



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-25L-50-IL

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25073
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26966
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	26966
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1255 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1285.6	N.A.	5.1
FM - Front-Medium (30-60)	12968.4	N.A.	51.7
FH - Front-High (60-80)	8104.1	N.A.	32.3
FVH - Front-Very High (80-90)	161.5	N.A.	0.6
BL - Back-Low (0-30)	716.0	N.A.	2.9
BM - Back-Medium (30-60)	1494.0	N.A.	6.0
BH - Back-High (60-80)	326.4	N.A.	1.3
BVH - Back-Very High (80-90)	17.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25073.1	N.A.	100.0
BUG Rating	B2-U0-G4		

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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>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295
2.5	2266	2269	2270	2274	2268	2272	2269	2278	2285	2287
5.0	2233	2234	2241	2250	2254	2261	2261	2271	2277	2285
7.5	2171	2178	2191	2203	2226	2247	2251	2265	2280	2289
10.0	2126	2135	2150	2171	2197	2224	2246	2260	2291	2301
12.5	2119	2126	2140	2171	2200	2239	2264	2276	2320	2331
15.0	2163	2165	2186	2232	2278	2313	2337	2349	2376	2379
17.5	2288	2303	2322	2371	2433	2456	2482	2488	2490	2475
20.0	2536	2555	2569	2612	2669	2707	2723	2725	2698	2647
22.5	2923	2943	2977	2986	3042	3108	3102	3097	3048	2961
25.0	3414	3459	3482	3522	3591	3672	3656	3642	3571	3396
27.5	4046	4087	4134	4183	4285	4411	4417	4351	4244	3931
30.0	4706	4748	4833	4913	5102	5235	5238	5206	4984	4524
32.5	5371	5360	5488	5652	5938	6106	6102	6061	5735	5146
35.0	6043	6051	6176	6441	6763	6988	6982	6908	6522	5741
37.5	6831	6865	7001	7296	7597	7861	7858	7746	7240	6258
40.0	7817	7866	7985	8253	8482	8758	8714	8553	7862	6683
42.5	9004	9055	9189	9422	9622	9675	9573	9358	8401	7095
45.0	10543	10603	10705	10902	10930	10701	10426	10135	8929	7518
47.5	12462	12635	12924	12886	12700	12164	11431	11041	9540	8129
50.0	14258	14515	14869	15081	14799	13876	12782	12284	10431	9391
52.5	15644	15788	16849	17832	17616	16057	14695	14035	12179	11208
55.0	16452	16698	17884	19659	20062	18825	17576	16926	14831	13299
57.5	15017	15225	17312	20142	21928	21530	21134	20752	18577	14504
60.0	11380	11722	14126	18233	22295	23986	24909	24786	20613	15146
62.5	6545	6903	9193	13582	20055	24877	26966	26862	21650	15432
65.0	2690	2926	4281	8046	15031	22910	26546	26863	21831	14318
67.5	1469	1539	2053	3755	9752	17701	23587	24625	19859	11189
70.0	905	952	1186	2118	4943	11298	17877	19629	14899	7678
72.5	628	653	822	1427	2850	5829	10389	11944	9411	3355
75.0	426	444	583	1121	2060	2919	4624	5733	4046	1314
77.5	301	312	422	890	1661	1737	1886	2209	1961	705
80.0	229	243	327	690	1255	1092	908	922	974	438
82.5	176	190	267	555	828	656	476	468	496	323
85.0	132	140	209	428	532	338	255	257	264	219
87.5	86	92	145	270	202	118	99	94	94	100
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	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295
2.5	2297	2310	2311	2311	2326	2334	2328	2329	2323	2322
5.0	2310	2316	2330	2330	2359	2381	2386	2387	2394	2394
7.5	2319	2325	2345	2357	2392	2425	2427	2415	2410	2395
10.0	2325	2340	2361	2385	2428	2446	2401	2303	2192	2096
12.5	2336	2345	2378	2408	2438	2389	2189	1942	1743	1580
15.0	2365	2371	2394	2424	2413	2171	1806	1525	1349	1246
17.5	2433	2410	2427	2439	2303	1856	1455	1277	1158	1084
20.0	2564	2512	2491	2459	2099	1560	1267	1141	1059	987
22.5	2793	2693	2604	2457	1855	1394	1159	1065	1023	926
25.0	3097	2904	2755	2393	1644	1295	1083	1021	1047	964
27.5	3440	3150	2917	2270	1511	1219	1029	1006	1152	1119

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CANDELA TABULATION - (Cont.)

30.0	3813	3419	3073	2124	1407	1161	982	1029	1339	1348
32.5	4198	3678	3214	1996	1293	1121	955	1068	1551	1551
35.0	4561	3905	3321	1896	1200	1090	918	1076	1787	1743
37.5	4854	4083	3402	1789	1115	1045	880	1052	2022	2042
40.0	5097	4231	3461	1684	1039	976	834	999	2251	2099
42.5	5385	4404	3513	1619	979	913	780	907	2343	1531
45.0	5774	4723	3677	1639	924	848	710	807	1913	1060
47.5	6616	5297	3976	1710	874	770	623	684	1058	780
50.0	7749	6070	4309	1777	794	633	501	567	584	612
52.5	9068	6852	4630	1829	664	441	345	398	382	508
55.0	9942	7270	4704	1782	489	293	247	260	267	420
57.5	10460	7370	4521	1592	358	234	195	185	201	343
60.0	10813	7164	3953	1333	306	207	162	143	159	286
62.5	10445	6239	2881	1015	277	187	139	114	130	246
65.0	8823	4998	2015	721	245	161	119	92	107	207
67.5	6425	3591	1272	461	196	126	90	73	78	174
70.0	3365	1847	686	286	142	91	62	52	55	139
72.5	1254	797	396	201	101	63	42	36	34	101
75.0	613	462	302	168	75	43	27	22	18	67
77.5	350	304	247	149	56	30	17	16	10	43
80.0	262	232	208	128	41	20	14	12	8	26
82.5	190	172	169	99	26	16	13	9	7	16
85.0	122	113	121	61	16	14	13	9	6	9
87.5	56	47	59	25	12	12	10	8	5	6
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

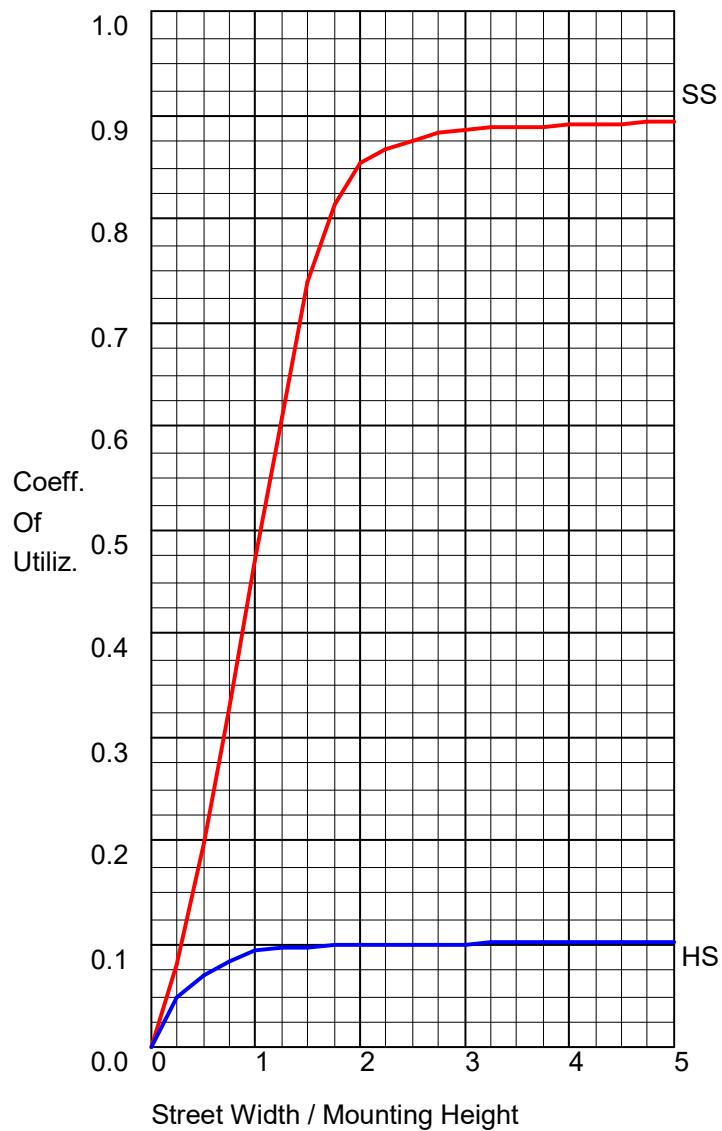
	<u>175.0</u>	<u>180.0</u>
0.0	2295	2295
2.5	2312	2326
5.0	2375	2387
7.5	2364	2354
10.0	2026	1990
12.5	1504	1486
15.0	1197	1188
17.5	1042	1037
20.0	941	936
22.5	868	860
25.0	868	855
27.5	945	916
30.0	1078	1020
32.5	1144	1073
35.0	1247	1171
37.5	1247	1117
40.0	960	839
42.5	681	603
45.0	522	472
47.5	433	382
50.0	386	321
52.5	359	276
55.0	343	257
57.5	345	265
60.0	359	291
62.5	371	321
65.0	371	344

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CANDELA TABULATION - (Cont.)

67.5	354	337
70.0	308	298
72.5	245	243
75.0	175	181
77.5	122	134
80.0	86	94
82.5	59	64
85.0	36	40
87.5	19	21
90.0	0	0

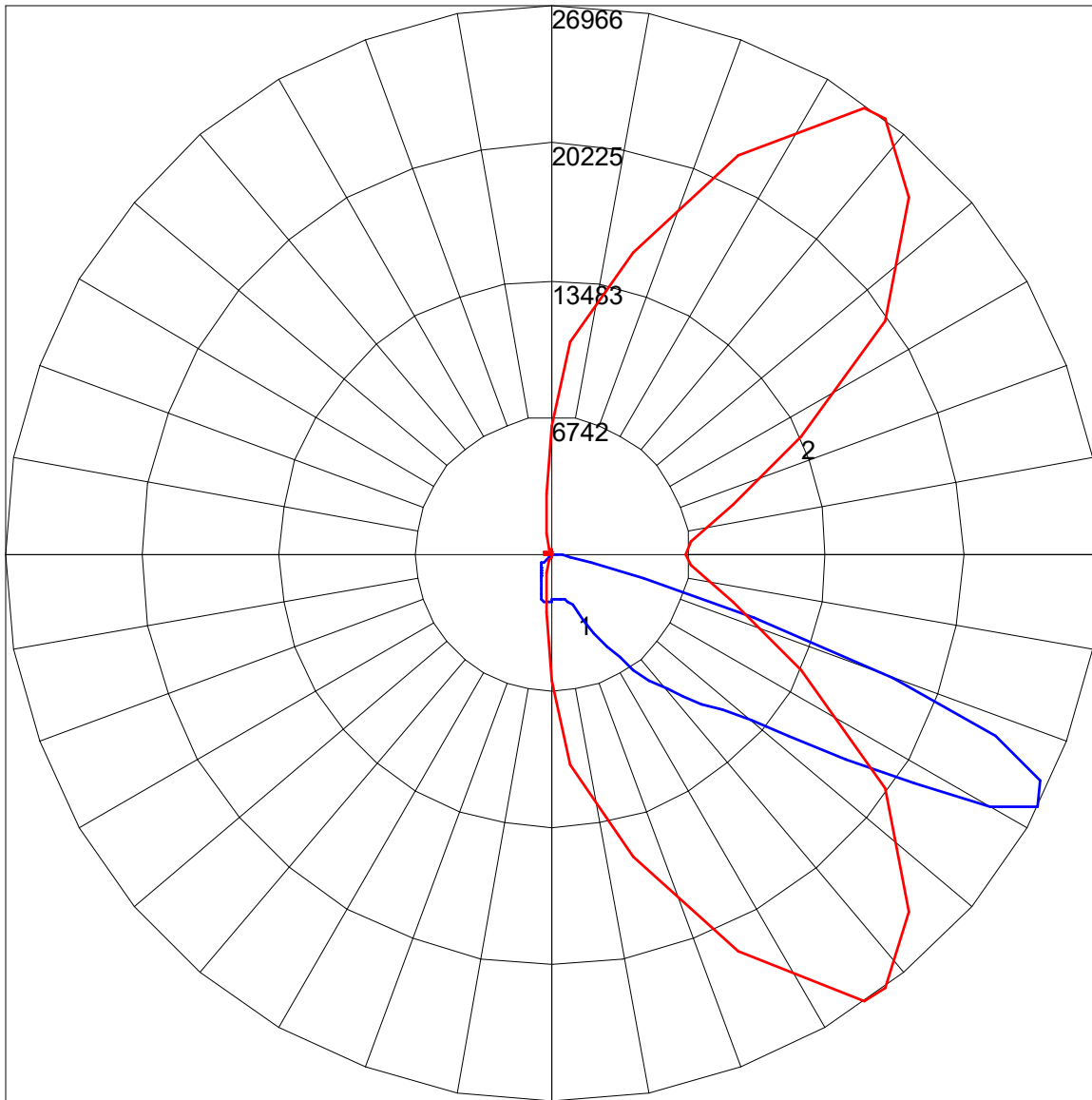
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

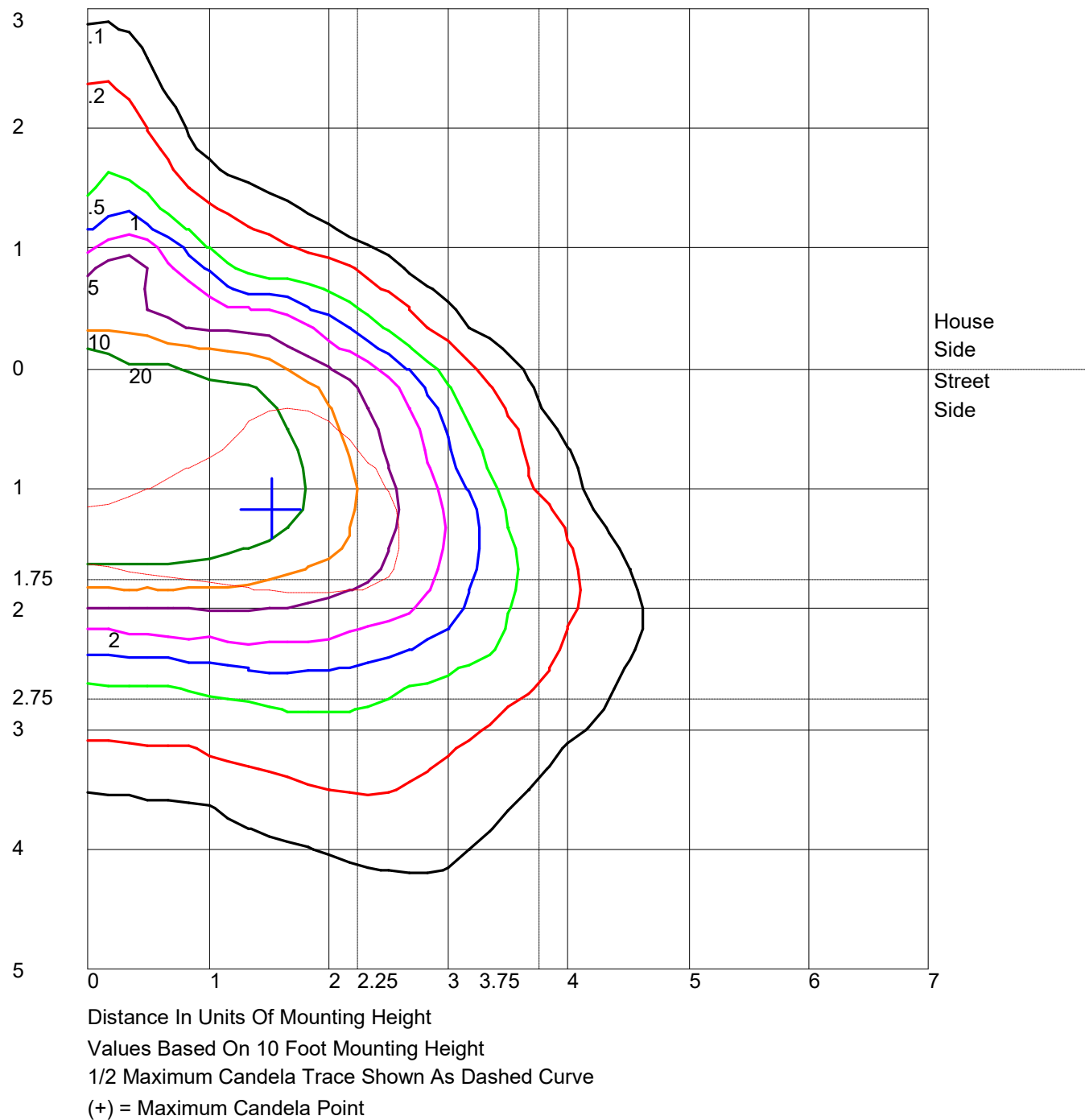
	Lumens	Percent Of Luminaire
Downward Street Side	22519.5	89.8
Downward House Side	2553.5	10.2
Downward Total	25073.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25073.0	100.0

POLAR GRAPH

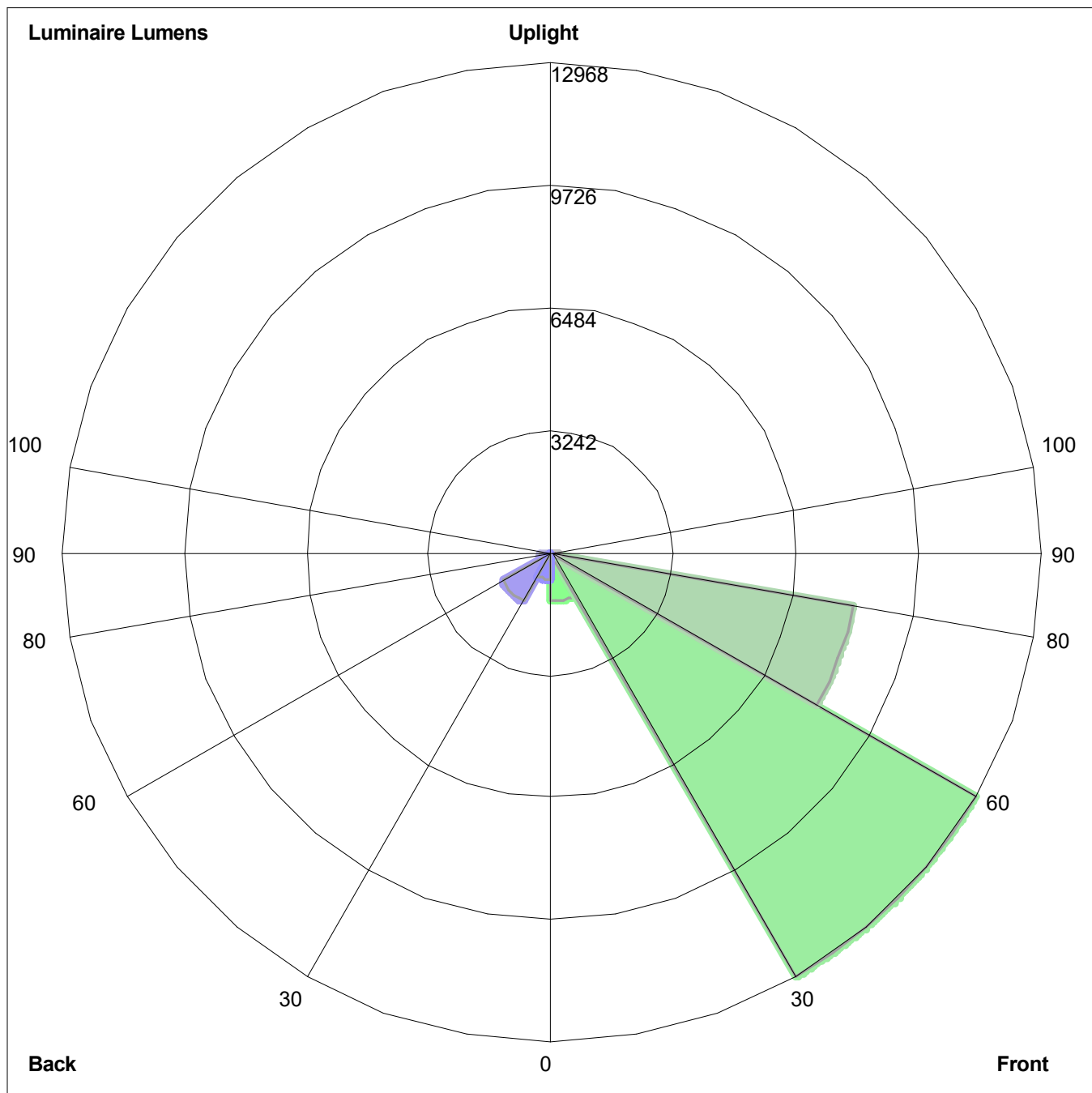


Maximum Candela = 26966 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1285.6, Medium=12968.4, High=8104.1, Very High=161.5
Back: Low=716.0, Medium= 1494.0, High=326.4, Very High=17.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4