



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-18L-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-18L-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\_SOURCETYPE] 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	16689
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	154.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8451.205
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	8451.205
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	967.894 (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)	780.8	N.A.	4.7
FM - Front-Medium (30-60)	3413.5	N.A.	20.5
FH - Front-High (60-80)	4070.2	N.A.	24.4
FVH - Front-Very High (80-90)	80.0	N.A.	0.5
BL - Back-Low (0-30)	780.8	N.A.	4.7
BM - Back-Medium (30-60)	3413.5	N.A.	20.5
BH - Back-High (60-80)	4070.2	N.A.	24.4
BVH - Back-Very High (80-90)	80.0	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	16689.0	N.A.	100.0
BUG Rating	B4-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>										
	<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	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863	1586.863
2.5	1594.287	1590.575	1589.647	1592.431	1592.431	1591.503	1589.647	1590.575	1588.719	1585.007	
5.0	1600.783	1597.071	1597.999	1598.927	1597.999	1597.071	1596.143	1596.143	1593.359	1591.503	
7.5	1610.991	1606.351	1609.135	1610.063	1610.063	1608.207	1606.351	1606.351	1601.711	1600.783	
10.0	1630.478	1625.839	1628.622	1628.622	1627.694	1625.839	1623.983	1623.055	1622.127	1619.343	
12.5	1663.886	1659.246	1660.174	1661.102	1659.246	1655.534	1651.822	1647.182	1648.110	1646.254	
15.0	1701.006	1699.150	1700.078	1701.934	1702.862	1700.078	1696.366	1694.510	1687.086	1684.302	
17.5	1746.477	1747.405	1749.261	1753.901	1758.541	1762.253	1757.613	1750.189	1738.125	1734.413	
20.0	1804.941	1805.869	1809.581	1818.860	1829.068	1837.420	1831.852	1817.932	1799.373	1791.021	
22.5	1868.044	1869.900	1883.820	1898.668	1916.299	1927.435	1918.155	1895.884	1868.972	1855.052	
25.0	1930.219	1933.931	1957.131	1986.827	2022.090	2032.298	2014.666	1982.187	1944.139	1924.651	
27.5	1994.251	2001.674	2035.082	2083.338	2132.521	2149.225	2123.241	2073.130	2023.018	1996.107	
30.0	2062.922	2071.274	2116.745	2186.344	2247.592	2271.720	2235.528	2165.929	2101.897	2065.706	
32.5	2136.233	2147.369	2204.904	2289.351	2365.447	2396.070	2347.815	2260.584	2182.633	2139.017	
35.0	2216.968	2229.960	2295.847	2400.710	2486.085	2518.565	2460.102	2360.807	2272.648	2226.248	
37.5	2306.055	2321.831	2396.070	2509.285	2609.508	2647.556	2575.172	2467.525	2372.870	2320.903	
40.0	2409.062	2428.550	2507.429	2624.356	2732.003	2773.762	2698.595	2583.524	2482.373	2421.126	
42.5	2536.197	2547.333	2622.500	2745.922	2859.137	2903.681	2830.370	2709.731	2596.516	2526.917	
45.0	2662.403	2672.611	2747.778	2872.129	2988.128	3035.455	2965.856	2839.649	2715.299	2635.492	
47.5	2798.818	2815.522	2883.265	3006.688	3122.686	3180.222	3106.911	2973.280	2833.154	2751.490	
50.0	2951.008	2968.640	3028.959	3150.526	3269.309	3337.052	3252.605	3114.335	2972.352	2875.841	
52.5	3113.407	3134.750	3198.782	3311.996	3433.563	3503.162	3410.363	3261.885	3123.614	3032.671	
55.0	3308.284	3327.772	3389.020	3497.594	3624.729	3697.112	3587.609	3444.699	3318.492	3219.197	
57.5	3536.570	3556.986	3621.945	3734.232	3863.222	3933.750	3813.111	3675.768	3533.786	3425.211	
60.0	3788.983	3810.327	3890.134	4033.045	4184.307	4277.106	4114.708	3946.742	3809.399	3672.984	
62.5	4064.596	4106.356	4220.499	4398.673	4603.758	4725.325	4530.447	4318.866	4165.747	3995.925	
65.0	4698.413	4700.269	4823.692	4991.658	5266.343	5399.046	5169.832	4932.267	4775.437	4563.855	
67.5	4899.787	4968.459	5329.447	5859.329	6510.778	6738.136	6413.339	5915.008	5505.765	5221.800	
70.0	4225.139	4278.034	4833.900	5805.506	7457.328	8451.205	7679.117	6224.029	5211.592	4631.598	
72.5	2733.859	2751.490	3440.059	4578.703	6495.002	8089.289	6778.039	4800.492	3733.304	3247.037	
75.0	818.487	825.911	1197.107	2410.918	4416.305	6093.182	4720.685	2635.492	1460.656	1034.709	
77.5	278.397	276.541	365.628	682.073	1566.447	2951.008	1923.723	869.527	495.547	376.764	
80.0	149.406	143.838	167.038	269.117	550.298	967.894	708.056	386.972	256.125	224.574	
82.5	101.151	96.511	105.791	147.550	248.701	386.044	296.029	203.230	154.046	155.902	
85.0	67.743	66.815	70.527	92.799	140.126	192.094	156.830	124.351	99.295	107.647	
87.5	41.760	42.688	46.400	58.463	81.663	101.151	87.231	73.311	60.319	61.247	
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**

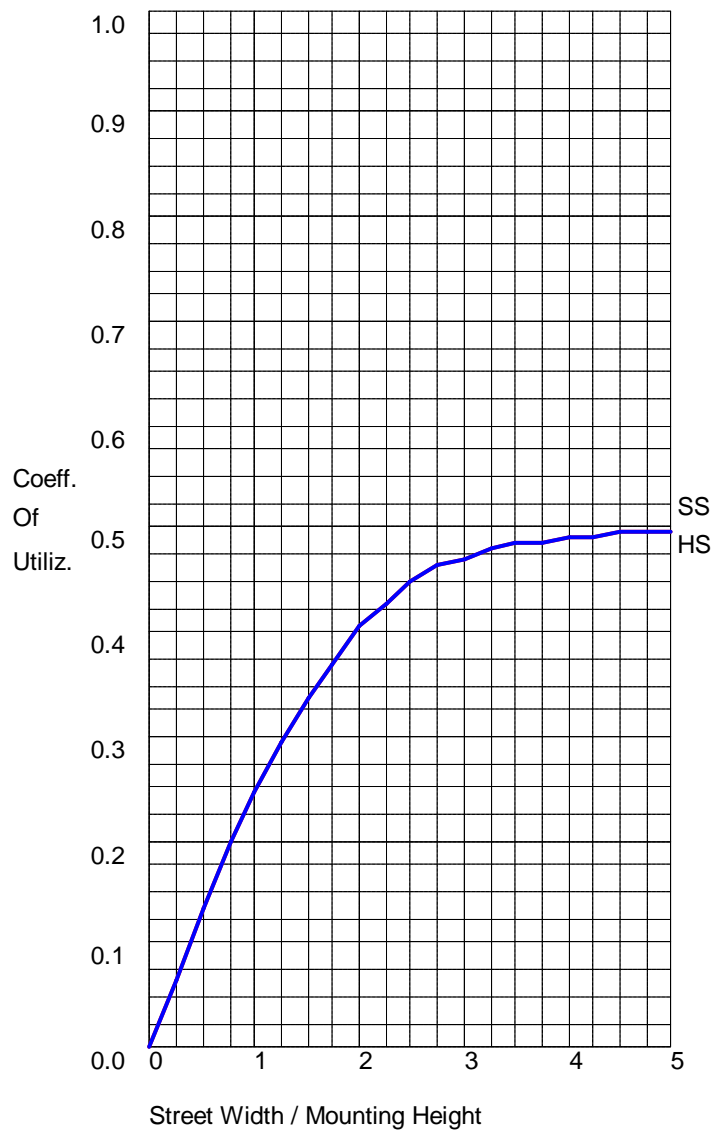
	<u>90</u>
0.0	1586.863
2.5	1587.791
5.0	1594.287
7.5	1604.495
10.0	1623.055
12.5	1649.038
15.0	1687.086
17.5	1736.269
20.0	1793.805
22.5	1856.908
25.0	1923.723
27.5	2002.602

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2072.202
<b>32.5</b>	2146.441
<b>35.0</b>	2229.032
<b>37.5</b>	2321.831
<b>40.0</b>	2419.270
<b>42.5</b>	2522.277
<b>45.0</b>	2629.924
<b>47.5</b>	2743.138
<b>50.0</b>	2865.633
<b>52.5</b>	3009.472
<b>55.0</b>	3199.710
<b>57.5</b>	3407.579
<b>60.0</b>	3646.073
<b>62.5</b>	3970.869
<b>65.0</b>	4536.943
<b>67.5</b>	5184.680
<b>70.0</b>	4564.783
<b>72.5</b>	3243.325
<b>75.0</b>	940.982
<b>77.5</b>	370.268
<b>80.0</b>	225.502
<b>82.5</b>	157.758
<b>85.0</b>	103.935
<b>87.5</b>	59.391
<b>90.0</b>	0.000

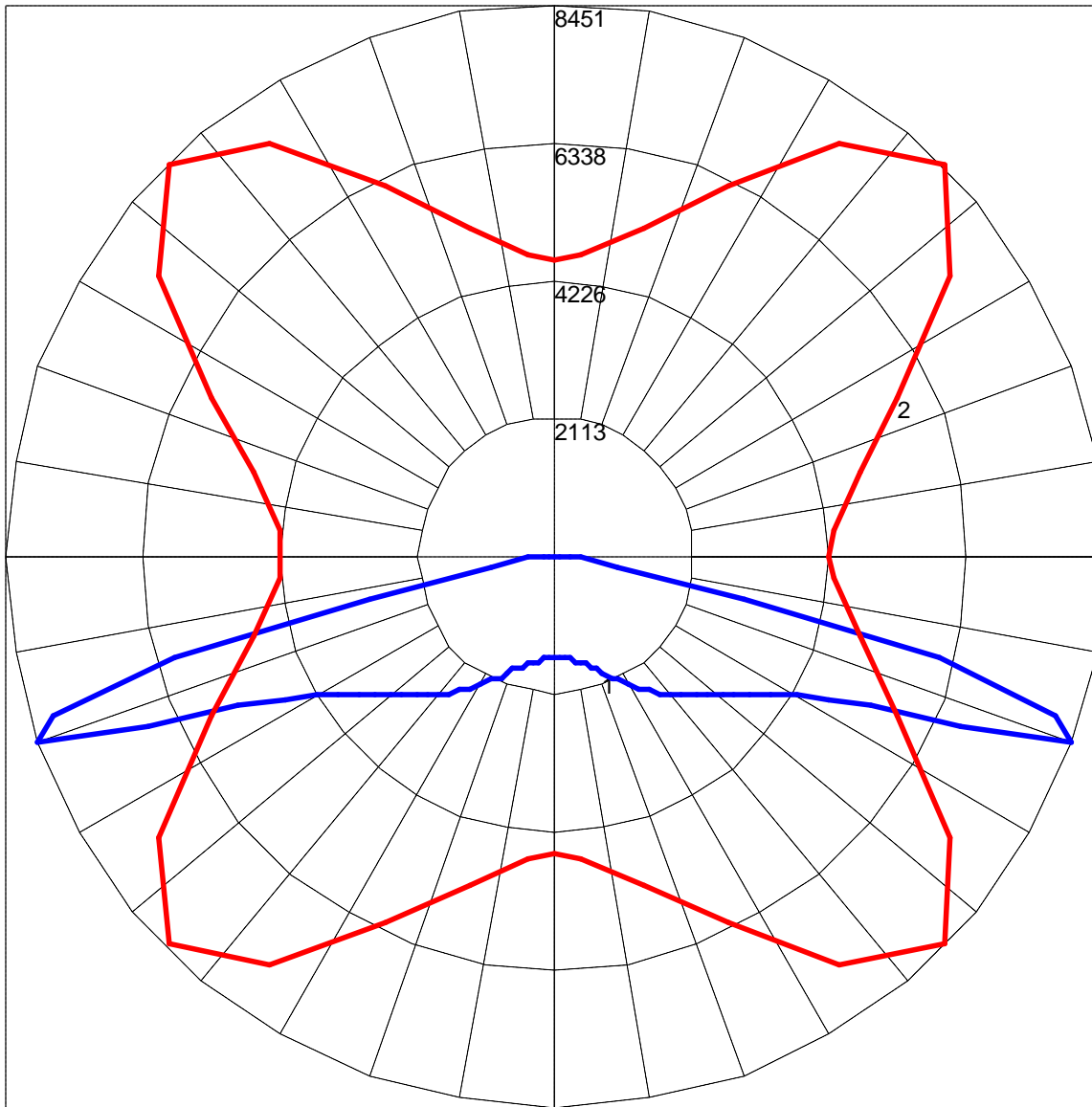
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

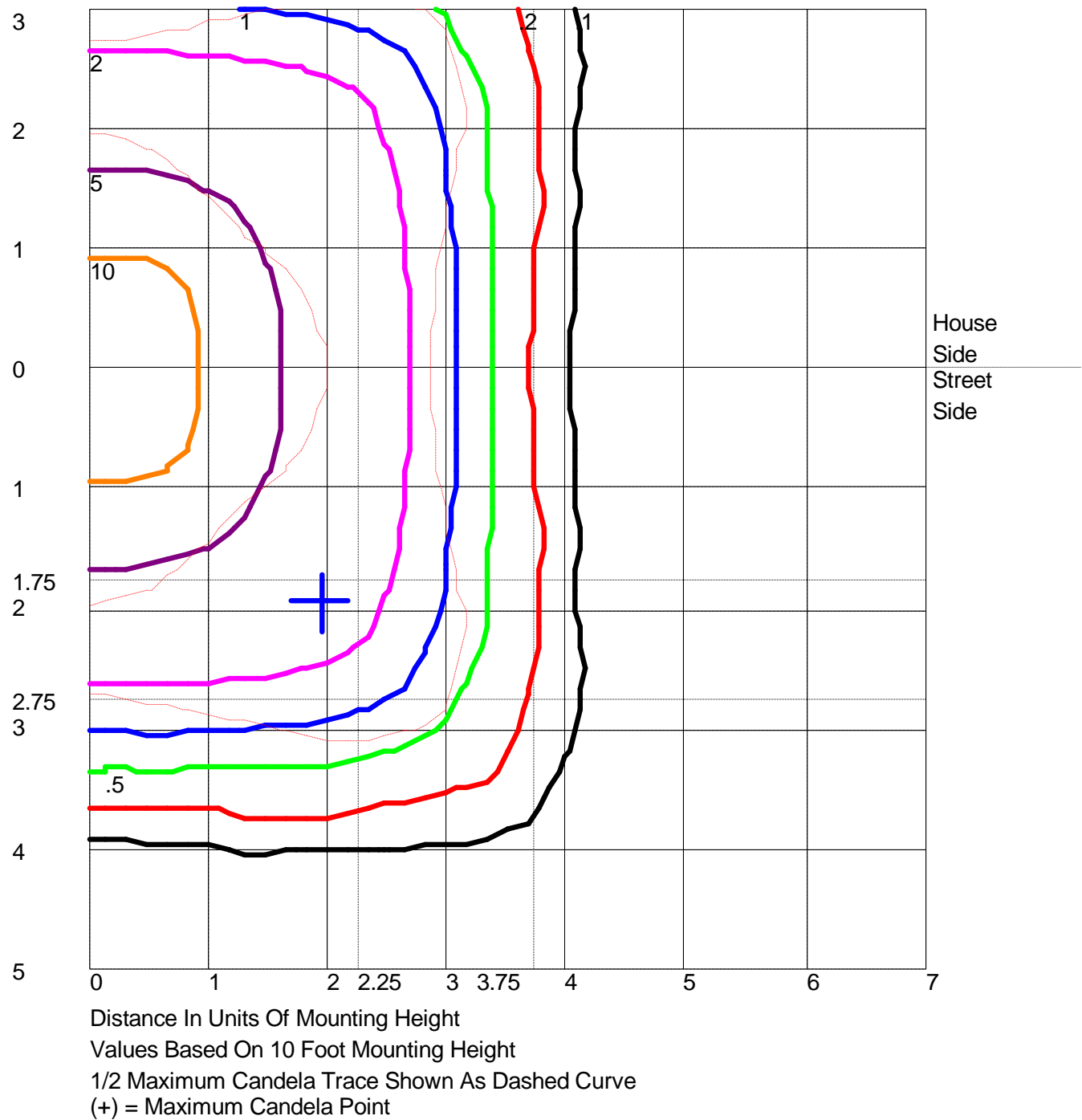
	Lumens	Percent Of Luminaire
Downward Street Side	8344.5	50.0
Downward House Side	8344.5	50.0
Downward Total	16689.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16689.0	100.0

POLAR GRAPH

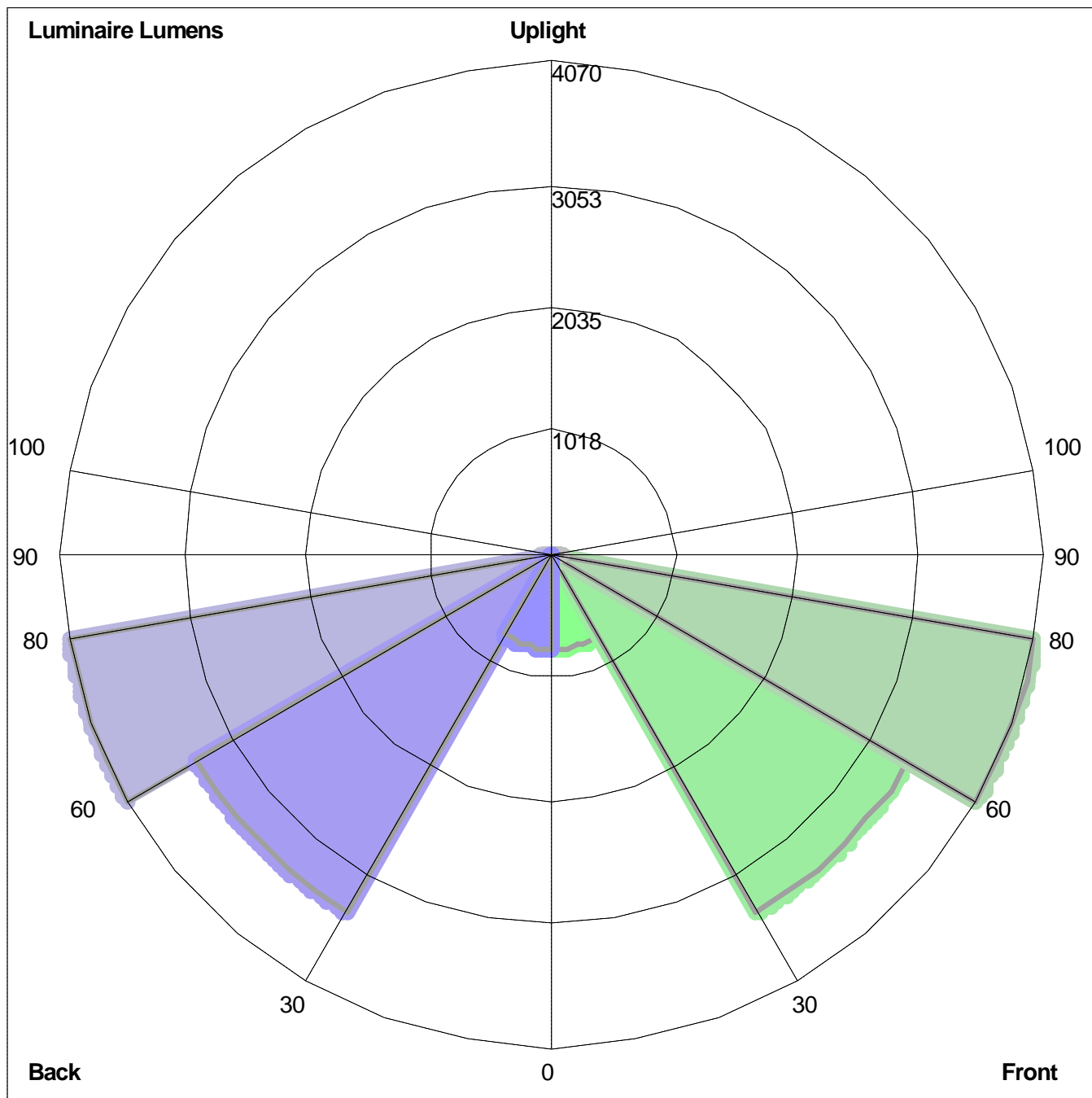


Maximum Candela = 8451.205 Located At Horizontal Angle = 45, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=780.8, Medium=3413.5, High=4070.2, Very High=80.0  
Back: Low=780.8, Medium=3413.5, High=4070.2, Very High=80.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2