



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-40-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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15419
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	11997
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	11997
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	1525 (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)	1402.5	N.A.	9.1
FM - Front-Medium (30-60)	6372.6	N.A.	41.3
FH - Front-High (60-80)	5496.5	N.A.	35.6
FVH - Front-Very High (80-90)	172.4	N.A.	1.1
BL - Back-Low (0-30)	718.1	N.A.	4.7
BM - Back-Medium (30-60)	1060.9	N.A.	6.9
BH - Back-High (60-80)	192.0	N.A.	1.2
BVH - Back-Very High (80-90)	3.9	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	15418.9	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	2842	2842	2842	2842	2842	2842	2842	2842	2842	2842
2.5	2932	2905	2908	2907	2909	2875	2895	2892	2878	2881
5.0	3003	2975	2977	2983	2986	2945	2974	2965	2943	2931
7.5	3032	3000	3009	3019	3029	2991	3031	3027	3015	2993
10.0	3043	3015	3021	3037	3052	3037	3060	3087	3079	3065
12.5	3070	3036	3044	3057	3075	3075	3100	3138	3147	3135
15.0	3110	3092	3101	3116	3136	3122	3152	3188	3210	3209
17.5	3166	3166	3170	3192	3203	3188	3219	3248	3277	3291
20.0	3254	3248	3260	3276	3279	3269	3292	3318	3341	3370
22.5	3355	3343	3354	3362	3372	3363	3384	3401	3398	3432
25.0	3468	3461	3459	3470	3479	3481	3488	3495	3477	3507
27.5	3608	3593	3593	3609	3614	3615	3608	3601	3574	3586
30.0	3773	3760	3758	3770	3766	3772	3764	3717	3681	3656
32.5	3958	3954	3955	3960	3943	3953	3951	3870	3802	3729
35.0	4154	4162	4179	4176	4173	4185	4154	4074	3937	3825
37.5	4396	4395	4399	4402	4423	4445	4413	4321	4099	3944
40.0	4625	4627	4643	4659	4695	4745	4707	4591	4306	4089
42.5	4869	4877	4897	4959	5025	5102	5052	4931	4598	4296
45.0	5149	5162	5199	5323	5403	5498	5483	5364	4951	4539
47.5	5477	5474	5555	5724	5856	5995	5947	5892	5369	4829
50.0	5830	5835	5957	6185	6420	6579	6518	6480	5845	5153
52.5	6195	6201	6385	6742	7039	7268	7209	7149	6386	5530
55.0	6593	6617	6861	7299	7748	8051	8056	7879	6976	5932
57.5	7000	7094	7370	7919	8543	8954	8863	8680	7596	6238
60.0	7434	7577	7922	8585	9357	9822	9709	9467	8093	6410
62.5	7641	7787	8358	9312	10132	10767	10650	10113	8390	6277
65.0	7030	7204	8085	9663	11045	11730	11609	10420	8204	5762
67.5	5710	5891	6979	8954	11093	11997	11995	10271	7476	4678
70.0	3003	3178	4568	7221	9628	10884	11295	9428	5951	3375
72.5	1187	1266	1911	3819	6892	8762	9157	7481	4210	2020
75.0	853	889	1215	1962	3447	5143	5664	5140	2547	1299
77.5	671	702	999	1486	2117	2596	2727	2879	1659	889
80.0	534	553	829	1176	1412	1506	1525	1297	1014	601
82.5	383	411	620	814	719	612	593	463	484	364
85.0	165	186	246	280	258	237	232	176	185	207
87.5	59	63	85	106	90	71	63	49	52	66
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	2842	2842	2842	2842	2842	2842	2842	2842	2842	2842
2.5	2861	2862	2857	2835	2834	2818	2801	2797	2773	2764
5.0	2895	2888	2866	2829	2804	2764	2715	2689	2667	2642
7.5	2940	2930	2892	2830	2761	2698	2628	2557	2483	2425
10.0	3011	2985	2939	2843	2728	2614	2452	2268	2113	2001
12.5	3090	3049	2996	2859	2681	2439	2143	1865	1638	1478
15.0	3166	3120	3058	2867	2585	2161	1741	1401	1188	1089
17.5	3251	3198	3134	2866	2422	1846	1347	1100	963	887
20.0	3339	3288	3195	2852	2206	1498	1112	925	826	772
22.5	3420	3362	3259	2799	1945	1253	970	821	741	701
25.0	3481	3427	3320	2689	1669	1105	875	753	697	674
27.5	3544	3490	3370	2550	1456	1011	815	712	675	666

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CANDELA TABULATION - (Cont.)

30.0	3609	3550	3412	2390	1320	947	771	684	654	657
32.5	3667	3598	3453	2198	1229	903	738	650	630	642
35.0	3719	3629	3480	2038	1167	872	702	612	599	601
37.5	3779	3665	3491	1930	1116	836	656	562	546	524
40.0	3862	3728	3516	1866	1081	792	600	496	466	428
42.5	3977	3807	3543	1842	1038	728	527	421	368	326
45.0	4107	3888	3540	1840	973	649	446	334	273	242
47.5	4287	3980	3543	1863	871	542	351	252	200	176
50.0	4493	4119	3576	1900	722	402	250	175	146	131
52.5	4709	4250	3603	1903	537	271	168	123	103	98
55.0	4880	4301	3575	1805	359	193	122	88	73	68
57.5	4980	4309	3513	1552	251	148	95	66	50	42
60.0	4936	4193	3250	1127	198	118	73	48	29	20
62.5	4635	3801	2716	682	166	95	58	32	16	10
65.0	3984	3107	1935	381	137	75	43	22	9	4
67.5	2955	2184	1157	238	102	57	30	16	7	4
70.0	1909	1321	622	151	71	39	23	13	7	4
72.5	1040	779	343	98	47	25	17	11	6	1
75.0	716	510	203	66	28	16	14	6	2	0
77.5	481	335	147	40	16	13	8	4	1	0
80.0	271	190	100	23	10	8	6	2	0	0
82.5	178	125	61	9	6	6	4	1	0	0
85.0	111	68	21	5	4	5	4	1	0	0
87.5	42	15	3	1	2	3	2	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

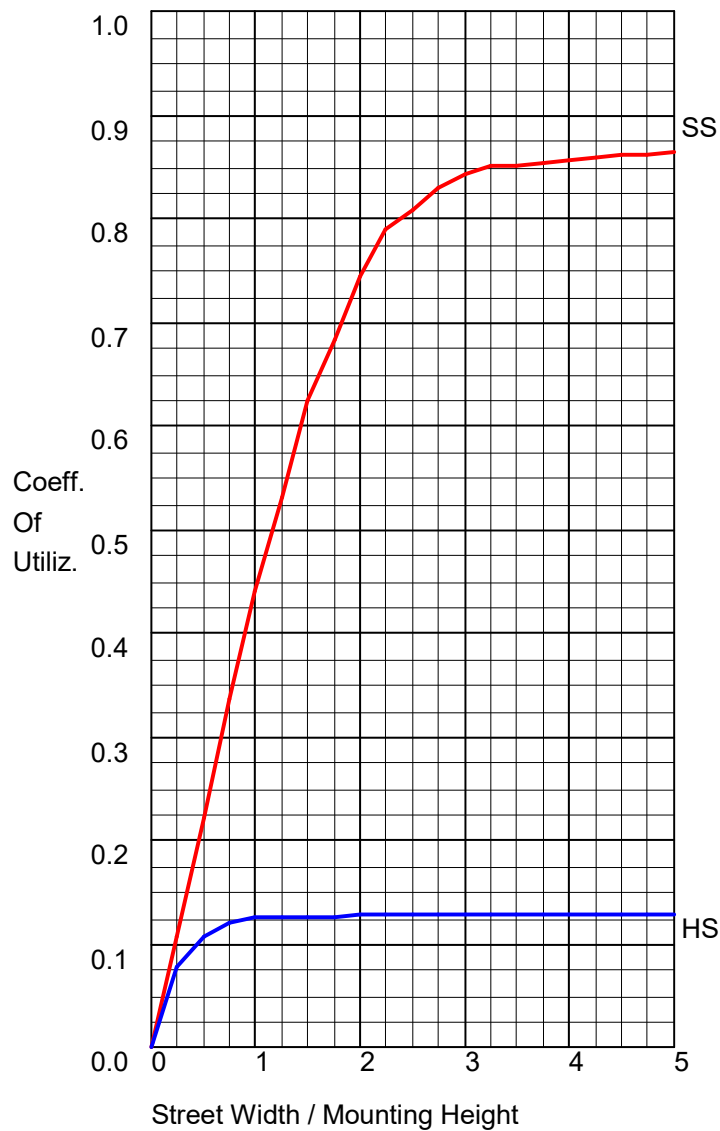
	<u>175.0</u>	<u>180.0</u>
0.0	2842	2842
2.5	2761	2746
5.0	2625	2607
7.5	2395	2370
10.0	1918	1923
12.5	1376	1376
15.0	1031	1031
17.5	851	849
20.0	747	743
22.5	685	682
25.0	666	669
27.5	659	662
30.0	654	654
32.5	635	634
35.0	575	565
37.5	483	477
40.0	380	379
42.5	292	286
45.0	212	208
47.5	163	161
50.0	127	126
52.5	96	96
55.0	67	67
57.5	39	39
60.0	19	18
62.5	8	8
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

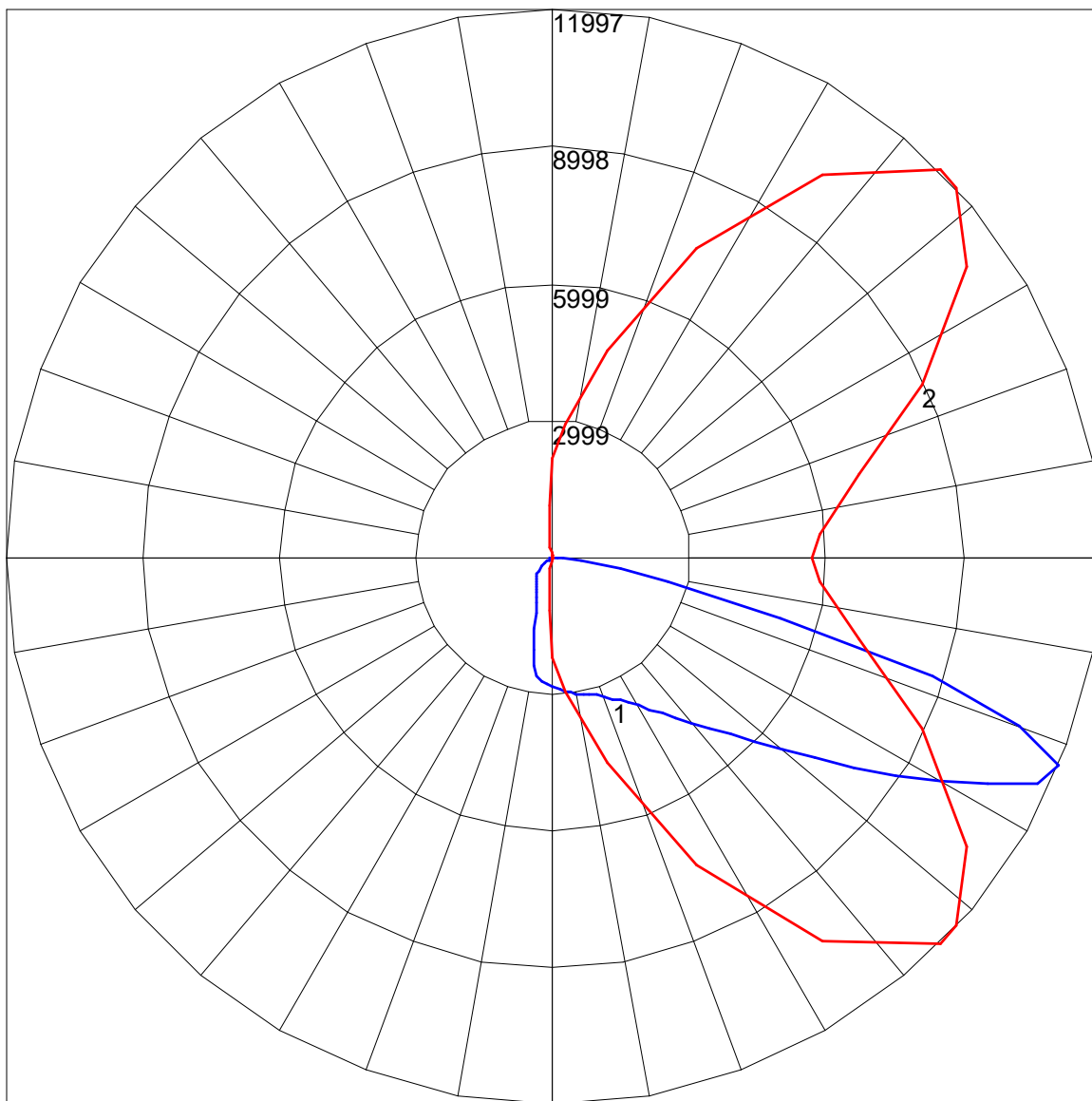
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

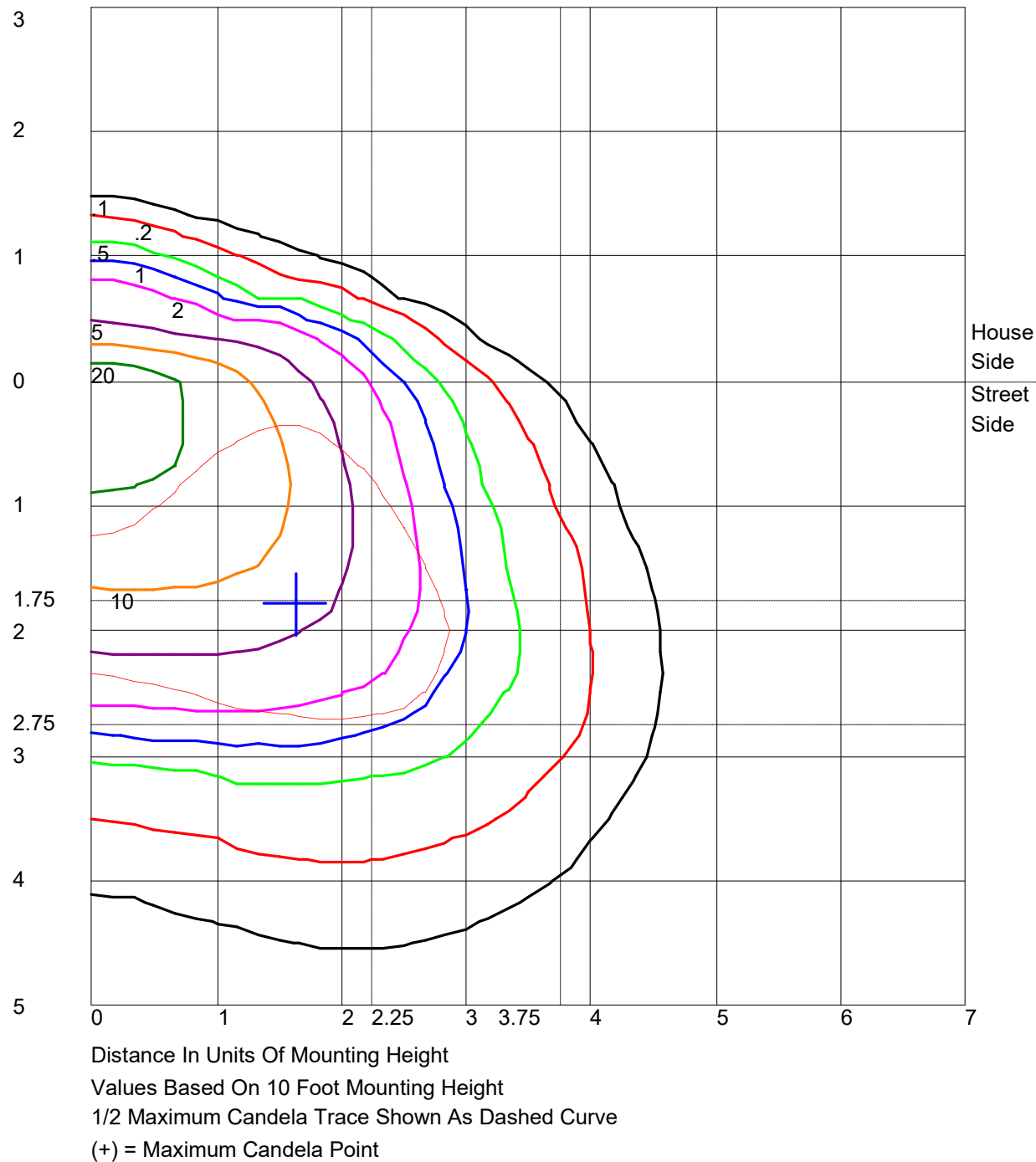
	Lumens	Percent Of Luminaire
Downward Street Side	13444.1	87.2
Downward House Side	1974.9	12.8
Downward Total	15419.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15419.0	100.0

POLAR GRAPH

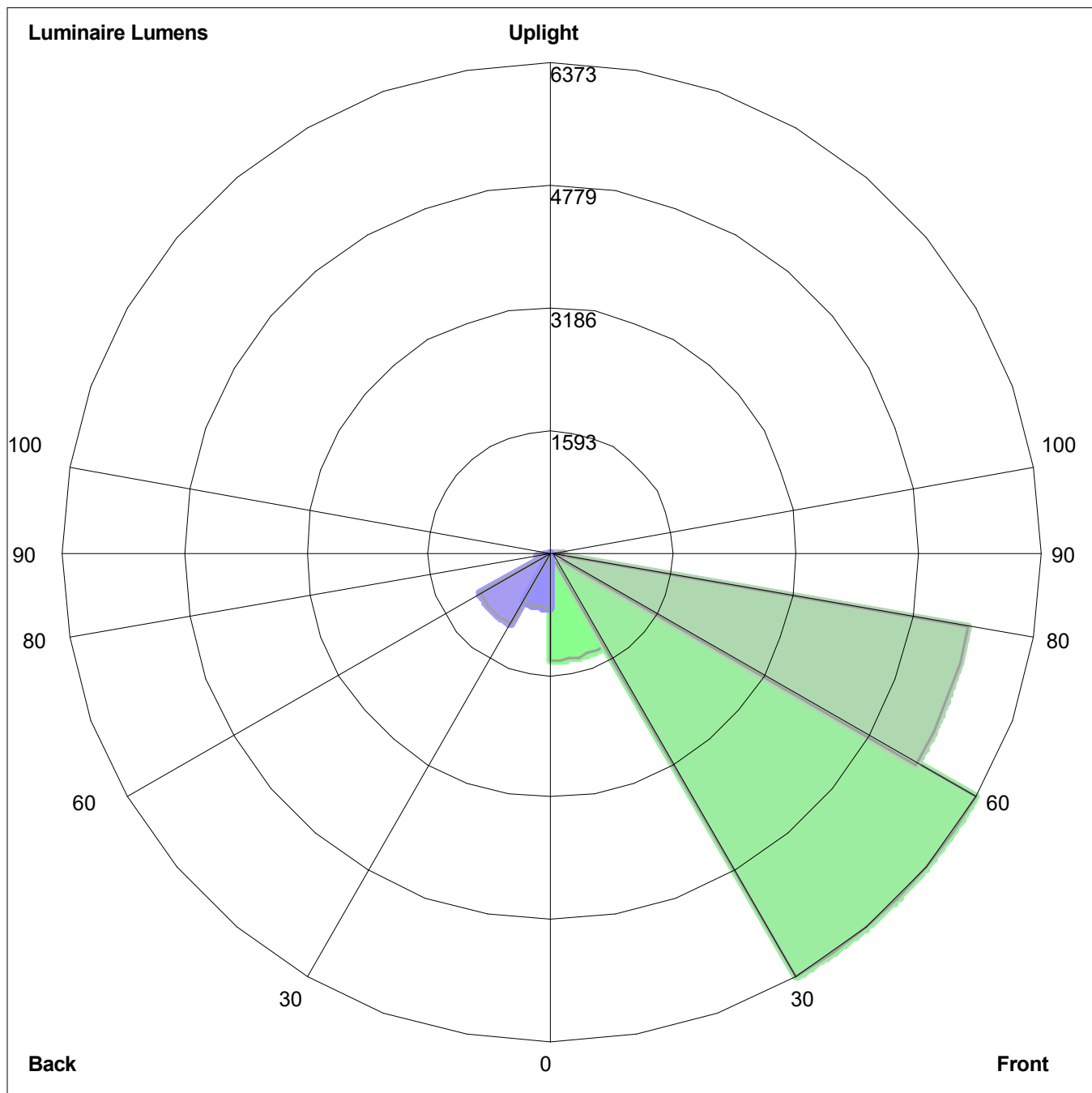


Maximum Candela = 11997 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1402.5, Medium=6372.6, High=5496.5, Very High=172.4
Back: Low=718.1, Medium=1060.9, High=192.0, Very High=3.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3