



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-29-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7922
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]09/27/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XMR-5W-LED-29-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[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	25022
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	244
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13204.842
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	13204.842
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1543.119 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	983.9	N.A.	3.9
FM - Front-Medium (30-60)	5130.1	N.A.	20.5
FH - Front-High (60-80)	6293.3	N.A.	25.2
FVH - Front-Very High (80-90)	103.6	N.A.	0.4
BL - Back-Low (0-30)	983.9	N.A.	3.9
BM - Back-Medium (30-60)	5130.1	N.A.	20.5
BH - Back-High (60-80)	6293.3	N.A.	25.2
BVH - Back-Very High (80-90)	103.6	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25021.8	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

Vert. 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	1902.116	1902.116	1902.116	1902.116	1902.116	1902.116	1902.116	1902.116	1902.116	1902.116
2.5	1900.697	1906.373	1907.082	1909.920	1910.630	1908.501	1909.211	1907.792	1903.535	1904.244
5.0	1896.440	1903.535	1904.954	1909.920	1914.886	1912.049	1914.886	1914.886	1911.339	1912.758
7.5	1892.183	1897.149	1903.535	1911.339	1919.853	1921.272	1927.657	1930.495	1926.948	1928.367
10.0	1906.373	1908.501	1918.434	1929.076	1942.556	1946.813	1954.617	1958.165	1955.327	1956.746
12.5	1947.523	1952.489	1962.422	1973.064	1990.091	1997.186	2003.571	2001.443	2000.024	2002.153
15.0	2021.308	2026.275	2039.755	2056.782	2068.844	2071.682	2073.810	2067.425	2063.877	2065.296
17.5	2110.703	2116.379	2136.954	2163.914	2179.523	2177.394	2168.171	2156.110	2144.049	2145.467
20.0	2208.611	2218.544	2249.052	2288.782	2315.743	2315.743	2293.749	2261.822	2236.990	2233.443
22.5	2312.195	2324.256	2372.501	2429.259	2476.795	2478.214	2439.902	2383.853	2340.574	2327.804
25.0	2423.584	2441.321	2503.755	2583.926	2654.874	2664.807	2613.015	2530.715	2459.058	2434.226
27.5	2547.033	2567.608	2646.360	2752.782	2854.947	2874.103	2813.088	2698.152	2602.373	2556.966
30.0	2676.159	2700.990	2798.189	2939.376	3066.373	3100.428	3031.608	2888.293	2759.877	2700.990
32.5	2815.217	2839.339	2955.694	3130.226	3296.954	3340.941	3269.993	3099.718	2933.700	2849.981
35.0	2954.984	2983.363	3118.874	3330.299	3531.791	3602.739	3522.568	3318.947	3110.360	3008.905
37.5	3108.232	3144.415	3295.535	3542.434	3779.400	3886.531	3787.914	3558.752	3299.082	3170.666
40.0	3273.541	3317.528	3484.256	3762.372	4046.164	4175.999	4063.192	3802.103	3497.736	3343.070
42.5	3472.905	3510.507	3687.877	3999.339	4315.057	4460.501	4341.308	4052.550	3717.675	3545.271
45.0	3697.810	3737.541	3916.330	4255.461	4591.754	4752.097	4633.614	4315.767	3968.831	3775.852
47.5	3967.412	4011.400	4180.256	4527.901	4875.546	5052.916	4930.176	4597.430	4234.177	4028.427
50.0	4246.238	4287.388	4471.852	4816.660	5186.299	5371.473	5238.800	4891.155	4527.192	4300.158
52.5	4513.002	4555.571	4760.611	5115.351	5501.308	5691.448	5554.519	5206.164	4854.262	4583.241
55.0	4828.721	4865.614	5067.816	5420.427	5839.730	6046.898	5891.522	5511.950	5167.143	4885.479
57.5	5200.488	5240.219	5447.387	5768.072	6198.727	6432.855	6259.742	5861.724	5569.418	5280.660
60.0	5624.757	5681.516	5875.913	6168.219	6620.867	6876.280	6691.106	6307.987	6027.032	5725.504
62.5	6193.760	6246.971	6437.112	6662.017	7163.619	7481.466	7225.344	6813.846	6612.353	6327.143
65.0	6769.149	6825.907	7011.081	7287.069	7868.133	8285.307	7985.197	7482.176	7268.622	7021.014
67.5	7340.280	7429.674	7718.433	8098.714	8907.521	9524.769	9052.255	8476.867	8301.625	7980.231
70.0	7089.834	7229.601	7941.919	8835.864	10217.221	11609.931	10565.576	9457.368	8543.558	7645.356
72.5	4478.947	4796.794	5789.357	7710.629	10376.854	13204.842	10859.301	8107.937	5934.800	4773.381
75.0	1569.370	1675.082	2271.755	3958.898	7518.359	11191.337	7854.653	4249.076	2199.388	1528.220
77.5	457.615	469.676	613.700	1088.342	2822.311	5551.681	3037.284	1204.697	607.315	487.413
80.0	247.609	248.318	317.847	446.263	801.712	1543.119	904.587	540.624	340.550	291.596
82.5	114.226	117.774	156.795	231.290	390.214	608.024	427.816	265.346	163.890	156.795
85.0	64.563	67.401	83.719	110.679	175.242	268.893	169.566	112.098	83.009	91.523
87.5	34.055	34.765	43.278	55.339	70.239	86.557	63.144	44.697	35.474	34.055
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

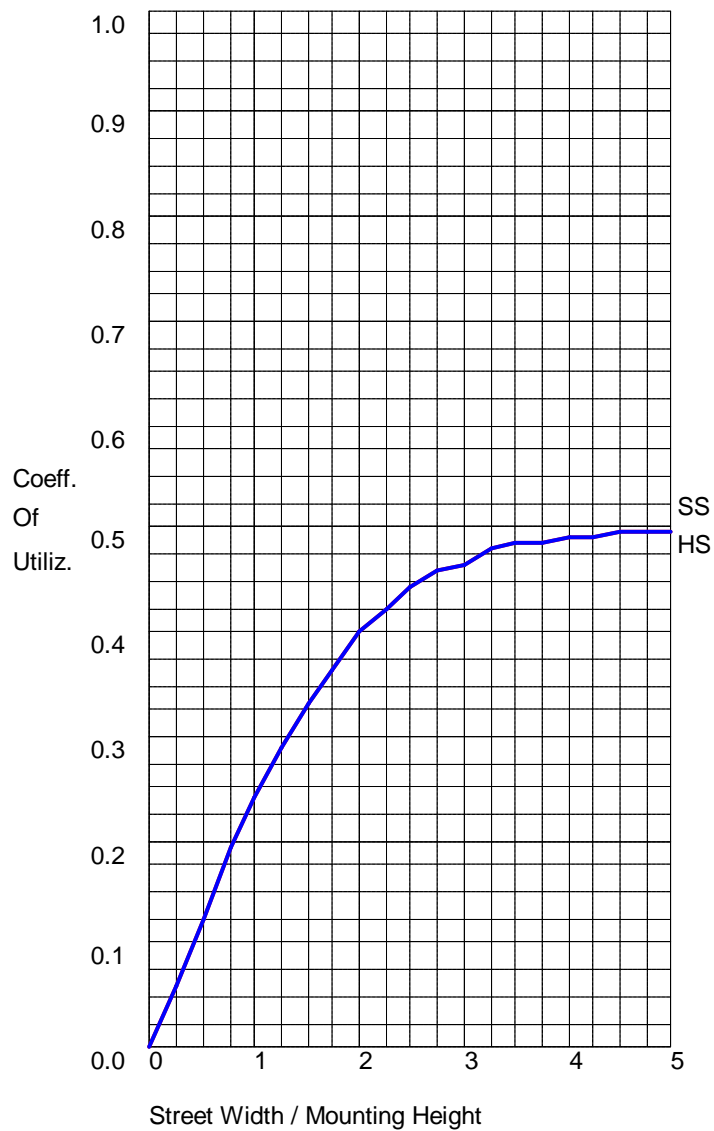
	<u>90</u>
0.0	1902.116
2.5	1901.406
5.0	1909.920
7.5	1924.819
10.0	1954.617
12.5	2000.024
15.0	2063.168
17.5	2140.501
20.0	2227.767
22.5	2324.966
25.0	2429.969
27.5	2551.290

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CANDELA TABULATION - (Cont.)

30.0	2689.639
32.5	2837.210
35.0	2989.749
37.5	3149.382
40.0	3330.299
42.5	3527.534
45.0	3758.115
47.5	4003.596
50.0	4274.617
52.5	4569.051
55.0	4849.296
57.5	5240.929
60.0	5677.259
62.5	6293.797
65.0	6989.797
67.5	7924.182
70.0	7541.063
72.5	4556.990
75.0	1501.969
77.5	481.737
80.0	283.083
82.5	152.538
85.0	87.976
87.5	32.636
90.0	0.000

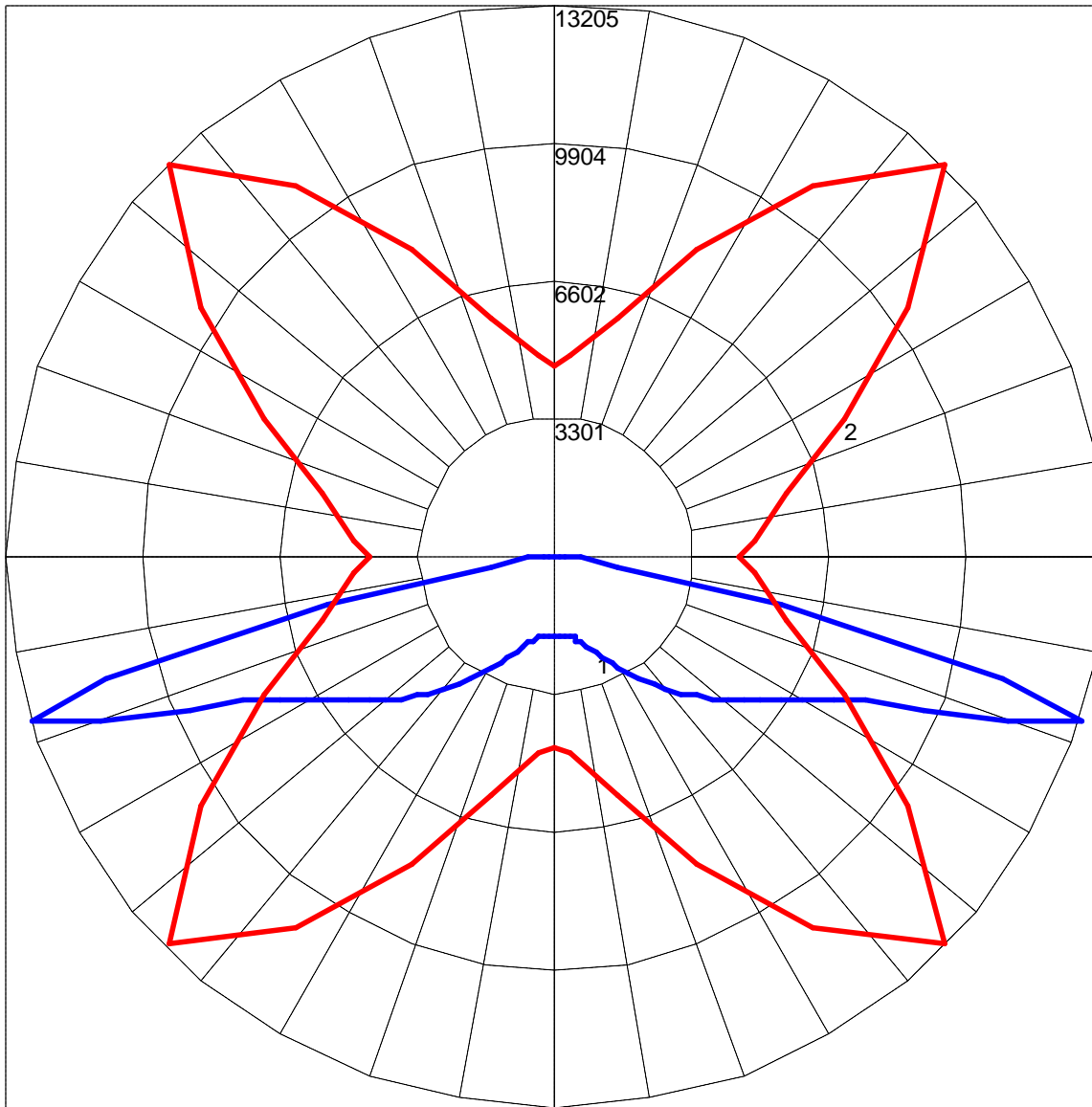
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

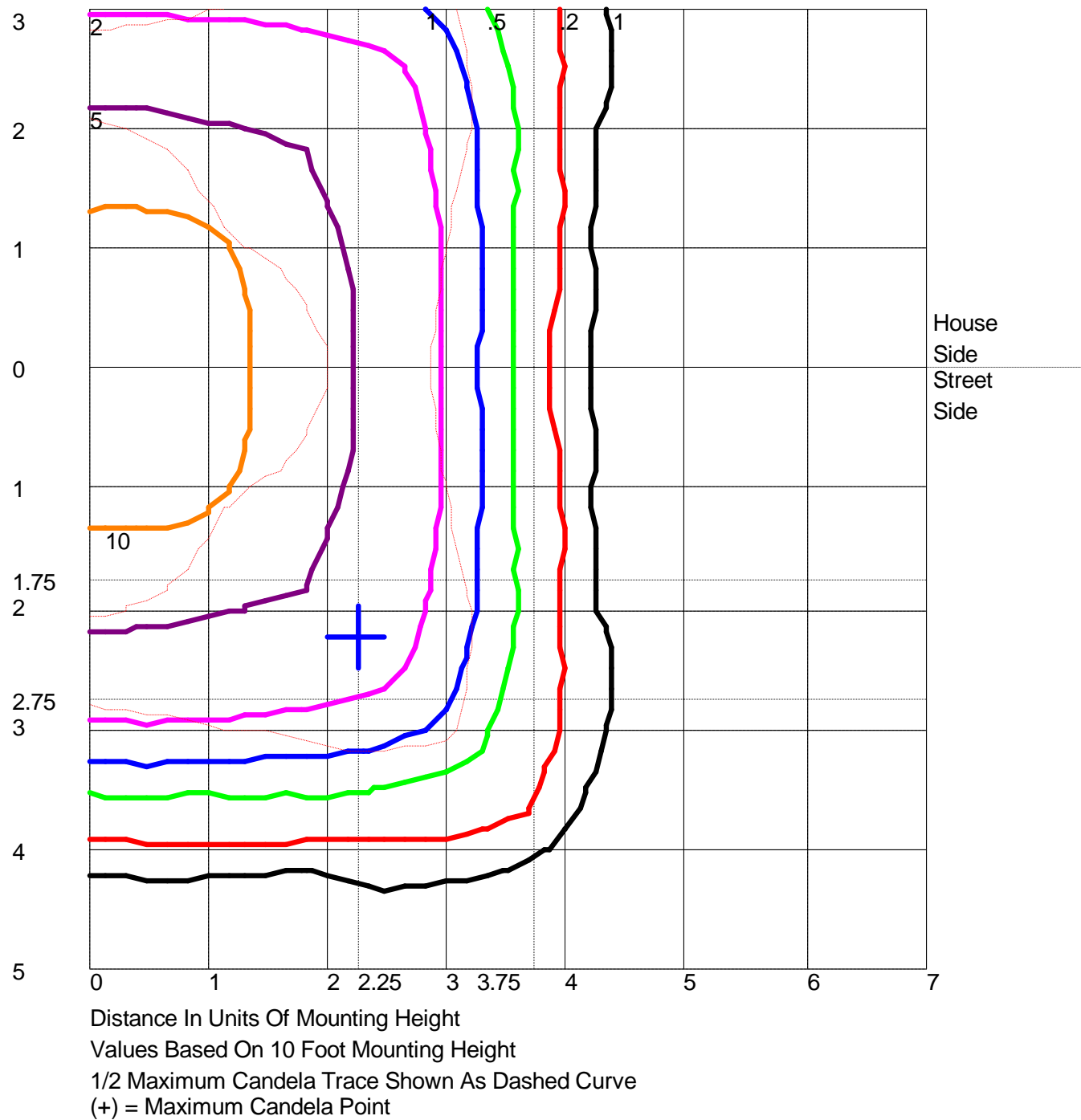
	Lumens	Percent Of Luminaire
Downward Street Side	12510.9	50.0
Downward House Side	12510.9	50.0
Downward Total	25021.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25021.8	100.0

POLAR GRAPH

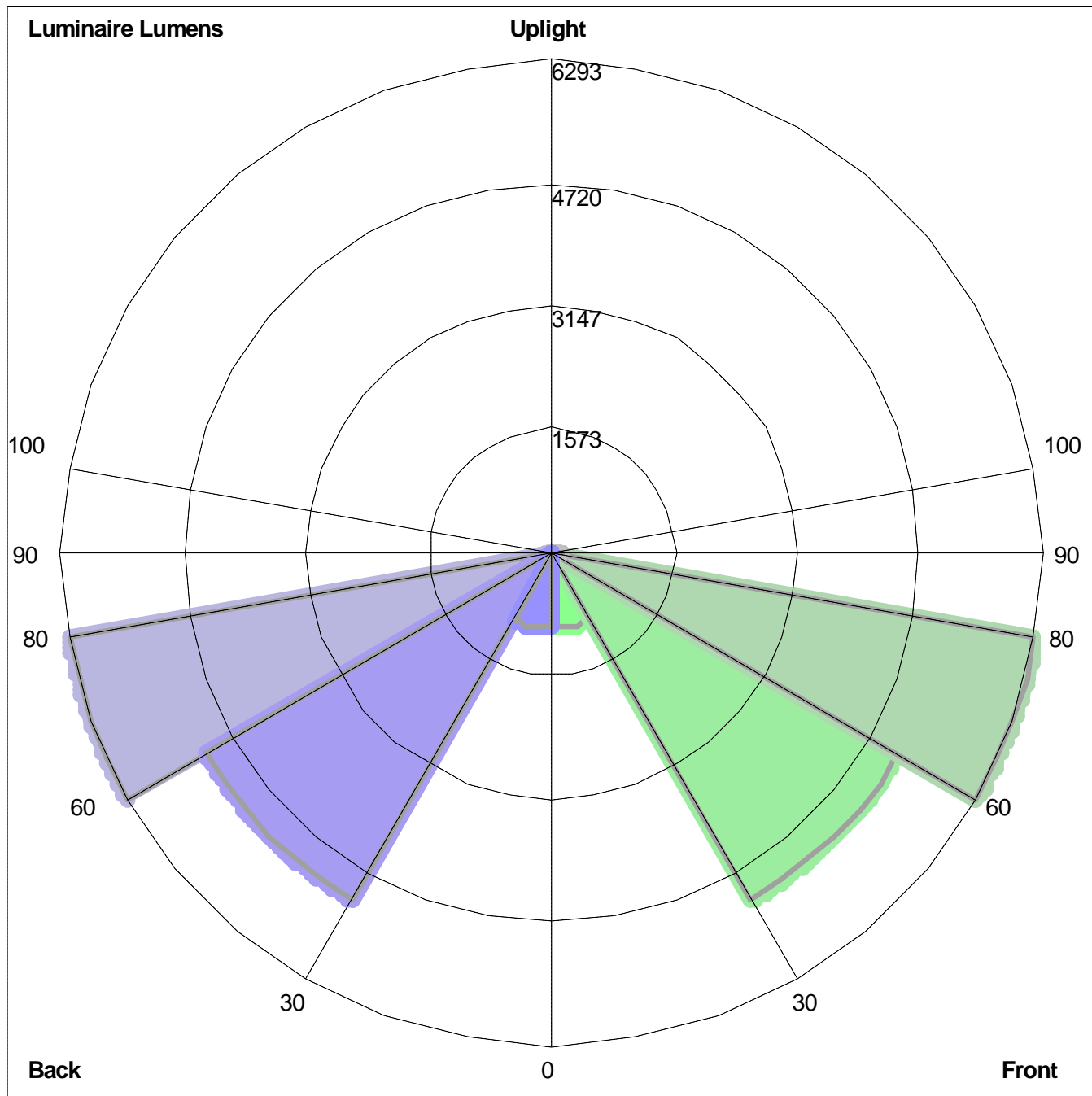


Maximum Candela = 13204.842 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=983.9, Medium=5130.1, High=6293.3, Very High=103.6
Back: Low=983.9, Medium=5130.1, High=6293.3, Very High=103.6
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3