



IES ROAD REPORT

PHOTOMETRIC FILENAME : WLM-LED-07L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

[TEST] IESNA:LM-63-2002

[TEST] 2964

[TESTLAB] TUV SUD America

[TESTDATE] 9/8/2016 1:38:57 PM

[ISSUEDATE] 1/7/2019

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] WLM-LED-07L-50

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7237
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	61.33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2921.243
Maximum Candela Angle	270H 2.5V
Maximum Candela (<90 Degrees Vertical)	2921.243
Maximum Candela Angle (<90 Degrees Vertical)	270H 2.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	136.634 (1.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1149.0	N.A.	15.9
FM - Front-Medium (30-60)	2004.4	N.A.	27.7
FH - Front-High (60-80)	237.9	N.A.	3.3
FVH - Front-Very High (80-90)	0.7	N.A.	0.0
BL - Back-Low (0-30)	1150.4	N.A.	15.9
BM - Back-Medium (30-60)	2100.7	N.A.	29.0
BH - Back-High (60-80)	579.1	N.A.	8.0
BVH - Back-Very High (80-90)	14.6	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7236.8	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834
2.5	2919.063	2917.927	2916.729	2914.539	2912.666	2911.867	2912.993	2913.781	2914.692	2914.631
5.0	2915.317	2914.457	2908.162	2900.946	2900.619	2903.955	2903.945	2906.402	2909.718	2911.069
7.5	2906.013	2902.144	2891.304	2888.008	2885.767	2893.484	2894.784	2898.838	2899.493	2901.192
10.0	2890.137	2881.468	2868.141	2868.755	2866.688	2874.416	2875.961	2884.968	2884.303	2884.313
12.5	2863.371	2849.195	2845.357	2843.801	2841.662	2847.865	2852.153	2857.875	2862.041	2863.197
15.0	2830.515	2813.197	2814.967	2812.880	2811.426	2816.319	2819.481	2826.697	2835.131	2835.930
17.5	2793.145	2775.346	2780.044	2775.561	2772.551	2780.228	2784.005	2793.770	2805.326	2803.483
20.0	2752.572	2735.161	2738.989	2732.561	2728.784	2739.061	2742.930	2754.977	2769.747	2765.325
22.5	2706.399	2690.329	2693.380	2685.242	2682.469	2691.967	2696.133	2709.214	2726.962	2722.295
25.0	2651.127	2637.340	2642.499	2634.955	2630.226	2639.408	2643.072	2657.842	2680.606	2673.144
27.5	2593.430	2579.417	2584.433	2578.936	2571.884	2581.116	2584.351	2600.257	2628.906	2616.245
30.0	2531.730	2517.584	2524.217	2516.909	2509.601	2518.976	2520.685	2534.555	2566.029	2551.290
32.5	2461.064	2448.535	2455.772	2449.129	2442.445	2449.395	2452.517	2452.496	2477.307	2469.426
35.0	2375.321	2371.595	2381.503	2375.494	2362.628	2372.373	2372.628	2346.784	2367.644	2370.407
37.5	2266.568	2283.651	2297.408	2292.781	2274.255	2289.454	2285.934	2221.900	2239.679	2255.984
40.0	2122.881	2174.919	2210.999	2198.870	2178.788	2198.829	2187.386	2085.655	2101.233	2125.399
42.5	1825.846	2021.703	2114.908	2096.382	2073.648	2098.531	2077.159	1940.658	1953.289	1982.542
45.0	1675.793	1784.392	2005.275	1987.608	1966.032	1990.781	1947.025	1791.229	1805.897	1833.635
47.5	1504.655	1559.855	1865.458	1875.212	1856.430	1881.712	1805.733	1651.279	1676.776	1692.804
50.0	1173.760	1381.030	1726.080	1752.621	1741.249	1763.409	1653.695	1530.530	1564.185	1568.156
52.5	1039.542	1136.401	1542.015	1613.643	1613.919	1644.943	1498.053	1423.600	1465.944	1456.230
55.0	713.622	923.276	1243.495	1462.433	1477.142	1523.140	1342.033	1321.367	1373.947	1348.870
57.5	551.051	712.578	1083.739	1308.440	1334.735	1388.103	1206.586	1217.691	1272.267	1239.196
60.0	320.311	467.304	793.203	1139.666	1180.915	1243.516	1087.761	1106.953	1162.430	1127.097
62.5	111.004	238.406	622.802	960.288	1019.848	1086.380	973.359	982.540	1048.232	1011.097
65.0	31.198	91.434	409.422	782.486	855.967	908.158	853.368	850.287	912.846	878.004
67.5	5.865	22.754	244.936	601.768	691.339	729.436	731.728	725.075	788.321	745.004
70.0	0.583	3.408	114.177	414.754	538.768	569.403	606.077	597.919	662.270	611.471
72.5	0.072	0.379	24.627	250.955	395.307	427.979	482.718	452.073	491.859	450.773
75.0	0.000	0.000	2.764	126.788	266.370	311.447	362.144	309.400	346.268	310.434
77.5	0.000	0.000	0.143	42.539	156.010	213.042	234.373	198.006	209.440	192.172
80.0	0.000	0.000	0.000	7.052	70.380	130.524	136.634	100.789	106.665	91.066
82.5	0.000	0.000	0.000	0.471	21.597	67.729	63.215	40.379	48.609	36.981
85.0	0.000	0.000	0.000	0.000	4.237	27.083	24.565	17.011	19.417	16.469
87.5	0.000	0.000	0.000	0.000	0.727	8.342	9.151	8.250	10.010	8.311
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

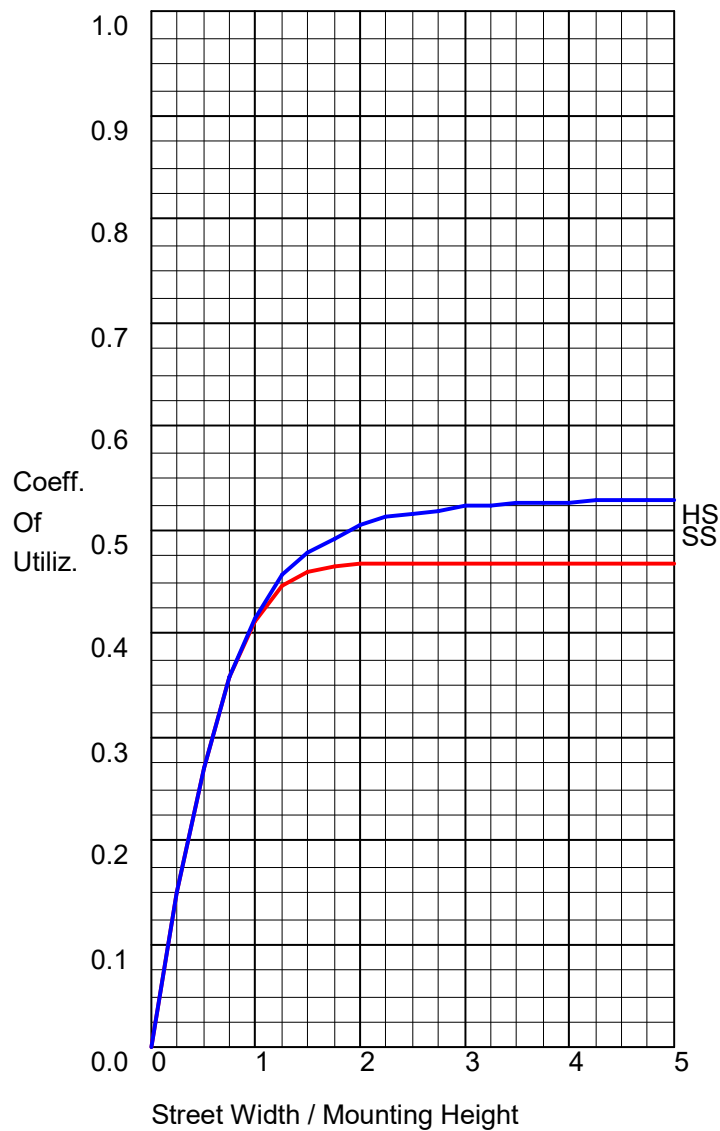
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834	2920.834
2.5	2915.982	2918.438	2921.243	2920.281	2919.493	2919.063	2919.063
5.0	2909.411	2910.946	2913.822	2913.986	2914.723	2915.880	2915.317
7.5	2899.114	2898.469	2898.745	2901.632	2904.354	2906.197	2906.013
10.0	2883.054	2880.833	2878.377	2882.952	2887.732	2890.403	2890.137
12.5	2861.959	2859.267	2854.988	2859.359	2865.152	2868.899	2863.371
15.0	2835.428	2833.166	2827.097	2831.150	2837.568	2841.826	2830.515
17.5	2802.613	2799.788	2793.493	2797.526	2805.438	2810.044	2793.145
20.0	2763.524	2758.580	2754.107	2758.744	2767.352	2773.206	2752.572
22.5	2718.979	2711.578	2707.279	2713.871	2722.991	2730.197	2706.399
25.0	2668.129	2660.636	2657.719	2662.642	2671.445	2680.196	2651.127
27.5	2610.830	2603.215	2601.843	2606.081	2614.300	2623.215	2593.430

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CANDELA TABULATION - (Cont.)

30.0	2548.874	2539.089	2535.670	2544.115	2553.511	2561.812	2531.730
32.5	2478.597	2470.091	2463.428	2475.097	2485.404	2493.306	2461.064
35.0	2402.045	2395.566	2385.331	2399.640	2408.658	2418.740	2375.321
37.5	2313.457	2312.751	2294.951	2316.374	2327.766	2337.050	2266.568
40.0	2208.891	2219.423	2196.352	2223.036	2238.973	2231.685	2122.881
42.5	2088.715	2116.668	2088.695	2117.497	2145.359	2095.655	1825.846
45.0	1952.613	2002.399	1966.462	1995.121	2034.692	1830.411	1675.793
47.5	1803.676	1879.388	1834.557	1857.095	1897.321	1644.001	1504.655
50.0	1646.898	1752.754	1695.108	1707.779	1707.718	1469.956	1173.760
52.5	1490.571	1619.856	1548.125	1547.450	1431.727	1204.795	1039.542
55.0	1338.276	1476.640	1389.577	1380.017	1226.258	965.467	713.622
57.5	1200.383	1319.248	1222.809	1203.730	1004.946	738.852	551.051
60.0	1076.666	1144.456	1054.148	1019.347	723.550	490.866	320.311
62.5	951.578	952.325	873.736	821.013	516.598	306.575	111.004
65.0	811.146	758.556	699.456	606.261	336.821	134.331	31.198
67.5	685.105	585.780	535.677	409.811	157.545	34.197	5.865
70.0	550.048	440.712	381.059	243.647	40.686	7.789	0.583
72.5	422.922	320.413	243.944	110.953	8.526	1.177	0.072
75.0	293.310	215.438	129.541	31.966	1.382	0.061	0.000
77.5	166.501	126.982	50.349	4.074	0.133	0.000	0.000
80.0	78.783	62.119	12.835	0.164	0.000	0.000	0.000
82.5	27.892	21.914	2.129	0.020	0.000	0.000	0.000
85.0	10.021	5.865	0.246	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

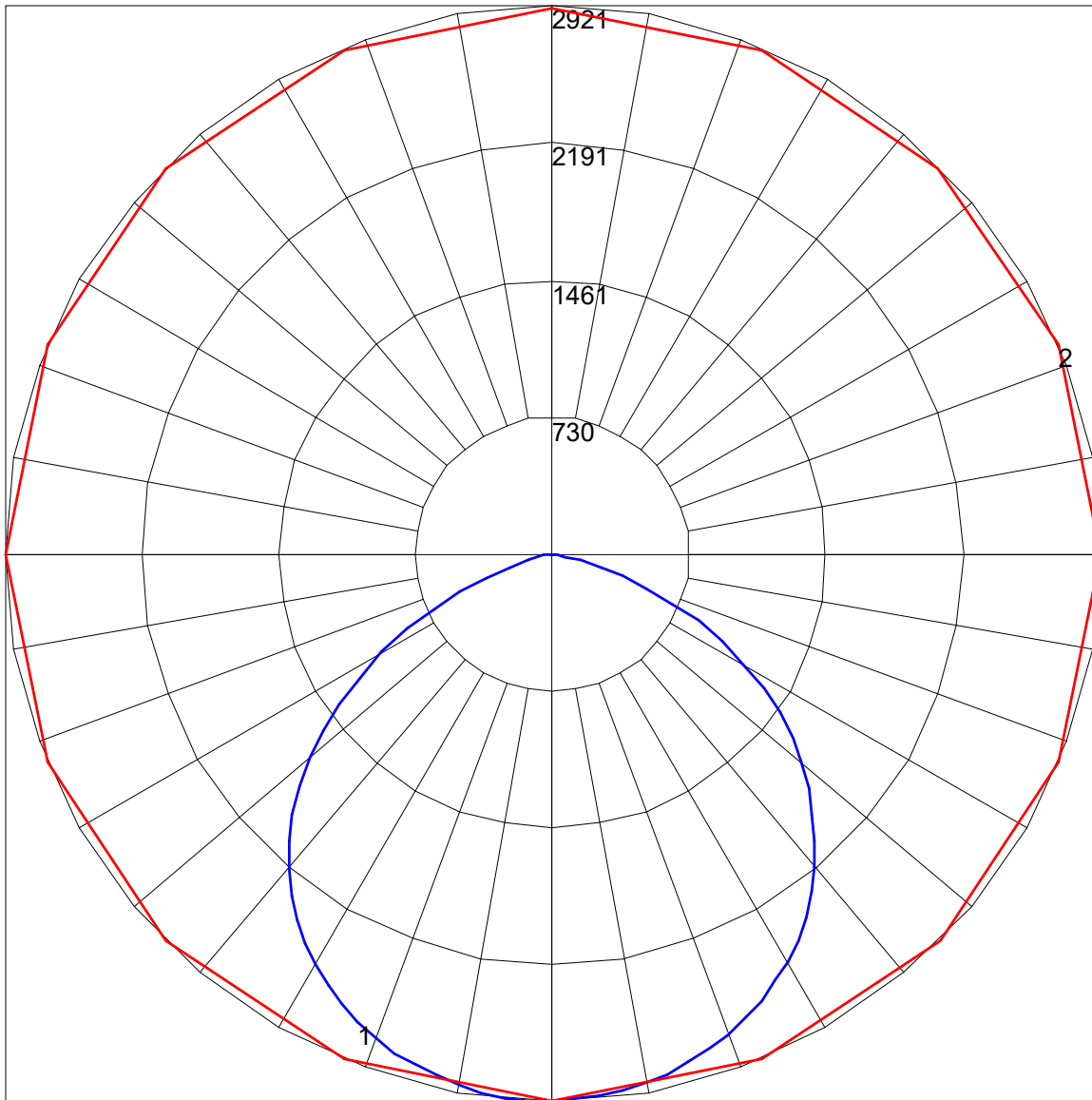
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

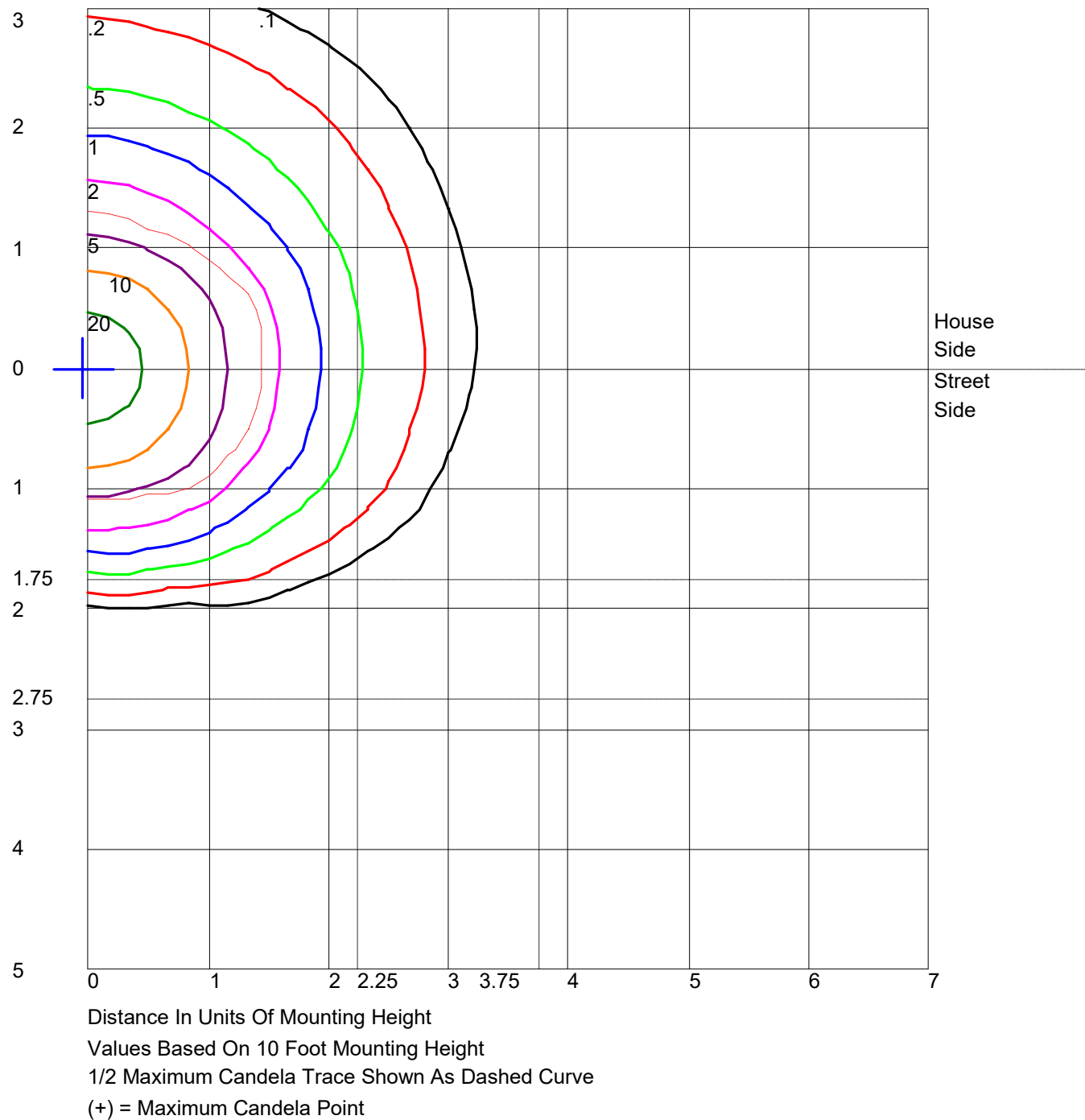
	Lumens	Percent Of Luminaire
Downward Street Side	3392.0	46.9
Downward House Side	3844.7	53.1
Downward Total	7236.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7236.7	100.0

POLAR GRAPH

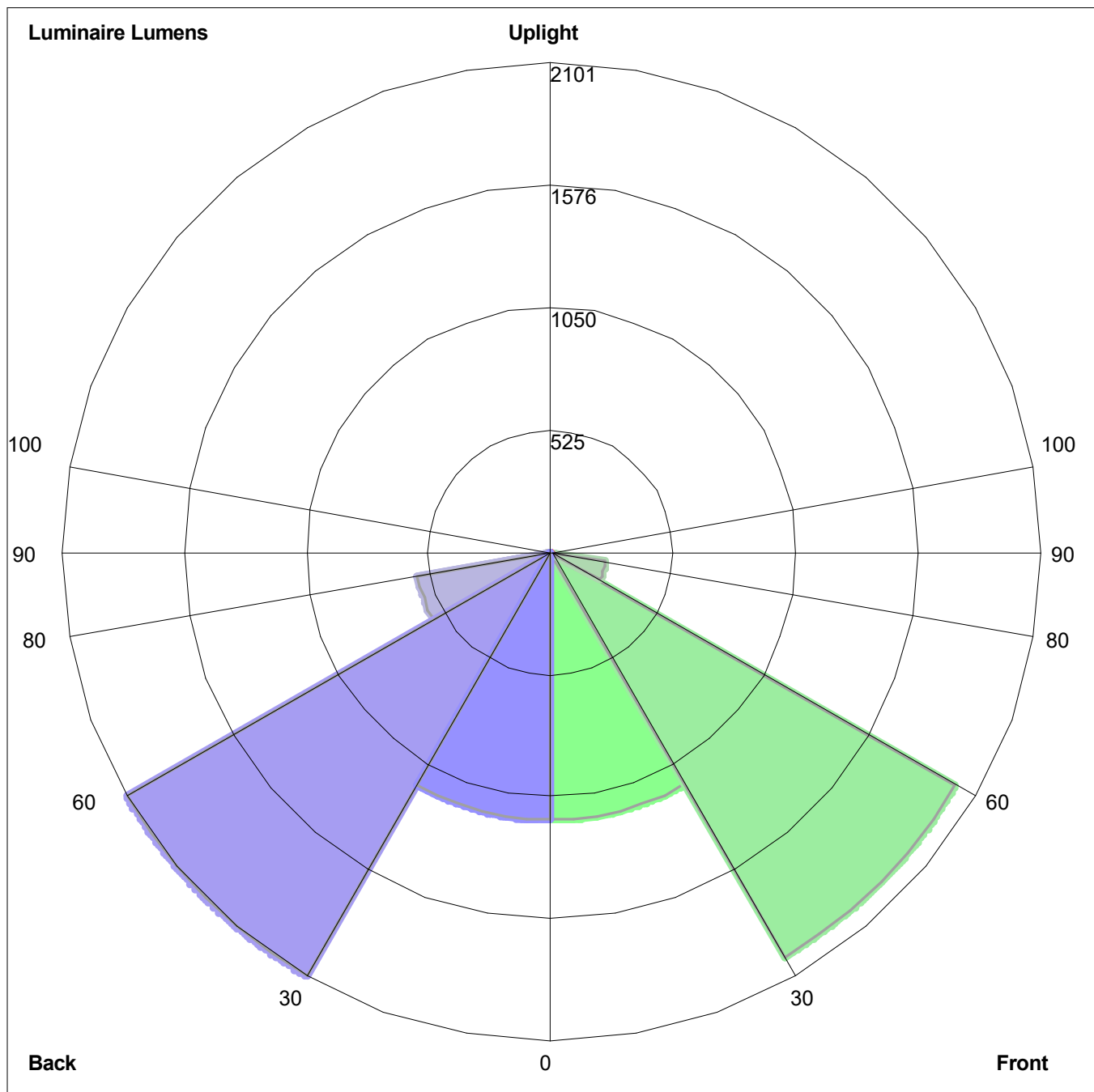


Maximum Candela = 2921.243 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1149.0, Medium=2004.4, High=237.9, Very High=0.7
Back: Low=1150.4, Medium=2100.7, High=579.1, Very High=14.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2