



IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-32L-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-32L-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	29494
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	310
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14935.571
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	14935.571
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	1710.53 (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)	1379.8	N.A.	4.7
FM - Front-Medium (30-60)	6032.7	N.A.	20.5
FH - Front-High (60-80)	7193.2	N.A.	24.4
FVH - Front-Very High (80-90)	141.4	N.A.	0.5
BL - Back-Low (0-30)	1379.8	N.A.	4.7
BM - Back-Medium (30-60)	6032.7	N.A.	20.5
BH - Back-High (60-80)	7193.2	N.A.	24.4
BVH - Back-Very High (80-90)	141.4	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	29494.2	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	2804.417	2804.417	2804.417	2804.417	2804.417	2804.417	2804.417	2804.417	2804.417	2804.417
2.5	2817.537	2810.977	2809.337	2814.257	2814.257	2812.617	2809.337	2810.977	2807.697	2801.137
5.0	2829.017	2822.457	2824.097	2825.737	2824.097	2822.457	2820.817	2820.817	2815.897	2812.617
7.5	2847.057	2838.857	2843.777	2845.417	2845.417	2842.137	2838.857	2838.857	2830.657	2829.017
10.0	2881.498	2873.298	2878.218	2878.218	2876.578	2873.298	2870.017	2868.377	2866.737	2861.817
12.5	2940.538	2932.338	2933.978	2935.618	2932.338	2925.778	2919.218	2911.018	2912.658	2909.378
15.0	3006.138	3002.858	3004.498	3007.778	3009.418	3004.498	2997.938	2994.658	2981.538	2976.618
17.5	3086.499	3088.139	3091.419	3099.619	3107.819	3114.379	3106.179	3093.059	3071.739	3065.179
20.0	3189.819	3191.459	3198.019	3214.420	3232.460	3247.220	3237.380	3212.780	3179.979	3165.219
22.5	3301.340	3304.620	3329.220	3355.460	3386.621	3406.301	3389.901	3350.540	3302.980	3278.380
25.0	3411.221	3417.781	3458.781	3511.261	3573.582	3591.622	3560.462	3503.061	3435.821	3401.381
27.5	3524.381	3537.502	3596.542	3681.822	3768.743	3798.263	3752.343	3663.782	3575.222	3527.662
30.0	3645.742	3660.502	3740.863	3863.864	3972.104	4014.744	3950.784	3827.783	3714.623	3650.662
32.5	3775.303	3794.983	3896.664	4045.905	4180.385	4234.506	4149.225	3995.064	3857.304	3780.223
35.0	3917.984	3940.944	4057.385	4242.706	4393.587	4450.987	4347.667	4172.185	4016.384	3934.384
37.5	4075.425	4103.305	4234.506	4434.587	4611.708	4678.949	4551.028	4360.787	4193.506	4101.665
40.0	4257.466	4291.906	4431.307	4637.948	4828.189	4901.990	4769.149	4565.788	4387.027	4278.786
42.5	4482.147	4501.827	4634.668	4852.790	5052.871	5131.591	5002.030	4788.829	4588.748	4465.747
45.0	4705.189	4723.229	4856.070	5075.831	5280.832	5364.473	5241.472	5018.431	4798.669	4657.628
47.5	4946.270	4975.790	5095.511	5313.632	5518.634	5620.314	5490.753	5254.592	5006.951	4862.630
50.0	5215.232	5246.392	5352.993	5567.834	5777.755	5897.476	5748.235	5503.874	5252.952	5082.391
52.5	5502.234	5539.954	5653.114	5853.196	6068.037	6191.038	6027.037	5764.635	5520.274	5359.553
55.0	5846.636	5881.076	5989.317	6181.198	6405.879	6533.800	6340.279	6087.717	5864.676	5689.195
57.5	6250.078	6286.158	6400.959	6599.400	6827.362	6952.002	6738.801	6496.080	6245.158	6053.277
60.0	6696.161	6733.881	6874.922	7127.483	7394.805	7558.806	7271.804	6974.963	6732.241	6491.160
62.5	7183.244	7257.044	7458.765	7773.647	8136.090	8350.931	8006.529	7632.607	7362.005	7061.883
65.0	8303.371	8306.651	8524.772	8821.614	9307.057	9541.578	9136.496	8716.653	8439.491	8065.569
67.5	8659.253	8780.614	9418.577	10355.023	11506.310	11908.113	11334.109	10453.424	9730.179	9228.336
70.0	7466.966	7560.446	8542.812	10259.903	13179.120	14935.571	113571.083	10999.547	9210.296	8185.290
72.5	4831.469	4862.630	6079.517	8091.809	11478.430	14295.967	11978.633	8483.772	6597.760	5738.395
75.0	1446.489	1459.609	2115.613	4260.746	7804.808	10768.306	8342.731	4657.628	2581.376	1828.611
77.5	492.003	488.723	646.164	1205.407	2768.337	5215.232	3399.741	1536.689	875.765	665.844
80.0	264.042	254.202	295.202	475.603	972.526	1710.530	1251.328	683.884	452.643	396.882
82.5	178.761	170.561	186.961	260.762	439.523	682.244	523.163	359.162	272.242	275.522
85.0	119.721	118.081	124.641	164.001	247.642	339.482	277.162	219.761	175.481	190.241
87.5	73.800	75.440	82.000	103.321	144.321	178.761	154.161	129.561	106.601	108.241
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**

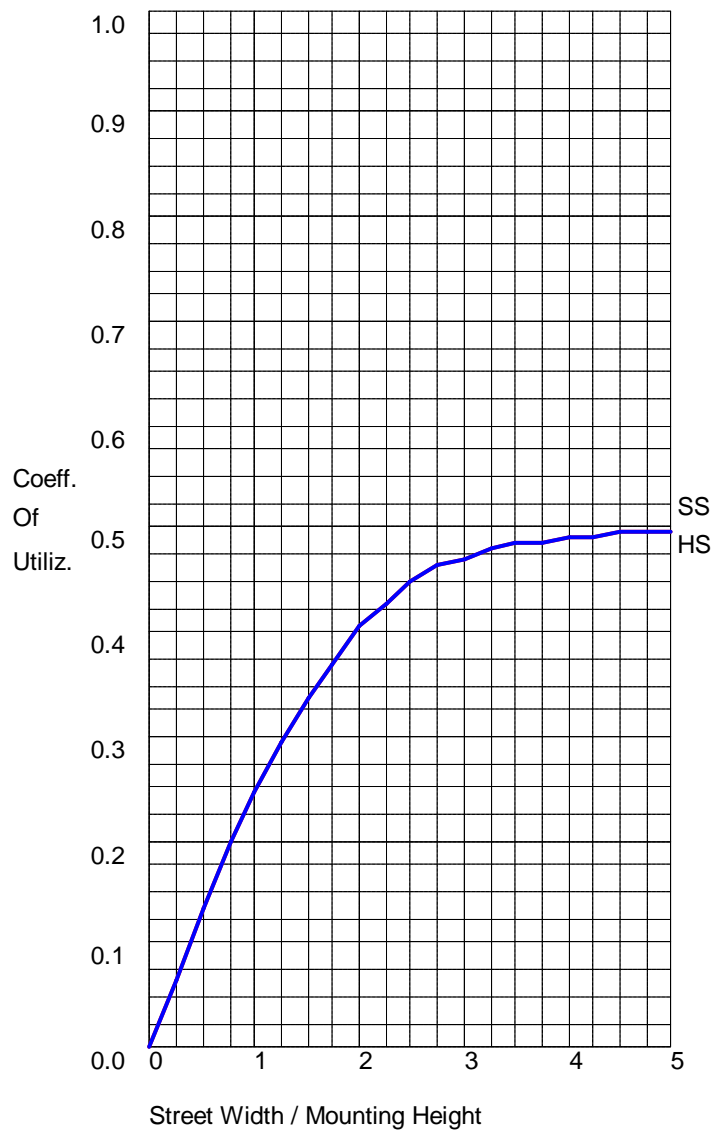
	<u>90</u>
0.0	2804.417
2.5	2806.057
5.0	2817.537
7.5	2835.577
10.0	2868.377
12.5	2914.298
15.0	2981.538
17.5	3068.459
20.0	3170.139
22.5	3281.660
25.0	3399.741
27.5	3539.142

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CANDELA TABULATION - (Cont.)

30.0	3662.142
32.5	3793.343
35.0	3939.304
37.5	4103.305
40.0	4275.506
42.5	4457.547
45.0	4647.788
47.5	4847.870
50.0	5064.351
52.5	5318.552
55.0	5654.754
57.5	6022.117
60.0	6443.599
62.5	7017.603
65.0	8018.009
67.5	9162.736
70.0	8067.209
72.5	5731.835
75.0	1662.970
77.5	654.364
80.0	398.522
82.5	278.802
85.0	183.681
87.5	104.961
90.0	0.000

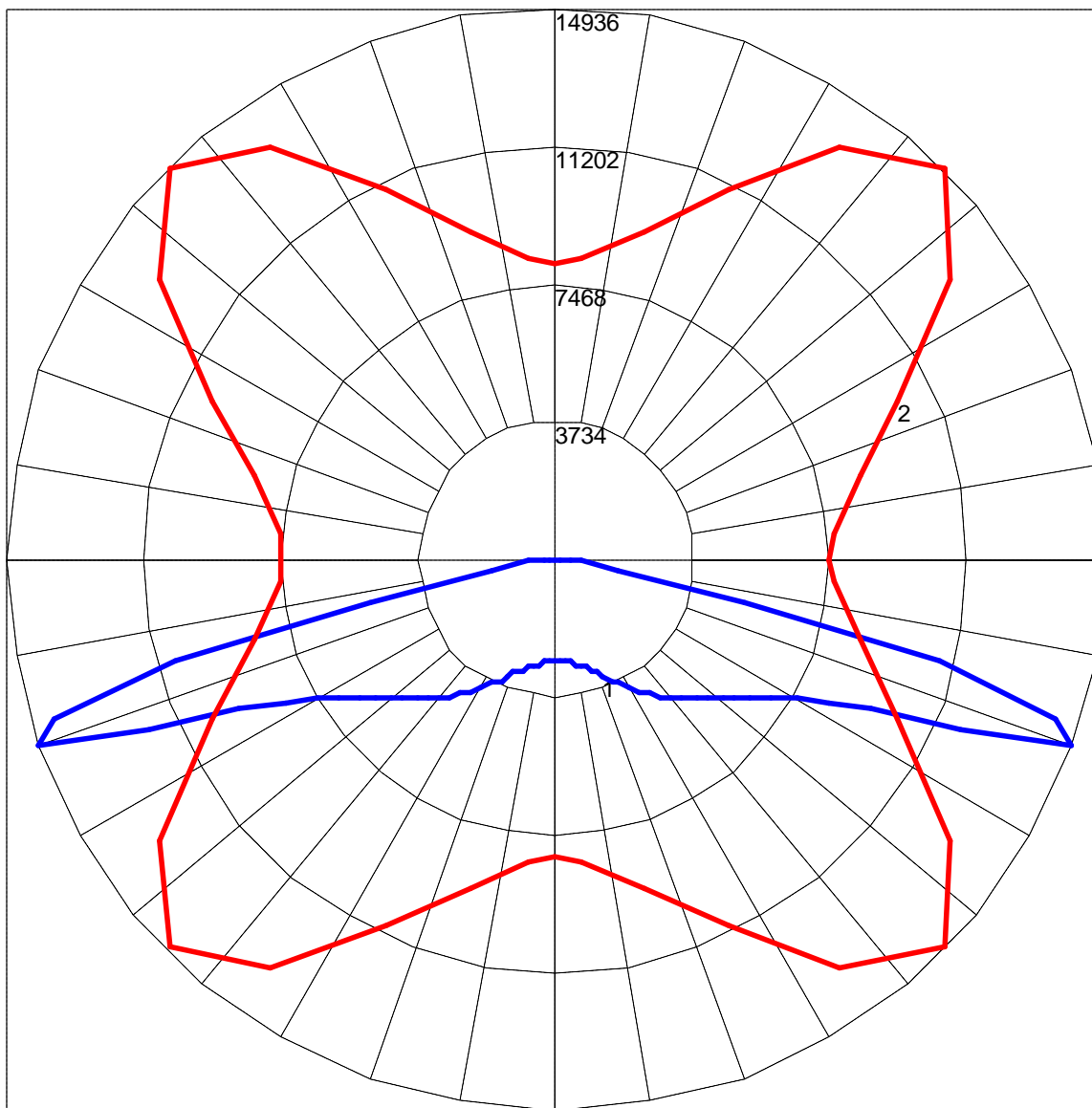
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

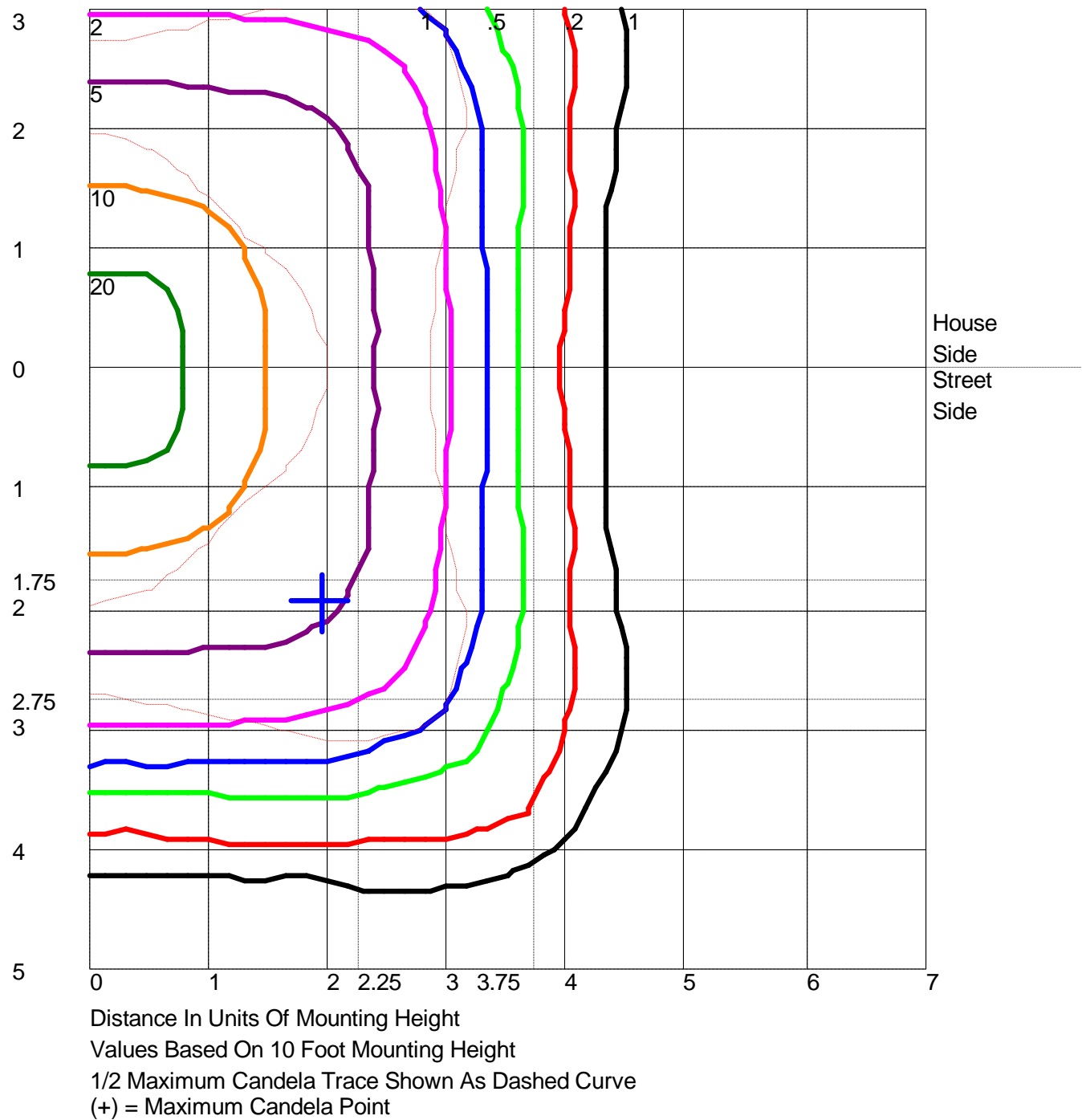
	Lumens	Percent Of Luminaire
Downward Street Side	14747.0	50.0
Downward House Side	14747.0	50.0
Downward Total	29494.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29494.0	100.0

POLAR GRAPH

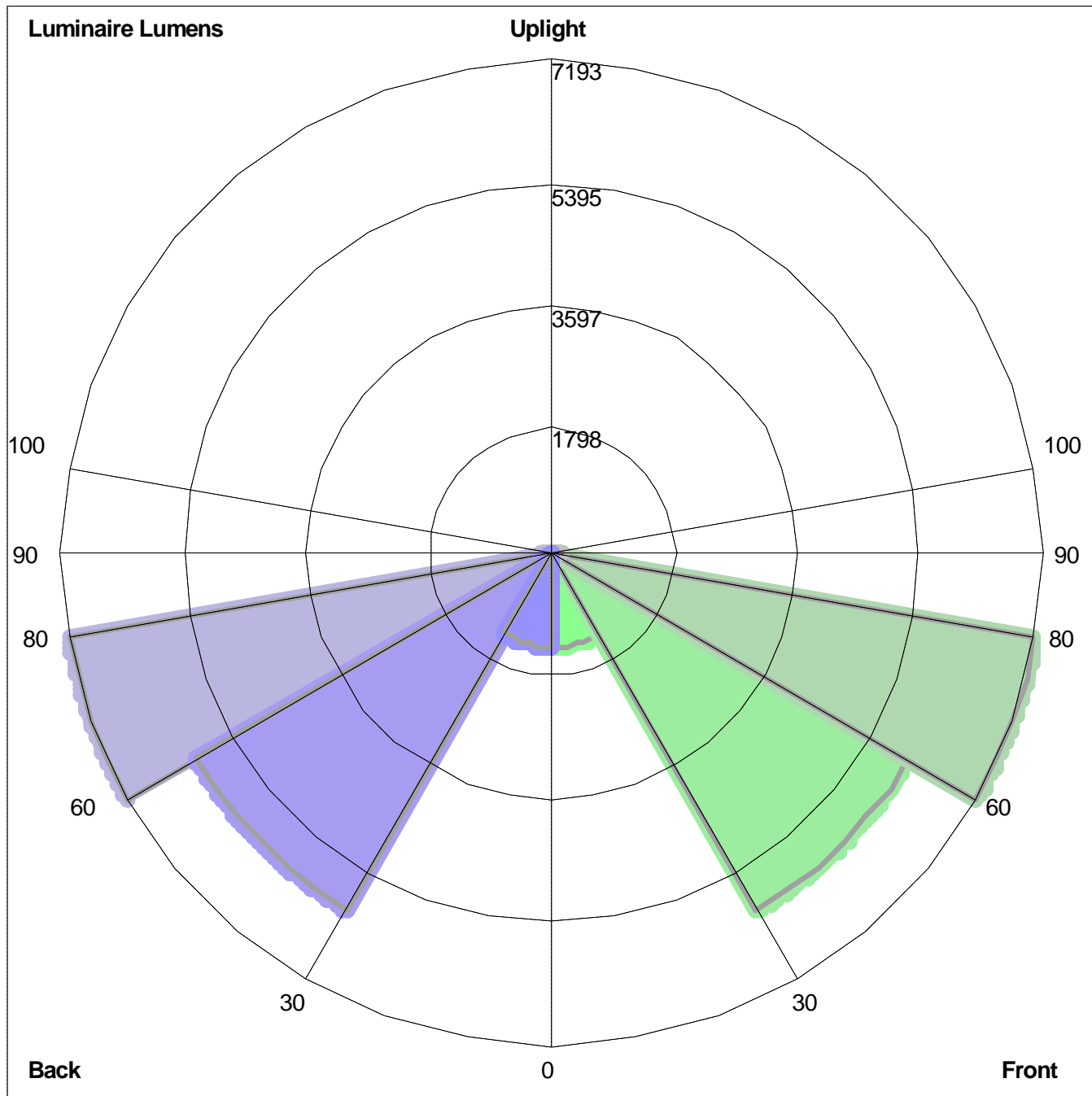


Maximum Candela = 14935.571 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1379.8, Medium=6032.7, High=7193.2, Very High=141.4
Back: Low=1379.8, Medium=6032.7, High=7193.2, Very High=141.4
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3