



IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-27L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8432_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/10/17
[TEST DATE]01/09/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]HLN-5W-LED-27L-30
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER]SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23786
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	238
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12045.101
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	12045.101
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1379.493 (5.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1112.8	N.A.	4.7
FM - Front-Medium (30-60)	4865.2	N.A.	20.5
FH - Front-High (60-80)	5801.1	N.A.	24.4
FVH - Front-Very High (80-90)	114.0	N.A.	0.5
BL - Back-Low (0-30)	1112.8	N.A.	4.7
BM - Back-Medium (30-60)	4865.2	N.A.	20.5
BH - Back-High (60-80)	5801.1	N.A.	24.4
BVH - Back-Very High (80-90)	114.0	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23786.2	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2261.680	2261.680	2261.680	2261.680	2261.680	2261.680	2261.680	2261.680	2261.680	2261.680
2.5	2272.261	2266.971	2265.648	2269.616	2269.616	2268.293	2265.648	2266.971	2264.325	2259.035
5.0	2281.520	2276.229	2277.552	2278.874	2277.552	2276.229	2274.906	2274.906	2270.939	2268.293
7.5	2296.068	2289.455	2293.423	2294.746	2294.746	2292.101	2289.455	2289.455	2282.842	2281.520
10.0	2323.843	2317.230	2321.198	2321.198	2319.876	2317.230	2314.585	2313.262	2311.940	2307.972
12.5	2371.458	2364.845	2366.167	2367.490	2364.845	2359.554	2354.264	2347.651	2348.973	2346.328
15.0	2424.363	2421.717	2423.040	2425.685	2427.008	2423.040	2417.749	2415.104	2404.523	2400.555
17.5	2489.171	2490.494	2493.139	2499.752	2506.365	2511.655	2505.042	2494.461	2477.267	2471.977
20.0	2572.496	2573.819	2579.109	2592.335	2606.884	2618.788	2610.852	2591.013	2564.560	2552.657
22.5	2662.434	2665.079	2684.919	2706.081	2731.210	2747.082	2733.856	2702.113	2663.757	2643.917
25.0	2751.050	2756.340	2789.406	2831.729	2881.989	2896.538	2871.408	2825.116	2770.889	2743.114
27.5	2842.310	2852.891	2900.506	2969.282	3039.381	3063.188	3026.155	2954.733	2883.312	2844.956
30.0	2940.184	2952.088	3016.896	3116.093	3203.386	3237.774	3186.192	3086.995	2995.734	2944.152
32.5	3044.671	3060.543	3142.545	3262.904	3371.358	3415.005	3346.229	3221.902	3110.802	3048.639
35.0	3159.739	3178.256	3272.162	3421.618	3543.299	3589.591	3506.266	3364.745	3239.096	3172.965
37.5	3286.711	3309.195	3415.005	3576.365	3719.208	3773.435	3670.271	3516.847	3381.939	3307.873
40.0	3433.522	3461.297	3573.719	3740.369	3893.793	3953.311	3846.179	3682.174	3538.009	3450.716
42.5	3614.721	3630.592	3737.724	3913.633	4074.992	4138.478	4033.991	3862.050	3700.691	3601.494
45.0	3794.597	3809.146	3916.278	4093.509	4258.837	4326.290	4227.094	4047.217	3869.986	3756.241
47.5	3989.022	4012.829	4109.380	4285.289	4450.616	4532.619	4428.132	4237.675	4037.959	3921.568
50.0	4205.932	4231.061	4317.032	4490.295	4659.590	4756.142	4635.783	4438.713	4236.352	4098.799
52.5	4437.390	4467.810	4559.071	4720.431	4893.694	4992.891	4860.629	4649.009	4451.939	4322.322
55.0	4715.140	4742.915	4830.208	4984.955	5166.154	5269.318	5113.249	4909.566	4729.689	4588.169
57.5	5040.505	5069.603	5162.186	5322.223	5506.067	5606.586	5434.646	5238.898	5036.537	4881.791
60.0	5400.258	5430.678	5544.423	5748.107	5963.694	6095.956	5864.497	5625.103	5429.355	5234.930
62.5	5793.076	5852.594	6015.276	6269.219	6561.518	6734.781	6457.031	6155.474	5937.241	5695.202
65.0	6696.425	6699.070	6874.979	7114.373	7505.869	7695.003	7368.316	7029.725	6806.203	6504.645
67.5	6983.434	7081.308	7595.807	8351.023	9279.502	9603.544	9140.627	8430.380	7847.105	7442.383
70.0	6021.889	6097.278	6889.528	8274.311	10628.575	12045.101	110944.681	18870.813	7427.834	6601.197
72.5	3896.439	3921.568	4902.952	6525.807	9257.018	11529.279	9660.417	6841.913	5320.900	4627.847
75.0	1166.551	1177.132	1706.180	3436.167	6294.349	8684.323	6728.168	3756.241	2081.804	1474.721
77.5	396.786	394.141	521.112	972.126	2232.583	4205.932	2741.791	1239.295	706.279	536.984
80.0	212.942	205.006	238.072	383.560	784.314	1379.493	1009.159	551.533	365.043	320.074
82.5	144.166	137.552	150.779	210.297	354.462	550.210	421.916	289.654	219.555	222.200
85.0	96.551	95.229	100.519	132.262	199.716	273.782	223.523	177.231	141.520	153.424
87.5	59.518	60.841	66.131	83.325	116.391	144.166	124.326	104.487	85.970	87.293
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles** **Horizontal Angles**

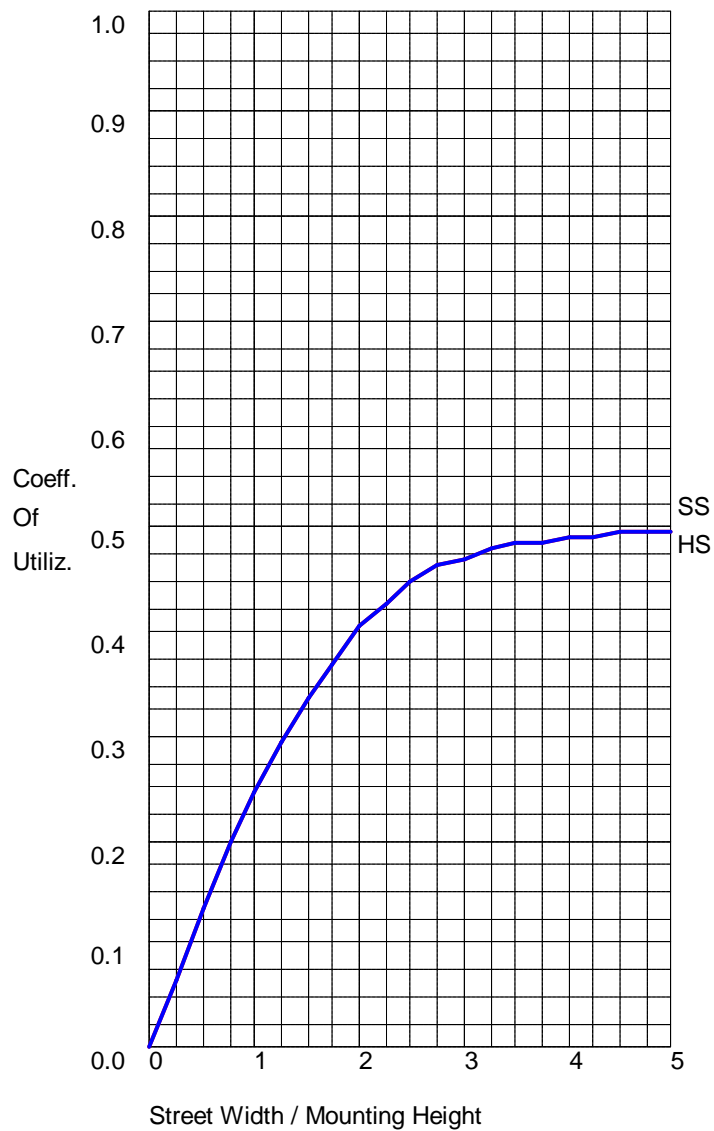
	<u>90</u>
0.0	2261.680
2.5	2263.003
5.0	2272.261
7.5	2286.810
10.0	2313.262
12.5	2350.296
15.0	2404.523
17.5	2474.622
20.0	2556.625
22.5	2646.563
25.0	2741.791
27.5	2854.214

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CANDELA TABULATION - (Cont.)

30.0	2953.411
32.5	3059.220
35.0	3176.933
37.5	3309.195
40.0	3448.070
42.5	3594.881
45.0	3748.305
47.5	3909.665
50.0	4084.251
52.5	4289.257
55.0	4560.394
57.5	4856.661
60.0	5196.574
62.5	5659.491
65.0	6466.289
67.5	7389.478
70.0	6505.968
72.5	4622.557
75.0	1341.137
77.5	527.725
80.0	321.397
82.5	224.845
85.0	148.133
87.5	84.648
90.0	0.000

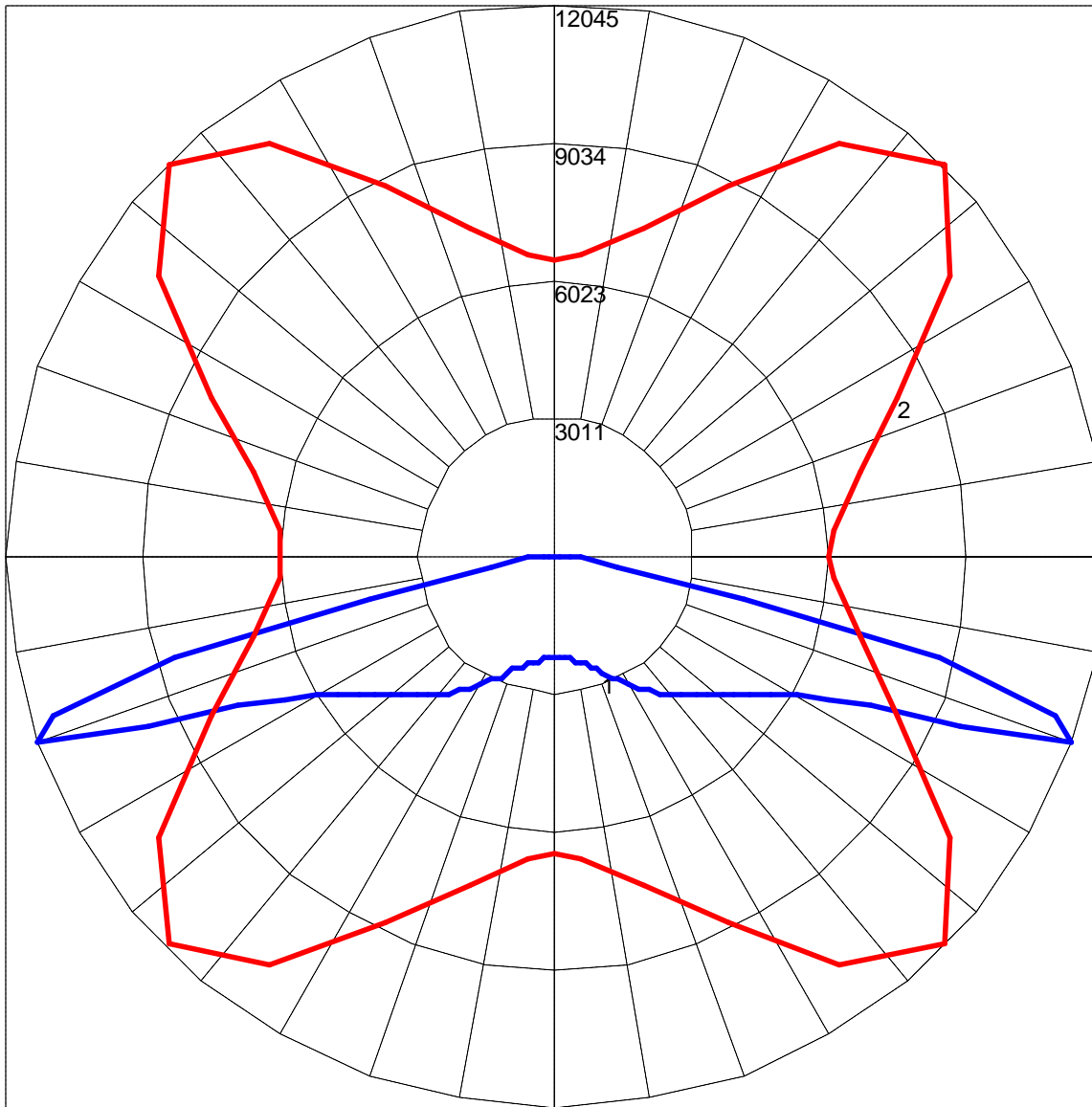
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

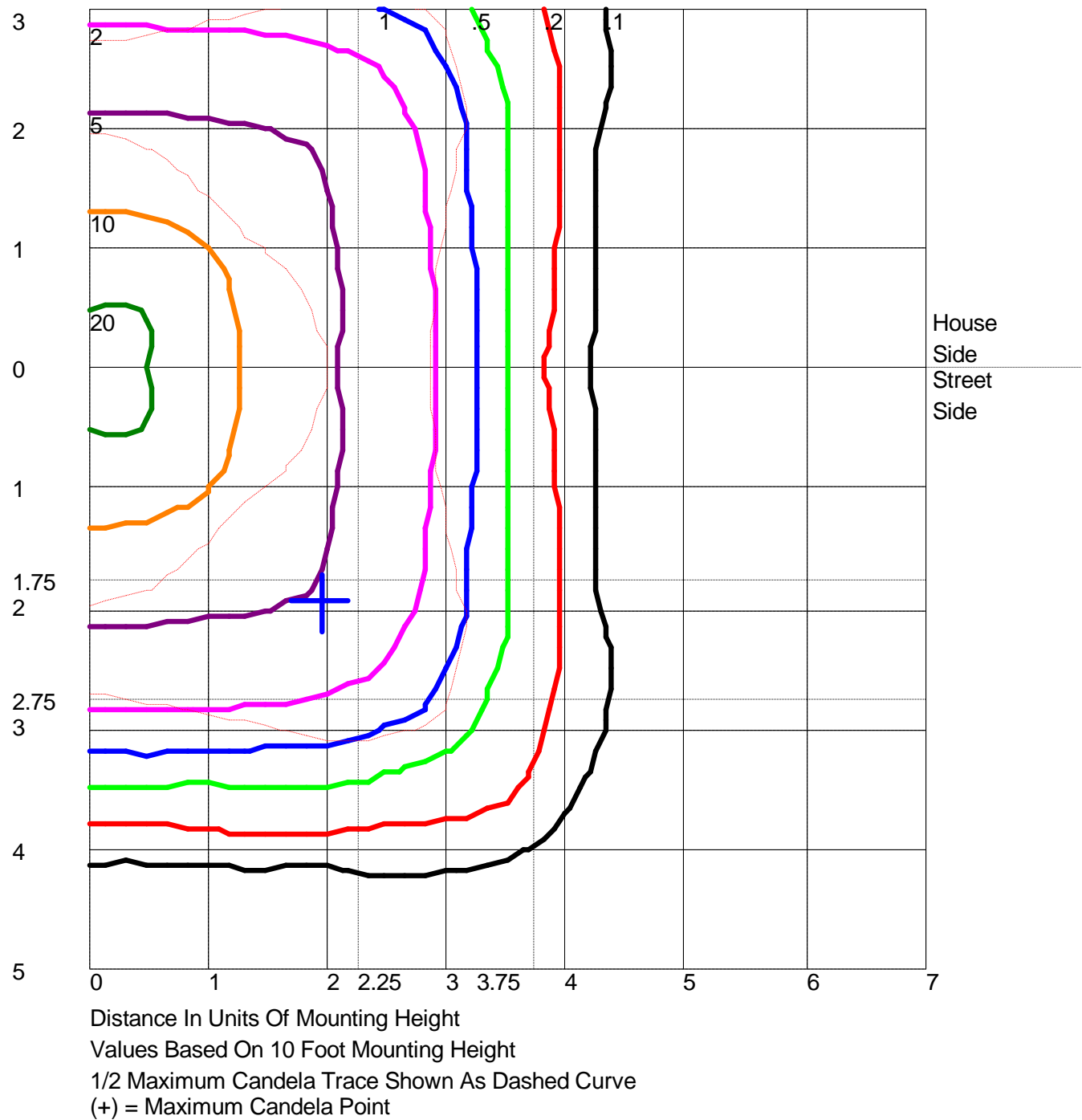
	Lumens	Percent Of Luminaire
Downward Street Side	11893.0	50.0
Downward House Side	11893.0	50.0
Downward Total	23786.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23786.0	100.0

POLAR GRAPH

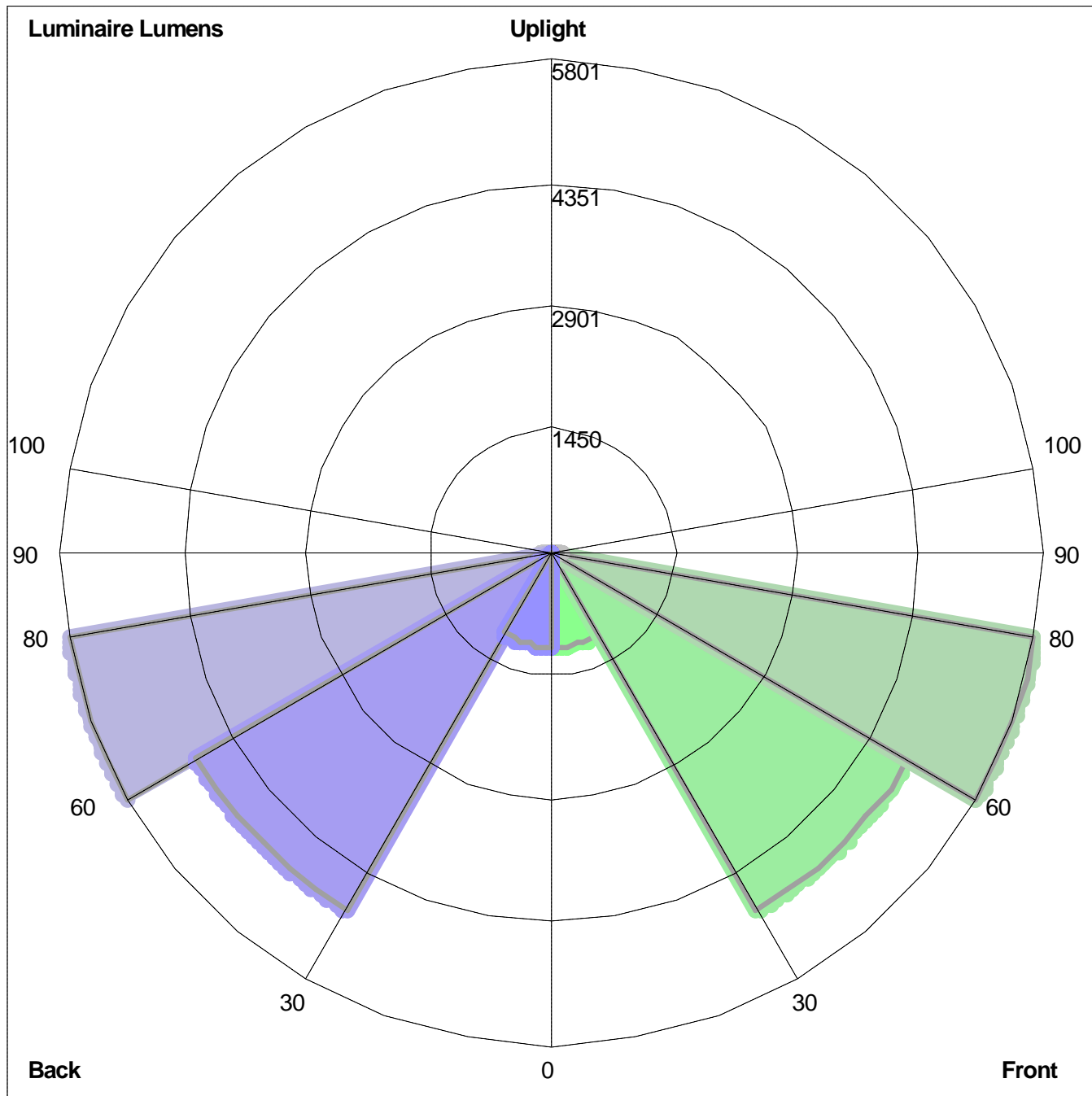


Maximum Candela = 12045.101 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1112.8, Medium=4865.2, High=5801.1, Very High=114.0
Back: Low=1112.8, Medium=4865.2, High=5801.1, Very High=114.0
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3