



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-18L-50.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-18L-50  
[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	18038
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	154.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9134.321
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	9134.321
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	1046.129 (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)	843.9	N.A.	4.7
FM - Front-Medium (30-60)	3689.5	N.A.	20.5
FH - Front-High (60-80)	4399.2	N.A.	24.4
FVH - Front-Very High (80-90)	86.5	N.A.	0.5
BL - Back-Low (0-30)	843.9	N.A.	4.7
BM - Back-Medium (30-60)	3689.5	N.A.	20.5
BH - Back-High (60-80)	4399.2	N.A.	24.4
BVH - Back-Very High (80-90)	86.5	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	18038.2	N.A.	100.0
BUG Rating	B4-U0-G2		

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**CANDELA TABULATION**

**Vert. Horizontal Angles**  
**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	1715.130	1715.130	1715.130	1715.130	1715.130	1715.130	1715.130	1715.130	1715.130	1715.130
2.5	1723.154	1719.142	1718.139	1721.148	1721.148	1720.145	1718.139	1719.142	1717.136	1713.124
5.0	1730.175	1726.163	1727.166	1728.169	1727.166	1726.163	1725.160	1725.160	1722.151	1720.145
7.5	1741.208	1736.193	1739.202	1740.205	1740.205	1738.199	1736.193	1736.193	1731.178	1730.175
10.0	1762.271	1757.256	1760.265	1760.265	1759.262	1757.256	1755.250	1754.247	1753.244	1750.235
12.5	1798.379	1793.364	1794.367	1795.370	1793.364	1789.352	1785.340	1780.325	1781.328	1779.322
15.0	1838.499	1836.493	1837.496	1839.502	1840.505	1837.496	1833.484	1831.478	1823.454	1820.445
17.5	1887.646	1888.649	1890.655	1895.670	1900.685	1904.697	1899.682	1891.658	1878.619	1874.607
20.0	1950.835	1951.838	1955.850	1965.880	1976.913	1985.940	1979.922	1964.877	1944.817	1935.790
22.5	2019.039	2021.045	2036.090	2052.138	2071.195	2083.231	2073.201	2049.129	2020.042	2004.997
25.0	2086.240	2090.252	2115.327	2147.423	2185.537	2196.570	2177.513	2142.408	2101.285	2080.222
27.5	2155.447	2163.471	2199.579	2251.735	2304.894	2322.948	2294.864	2240.702	2186.540	2157.453
30.0	2229.669	2238.696	2287.843	2363.068	2429.266	2455.344	2416.227	2341.002	2271.795	2232.678
32.5	2308.906	2320.942	2383.128	2474.401	2556.647	2589.746	2537.590	2443.308	2359.056	2311.915
35.0	2396.167	2410.209	2481.422	2594.761	2687.037	2722.142	2658.953	2551.632	2456.347	2406.197
37.5	2492.455	2509.506	2589.746	2712.112	2820.436	2861.559	2783.325	2666.977	2564.671	2508.503
40.0	2603.788	2624.851	2710.106	2836.484	2952.832	2997.967	2916.724	2792.352	2683.025	2616.827
42.5	2741.199	2753.235	2834.478	2967.877	3090.243	3138.387	3059.150	2928.760	2806.394	2731.169
45.0	2877.607	2888.640	2969.883	3104.285	3229.660	3280.813	3205.588	3069.180	2934.778	2848.520
47.5	3025.048	3043.102	3116.321	3249.720	3375.095	3437.281	3358.044	3213.612	3062.159	2973.895
50.0	3189.540	3208.597	3273.792	3405.185	3533.569	3606.788	3515.515	3366.068	3212.609	3108.297
52.5	3365.065	3388.134	3457.341	3579.707	3711.100	3786.325	3686.025	3525.545	3376.098	3277.804
55.0	3575.695	3596.758	3662.956	3780.307	3917.718	3995.952	3877.598	3723.136	3586.728	3479.407
57.5	3822.433	3844.499	3914.709	4036.072	4175.489	4251.717	4121.327	3972.883	3819.424	3702.073
60.0	4095.249	4118.318	4204.576	4359.038	4522.527	4622.827	4447.302	4265.759	4117.315	3969.874
62.5	4393.140	4438.275	4561.644	4754.220	4975.883	5107.276	4896.646	4667.962	4502.467	4318.918
65.0	5078.189	5080.195	5213.594	5395.137	5692.025	5835.454	5587.713	5330.945	5161.438	4932.754
67.5	5295.840	5370.062	5760.229	6332.942	7037.048	7282.783	6931.733	6393.122	5950.799	5643.881
70.0	4566.659	4623.830	5224.627	6274.768	8060.108	9134.321	8299.825	6727.121	5632.848	5005.973
72.5	2954.838	2973.895	3718.121	4948.802	7019.997	8743.151	7325.912	5188.519	4035.069	3509.497
75.0	884.646	892.670	1293.870	2605.794	4773.277	6585.698	5102.261	2848.520	1578.722	1118.345
77.5	300.900	298.894	395.182	737.205	1693.064	3189.540	2079.219	939.811	535.602	407.218
80.0	161.483	155.465	180.540	290.870	594.779	1046.129	765.289	418.251	276.828	242.726
82.5	109.327	104.312	114.342	159.477	268.804	417.248	319.957	219.657	166.498	168.504
85.0	73.219	72.216	76.228	100.300	151.453	207.621	169.507	134.402	107.321	116.348
87.5	45.135	46.138	50.150	63.189	88.264	109.327	94.282	79.237	65.195	66.198
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

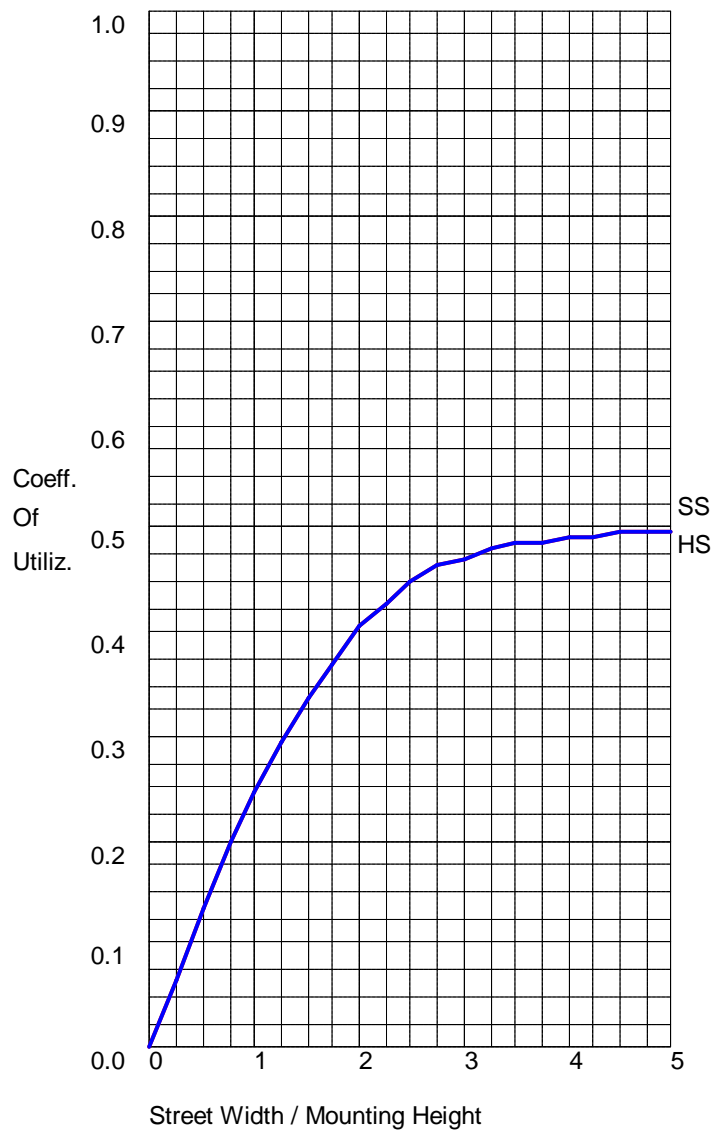
	<u>90</u>
0.0	1715.130
2.5	1716.133
5.0	1723.154
7.5	1734.187
10.0	1754.247
12.5	1782.331
15.0	1823.454
17.5	1876.613
20.0	1938.799
22.5	2007.003
25.0	2079.219
27.5	2164.474

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2239.699
<b>32.5</b>	2319.939
<b>35.0</b>	2409.206
<b>37.5</b>	2509.506
<b>40.0</b>	2614.821
<b>42.5</b>	2726.154
<b>45.0</b>	2842.502
<b>47.5</b>	2964.868
<b>50.0</b>	3097.264
<b>52.5</b>	3252.729
<b>55.0</b>	3458.344
<b>57.5</b>	3683.016
<b>60.0</b>	3940.787
<b>62.5</b>	4291.837
<b>65.0</b>	4903.667
<b>67.5</b>	5603.761
<b>70.0</b>	4933.757
<b>72.5</b>	3505.485
<b>75.0</b>	1017.042
<b>77.5</b>	400.197
<b>80.0</b>	243.729
<b>82.5</b>	170.510
<b>85.0</b>	112.336
<b>87.5</b>	64.192
<b>90.0</b>	0.000

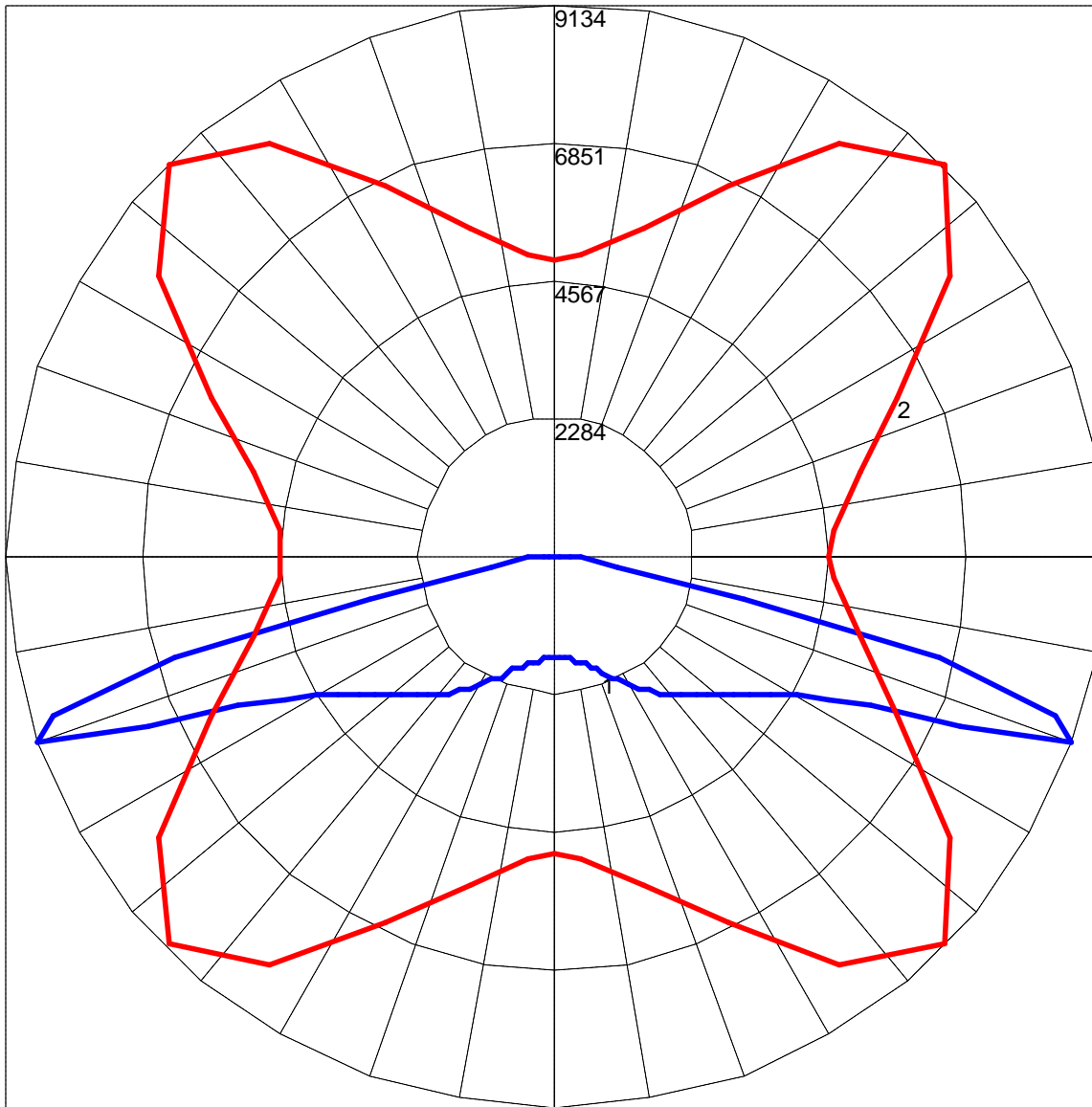
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

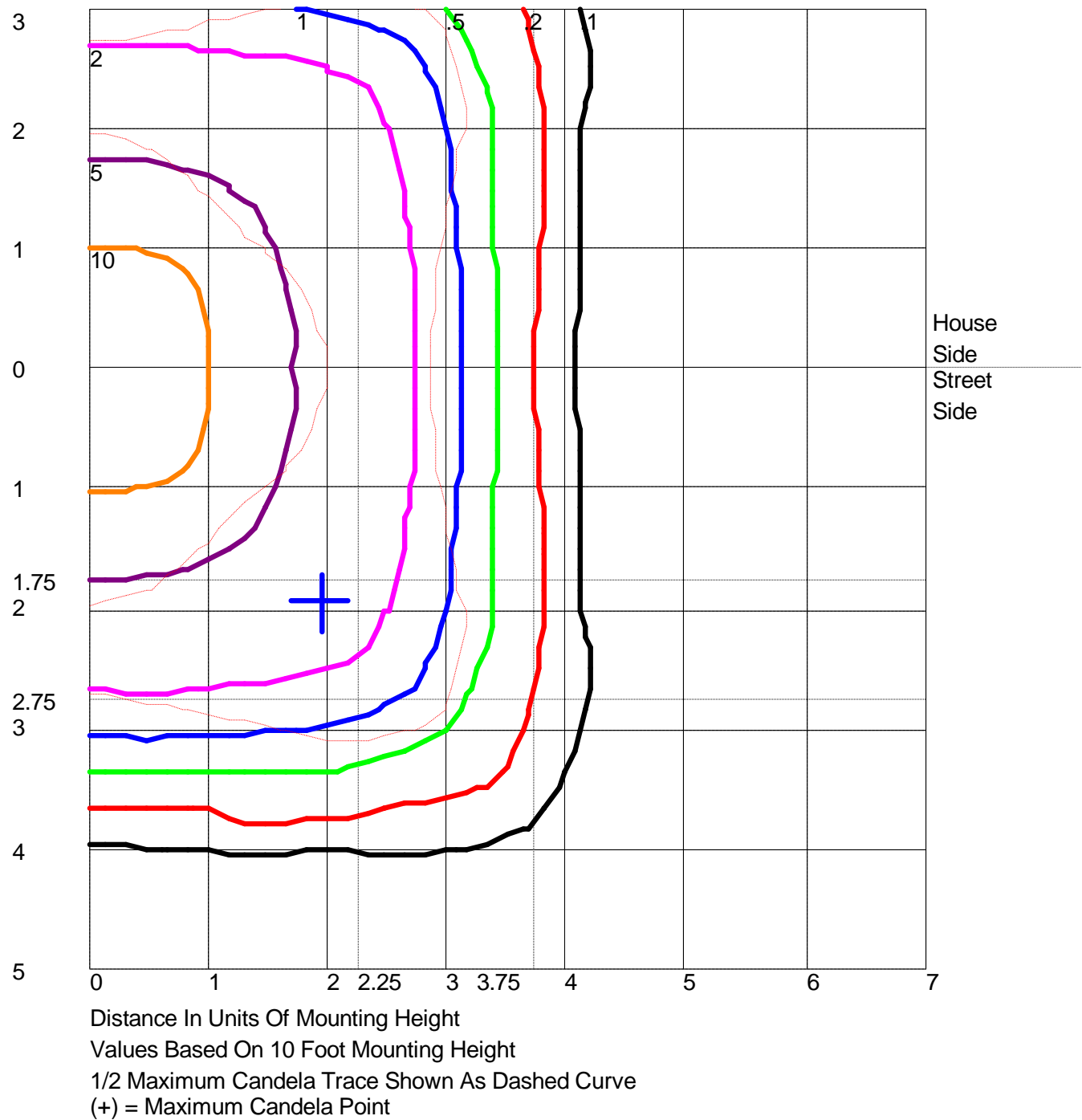
	Lumens	Percent Of Luminaire
Downward Street Side	9019.0	50.0
Downward House Side	9019.0	50.0
Downward Total	18038.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18038.0	100.0

POLAR GRAPH

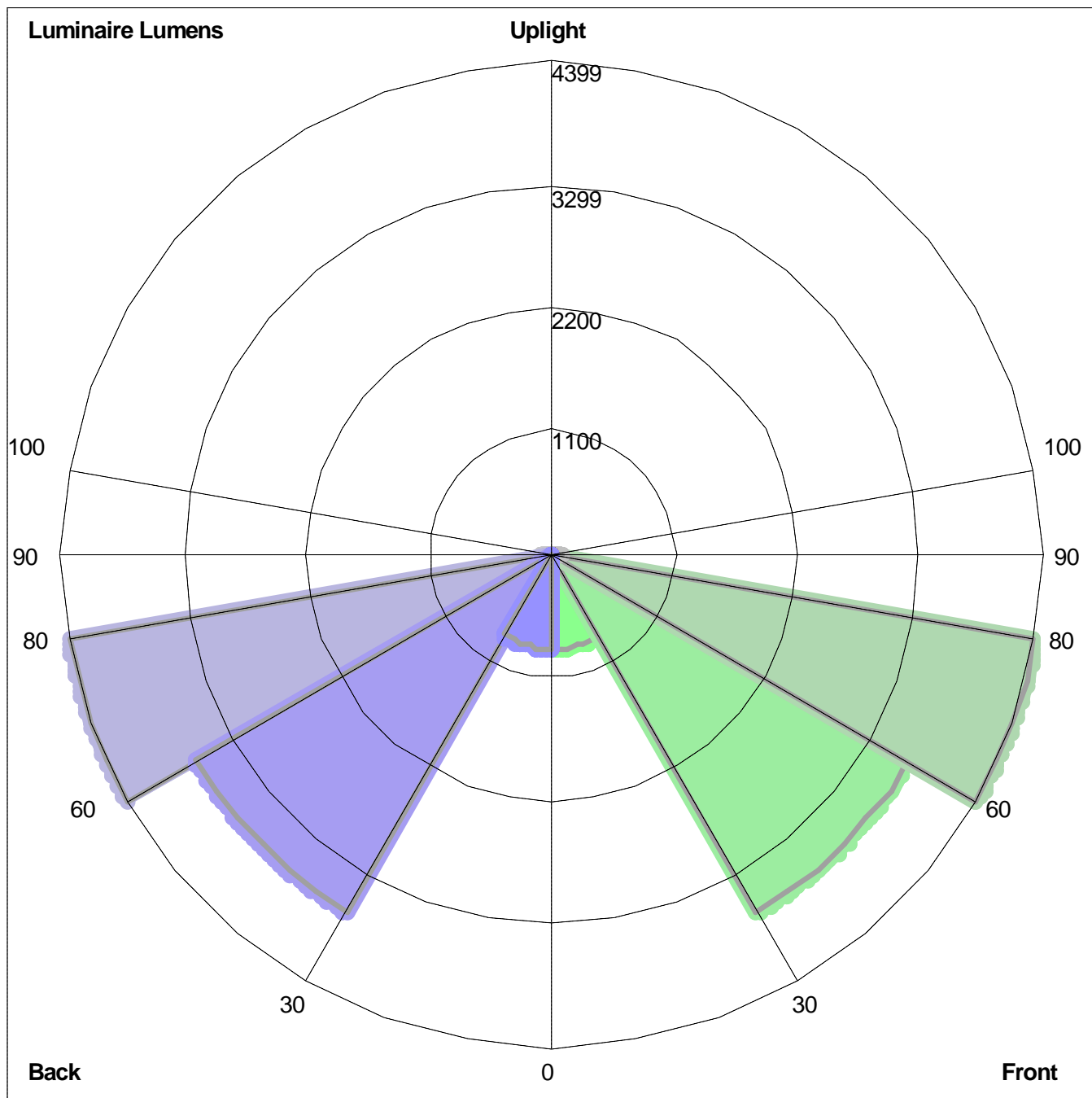


Maximum Candela = 9134.321 Located At Horizontal Angle = 45, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=843.9, Medium=3689.5, High=4399.2, Very High=86.5  
Back: Low=843.9, Medium=3689.5, High=4399.2, Very High=86.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2