



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11800

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/05/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-2-LED-18L-50

[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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21295
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	149.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17445
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	17445
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1131 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1535.4	N.A.	7.2
FM - Front-Medium (30-60)	8142.7	N.A.	38.2
FH - Front-High (60-80)	4164.4	N.A.	19.6
FVH - Front-Very High (80-90)	107.0	N.A.	0.5
BL - Back-Low (0-30)	1410.7	N.A.	6.6
BM - Back-Medium (30-60)	4438.4	N.A.	20.8
BH - Back-High (60-80)	1375.3	N.A.	6.5
BVH - Back-Very High (80-90)	121.1	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21295.0	N.A.	100.0
BUG Rating	B3-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>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	2838	2838	2838	2838	2838	2838	2838	2838	2838	2838
2.5	2901	2904	2899	2897	2898	2887	2876	2866	2853	2850
5.0	2990	2996	2990	2983	2982	2969	2953	2926	2903	2893
7.5	3070	3082	3073	3076	3072	3057	3039	3008	2968	2958
10.0	3147	3156	3153	3162	3162	3153	3143	3113	3053	3045
12.5	3205	3211	3220	3242	3260	3276	3270	3231	3177	3158
15.0	3236	3244	3270	3306	3356	3398	3419	3386	3322	3298
17.5	3270	3276	3314	3370	3454	3528	3571	3574	3506	3481
20.0	3311	3322	3373	3446	3555	3669	3750	3769	3725	3695
22.5	3387	3394	3460	3545	3671	3814	3941	4008	3977	3951
25.0	3479	3503	3568	3661	3801	3965	4150	4264	4267	4241
27.5	3626	3648	3716	3816	3955	4136	4353	4534	4601	4573
30.0	3840	3866	3923	4016	4156	4349	4585	4858	4962	4949
32.5	4124	4151	4207	4284	4425	4601	4840	5172	5348	5342
35.0	4538	4542	4581	4642	4766	4906	5118	5506	5759	5760
37.5	5005	4999	5045	5099	5200	5304	5488	5837	6222	6242
40.0	5514	5520	5569	5647	5743	5802	5913	6201	6721	6750
42.5	6004	6029	6130	6222	6362	6466	6413	6562	7224	7326
45.0	6358	6402	6553	6776	7009	7186	7083	6981	7721	7873
47.5	6532	6561	6760	7098	7581	7931	7981	7572	8368	8597
50.0	6339	6386	6630	7080	7829	8704	9025	8401	9229	9536
52.5	5803	5852	6098	6664	7652	9154	10206	9532	10370	10755
55.0	4872	4913	5163	5796	6954	9112	11489	11013	11925	12293
57.5	3666	3645	3918	4496	5713	8384	12379	12734	13495	13931
60.0	2543	2464	2692	3123	4096	6846	12689	14220	15304	15762
62.5	1665	1675	1783	2059	2651	4824	11896	14906	16665	16879
65.0	1206	1211	1248	1443	1769	2843	9710	14502	17306	17445
67.5	902	912	946	1079	1329	1797	6706	12605	15970	15639
70.0	687	703	723	829	1043	1297	4041	9330	12101	11168
72.5	487	508	502	621	819	1033	2267	5934	6861	5894
75.0	291	306	288	386	583	843	1311	3477	3019	2476
77.5	217	241	201	235	344	618	857	1912	1501	1198
80.0	218	245	183	172	228	419	518	1131	869	715
82.5	248	258	163	127	159	298	281	660	537	468
85.0	232	248	130	88	98	180	172	220	261	228
87.5	162	149	83	44	41	72	68	62	63	56
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	2838	2838	2838	2838	2838	2838	2838	2838	2838	2838
2.5	2850	2848	2837	2814	2824	2821	2812	2802	2807	2796
5.0	2883	2873	2853	2819	2809	2790	2770	2760	2758	2752
7.5	2937	2914	2894	2835	2805	2781	2754	2749	2745	2744
10.0	3004	2971	2943	2860	2808	2778	2765	2766	2780	2802
12.5	3101	3048	3007	2896	2821	2798	2800	2835	2878	2924
15.0	3225	3156	3094	2949	2847	2832	2872	2946	3029	3104
17.5	3383	3292	3207	3010	2891	2895	2970	3106	3227	3320
20.0	3584	3471	3341	3084	2950	2980	3103	3291	3472	3574
22.5	3811	3670	3504	3176	3029	3086	3270	3499	3715	3837
25.0	4078	3903	3699	3288	3126	3221	3462	3720	3950	4100
27.5	4396	4180	3927	3424	3229	3377	3648	3928	4171	4325

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CANDELA TABULATION - (Cont.)

30.0	4744	4498	4179	3585	3357	3538	3834	4108	4360	4506
32.5	5130	4836	4453	3746	3522	3703	3977	4246	4485	4607
35.0	5546	5211	4746	3895	3659	3839	4080	4323	4501	4608
37.5	6012	5620	5059	4056	3788	3924	4113	4297	4424	4481
40.0	6552	6068	5409	4213	3905	3955	4075	4178	4240	4235
42.5	7115	6541	5734	4355	3985	3930	3956	3996	3964	3883
45.0	7707	7059	6083	4482	4020	3855	3784	3737	3606	3506
47.5	8481	7630	6438	4608	4012	3733	3573	3442	3254	3141
50.0	9430	8336	6802	4693	3966	3559	3334	3152	2904	2785
52.5	10554	9100	7167	4749	3867	3333	3069	2872	2583	2448
55.0	11861	9861	7428	4719	3696	3048	2796	2597	2262	2098
57.5	13139	10478	7490	4550	3427	2722	2494	2297	1912	1804
60.0	14041	10655	7165	4178	3027	2317	2164	1954	1622	1530
62.5	14304	10149	6264	3540	2556	1926	1781	1660	1358	1273
65.0	13485	8733	4940	2794	2057	1568	1467	1380	1128	1037
67.5	10783	6309	3391	2026	1631	1247	1196	1115	926	907
70.0	6817	3714	2097	1406	1285	996	993	900	820	813
72.5	3002	1930	1325	1014	1014	819	822	779	700	663
75.0	1236	1035	919	776	803	686	702	634	483	391
77.5	743	688	661	626	639	587	541	377	288	280
80.0	525	451	417	508	516	434	298	253	307	294
82.5	343	247	229	402	391	237	205	225	425	409
85.0	176	123	119	270	164	154	166	232	448	422
87.5	49	29	37	54	54	61	72	107	214	215
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

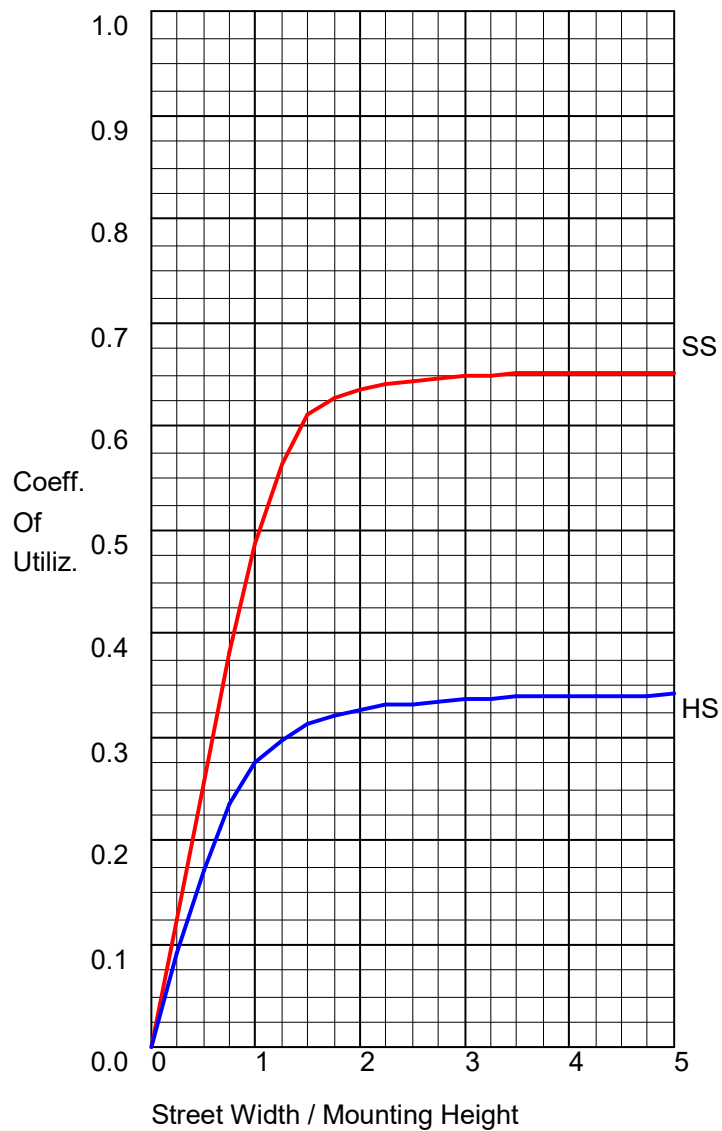
	<u>175.0</u>	<u>180.0</u>
0.0	2838	2838
2.5	2806	2791
5.0	2752	2743
7.5	2747	2742
10.0	2811	2808
12.5	2941	2943
15.0	3137	3145
17.5	3373	3390
20.0	3635	3657
22.5	3901	3927
25.0	4156	4184
27.5	4390	4412
30.0	4586	4600
32.5	4672	4695
35.0	4637	4650
37.5	4466	4481
40.0	4182	4188
42.5	3817	3821
45.0	3433	3437
47.5	3062	3061
50.0	2697	2697
52.5	2351	2356
55.0	2013	2008
57.5	1723	1689
60.0	1447	1423
62.5	1199	1193
65.0	1022	1028

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CANDELA TABULATION - (Cont.)

67.5	946	955
70.0	870	890
72.5	717	768
75.0	426	496
77.5	325	370
80.0	331	358
82.5	435	441
85.0	436	435
87.5	114	197
90.0	0	0

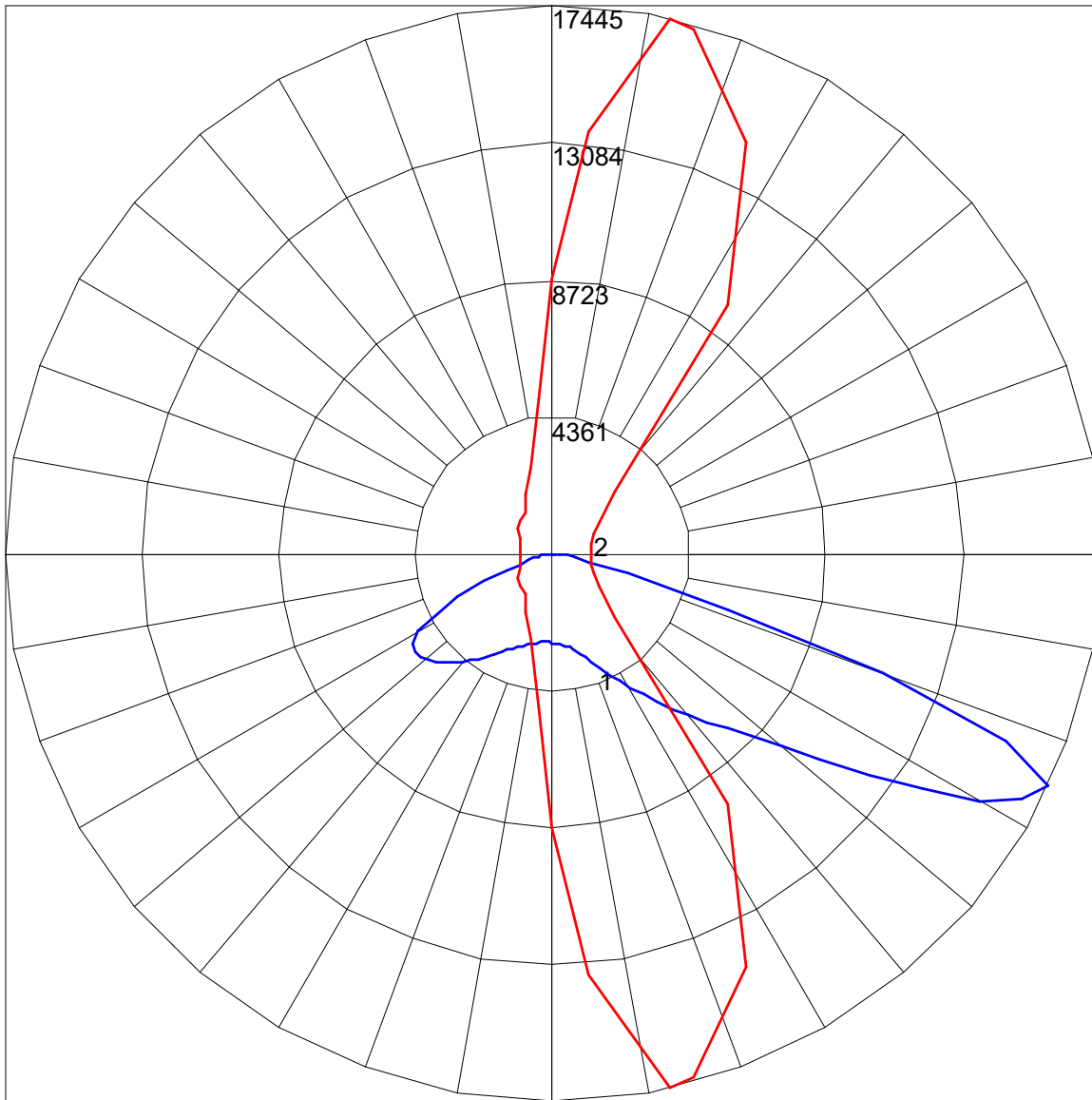
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

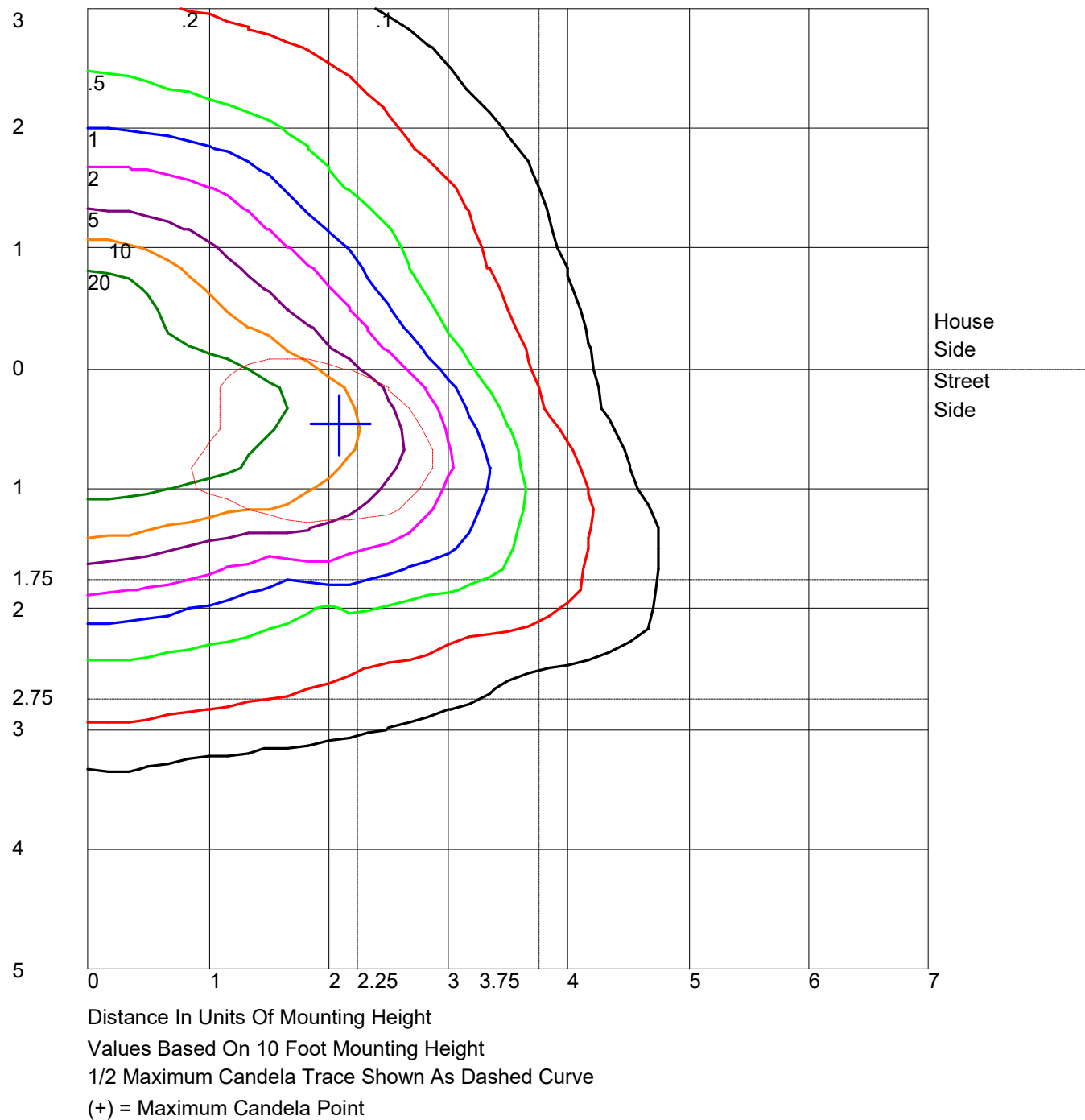
	Lumens	Percent Of Luminaire
Downward Street Side	13949.5	65.5
Downward House Side	7345.5	34.5
Downward Total	21295.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21295.0	100.0

POLAR GRAPH

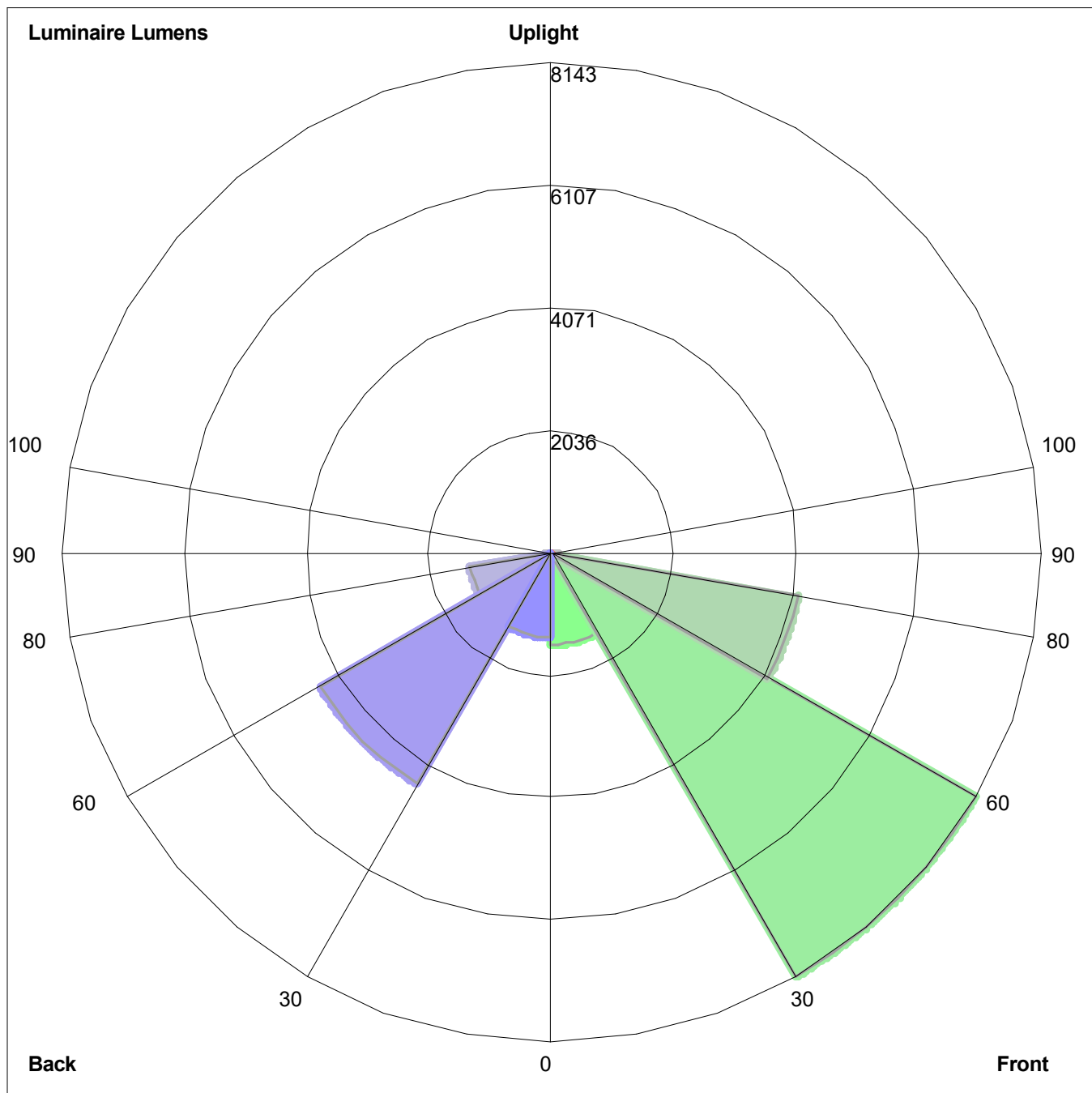


Maximum Candela = 17445 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1535.4, Medium=8142.7, High=4164.4, Very High=107.0
Back: Low=1410.7, Medium=4438.4, High=1375.3, Very High=121.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3