



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-30-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-18L-30-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	14096
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10968
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10968
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	1394 (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)	1282.2	N.A.	9.1
FM - Front-Medium (30-60)	5825.8	N.A.	41.3
FH - Front-High (60-80)	5024.9	N.A.	35.6
FVH - Front-Very High (80-90)	157.6	N.A.	1.1
BL - Back-Low (0-30)	656.5	N.A.	4.7
BM - Back-Medium (30-60)	969.9	N.A.	6.9
BH - Back-High (60-80)	175.6	N.A.	1.2
BVH - Back-Very High (80-90)	3.5	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	14096.0	N.A.	100.0
BUG Rating	B2-U0-G3		

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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	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598
2.5	2680	2656	2658	2658	2659	2628	2647	2644	2631	2634
5.0	2745	2720	2722	2727	2730	2692	2719	2711	2690	2680
7.5	2772	2743	2751	2760	2769	2734	2771	2767	2756	2736
10.0	2782	2756	2762	2776	2790	2776	2797	2822	2815	2802
12.5	2807	2776	2783	2795	2811	2811	2834	2869	2877	2866
15.0	2843	2827	2835	2849	2867	2854	2882	2914	2935	2934
17.5	2894	2894	2898	2918	2928	2914	2943	2969	2996	3009
20.0	2975	2969	2980	2995	2998	2989	3010	3033	3054	3081
22.5	3067	3056	3066	3074	3083	3074	3094	3109	3106	3138
25.0	3170	3164	3162	3172	3181	3182	3189	3195	3179	3206
27.5	3298	3285	3285	3299	3304	3305	3298	3292	3267	3278
30.0	3449	3437	3436	3447	3443	3448	3441	3398	3365	3342
32.5	3618	3615	3616	3620	3605	3614	3612	3538	3476	3409
35.0	3798	3805	3820	3818	3815	3826	3798	3724	3599	3497
37.5	4019	4018	4022	4024	4044	4064	4034	3950	3747	3606
40.0	4228	4230	4245	4259	4292	4338	4303	4197	3937	3738
42.5	4451	4459	4477	4534	4594	4664	4619	4508	4203	3927
45.0	4707	4719	4753	4866	4939	5026	5013	4904	4526	4150
47.5	5007	5004	5078	5233	5354	5481	5437	5386	4908	4415
50.0	5330	5334	5446	5654	5869	6015	5959	5924	5343	4711
52.5	5663	5669	5837	6164	6435	6644	6590	6536	5838	5056
55.0	6027	6049	6272	6673	7083	7360	7365	7203	6377	5423
57.5	6399	6485	6738	7240	7810	8186	8103	7935	6944	5703
60.0	6796	6927	7242	7848	8554	8979	8876	8655	7399	5860
62.5	6985	7119	7641	8513	9263	9843	9736	9245	7670	5738
65.0	6427	6586	7391	8834	10097	10724	10613	9526	7500	5268
67.5	5220	5386	6380	8186	10141	10968	10966	9390	6835	4277
70.0	2745	2905	4176	6601	8802	9950	10326	8619	5440	3085
72.5	1085	1157	1747	3491	6301	8010	8371	6839	3849	1847
75.0	780	813	1111	1794	3151	4702	5178	4699	2328	1188
77.5	613	642	913	1359	1935	2373	2493	2632	1517	813
80.0	488	506	758	1075	1291	1377	1394	1186	927	549
82.5	350	376	567	744	657	559	542	423	442	333
85.0	151	170	225	256	236	217	212	161	169	189
87.5	54	58	78	97	82	65	58	45	48	60
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	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598
2.5	2616	2616	2612	2592	2591	2576	2561	2557	2535	2527
5.0	2647	2640	2620	2586	2563	2527	2482	2458	2438	2415
7.5	2688	2679	2644	2587	2524	2467	2403	2338	2270	2217
10.0	2753	2729	2687	2599	2494	2390	2242	2073	1932	1829
12.5	2825	2787	2739	2614	2451	2230	1959	1705	1497	1351
15.0	2894	2852	2796	2621	2363	1976	1592	1281	1086	996
17.5	2972	2924	2865	2620	2214	1688	1231	1006	880	811
20.0	3053	3006	2921	2607	2017	1369	1017	846	755	706
22.5	3127	3074	2979	2559	1778	1145	887	751	677	641
25.0	3182	3133	3035	2458	1526	1010	800	688	637	616
27.5	3240	3191	3081	2331	1331	924	745	651	617	609

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CANDELA TABULATION - (Cont.)

30.0	3299	3245	3119	2185	1207	866	705	625	598	601
32.5	3352	3289	3157	2009	1124	826	675	594	576	587
35.0	3400	3318	3181	1863	1067	797	642	559	548	549
37.5	3455	3351	3191	1764	1020	764	600	514	499	479
40.0	3531	3408	3214	1706	988	724	549	453	426	391
42.5	3636	3480	3239	1684	949	666	482	385	336	298
45.0	3755	3554	3236	1682	890	593	408	305	250	221
47.5	3919	3639	3239	1703	796	495	321	230	183	161
50.0	4108	3766	3269	1737	660	368	229	160	133	120
52.5	4305	3885	3294	1740	491	248	154	112	94	90
55.0	4461	3932	3268	1650	328	176	112	80	67	62
57.5	4553	3939	3212	1419	229	135	87	60	46	38
60.0	4512	3833	2971	1030	181	108	67	44	27	18
62.5	4237	3475	2483	623	152	87	53	29	15	9
65.0	3642	2840	1769	348	125	69	39	20	8	4
67.5	2701	1997	1058	218	93	52	27	15	6	4
70.0	1745	1208	569	138	65	36	21	12	6	4
72.5	951	712	314	90	43	23	16	10	5	1
75.0	655	466	186	60	26	15	13	5	2	0
77.5	440	306	134	37	15	12	7	4	1	0
80.0	248	174	91	21	9	7	5	2	0	0
82.5	163	114	56	8	5	5	4	1	0	0
85.0	101	62	19	5	4	5	4	1	0	0
87.5	38	14	3	1	2	3	2	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

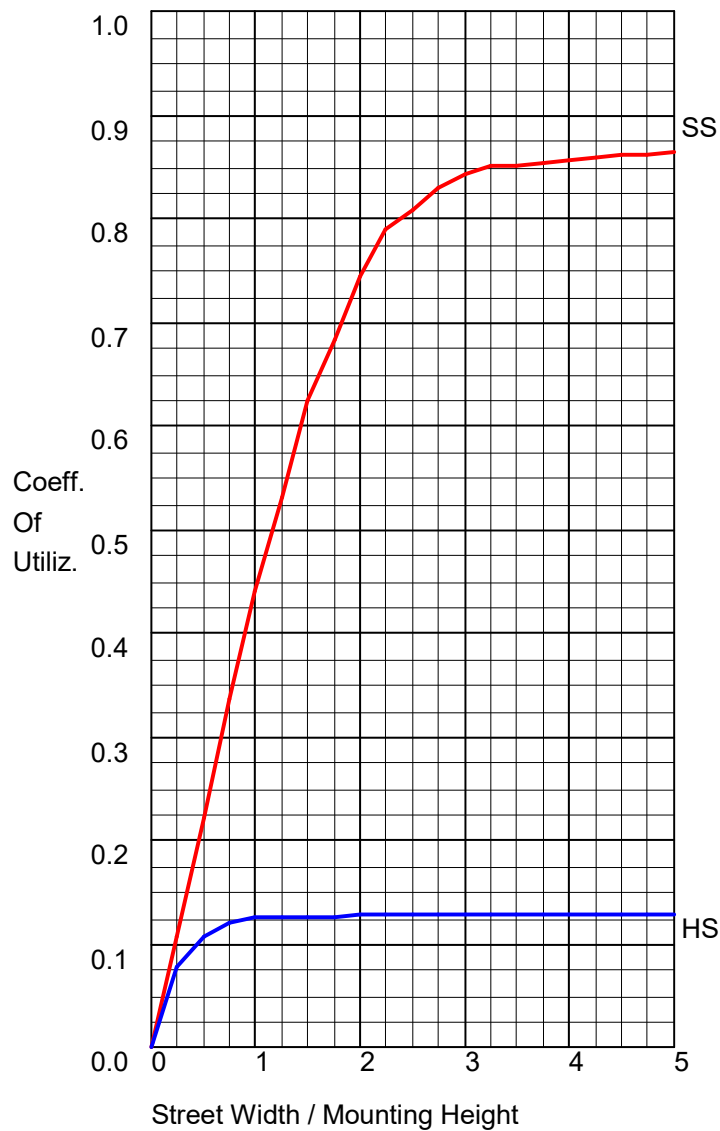
	<u>175.0</u>	<u>180.0</u>
0.0	2598	2598
2.5	2524	2510
5.0	2400	2383
7.5	2190	2167
10.0	1753	1758
12.5	1258	1258
15.0	943	943
17.5	778	776
20.0	683	679
22.5	626	623
25.0	609	612
27.5	602	605
30.0	598	598
32.5	581	580
35.0	526	517
37.5	442	436
40.0	347	346
42.5	267	261
45.0	194	190
47.5	149	147
50.0	116	115
52.5	88	88
55.0	61	61
57.5	36	36
60.0	17	16
62.5	7	7
65.0	2	2

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CANDELA TABULATION - (Cont.)

67.5	1	1
70.0	1	1
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

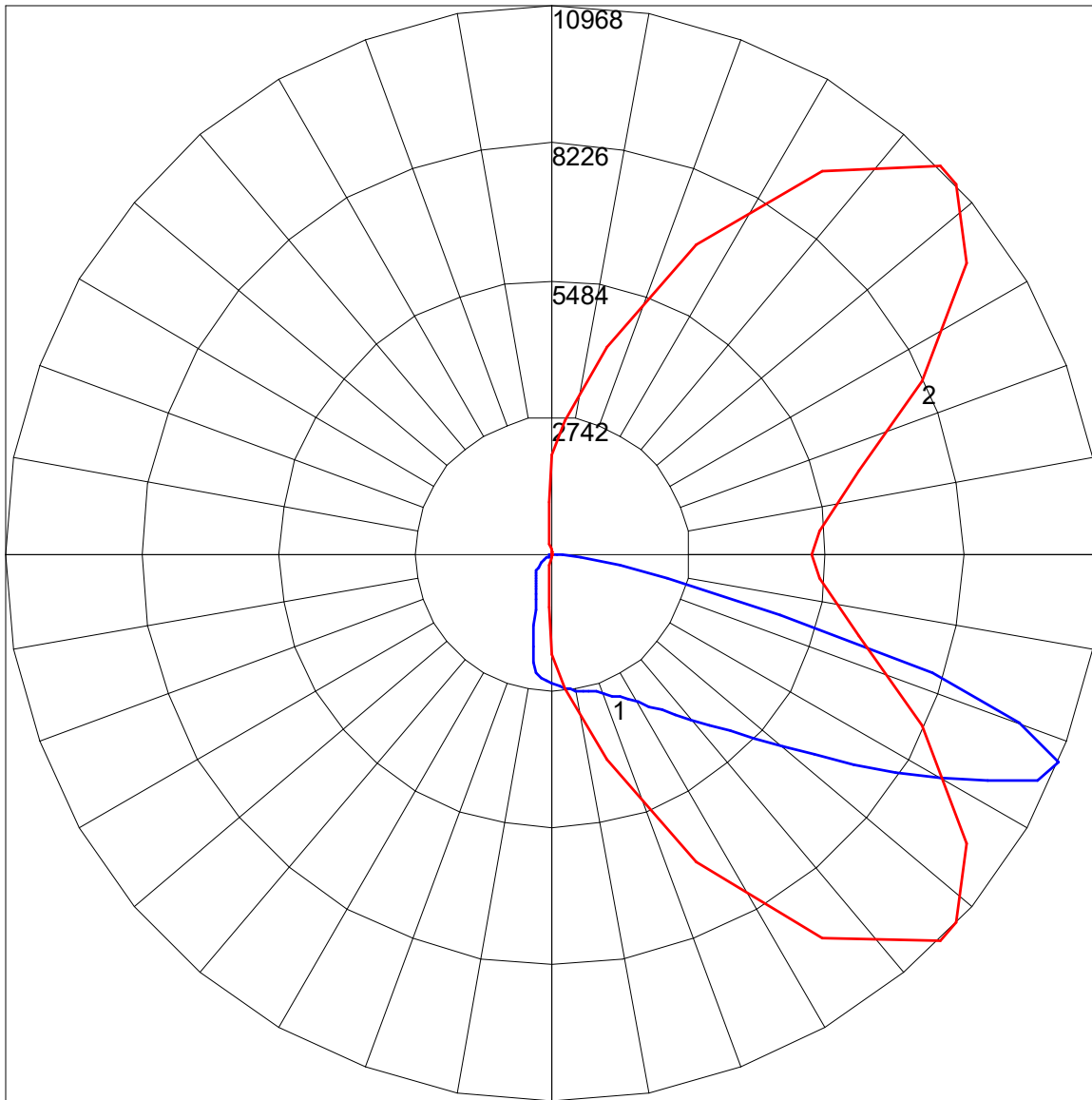
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

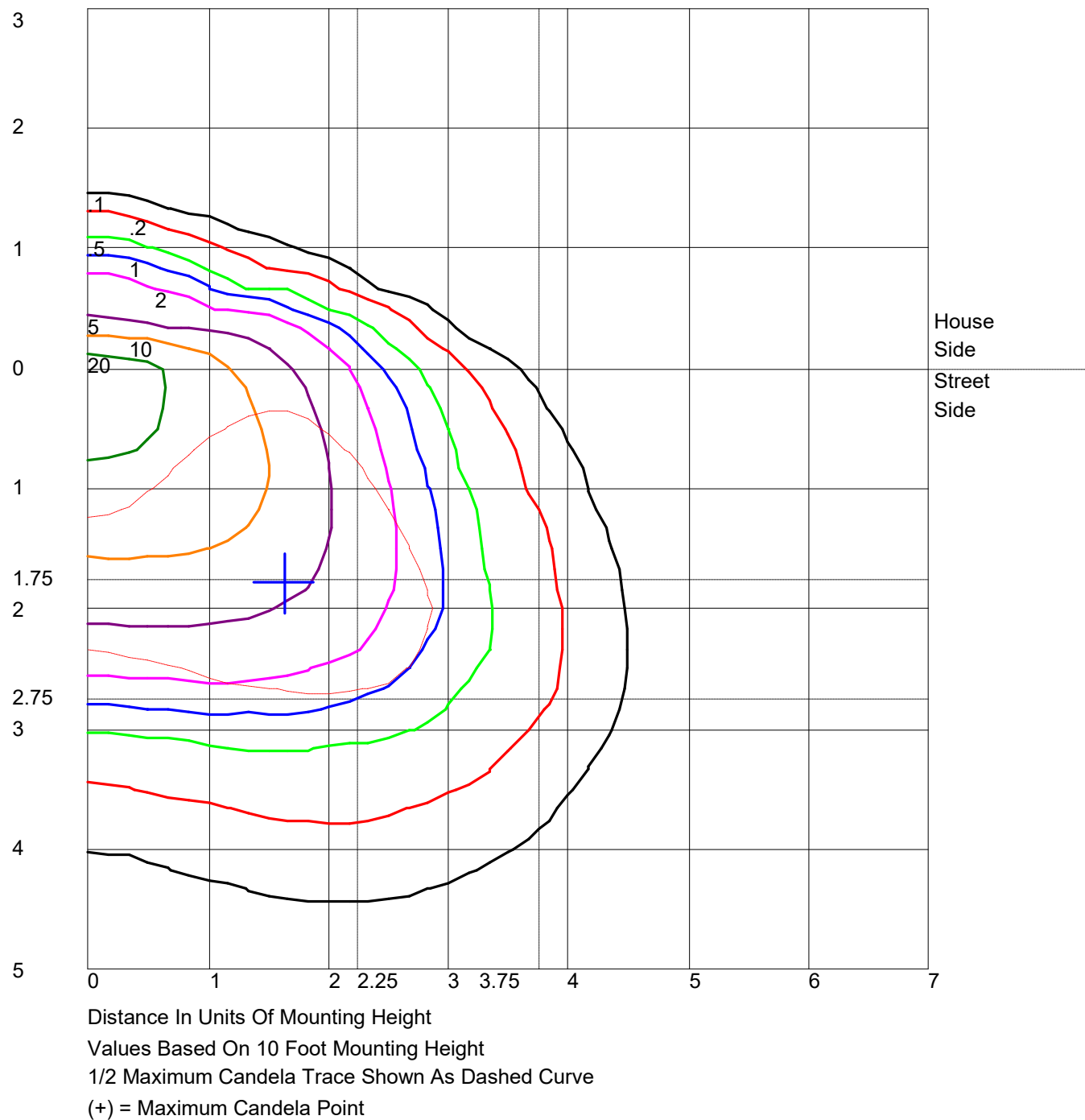
	Lumens	Percent Of Luminaire
Downward Street Side	12290.6	87.2
Downward House Side	1805.5	12.8
Downward Total	14096.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14096.1	100.0

POLAR GRAPH

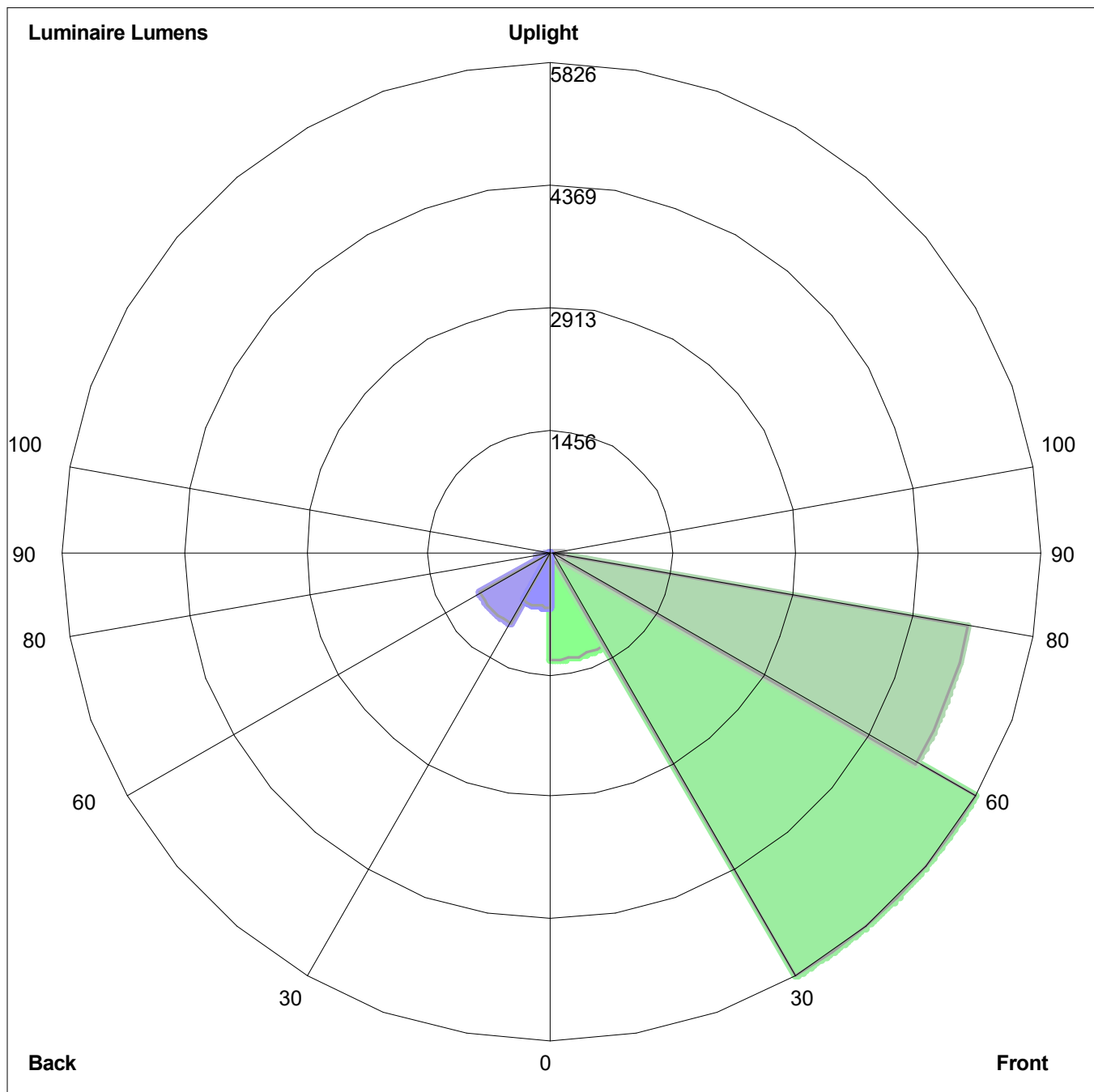


Maximum Candela = 10968 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1282.2, Medium=5825.8, High=5024.9, Very High=157.6
Back: Low=656.5, Medium=969.9, High=175.6, Very High=3.5
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3