



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-18L-30.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-30

[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	18541
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	149.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15189
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	15189
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	985 (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)	1336.8	N.A.	7.2
FM - Front-Medium (30-60)	7089.6	N.A.	38.2
FH - Front-High (60-80)	3625.8	N.A.	19.6
FVH - Front-Very High (80-90)	93.2	N.A.	0.5
BL - Back-Low (0-30)	1228.2	N.A.	6.6
BM - Back-Medium (30-60)	3864.4	N.A.	20.8
BH - Back-High (60-80)	1197.4	N.A.	6.5
BVH - Back-Very High (80-90)	105.4	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	18540.8	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	2471	2471	2471	2471	2471	2471	2471	2471	2471	2471
2.5	2526	2529	2524	2522	2523	2514	2504	2496	2484	2481
5.0	2604	2608	2604	2597	2596	2585	2571	2548	2528	2519
7.5	2673	2683	2676	2679	2675	2661	2646	2619	2584	2575
10.0	2740	2748	2745	2753	2753	2745	2736	2711	2658	2651
12.5	2790	2796	2804	2823	2839	2852	2847	2813	2766	2750
15.0	2818	2825	2847	2879	2922	2958	2977	2948	2893	2872
17.5	2847	2852	2885	2935	3008	3072	3109	3112	3053	3031
20.0	2882	2893	2936	3000	3095	3194	3265	3282	3244	3217
22.5	2949	2955	3012	3086	3196	3320	3431	3490	3463	3440
25.0	3029	3050	3106	3188	3309	3452	3613	3713	3715	3692
27.5	3157	3176	3235	3322	3444	3601	3790	3948	4006	3981
30.0	3343	3366	3415	3497	3618	3787	3992	4230	4321	4309
32.5	3591	3614	3663	3730	3852	4006	4214	4503	4656	4651
35.0	3951	3955	3989	4042	4150	4271	4456	4794	5014	5015
37.5	4358	4353	4393	4439	4527	4618	4779	5082	5418	5435
40.0	4800	4806	4849	4917	5001	5052	5148	5399	5852	5877
42.5	5227	5249	5337	5418	5539	5630	5584	5714	6290	6378
45.0	5535	5574	5706	5899	6102	6257	6167	6079	6722	6855
47.5	5687	5713	5886	6180	6601	6905	6949	6592	7286	7485
50.0	5519	5560	5772	6164	6816	7579	7858	7315	8036	8303
52.5	5053	5095	5310	5802	6663	7970	8886	8299	9029	9364
55.0	4242	4278	4495	5046	6055	7933	10003	9589	10383	10703
57.5	3191	3173	3411	3915	4974	7300	10778	11087	11749	12130
60.0	2214	2146	2344	2719	3566	5961	11048	12381	13324	13723
62.5	1450	1458	1552	1793	2308	4200	10358	12978	14509	14696
65.0	1050	1054	1087	1256	1540	2476	8455	12626	15068	15189
67.5	785	794	824	940	1157	1564	5839	10975	13905	13616
70.0	598	613	630	722	908	1129	3519	8124	10536	9723
72.5	424	442	437	540	713	900	1974	5166	5973	5131
75.0	253	266	250	336	507	734	1142	3027	2628	2156
77.5	189	210	175	205	300	538	746	1665	1307	1043
80.0	190	213	159	150	198	365	451	985	757	623
82.5	216	225	142	111	138	260	245	575	467	408
85.0	202	216	113	77	85	156	150	192	228	198
87.5	141	130	72	38	36	63	59	54	55	48
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	2471	2471	2471	2471	2471	2471	2471	2471	2471	2471
2.5	2481	2479	2470	2450	2459	2456	2448	2440	2444	2435
5.0	2510	2501	2484	2455	2445	2429	2412	2403	2402	2396
7.5	2557	2537	2520	2468	2442	2422	2398	2393	2390	2389
10.0	2616	2587	2563	2490	2445	2419	2407	2408	2421	2440
12.5	2700	2654	2618	2521	2456	2436	2438	2468	2506	2546
15.0	2808	2748	2694	2568	2478	2466	2500	2565	2637	2702
17.5	2946	2866	2792	2621	2517	2520	2586	2704	2809	2891
20.0	3120	3022	2909	2685	2569	2594	2701	2865	3023	3112
22.5	3319	3195	3051	2765	2637	2687	2847	3046	3234	3340
25.0	3551	3398	3221	2862	2722	2805	3014	3239	3439	3570
27.5	3828	3639	3419	2981	2811	2940	3176	3420	3631	3766

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CANDELA TABULATION - (Cont.)

30.0	4130	3916	3639	3121	2923	3081	3338	3576	3796	3923
32.5	4467	4211	3877	3262	3066	3224	3463	3697	3905	4012
35.0	4829	4537	4132	3392	3186	3342	3553	3764	3919	4012
37.5	5235	4893	4405	3532	3298	3416	3581	3741	3852	3902
40.0	5705	5283	4709	3668	3400	3444	3548	3638	3692	3687
42.5	6195	5695	4992	3792	3469	3422	3445	3479	3451	3381
45.0	6710	6146	5296	3903	3500	3356	3295	3254	3139	3053
47.5	7384	6643	5605	4012	3493	3250	3111	2997	2833	2734
50.0	8210	7258	5922	4086	3453	3099	2903	2744	2529	2424
52.5	9189	7923	6240	4135	3367	2902	2672	2500	2249	2131
55.0	10327	8585	6467	4108	3218	2654	2435	2261	1969	1827
57.5	11439	9123	6521	3961	2984	2370	2171	2000	1665	1571
60.0	12225	9277	6239	3638	2636	2018	1884	1701	1412	1332
62.5	12454	8837	5454	3082	2225	1677	1550	1445	1182	1108
65.0	11741	7603	4301	2433	1791	1365	1277	1201	982	903
67.5	9389	5493	2953	1764	1420	1086	1041	971	806	790
70.0	5935	3234	1826	1224	1119	868	865	783	714	708
72.5	2614	1680	1154	883	883	713	716	678	610	577
75.0	1076	901	800	676	699	597	612	552	421	340
77.5	647	599	576	545	557	511	471	328	250	244
80.0	457	393	363	442	449	378	260	220	267	256
82.5	299	215	199	350	340	207	178	196	370	357
85.0	154	107	103	235	143	134	144	202	390	368
87.5	43	26	32	47	47	53	63	93	186	187
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

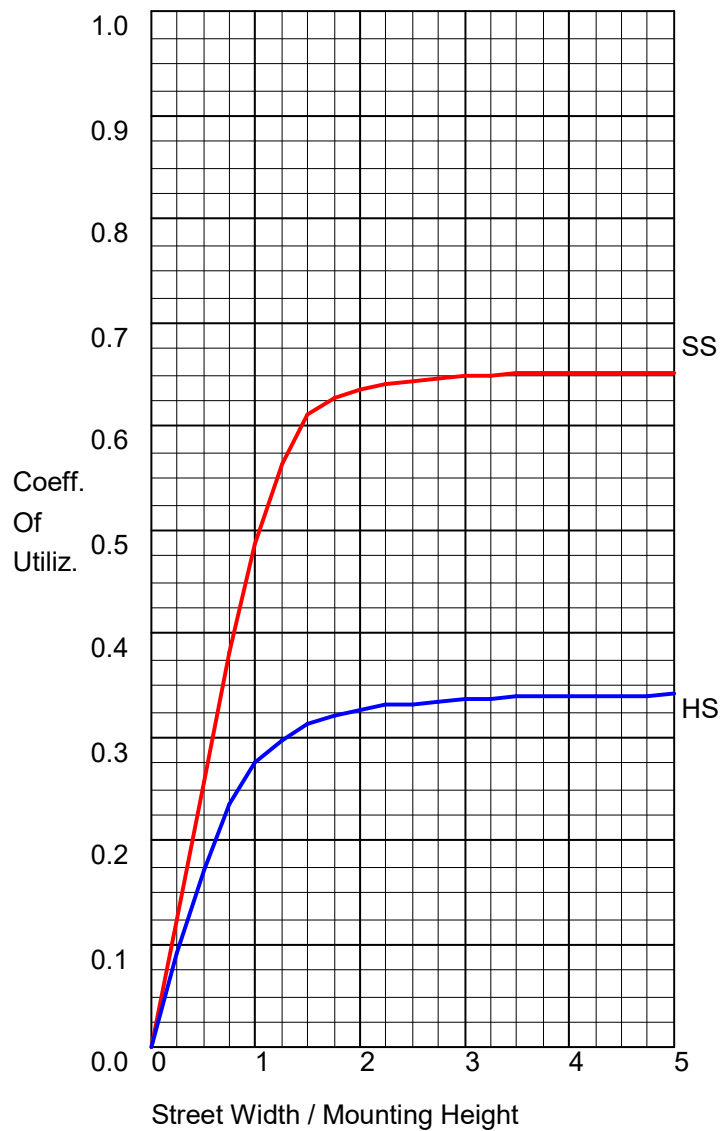
	<u>175.0</u>	<u>180.0</u>
0.0	2471	2471
2.5	2443	2430
5.0	2396	2388
7.5	2392	2387
10.0	2447	2445
12.5	2561	2563
15.0	2732	2738
17.5	2936	2952
20.0	3165	3184
22.5	3396	3419
25.0	3618	3643
27.5	3822	3841
30.0	3993	4005
32.5	4068	4087
35.0	4037	4049
37.5	3888	3902
40.0	3641	3647
42.5	3323	3327
45.0	2989	2992
47.5	2666	2665
50.0	2349	2349
52.5	2047	2051
55.0	1753	1748
57.5	1500	1471
60.0	1260	1239
62.5	1044	1039
65.0	890	895

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CANDELA TABULATION - (Cont.)

67.5	824	832
70.0	758	775
72.5	624	668
75.0	371	432
77.5	283	322
80.0	288	312
82.5	378	384
85.0	379	378
87.5	100	172
90.0	0	0

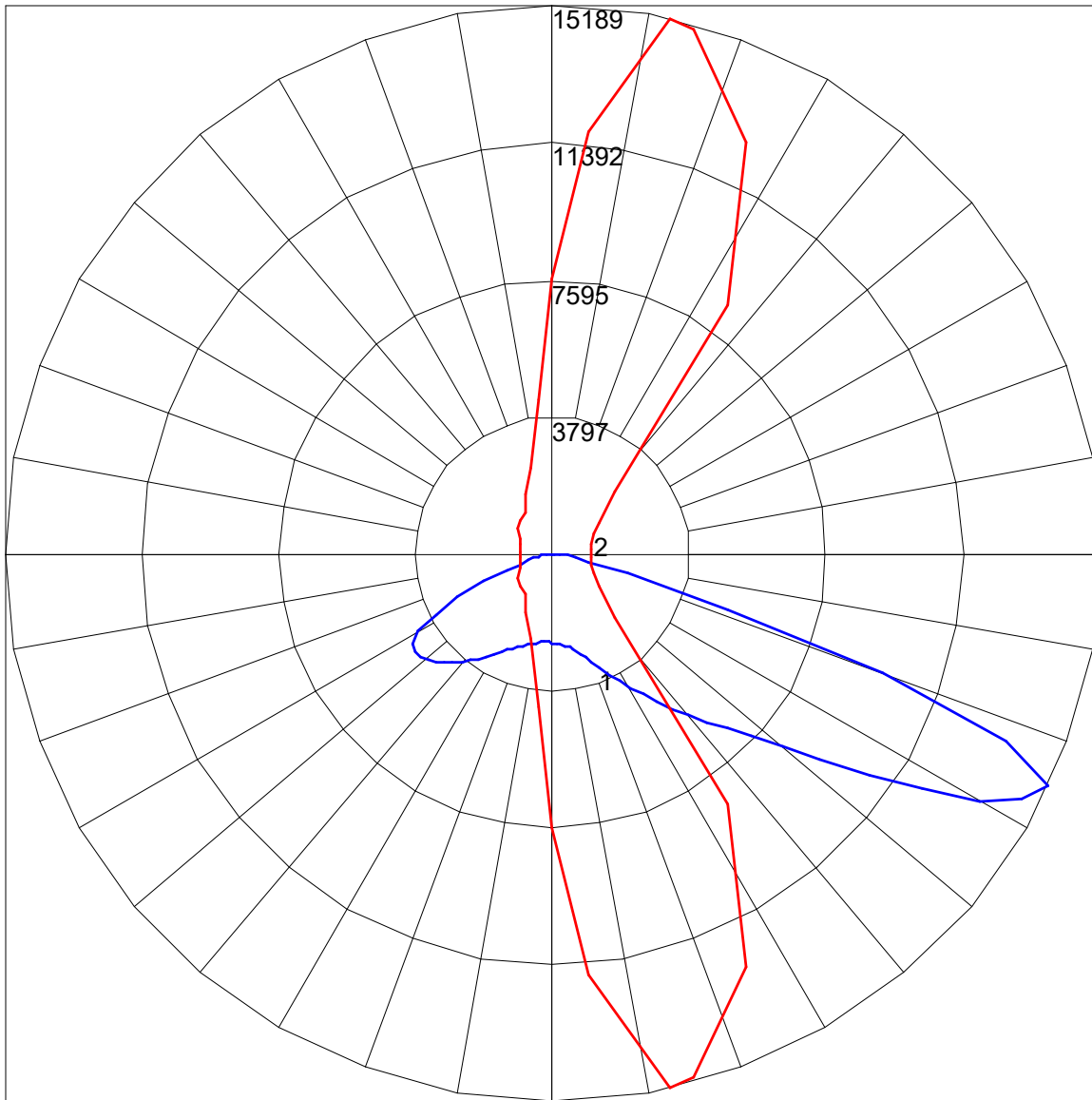
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

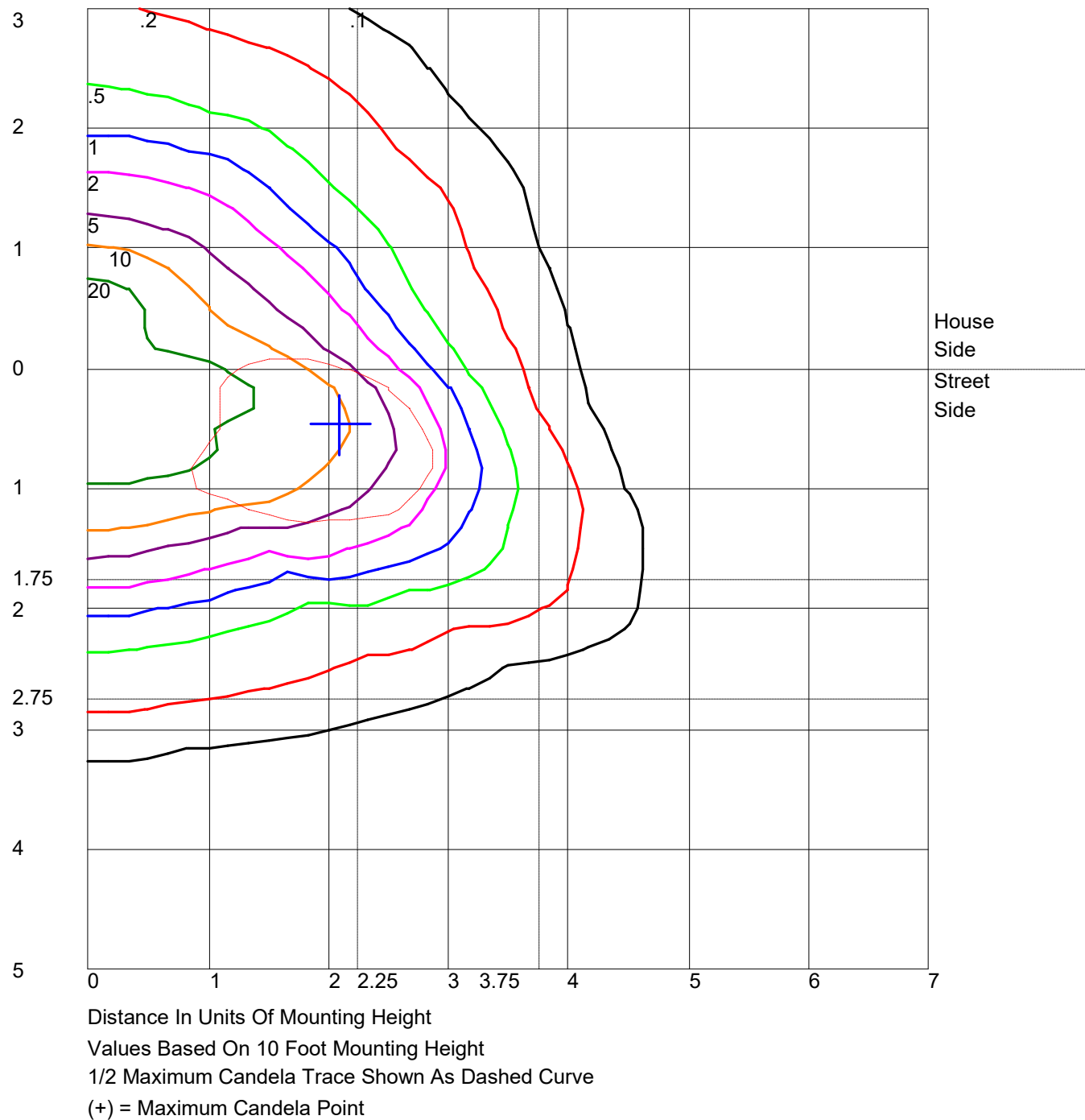
	Lumens	Percent Of Luminaire
Downward Street Side	12145.5	65.5
Downward House Side	6395.5	34.5
Downward Total	18541.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18541.0	100.0

POLAR GRAPH

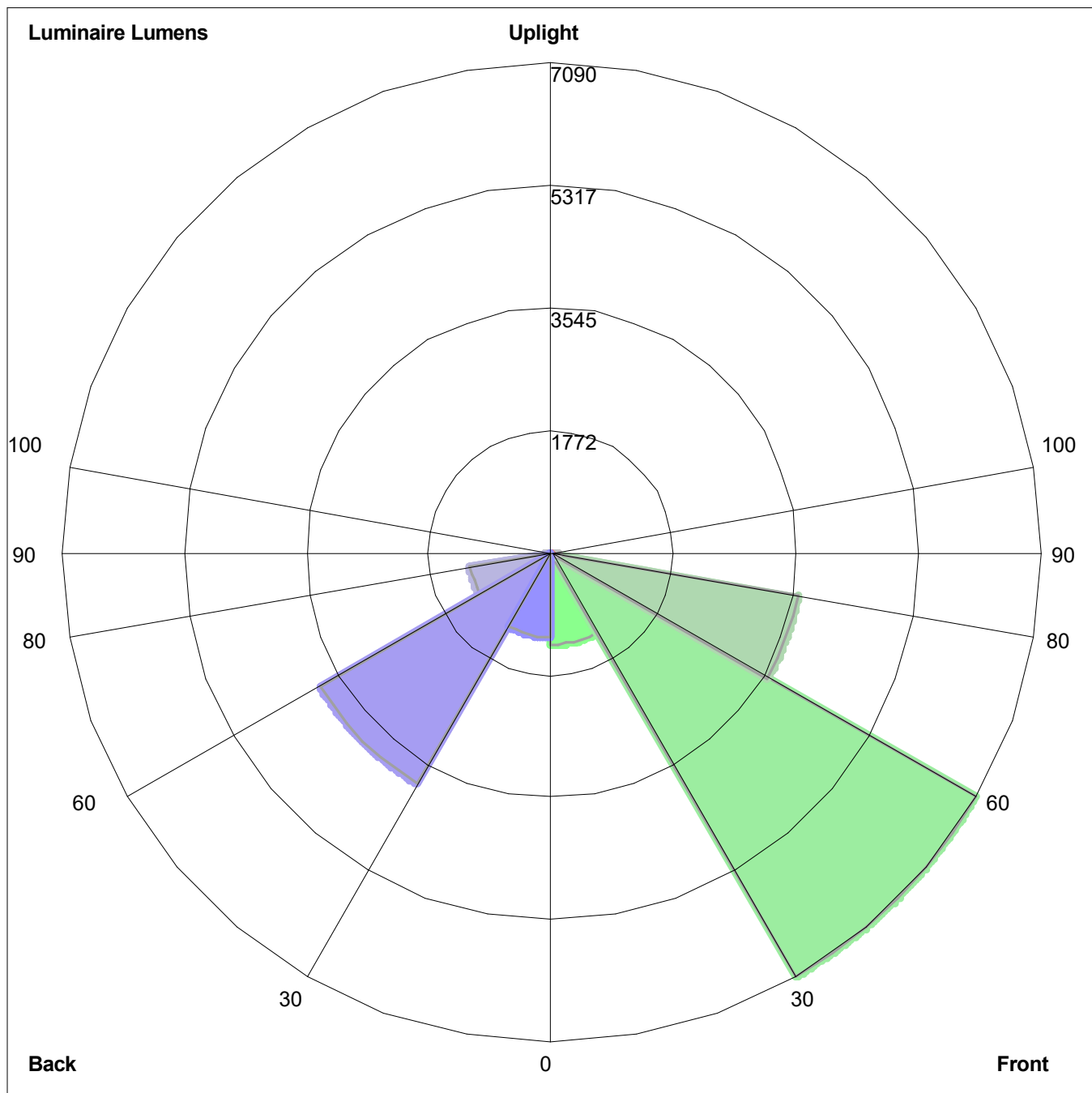


Maximum Candela = 15189 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1336.8, Medium=7089.6, High=3625.8, Very High=93.2
Back: Low=1228.2, Medium=3864.4, High=1197.4, Very High=105.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3