	1483	1369	1255
47.5	1515	1514	1536	1583	1620	1658	1645	1629	1485	1336
50.0	1612	1614	1647	1710	1775	1819	1802	1792	1616	1425
52.5	1713	1715	1766	1864	1946	2010	1994	1977	1766	1529
55.0	1823	1830	1897	2018	2143	2226	2228	2179	1929	1640
57.5	1936	1962	2038	2190	2363	2476	2451	2400	2101	1725
60.0	2056	2095	2191	2374	2587	2716	2685	2618	2238	1773
62.5	2113	2153	2311	2575	2802	2977	2945	2797	2320	1736
65.0	1944	1992	2236	2672	3054	3244	3210	2881	2269	1594
67.5	1579	1629	1930	2476	3068	3318	3317	2840	2067	1294
70.0	830	879	1263	1997	2662	3010	3123	2607	1646	933
72.5	328	350	528	1056	1906	2423	2532	2069	1164	559
75.0	236	246	336	542	953	1422	1566	1421	704	359
77.5	185	194	276	411	585	718	754	796	459	246
80.0	148	153	229	325	391	417	422	359	280	166
82.5	106	114	172	225	199	169	164	128	134	101
85.0	46	51	68	77	71	66	64	49	51	57
87.5	16	17	23	29	25	20	17	14	14	18
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	786	786	786	786	786	786	786	786	786	786
2.5	791	792	790	784	784	779	775	773	767	764
5.0	800	799	792	782	775	764	751	743	738	731
7.5	813	810	800	783	764	746	727	707	687	670
10.0	833	825	813	786	754	723	678	627	584	553
12.5	855	843	829	791	742	674	593	516	453	409
15.0	876	863	846	793	715	598	481	387	329	301
17.5	899	884	867	792	670	510	372	304	266	245
20.0	923	909	883	789	610	414	308	256	228	214
22.5	946	930	901	774	538	346	268	227	205	194
25.0	963	948	918	744	462	305	242	208	193	186
27.5	980	965	932	705	403	280	225	197	187	184

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CANDELA TABULATION - (Cont.)

30.0	998	982	944	661	365	262	213	189	181	182
32.5	1014	995	955	608	340	250	204	180	174	177
35.0	1028	1004	962	564	323	241	194	169	166	166
37.5	1045	1014	965	534	309	231	181	155	151	145
40.0	1068	1031	972	516	299	219	166	137	129	118
42.5	1100	1053	980	509	287	201	146	116	102	90
45.0	1136	1075	979	509	269	180	123	92	76	67
47.5	1185	1101	980	515	241	150	97	70	55	49
50.0	1242	1139	989	525	200	111	69	48	40	36
52.5	1302	1175	996	526	149	75	46	34	28	27
55.0	1350	1190	989	499	99	53	34	24	20	19
57.5	1377	1192	971	429	69	41	26	18	14	12
60.0	1365	1160	899	312	55	33	20	13	8	6
62.5	1282	1051	751	189	46	26	16	9	4	3
65.0	1102	859	535	105	38	21	12	6	3	1
67.5	817	604	320	66	28	16	8	4	2	1
70.0	528	365	172	42	20	11	6	4	2	1
72.5	288	215	95	27	13	7	5	3	2	0
75.0	198	141	56	18	8	4	4	2	1	0
77.5	133	93	41	11	4	4	2	1	0	0
80.0	75	53	28	6	3	2	2	1	0	0
82.5	49	35	17	3	2	2	1	0	0	0
85.0	31	19	6	1	1	1	1	0	0	0
87.5	12	4	1	0	1	1	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

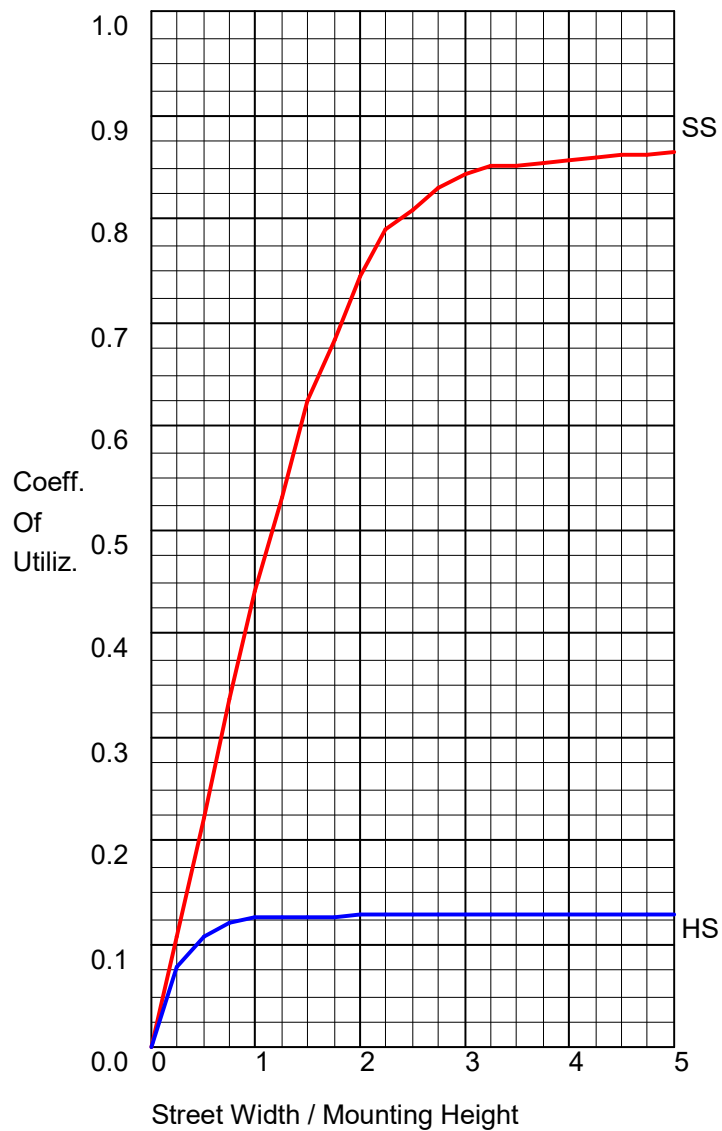
	<u>175.0</u>	<u>180.0</u>
0.0	786	786
2.5	763	759
5.0	726	721
7.5	662	655
10.0	530	532
12.5	381	381
15.0	285	285
17.5	235	235
20.0	207	206
22.5	189	189
25.0	184	185
27.5	182	183
30.0	181	181
32.5	175	175
35.0	159	156
37.5	134	132
40.0	105	105
42.5	81	79
45.0	59	57
47.5	45	45
50.0	35	35
52.5	27	27
55.0	19	19
57.5	11	11
60.0	5	5
62.5	2	2
65.0	1	1

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

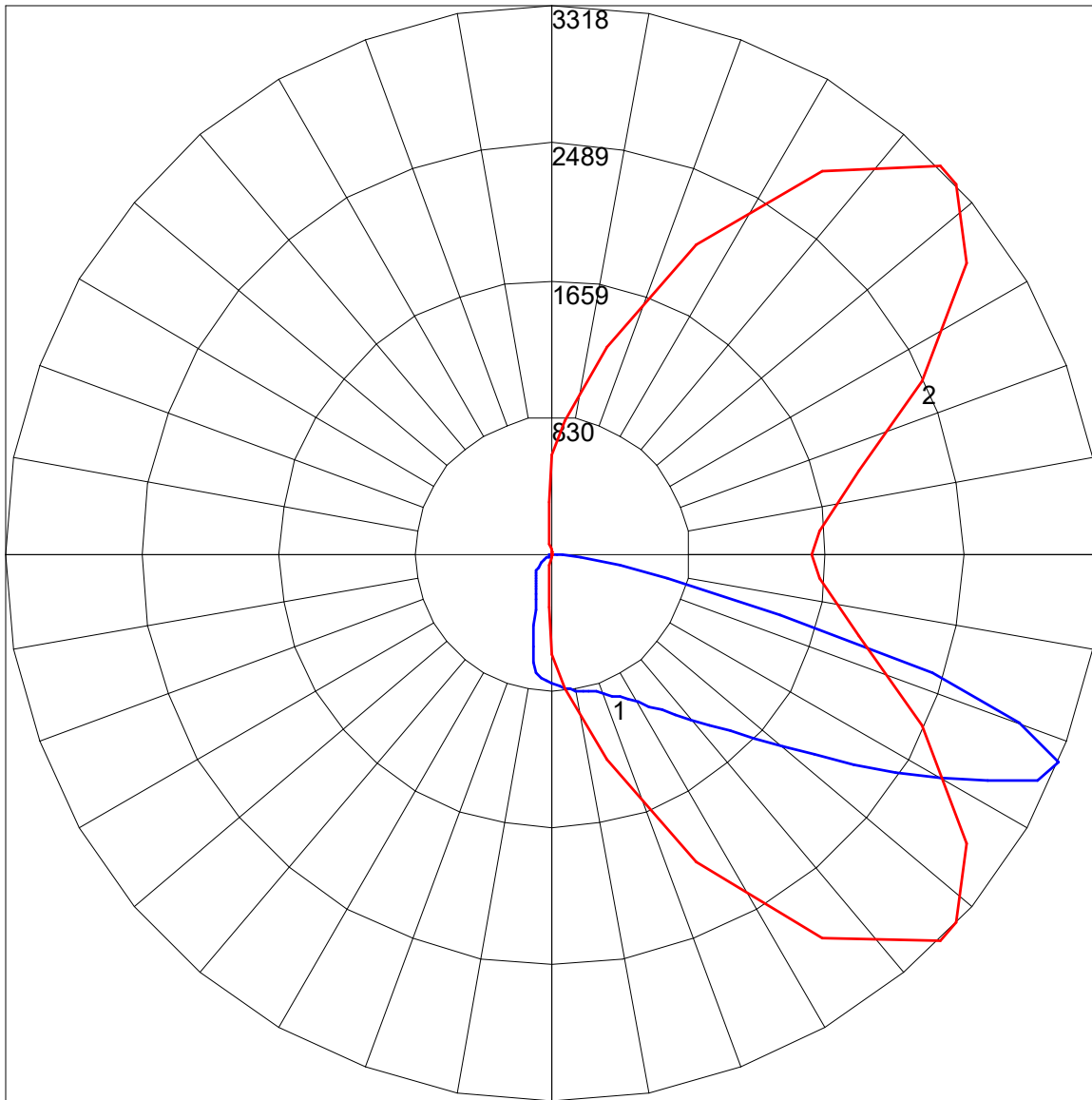
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

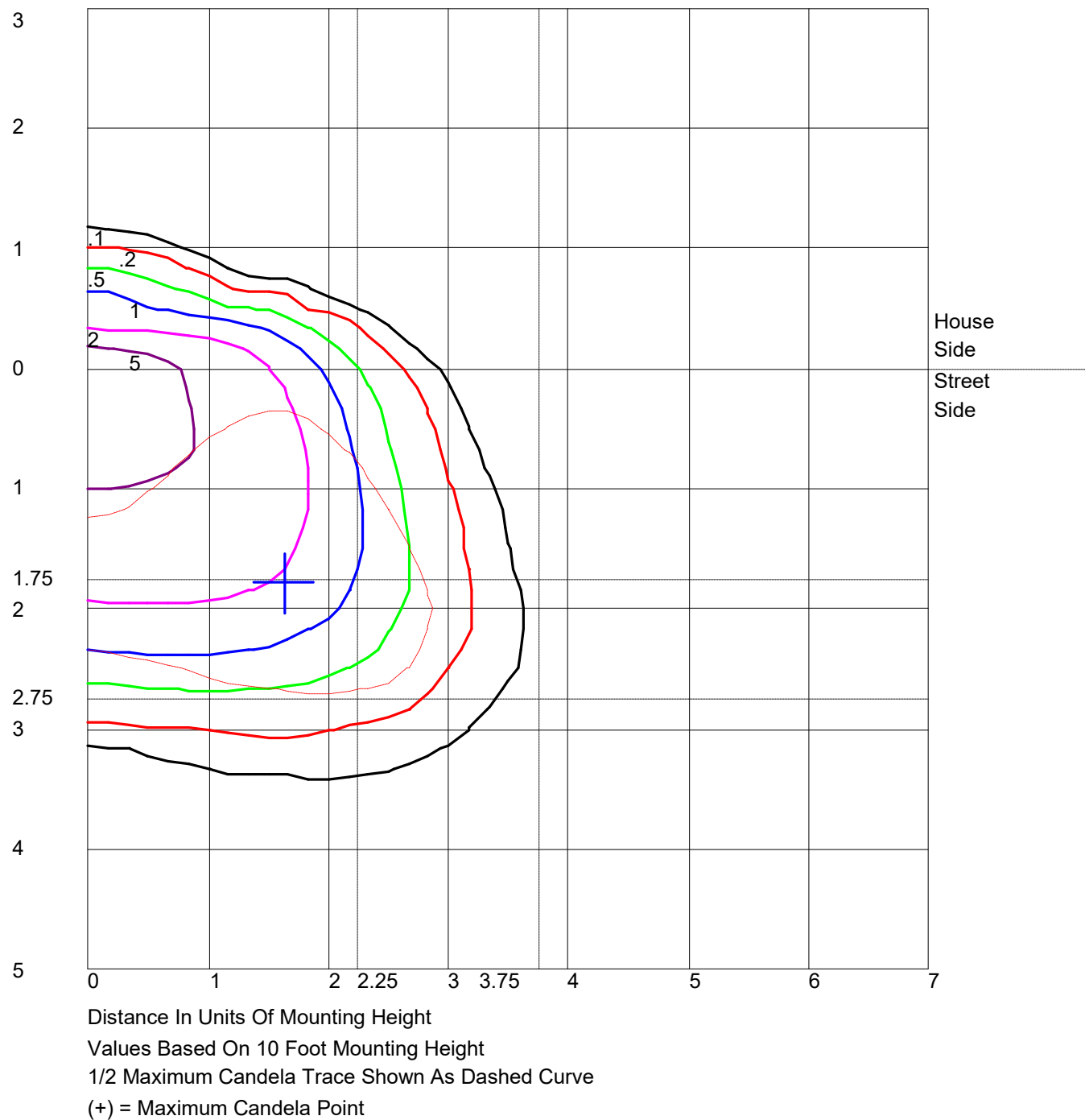
	Lumens	Percent Of Luminaire
Downward Street Side	3717.8	87.2
Downward House Side	546.1	12.8
Downward Total	4263.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4263.9	100.0

POLAR GRAPH

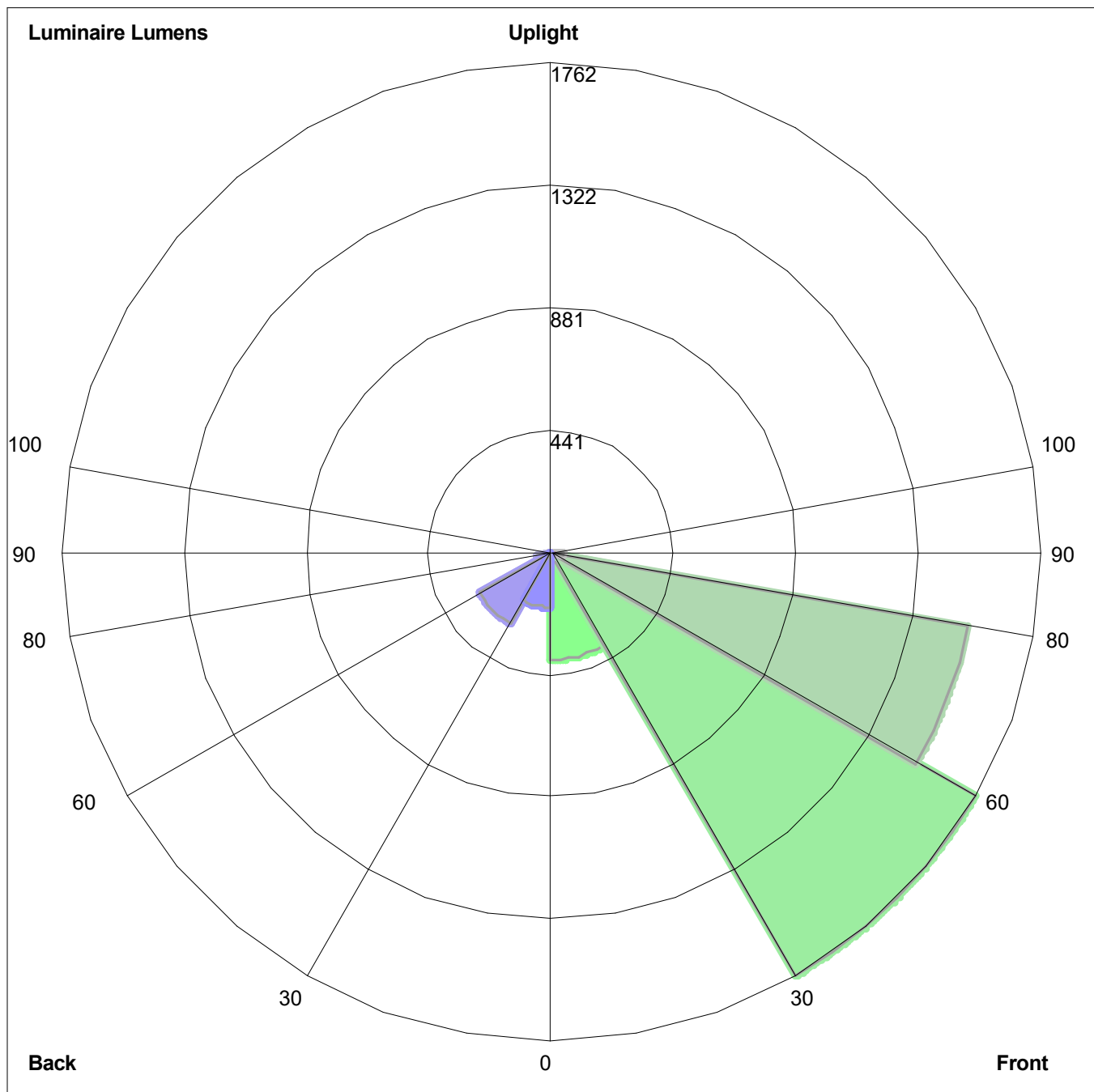


Maximum Candela = 3318 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=387.9, Medium=1762.2, High=1519.9, Very High=47.7
Back: Low=198.6, Medium=293.4, High=53.1, Very High=1.1
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1