



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-18L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11792

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/01/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-2-LED-18L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15376
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14008
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	14008
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	856 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1497.4	N.A.	9.7
FM - Front-Medium (30-60)	7297.3	N.A.	47.5
FH - Front-High (60-80)	3618.4	N.A.	23.5
FVH - Front-Very High (80-90)	62.6	N.A.	0.4
BL - Back-Low (0-30)	985.6	N.A.	6.4
BM - Back-Medium (30-60)	1468.8	N.A.	9.6
BH - Back-High (60-80)	441.1	N.A.	2.9
BVH - Back-Very High (80-90)	5.1	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	15376.3	N.A.	100.0
BUG Rating	B2-U0-G2		

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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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831
2.5	2884	2883	2895	2890	2882	2878	2871	2851	2854	2824
5.0	2966	2942	2948	2954	2949	2939	2936	2912	2894	2864
7.5	3009	3002	3013	3013	3019	3009	3008	2980	2969	2932
10.0	3054	3049	3069	3076	3083	3093	3091	3072	3042	3020
12.5	3126	3116	3128	3137	3171	3179	3182	3177	3149	3128
15.0	3170	3162	3189	3216	3256	3280	3294	3286	3263	3256
17.5	3214	3228	3260	3289	3341	3400	3431	3429	3420	3409
20.0	3295	3319	3341	3394	3446	3522	3559	3602	3598	3564
22.5	3427	3439	3479	3527	3593	3649	3731	3793	3779	3760
25.0	3593	3605	3641	3683	3738	3813	3914	3990	4004	3987
27.5	3771	3781	3811	3884	3955	4024	4090	4213	4241	4222
30.0	4010	4024	4068	4111	4205	4274	4354	4455	4485	4487
32.5	4290	4301	4335	4415	4485	4575	4624	4706	4767	4785
35.0	4582	4579	4646	4738	4852	4918	4935	4982	5050	5077
37.5	4891	4895	4951	5071	5211	5306	5285	5306	5373	5426
40.0	5203	5214	5281	5433	5624	5739	5729	5694	5754	5814
42.5	5456	5494	5588	5797	6059	6228	6197	6117	6149	6323
45.0	5643	5676	5830	6071	6423	6723	6741	6603	6663	6778
47.5	5712	5694	5887	6242	6700	7210	7413	7212	7239	7347
50.0	5514	5489	5713	6166	6891	7637	8093	8019	7998	8092
52.5	5030	5042	5275	5774	6710	7951	8870	8935	8918	9024
55.0	4291	4293	4563	5123	6194	7939	9604	9905	9938	10071
57.5	3329	3353	3647	4175	5282	7503	10112	10989	11174	11315
60.0	2251	2276	2545	3072	4144	6553	10215	12140	12485	12592
62.5	1238	1280	1485	1896	2791	5194	9793	12766	13480	13623
65.0	664	670	787	1043	1657	3738	8628	12437	14008	13884
67.5	406	417	454	623	985	2354	6641	10898	13142	12850
70.0	264	264	287	384	633	1344	4476	8302	10067	9555
72.5	175	180	190	249	430	859	2621	5273	5952	5375
75.0	107	109	114	149	277	628	1279	3147	2939	2422
77.5	58	60	62	79	159	435	672	1727	1495	1186
80.0	50	50	48	51	75	244	396	730	856	695
82.5	52	52	50	51	59	99	185	262	498	434
85.0	41	42	39	41	50	77	87	122	221	207
87.5	27	26	24	25	30	46	55	79	79	77
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	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831
2.5	2854	2839	2841	2827	2813	2812	2800	2795	2797	2805
5.0	2892	2871	2852	2820	2807	2785	2770	2755	2731	2727
7.5	2939	2907	2909	2843	2812	2761	2730	2705	2685	2671
10.0	3015	2992	2949	2869	2820	2756	2712	2665	2628	2606
12.5	3115	3070	3036	2916	2837	2756	2666	2603	2575	2545
15.0	3228	3180	3117	2981	2867	2726	2626	2571	2528	2512
17.5	3364	3294	3243	3035	2872	2715	2593	2519	2453	2378
20.0	3534	3453	3366	3125	2891	2693	2552	2403	2122	1875
22.5	3714	3631	3522	3217	2903	2681	2449	1975	1563	1254
25.0	3916	3801	3663	3305	2929	2620	2055	1453	964	674
27.5	4151	4031	3866	3395	2936	2440	1576	880	574	466

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CANDELA TABULATION - (Cont.)

30.0	4411	4261	4051	3464	2950	2059	1064	562	442	400
32.5	4690	4523	4271	3551	2864	1618	663	449	391	363
35.0	4989	4799	4477	3625	2628	1123	498	397	359	334
37.5	5330	5095	4741	3708	2270	716	425	360	327	298
40.0	5688	5440	4977	3760	1819	523	381	327	290	253
42.5	6130	5814	5281	3739	1263	444	343	293	241	198
45.0	6592	6205	5588	3615	780	395	307	244	184	143
47.5	7140	6694	5889	3310	562	355	267	190	131	100
50.0	7839	7244	6264	2832	462	308	217	138	91	69
52.5	8647	7929	6649	2185	397	261	163	92	61	45
55.0	9613	8641	6982	1444	353	213	116	61	38	30
57.5	10662	9364	7214	932	322	167	79	38	23	17
60.0	11627	9773	7222	711	300	126	50	22	10	6
62.5	12279	9828	6739	569	277	94	28	9	5	4
65.0	12143	9242	5647	456	235	68	14	5	3	2
67.5	10384	7409	3992	347	165	43	6	3	2	1
70.0	6963	4633	2197	248	106	24	4	2	2	1
72.5	3218	2255	1025	178	60	9	2	2	1	1
75.0	1238	990	485	112	33	6	2	1	1	0
77.5	638	570	273	65	15	4	1	1	1	0
80.0	408	355	171	28	6	1	0	1	1	0
82.5	268	190	97	10	4	1	1	1	1	1
85.0	151	95	39	3	1	1	1	1	1	1
87.5	52	25	2	0	0	0	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

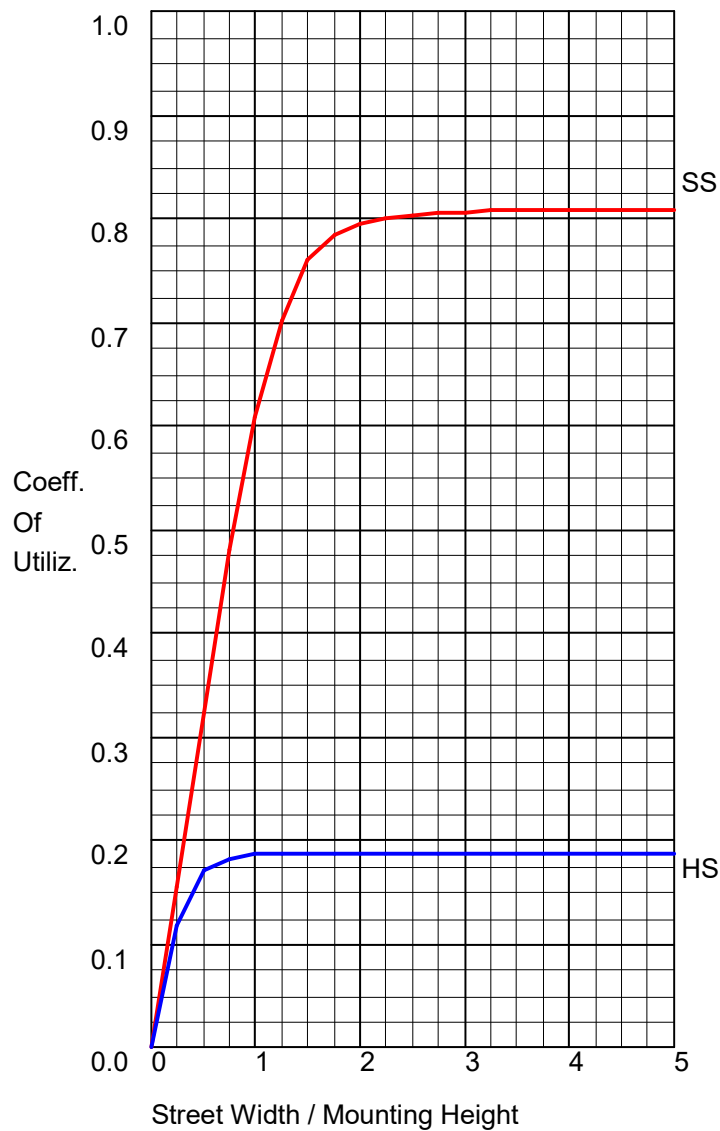
	<u>175.0</u>	<u>180.0</u>
0.0	2831	2831
2.5	2784	2783
5.0	2730	2719
7.5	2660	2646
10.0	2589	2580
12.5	2537	2537
15.0	2484	2474
17.5	2290	2266
20.0	1722	1703
22.5	1068	1048
25.0	588	581
27.5	436	430
30.0	383	381
32.5	349	345
35.0	317	316
37.5	280	278
40.0	236	233
42.5	179	174
45.0	128	124
47.5	87	86
50.0	59	58
52.5	39	38
55.0	25	24
57.5	12	11
60.0	4	4
62.5	1	0
65.0	0	0

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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

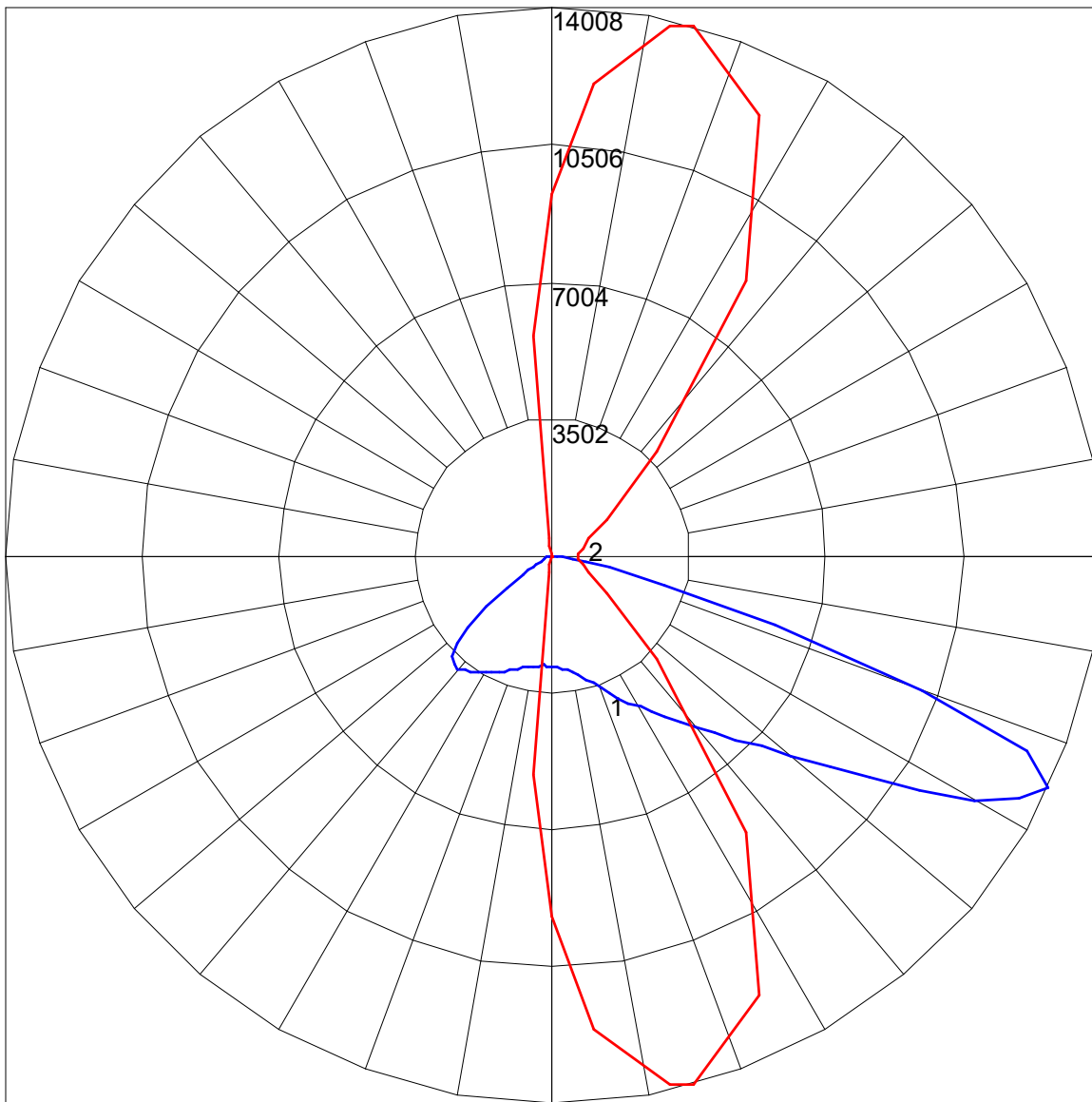
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

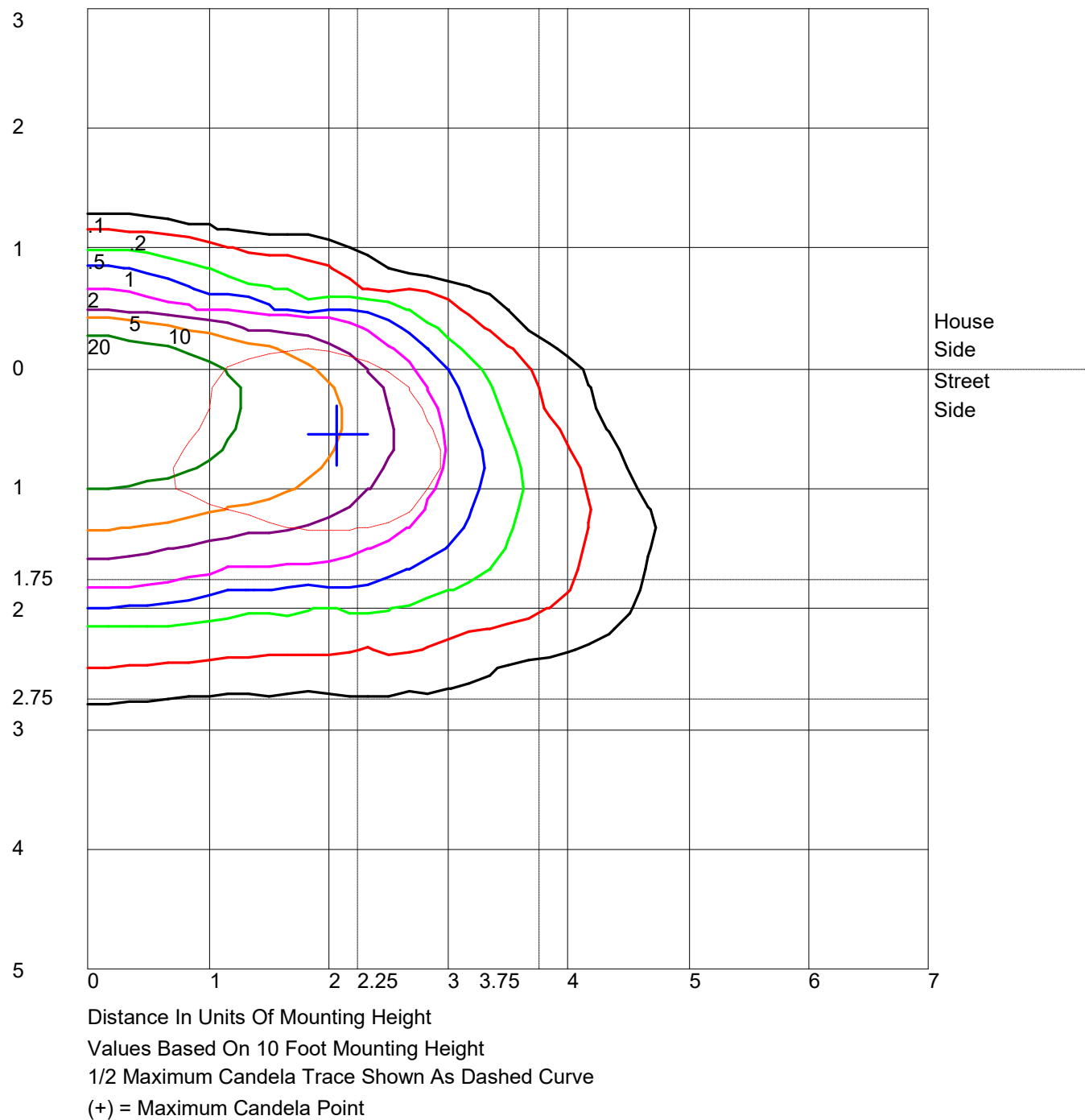
	Lumens	Percent Of Luminaire
Downward Street Side	12475.7	81.1
Downward House Side	2900.5	18.9
Downward Total	15376.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15376.3	100.0

POLAR GRAPH

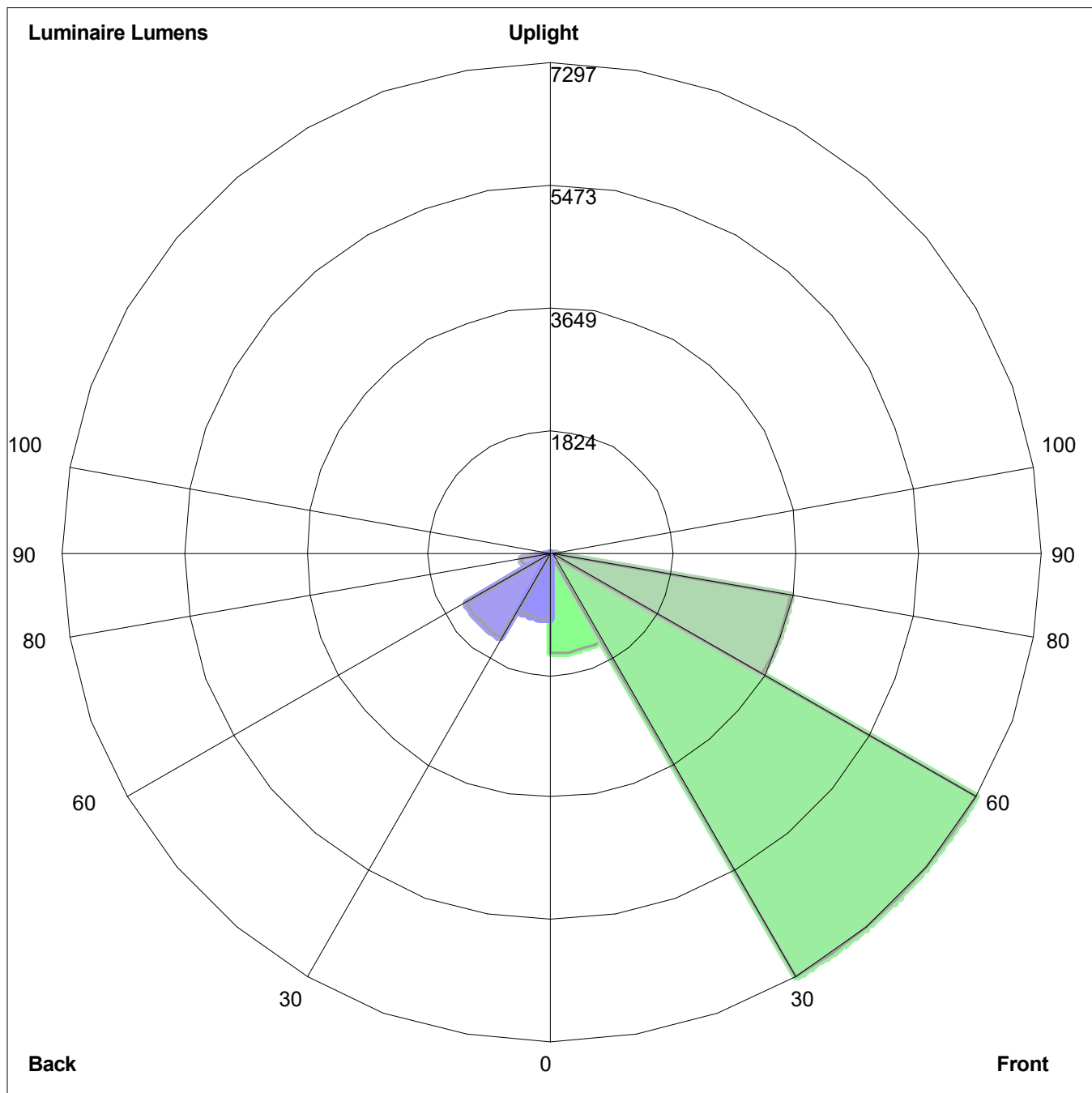


Maximum Candela = 14008 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1497.4, Medium=7297.3, High=3618.4, Very High=62.6
Back: Low=985.6, Medium=1468.8, High=441.1, Very High=5.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2