



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11802

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/05/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-FT-LED-18L-40

[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20336
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12122
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	12122
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3906 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1304.2	N.A.	6.4
FM - Front-Medium (30-60)	6191.1	N.A.	30.4
FH - Front-High (60-80)	6799.5	N.A.	33.4
FVH - Front-Very High (80-90)	405.6	N.A.	2.0
BL - Back-Low (0-30)	1274.7	N.A.	6.3
BM - Back-Medium (30-60)	3038.6	N.A.	14.9
BH - Back-High (60-80)	1222.7	N.A.	6.0
BVH - Back-Very High (80-90)	99.6	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	20336.0	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	2792	2792	2792	2792	2792	2792	2792	2792	2792	2792
2.5	2773	2774	2776	2789	2786	2787	2792	2794	2793	2798
5.0	2729	2735	2741	2750	2766	2777	2785	2802	2812	2825
7.5	2664	2673	2684	2710	2739	2755	2776	2820	2851	2866
10.0	2651	2655	2667	2691	2729	2743	2768	2829	2885	2915
12.5	2671	2677	2691	2721	2753	2765	2792	2851	2918	2974
15.0	2727	2730	2748	2773	2806	2820	2845	2898	2957	3028
17.5	2809	2819	2832	2854	2889	2907	2920	2962	3013	3085
20.0	2915	2929	2945	2972	2993	3002	3013	3034	3070	3134
22.5	3061	3064	3080	3107	3129	3133	3132	3136	3138	3176
25.0	3239	3232	3247	3266	3287	3284	3277	3245	3220	3230
27.5	3437	3448	3453	3457	3464	3462	3445	3378	3310	3282
30.0	3684	3689	3690	3685	3677	3670	3642	3539	3419	3343
32.5	3929	3938	3946	3940	3929	3905	3872	3728	3549	3405
35.0	4190	4202	4218	4217	4202	4166	4135	3943	3698	3490
37.5	4450	4475	4494	4526	4505	4466	4426	4211	3869	3586
40.0	4725	4753	4794	4827	4847	4816	4756	4520	4088	3714
42.5	5006	5064	5102	5166	5218	5194	5141	4868	4359	3883
45.0	5347	5369	5438	5538	5630	5607	5565	5285	4690	4096
47.5	5690	5691	5788	5956	6096	6103	6034	5808	5086	4364
50.0	5973	5979	6143	6388	6593	6613	6562	6353	5542	4699
52.5	6222	6230	6441	6771	7092	7178	7161	6984	6110	5089
55.0	6408	6435	6673	7107	7560	7708	7778	7639	6710	5559
57.5	6521	6549	6840	7411	8013	8226	8409	8354	7377	6058
60.0	6606	6671	6985	7659	8451	8776	9025	9116	8097	6558
62.5	6808	6872	7223	7981	8916	9292	9654	9920	8772	6893
65.0	7126	7213	7613	8473	9463	9871	10408	10651	9206	6888
67.5	7563	7632	8179	9227	10267	10758	11207	11044	9046	6136
70.0	7156	7274	8183	10095	11391	11720	11834	10641	7664	4437
72.5	6034	6190	7184	9425	11760	12122	11724	8904	5253	2657
75.0	3935	4065	5310	7416	10084	10406	9773	6281	3201	1693
77.5	1974	2075	2940	4687	6651	7117	6637	3941	2087	1125
80.0	933	1039	1662	2528	3500	3906	3740	2471	1315	722
82.5	561	591	1095	1586	1651	2175	2114	1329	786	394
85.0	424	448	751	974	1131	1093	966	596	376	212
87.5	277	315	497	535	676	475	196	220	121	86
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85	90	95	105	115	125	135	145	155	165
0.0	2792	2792	2792	2792	2792	2792	2792	2792	2792	2792
2.5	2806	2807	2817	2798	2810	2814	2812	2808	2798	2792
5.0	2831	2838	2846	2835	2840	2834	2818	2798	2791	2785
7.5	2877	2889	2891	2879	2860	2846	2829	2822	2829	2831
10.0	2941	2954	2956	2923	2881	2866	2874	2888	2904	2896
12.5	3009	3020	3021	2965	2913	2910	2928	2941	2951	2955
15.0	3080	3088	3083	3001	2947	2954	2969	2980	3003	3005
17.5	3147	3153	3138	3029	2971	2986	3009	3018	3031	3035
20.0	3203	3207	3190	3052	2999	3013	3043	3040	3047	3056
22.5	3245	3263	3230	3063	3011	3031	3059	3050	3068	3083
25.0	3282	3299	3273	3063	3013	3039	3060	3055	3088	3109
27.5	3314	3327	3297	3048	2997	3032	3052	3060	3099	3127

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CANDELA TABULATION - (Cont.)

30.0	3337	3347	3305	3025	2980	3017	3038	3052	3102	3142
32.5	3354	3351	3299	2987	2949	2991	3008	3030	3097	3153
35.0	3359	3344	3291	2941	2899	2946	2961	2998	3080	3162
37.5	3379	3331	3273	2887	2842	2884	2897	2938	3054	3150
40.0	3414	3328	3255	2824	2763	2811	2818	2873	3020	3147
42.5	3463	3335	3229	2759	2664	2730	2726	2802	2998	3049
45.0	3558	3363	3217	2681	2555	2620	2623	2720	2975	2803
47.5	3688	3424	3225	2614	2434	2507	2508	2629	2838	2564
50.0	3858	3515	3256	2554	2297	2373	2382	2539	2639	2368
52.5	4090	3645	3313	2501	2154	2236	2248	2426	2430	2192
55.0	4367	3794	3372	2452	2009	2104	2107	2283	2225	2023
57.5	4657	3965	3437	2398	1865	1963	1974	2108	1999	1801
60.0	4881	4070	3394	2327	1726	1826	1837	1918	1753	1633
62.5	4916	3931	3045	2205	1584	1680	1683	1726	1568	1495
65.0	4575	3424	2339	1972	1429	1524	1513	1581	1417	1386
67.5	3699	2554	1641	1604	1264	1360	1375	1445	1282	1290
70.0	2363	1615	1156	1225	1072	1186	1244	1293	1156	1200
72.5	1344	968	818	911	878	1005	1091	1132	1033	1082
75.0	889	617	531	662	683	807	912	956	809	738
77.5	576	389	363	482	531	648	736	587	469	511
80.0	326	235	255	357	415	505	427	401	364	405
82.5	204	156	171	264	324	276	285	302	244	298
85.0	119	80	94	171	156	170	183	166	119	194
87.5	39	18	31	55	62	67	61	66	51	79
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

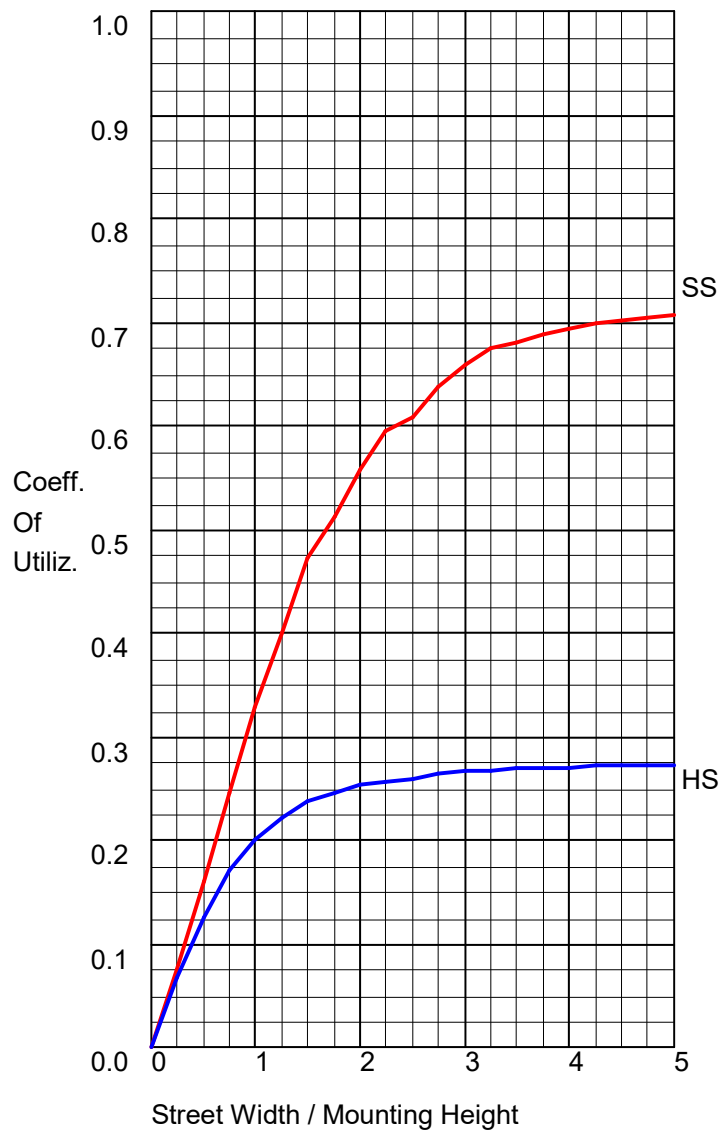
	175	180
0.0	2792	2792
2.5	2800	2795
5.0	2786	2781
7.5	2830	2825
10.0	2894	2894
12.5	2959	2954
15.0	3005	2999
17.5	3038	3029
20.0	3066	3069
22.5	3098	3103
25.0	3127	3135
27.5	3151	3164
30.0	3178	3191
32.5	3201	3209
35.0	3207	3217
37.5	3190	3199
40.0	3109	3092
42.5	2816	2801
45.0	2575	2568
47.5	2393	2370
50.0	2237	2214
52.5	2082	2061
55.0	1908	1895
57.5	1711	1696
60.0	1569	1554
62.5	1464	1454
65.0	1380	1377

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CANDELA TABULATION - (Cont.)

67.5	1312	1310
70.0	1259	1249
72.5	1143	1138
75.0	792	786
77.5	663	674
80.0	548	576
82.5	427	442
85.0	282	311
87.5	147	181
90.0	0	0

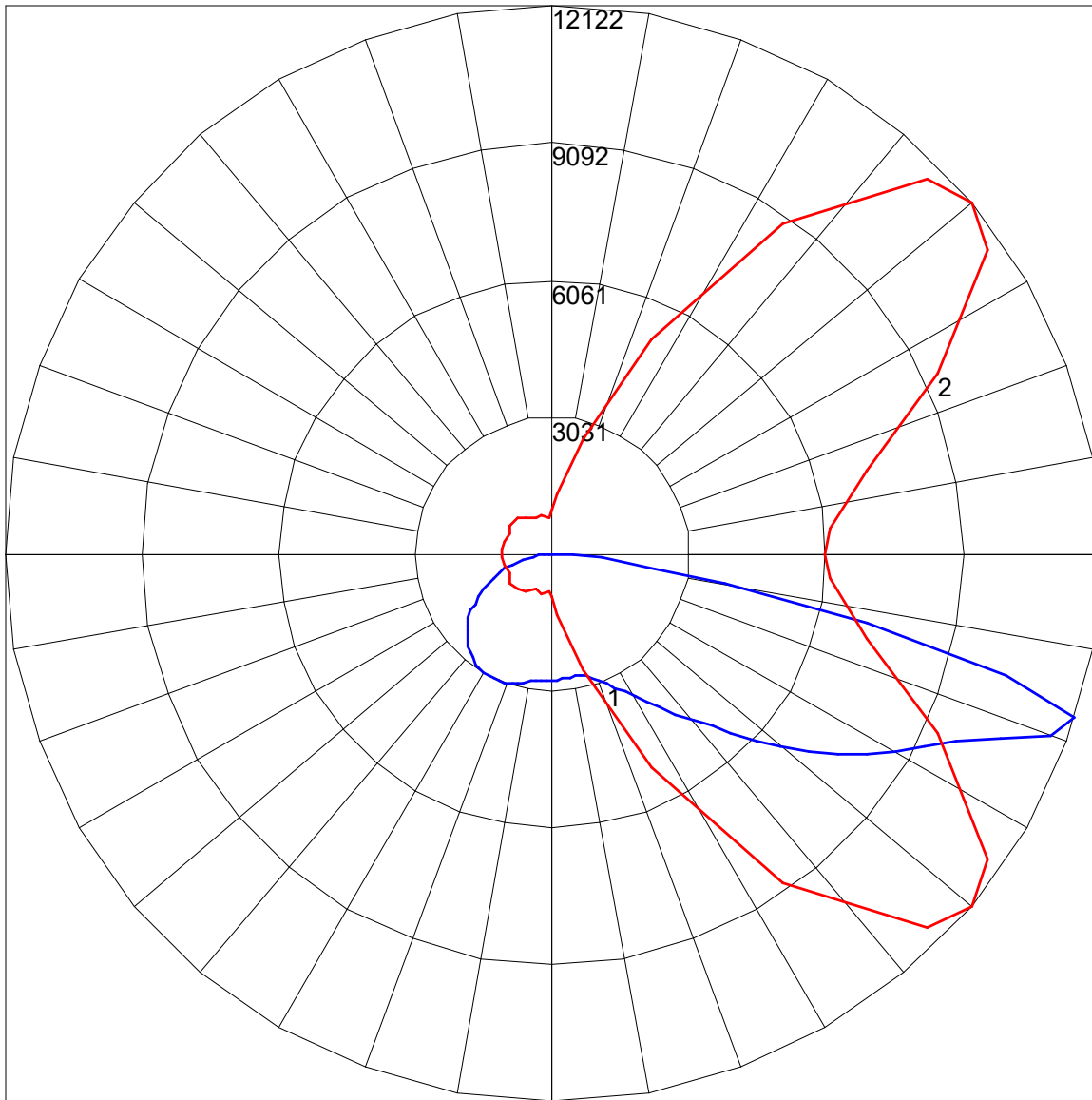
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

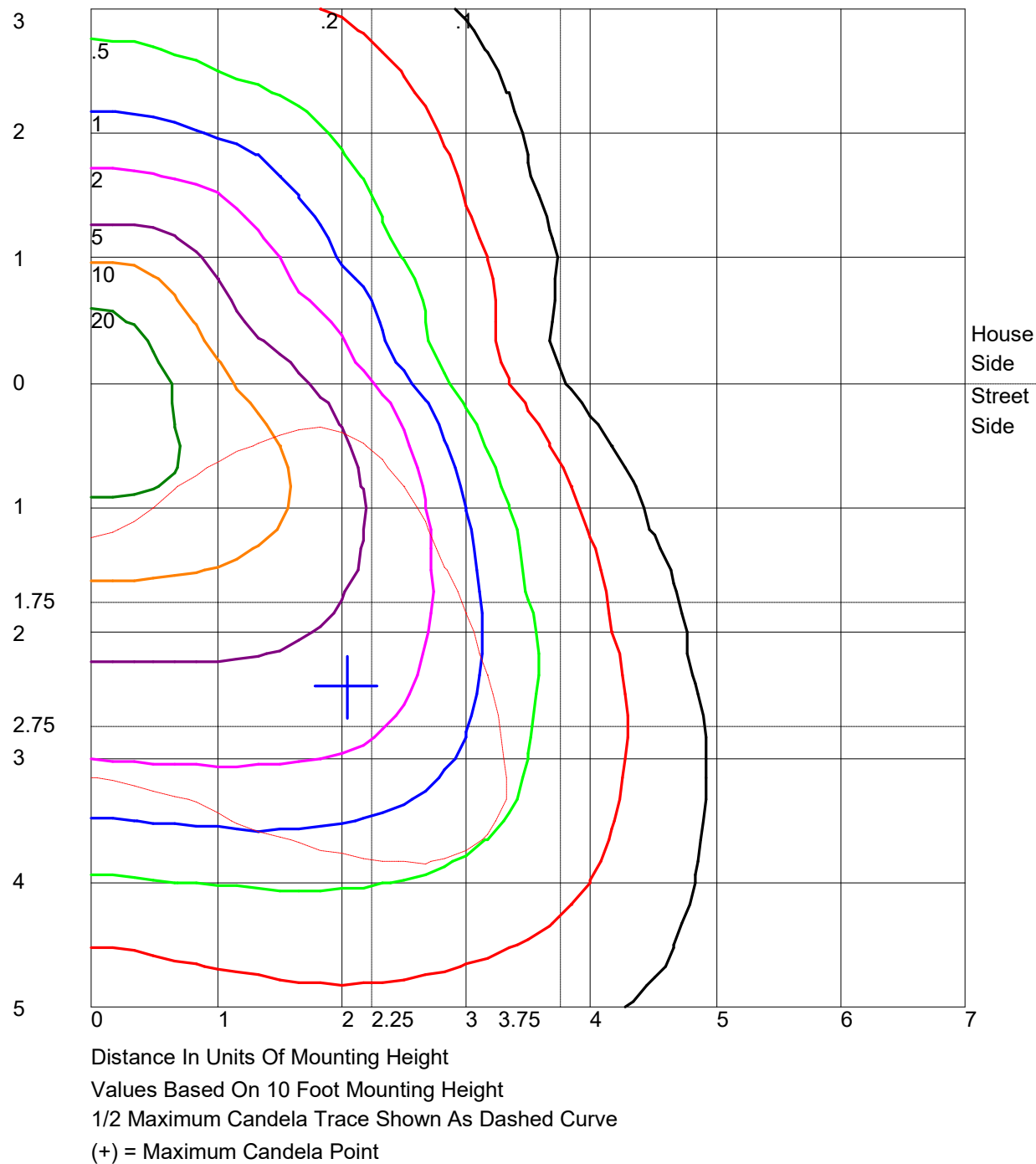
	Lumens	Percent Of Luminaire
Downward Street Side	14700.4	72.3
Downward House Side	5635.6	27.7
Downward Total	20336.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20336.0	100.0

POLAR GRAPH

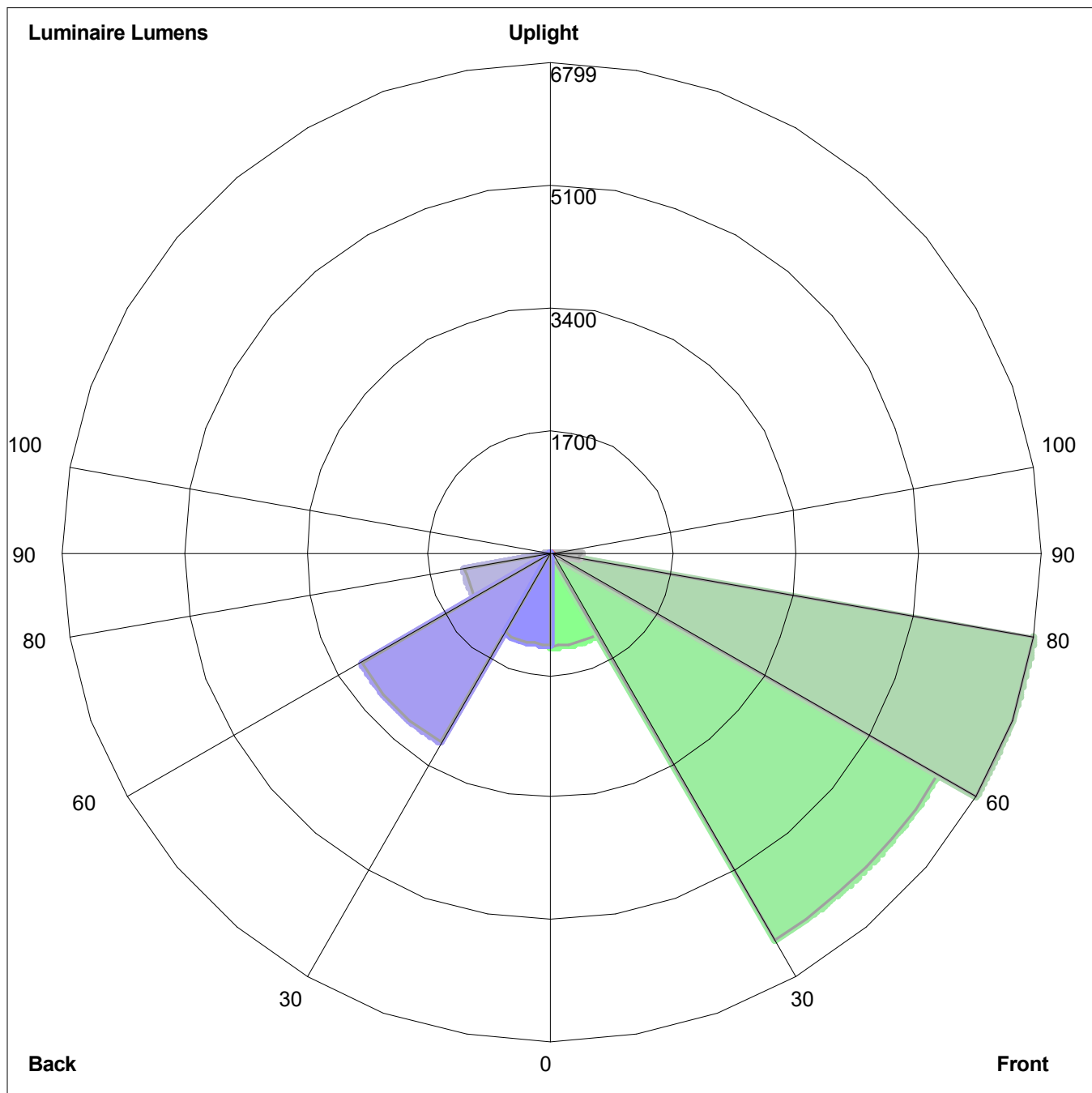


Maximum Candela = 12122 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1304.2, Medium=6191.1, High=6799.5, Very High=405.6
Back: Low=1274.7, Medium=3038.6, High=1222.7, Very High=99.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3