



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-05L-50-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	4477
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3484
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3484
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	443 (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)	407.3	N.A.	9.1
FM - Front-Medium (30-60)	1850.3	N.A.	41.3
FH - Front-High (60-80)	1595.9	N.A.	35.6
FVH - Front-Very High (80-90)	50.1	N.A.	1.1
BL - Back-Low (0-30)	208.5	N.A.	4.7
BM - Back-Medium (30-60)	308.0	N.A.	6.9
BH - Back-High (60-80)	55.7	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	4476.9	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	825	825	825	825	825	825	825	825	825	825
2.5	852	843	844	844	845	835	841	840	836	837
5.0	871	864	864	866	867	855	863	861	855	850
7.5	881	871	874	877	880	868	880	879	876	869
10.0	883	876	877	882	886	882	888	897	894	890
12.5	891	882	884	887	892	892	900	911	913	910
15.0	903	898	901	905	910	906	916	926	932	932
17.5	920	920	921	927	930	926	934	943	951	955
20.0	945	943	946	951	952	949	955	964	970	979
22.5	974	970	974	976	979	976	983	987	987	996
25.0	1007	1005	1005	1008	1010	1011	1013	1015	1010	1018
27.5	1048	1044	1044	1048	1049	1050	1048	1046	1037	1042
30.0	1096	1092	1091	1095	1094	1095	1093	1079	1069	1062
32.5	1150	1148	1149	1150	1144	1148	1147	1123	1105	1083
35.0	1206	1209	1214	1213	1212	1215	1206	1183	1143	1111
37.5	1277	1276	1277	1278	1284	1290	1281	1255	1191	1146
40.0	1343	1343	1348	1352	1363	1378	1367	1333	1251	1188
42.5	1413	1416	1422	1440	1459	1482	1467	1432	1335	1247
45.0	1495	1498	1510	1546	1569	1596	1592	1557	1437	1318
47.5	1591	1590	1613	1662	1701	1741	1727	1710	1559	1403
50.0	1693	1695	1729	1795	1864	1910	1892	1882	1697	1496
52.5	1799	1801	1854	1957	2043	2110	2094	2076	1854	1605
55.0	1914	1921	1992	2119	2250	2337	2339	2288	2025	1722
57.5	2033	2060	2140	2299	2481	2600	2574	2520	2206	1811
60.0	2159	2200	2301	2493	2716	2852	2819	2749	2350	1862
62.5	2219	2261	2427	2704	2942	3126	3092	2937	2436	1823
65.0	2041	2092	2348	2806	3207	3406	3370	3025	2382	1674
67.5	1658	1710	2026	2600	3221	3484	3483	2982	2170	1359
70.0	871	923	1326	2097	2795	3160	3279	2737	1728	980
72.5	344	367	554	1109	2001	2544	2659	2172	1222	587
75.0	248	258	353	569	1001	1493	1644	1492	739	377
77.5	194	204	290	432	614	754	792	836	482	258
80.0	155	161	240	341	411	438	443	377	294	174
82.5	111	120	181	236	209	177	172	134	141	106
85.0	48	54	71	81	75	69	67	51	54	60
87.5	17	18	24	30	26	21	18	15	15	19
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	825	825	825	825	825	825	825	825	825	825
2.5	831	832	829	823	823	818	814	812	805	802
5.0	840	839	832	821	814	802	789	780	775	768
7.5	854	850	840	822	802	783	763	742	721	703
10.0	875	866	854	825	792	759	712	658	613	581
12.5	898	885	870	831	779	708	623	542	476	429
15.0	920	906	888	833	751	628	505	406	345	316
17.5	944	928	910	832	703	535	391	319	279	257
20.0	969	954	927	828	640	435	323	269	239	225
22.5	993	976	946	813	565	363	281	238	215	204
25.0	1011	995	964	781	485	320	254	218	203	195
27.5	1029	1013	979	740	423	294	236	207	196	193

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CANDELA TABULATION - (Cont.)

30.0	1048	1031	991	694	383	275	224	198	190	191
32.5	1065	1045	1003	638	357	262	214	189	183	186
35.0	1079	1054	1010	592	339	253	204	177	174	174
37.5	1097	1065	1013	561	324	243	190	163	159	152
40.0	1121	1083	1021	542	314	230	174	144	135	124
42.5	1155	1106	1029	534	301	211	153	122	107	94
45.0	1193	1129	1028	534	282	189	129	97	80	70
47.5	1244	1156	1029	541	253	157	102	73	58	51
50.0	1304	1196	1038	551	210	117	72	50	42	38
52.5	1367	1234	1046	552	156	79	48	36	29	28
55.0	1417	1249	1038	524	104	56	36	25	21	20
57.5	1446	1252	1020	450	72	43	27	19	15	13
60.0	1433	1218	944	328	58	35	21	14	8	6
62.5	1346	1104	789	198	48	27	17	9	4	3
65.0	1157	902	562	110	40	22	13	6	3	1
67.5	858	634	336	69	29	17	8	4	2	1
70.0	554	383	181	44	21	12	6	4	2	1
72.5	302	226	100	28	14	7	5	3	2	0
75.0	208	148	59	19	8	4	4	2	1	0
77.5	140	98	43	12	4	4	2	1	0	0
80.0	79	56	29	6	3	2	2	1	0	0
82.5	51	37	18	3	2	2	1	0	0	0
85.0	33	20	6	1	1	1	1	0	0	0
87.5	13	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

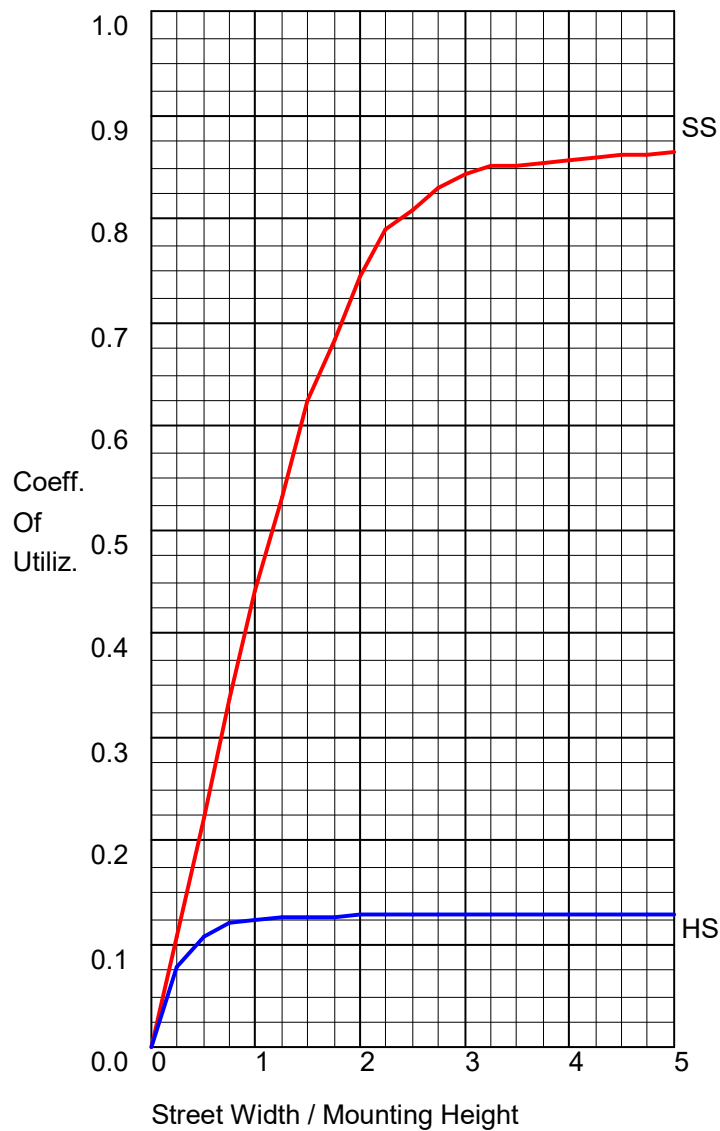
	<u>175.0</u>	<u>180.0</u>
0.0	825	825
2.5	801	797
5.0	762	757
7.5	695	688
10.0	556	559
12.5	400	400
15.0	299	299
17.5	247	247
20.0	217	216
22.5	198	198
25.0	193	194
27.5	191	192
30.0	190	190
32.5	184	184
35.0	167	164
37.5	141	139
40.0	110	110
42.5	85	83
45.0	62	60
47.5	47	47
50.0	37	37
52.5	28	28
55.0	20	20
57.5	12	12
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

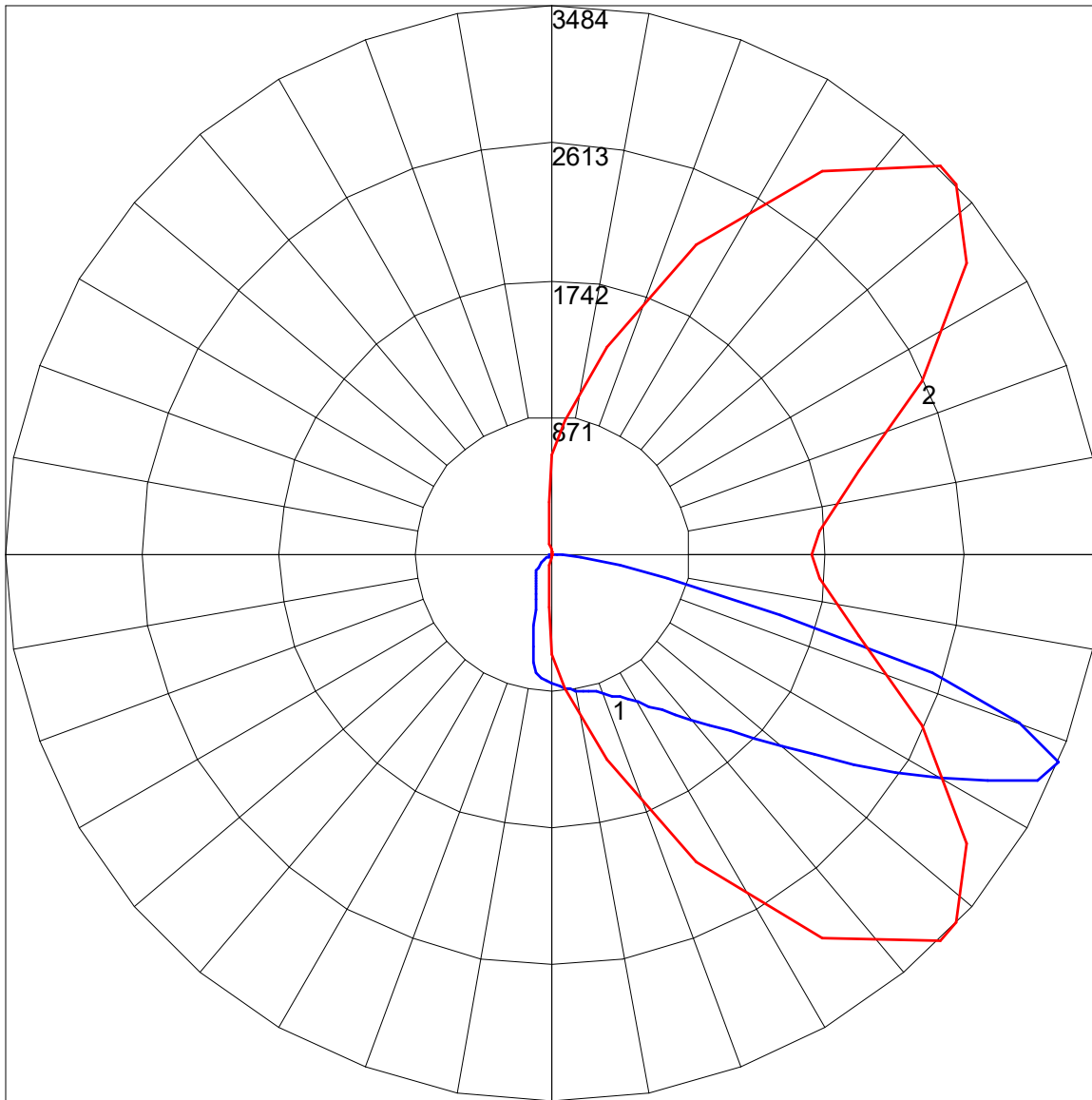
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

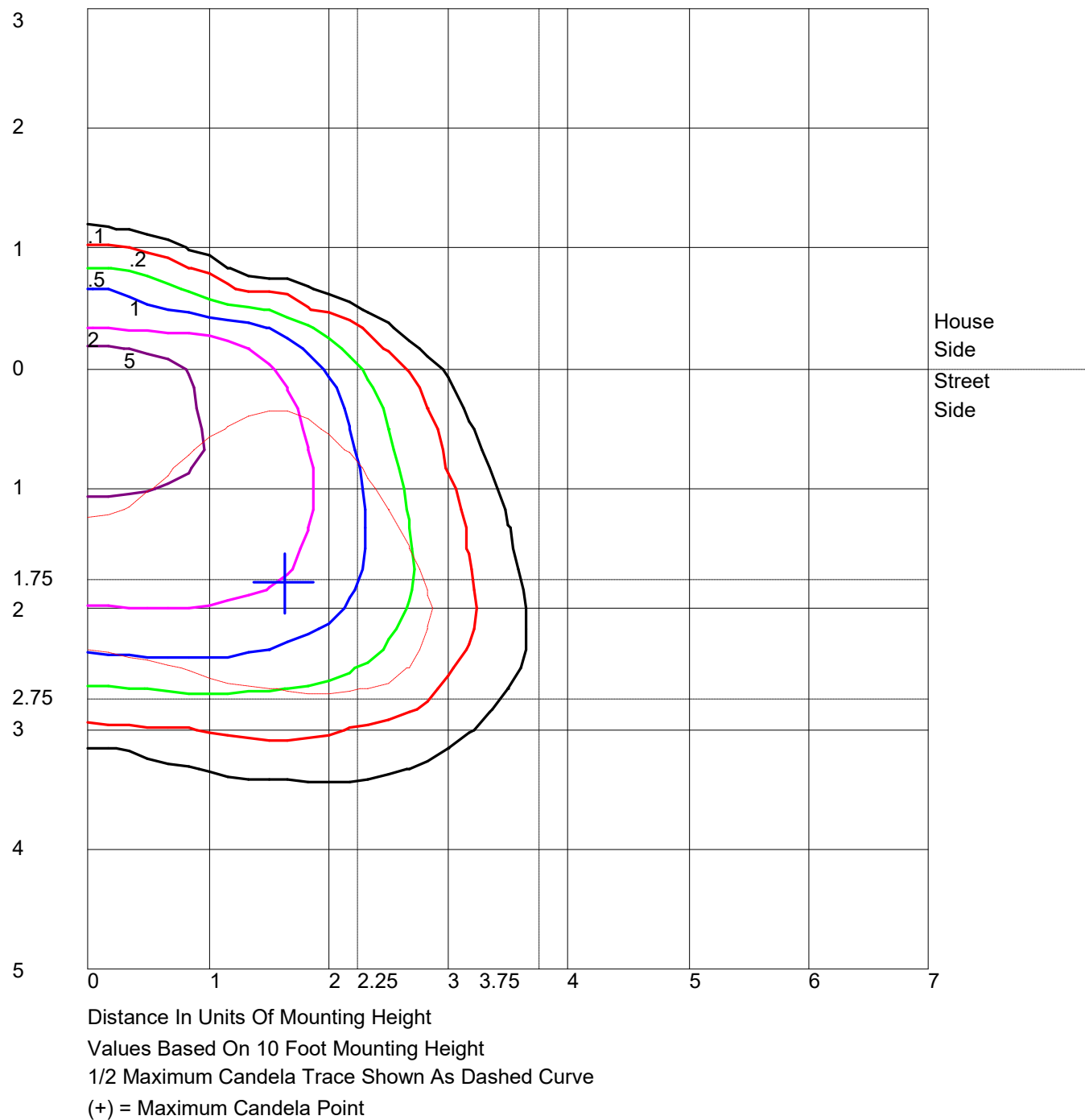
	Lumens	Percent Of Luminaire
Downward Street Side	3903.6	87.2
Downward House Side	573.3	12.8
Downward Total	4476.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4476.9	100.0

POLAR GRAPH

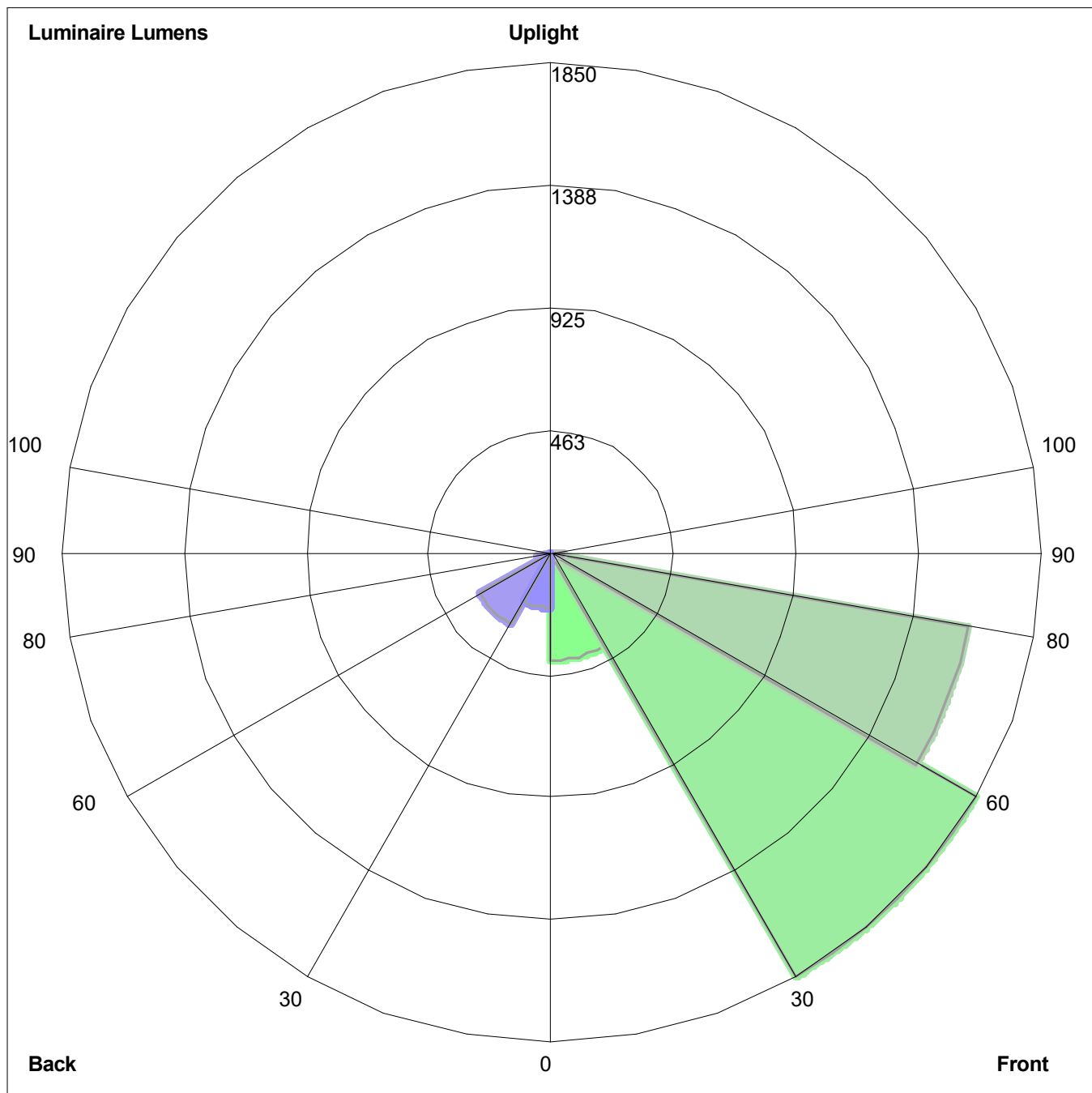


Maximum Candela = 3484 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=407.3, Medium=1850.3, High=1595.9, Very High=50.1
Back: Low=208.5, Medium=308.0, High=55.7, Very High=1.1
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1