



IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-2-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8430
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/09/17
[TEST DATE]01/09/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]HLN-2-LED-18L-40
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17913
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	154.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15515
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	15515
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	731 (4.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1275.9	N.A.	7.1
FM - Front-Medium (30-60)	6391.8	N.A.	35.7
FH - Front-High (60-80)	3609.3	N.A.	20.1
FVH - Front-Very High (80-90)	57.2	N.A.	0.3
BL - Back-Low (0-30)	994.2	N.A.	5.6
BM - Back-Medium (30-60)	3883.9	N.A.	21.7
BH - Back-High (60-80)	1629.6	N.A.	9.1
BVH - Back-Very High (80-90)	70.8	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	17912.7	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>82.5</u>
0.0	2610	2610	2610	2610	2610	2610	2610	2610	2610	2610
2.5	2654	2643	2662	2657	2659	2652	2638	2631	2628	2628
5.0	2702	2694	2711	2708	2712	2708	2696	2690	2677	2671
7.5	2727	2717	2739	2746	2761	2768	2762	2762	2749	2739
10.0	2719	2710	2741	2764	2800	2829	2842	2858	2847	2831
12.5	2662	2658	2705	2748	2813	2878	2924	2960	2958	2938
15.0	2598	2592	2650	2713	2803	2902	2997	3075	3092	3071
17.5	2546	2542	2606	2688	2798	2918	3059	3199	3249	3230
20.0	2527	2525	2596	2686	2808	2940	3111	3320	3424	3409
22.5	2549	2547	2616	2713	2842	2983	3158	3428	3606	3603
25.0	2607	2607	2678	2775	2906	3049	3221	3528	3796	3817
27.5	2717	2717	2781	2877	3003	3145	3306	3614	3985	4047
30.0	2872	2870	2936	3014	3131	3270	3421	3702	4174	4294
32.5	3066	3065	3128	3189	3283	3428	3567	3805	4370	4574
35.0	3334	3336	3390	3415	3471	3613	3748	3934	4554	4867
37.5	3707	3735	3758	3737	3724	3841	3981	4098	4735	5185
40.0	4298	4283	4291	4198	4088	4141	4258	4287	4918	5532
42.5	4985	4978	4980	4863	4634	4543	4600	4525	5103	5918
45.0	5639	5683	5742	5636	5374	5144	5105	4816	5287	6330
47.5	6011	6069	6221	6339	6250	5978	5807	5204	5509	6795
50.0	5867	5938	6185	6525	6830	6995	6839	5738	5775	7349
52.5	5366	5435	5737	6174	6801	7665	8157	6516	6113	7995
55.0	4619	4687	4999	5466	6250	7667	9542	7727	6573	8817
57.5	3614	3669	3864	4374	5260	6996	10434	9507	7194	9821
60.0	2421	2446	2510	2901	3748	5654	10584	11809	8023	11216
62.5	1559	1536	1550	1664	2149	3549	9771	13484	9139	12909
65.0	946	955	1002	1018	1173	1820	7437	13683	10396	14526
67.5	577	590	624	668	751	981	3616	12388	11494	15515
70.0	255	267	304	410	525	649	1578	9502	10987	13874
72.5	165	172	166	220	331	509	855	5548	7889	7971
75.0	127	133	123	157	217	355	580	2501	3911	2665
77.5	103	112	104	123	169	249	365	1157	1643	738
80.0	94	100	83	91	128	191	226	594	731	436
82.5	78	78	62	61	75	136	155	244	357	244
85.0	46	50	42	41	45	80	105	122	178	140
87.5	20	22	21	19	22	33	52	61	79	78
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	2610	2610	2610	2610	2610	2610	2610	2610	2610	2610
2.5	2630	2613	2614	2603	2602	2589	2578	2570	2564	2561
5.0	2669	2645	2638	2607	2578	2542	2502	2469	2442	2422
7.5	2734	2701	2685	2625	2563	2484	2399	2323	2266	2225
10.0	2821	2781	2753	2660	2548	2408	2272	2156	2078	2030
12.5	2927	2877	2836	2698	2523	2318	2131	2000	1931	1900
15.0	3056	2997	2938	2752	2495	2211	1998	1890	1862	1870
17.5	3212	3142	3065	2820	2469	2107	1898	1848	1875	1920
20.0	3388	3305	3211	2895	2431	2005	1850	1869	1936	2010
22.5	3587	3487	3384	2974	2378	1929	1861	1933	2026	2112
25.0	3801	3707	3572	3061	2316	1906	1915	2017	2140	2242
27.5	4033	3943	3780	3140	2256	1935	1995	2124	2279	2409

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CANDELA TABULATION - (Cont.)

30.0	4303	4192	4006	3213	2216	2005	2102	2279	2474	2640
32.5	4581	4466	4259	3273	2231	2108	2244	2488	2745	2969
35.0	4891	4777	4531	3326	2298	2247	2454	2771	3087	3337
37.5	5233	5121	4828	3382	2422	2425	2706	3091	3428	3669
40.0	5610	5505	5152	3447	2594	2660	2979	3380	3707	3922
42.5	6019	5920	5494	3526	2821	2892	3211	3582	3858	4002
45.0	6474	6382	5865	3630	3035	3089	3357	3645	3802	3810
47.5	6983	6901	6254	3766	3219	3202	3356	3493	3491	3408
50.0	7626	7489	6690	3927	3349	3178	3172	3132	3035	2937
52.5	8335	8186	7123	4097	3393	3027	2866	2725	2535	2430
55.0	9269	9025	7574	4276	3389	2814	2521	2307	2087	1998
57.5	10360	9957	8073	4450	3382	2599	2182	1976	1781	1769
60.0	11743	11027	8513	4604	3376	2400	1917	1786	1604	1605
62.5	13289	12097	8772	4614	3314	2193	1731	1665	1409	1347
65.0	14672	12727	8487	4323	3049	1940	1546	1447	1108	1036
67.5	15343	12017	7143	3507	2509	1555	1256	1157	822	698
70.0	12920	9184	4576	2367	1760	1096	906	833	534	449
72.5	6892	4797	2289	1302	1073	730	654	518	343	306
75.0	2020	1331	1055	697	625	516	430	338	244	218
77.5	606	514	529	451	423	374	281	244	187	174
80.0	366	303	307	342	335	242	199	182	188	164
82.5	226	175	176	285	210	156	140	141	302	321
85.0	137	107	109	184	107	97	101	106	213	86
87.5	78	59	67	66	55	47	31	32	139	29
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

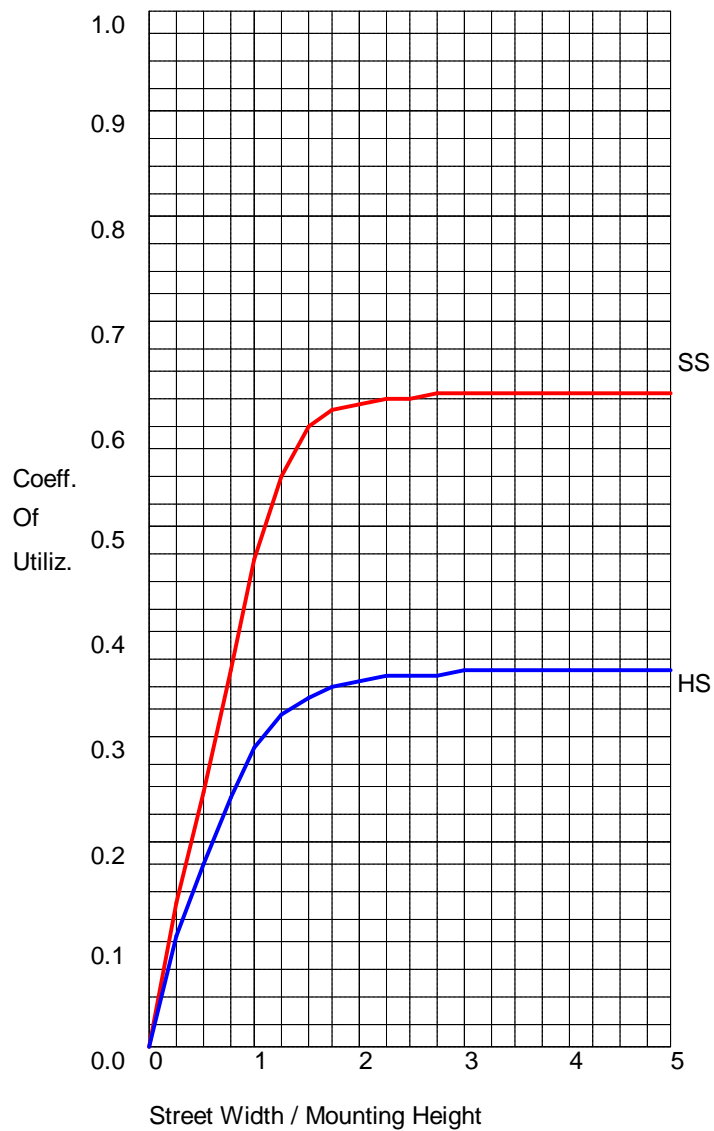
	<u>175.0</u>	<u>180.0</u>
0.0	2610	2610
2.5	2559	2559
5.0	2416	2414
7.5	2197	2207
10.0	2000	2005
12.5	1886	1881
15.0	1875	1877
17.5	1944	1948
20.0	2044	2048
22.5	2157	2164
25.0	2298	2307
27.5	2482	2491
30.0	2733	2745
32.5	3066	3080
35.0	3434	3449
37.5	3765	3764
40.0	3983	3983
42.5	4012	4013
45.0	3772	3739
47.5	3329	3318
50.0	2848	2838
52.5	2332	2319
55.0	1937	1931
57.5	1750	1743
60.0	1562	1550
62.5	1273	1271
65.0	956	948

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CANDELA TABULATION - (Cont.)

67.5	639	618
70.0	419	406
72.5	307	312
75.0	231	248
77.5	181	197
80.0	189	193
82.5	341	344
85.0	56	54
87.5	18	17
90.0	0	0

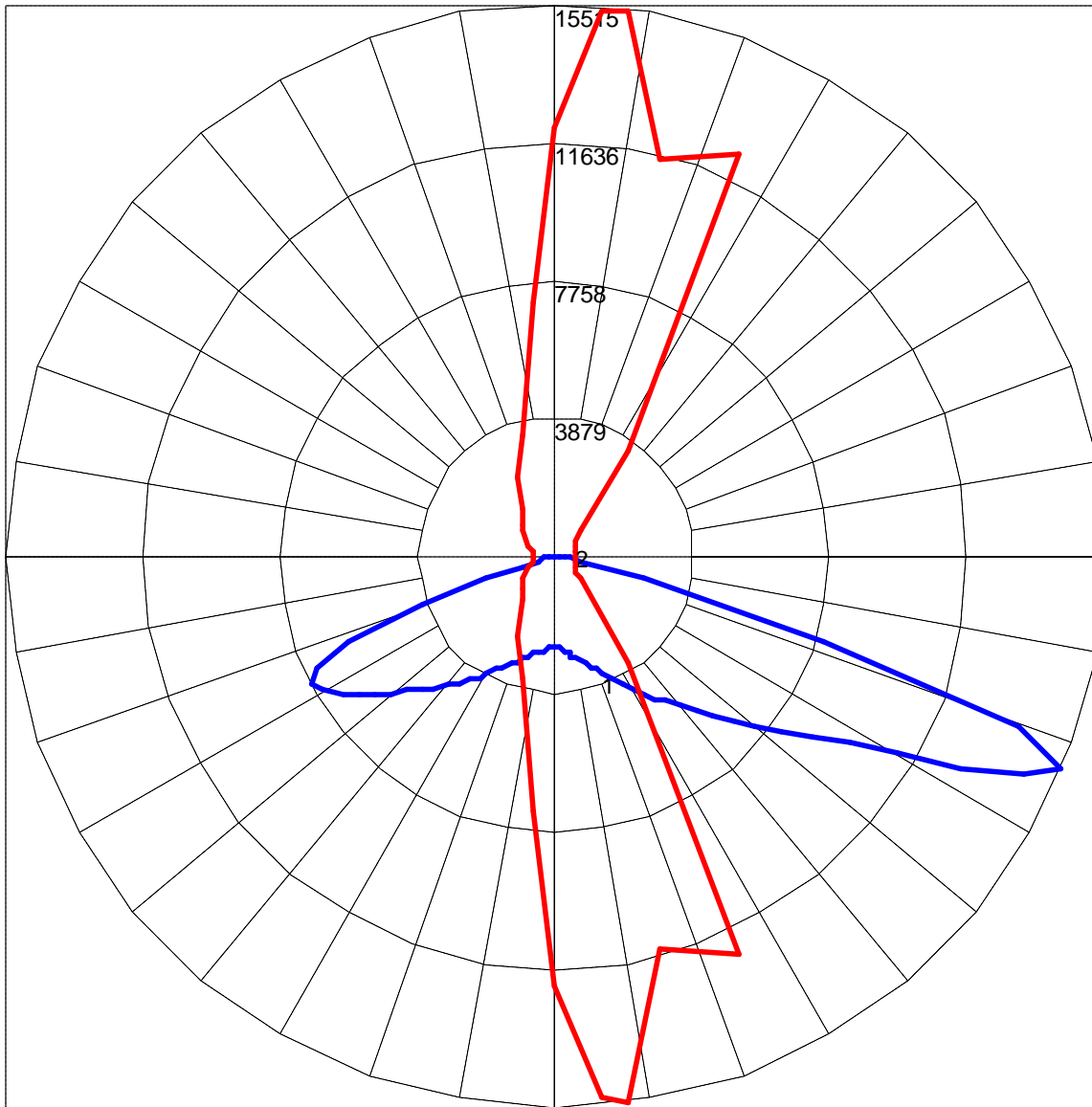
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

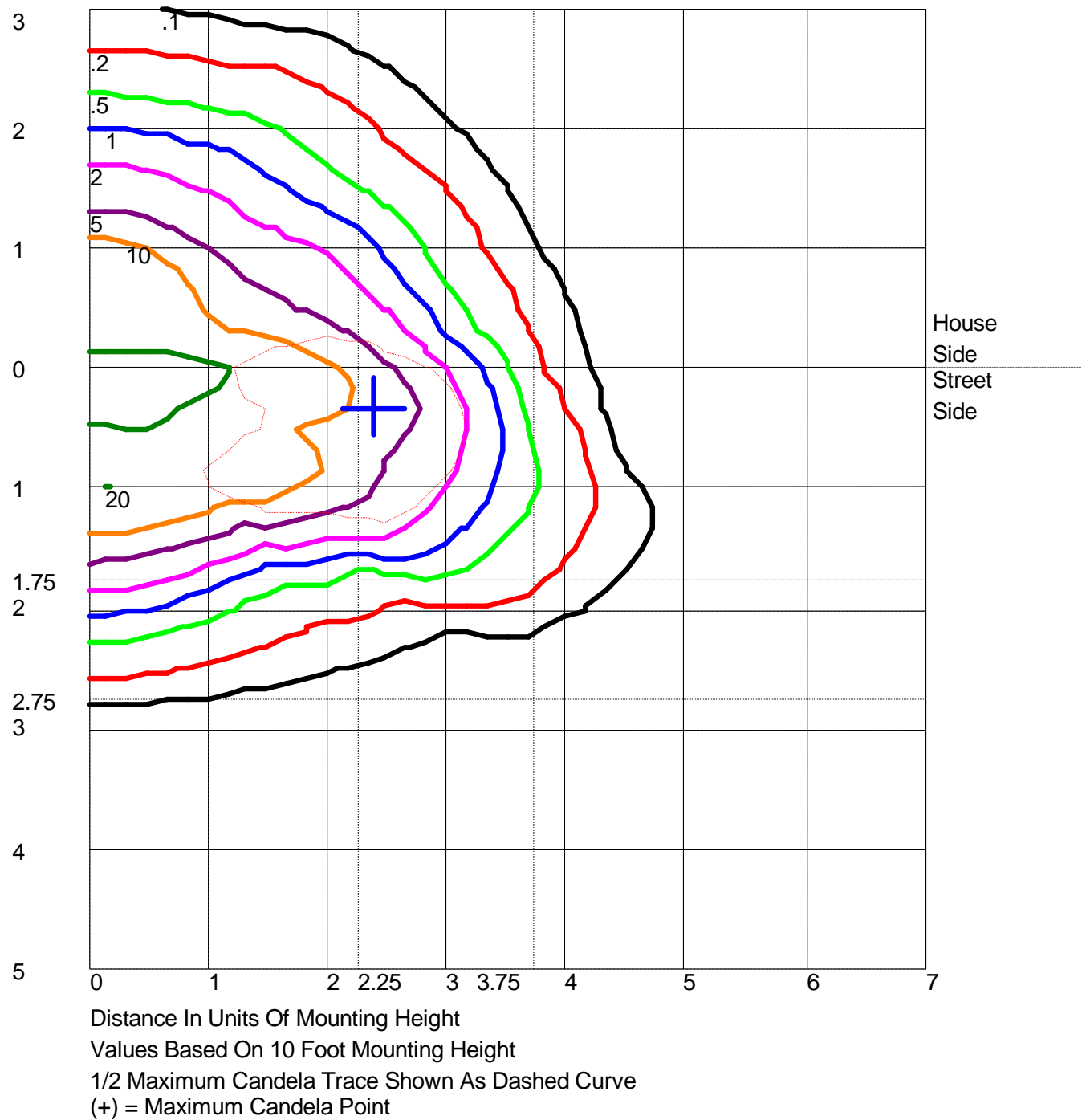
	Lumens	Percent Of Luminaire
Downward Street Side	11334.2	63.3
Downward House Side	6578.5	36.7
Downward Total	17912.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17912.7	100.0

POLAR GRAPH

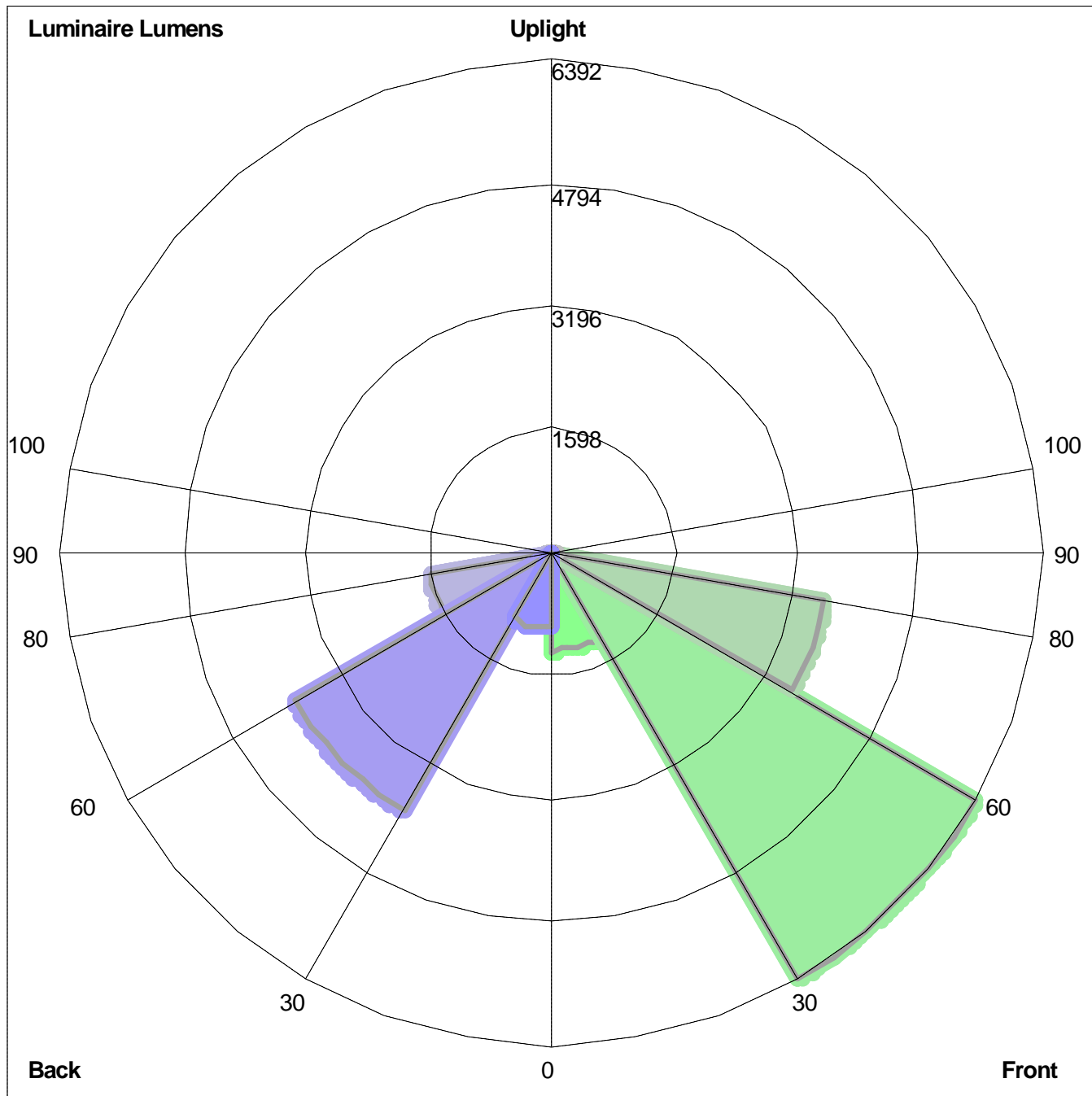


Maximum Candela = 15515 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1275.9, Medium=6391.8, High=3609.3, Very High=57.2
Back: Low=994.2, Medium=3883.9, High=1629.6, Very High=70.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3