



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-29-50.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

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]XMR-5W-LED-29-50

[_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	29095
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	244
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15354.342
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	15354.342
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	1794.31 (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)	1144.0	N.A.	3.9
FM - Front-Medium (30-60)	5965.2	N.A.	20.5
FH - Front-High (60-80)	7317.8	N.A.	25.2
FVH - Front-Very High (80-90)	120.4	N.A.	0.4
BL - Back-Low (0-30)	1144.0	N.A.	3.9
BM - Back-Medium (30-60)	5965.2	N.A.	20.5
BH - Back-High (60-80)	7317.8	N.A.	25.2
BVH - Back-Very High (80-90)	120.4	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	29094.8	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	2211.745	2211.745	2211.745	2211.745	2211.745	2211.745	2211.745	2211.745	2211.745	2211.745
2.5	2210.095	2216.694	2217.519	2220.819	2221.644	2219.169	2219.994	2218.344	2213.395	2214.219
5.0	2205.145	2213.395	2215.044	2220.819	2226.594	2223.294	2226.594	2226.594	2222.469	2224.119
7.5	2200.195	2205.970	2213.395	2222.469	2232.369	2234.019	2241.444	2244.743	2240.619	2242.268
10.0	2216.694	2219.169	2230.719	2243.093	2258.768	2263.718	2272.792	2276.917	2273.617	2275.267
12.5	2264.543	2270.317	2281.867	2294.242	2314.041	2322.291	2329.715	2327.240	2325.590	2328.065
15.0	2350.340	2356.114	2371.789	2391.588	2405.613	2408.912	2411.387	2403.963	2399.838	2401.488
17.5	2454.286	2460.886	2484.810	2516.159	2534.308	2531.833	2521.108	2507.084	2493.059	2494.709
20.0	2568.132	2579.681	2615.155	2661.353	2692.702	2692.702	2667.128	2630.004	2601.130	2597.006
22.5	2688.577	2702.602	2758.700	2824.697	2879.970	2881.620	2837.072	2771.899	2721.576	2706.727
25.0	2818.098	2838.722	2911.319	3004.541	3087.038	3098.587	3038.365	2942.668	2859.346	2830.472
27.5	2961.642	2985.566	3077.138	3200.884	3319.679	3341.953	3271.006	3137.361	3025.990	2973.192
30.0	3111.787	3140.661	3253.682	3417.851	3565.520	3605.119	3525.097	3358.453	3209.133	3140.661
32.5	3273.481	3301.530	3436.825	3639.768	3833.636	3884.784	3802.287	3604.294	3411.251	3313.905
35.0	3436.000	3468.999	3626.568	3872.409	4106.701	4189.198	4095.976	3859.210	3616.669	3498.698
37.5	3614.194	3656.267	3831.986	4119.075	4394.615	4519.186	4404.515	4138.050	3836.111	3686.791
40.0	3806.412	3857.560	4051.428	4374.816	4704.804	4855.773	4724.603	4421.014	4067.102	3887.259
42.5	4038.228	4081.952	4288.194	4650.356	5017.468	5186.586	5047.991	4712.229	4322.843	4122.375
45.0	4299.744	4345.942	4553.834	4948.170	5339.206	5525.649	5387.879	5018.293	4614.882	4390.490
47.5	4613.232	4664.380	4860.723	5264.959	5669.194	5875.436	5732.717	5345.806	4923.421	4684.180
50.0	4937.445	4985.294	5199.786	5600.721	6030.531	6245.848	6091.579	5687.343	5264.134	5000.143
52.5	5247.634	5297.132	5535.549	5948.034	6396.817	6617.909	6458.690	6053.630	5644.445	5329.306
55.0	5614.746	5657.644	5892.761	6302.771	6790.328	7031.219	6850.551	6409.192	6008.257	5680.743
57.5	6047.030	6093.228	6334.120	6707.006	7207.763	7480.003	7278.710	6815.902	6476.015	6140.252
60.0	6540.362	6606.360	6832.402	7172.289	7698.620	7995.609	7780.292	7334.808	7008.120	6657.508
62.5	7201.988	7263.861	7484.953	7746.468	8329.722	8699.309	8401.495	7923.012	7688.720	7357.083
65.0	7871.039	7937.036	8152.354	8473.267	9148.917	9634.000	9285.037	8700.134	8451.818	8163.903
67.5	8535.140	8639.086	8974.849	9417.033	10357.498	11075.222	10525.792	9856.742	9652.974	9279.263
70.0	8243.925	8406.444	9234.714	10274.176	11880.393	13499.809	12285.453	10996.850	9934.289	8889.877
72.5	5208.036	5577.622	6731.755	8965.774	12066.011	15354.342	12626.991	9427.757	6900.874	5550.398
75.0	1824.834	1947.754	2641.554	4603.333	8742.207	13013.077	9133.243	4940.745	2557.407	1776.985
77.5	532.106	546.130	713.599	1265.504	3281.731	6455.390	3531.697	1400.799	706.174	566.754
80.0	287.915	288.740	369.587	518.906	932.216	1794.310	1051.837	628.627	395.986	339.063
82.5	132.820	136.945	182.318	268.940	453.734	706.999	497.457	308.539	190.568	182.318
85.0	75.072	78.372	97.346	128.695	203.768	312.664	197.168	130.345	96.521	106.421
87.5	39.599	40.424	50.323	64.348	81.672	100.646	73.422	51.973	41.249	39.599
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**

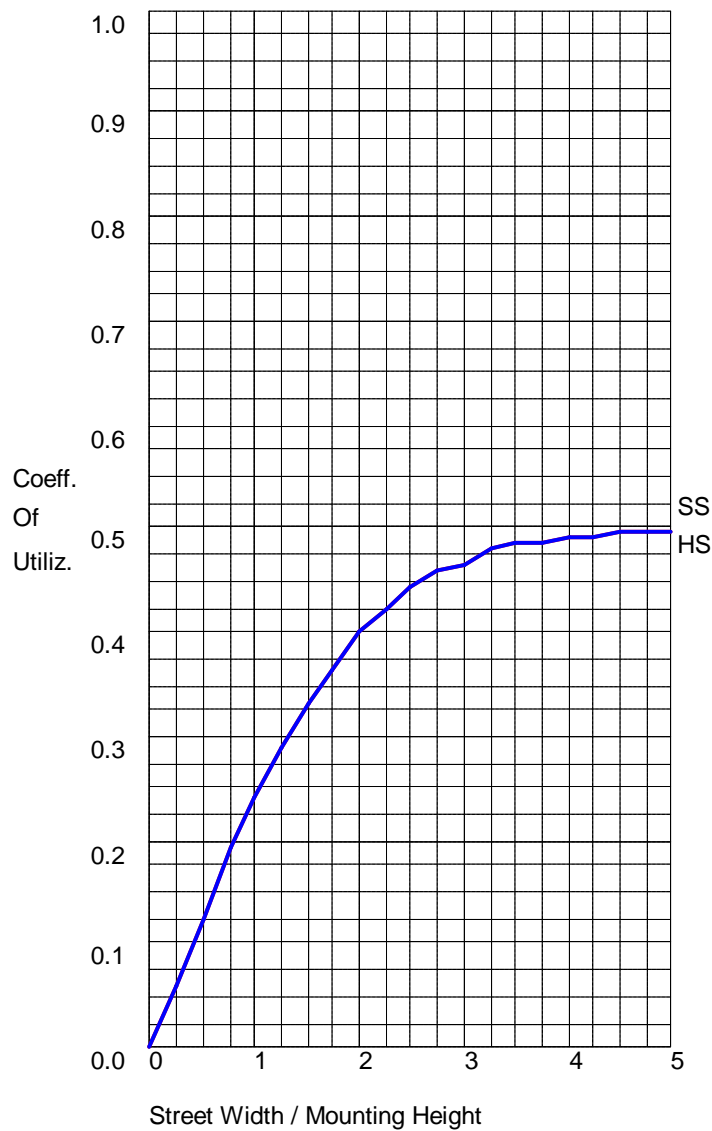
	<u>90</u>
0.0	2211.745
2.5	2210.920
5.0	2220.819
7.5	2238.144
10.0	2272.792
12.5	2325.590
15.0	2399.013
17.5	2488.935
20.0	2590.406
22.5	2703.427
25.0	2825.522
27.5	2966.592

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CANDELA TABULATION - (Cont.)

30.0	3127.461
32.5	3299.055
35.0	3476.424
37.5	3662.042
40.0	3872.409
42.5	4101.751
45.0	4369.866
47.5	4655.306
50.0	4970.444
52.5	5312.807
55.0	5638.670
57.5	6094.053
60.0	6601.410
62.5	7318.309
65.0	8127.605
67.5	9214.090
70.0	8768.606
72.5	5298.782
75.0	1746.462
77.5	560.155
80.0	329.163
82.5	177.369
85.0	102.296
87.5	37.949
90.0	0.000

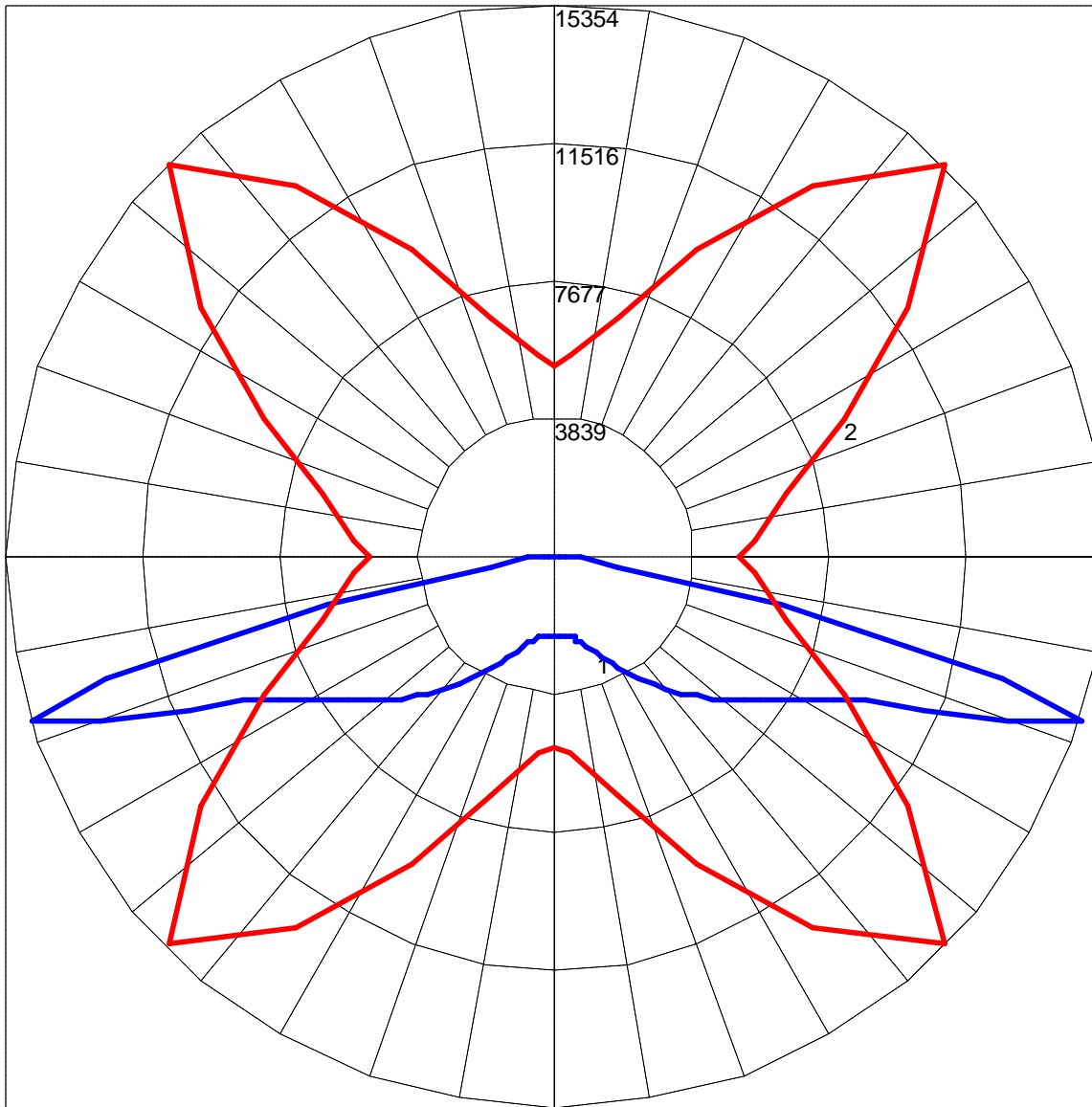
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

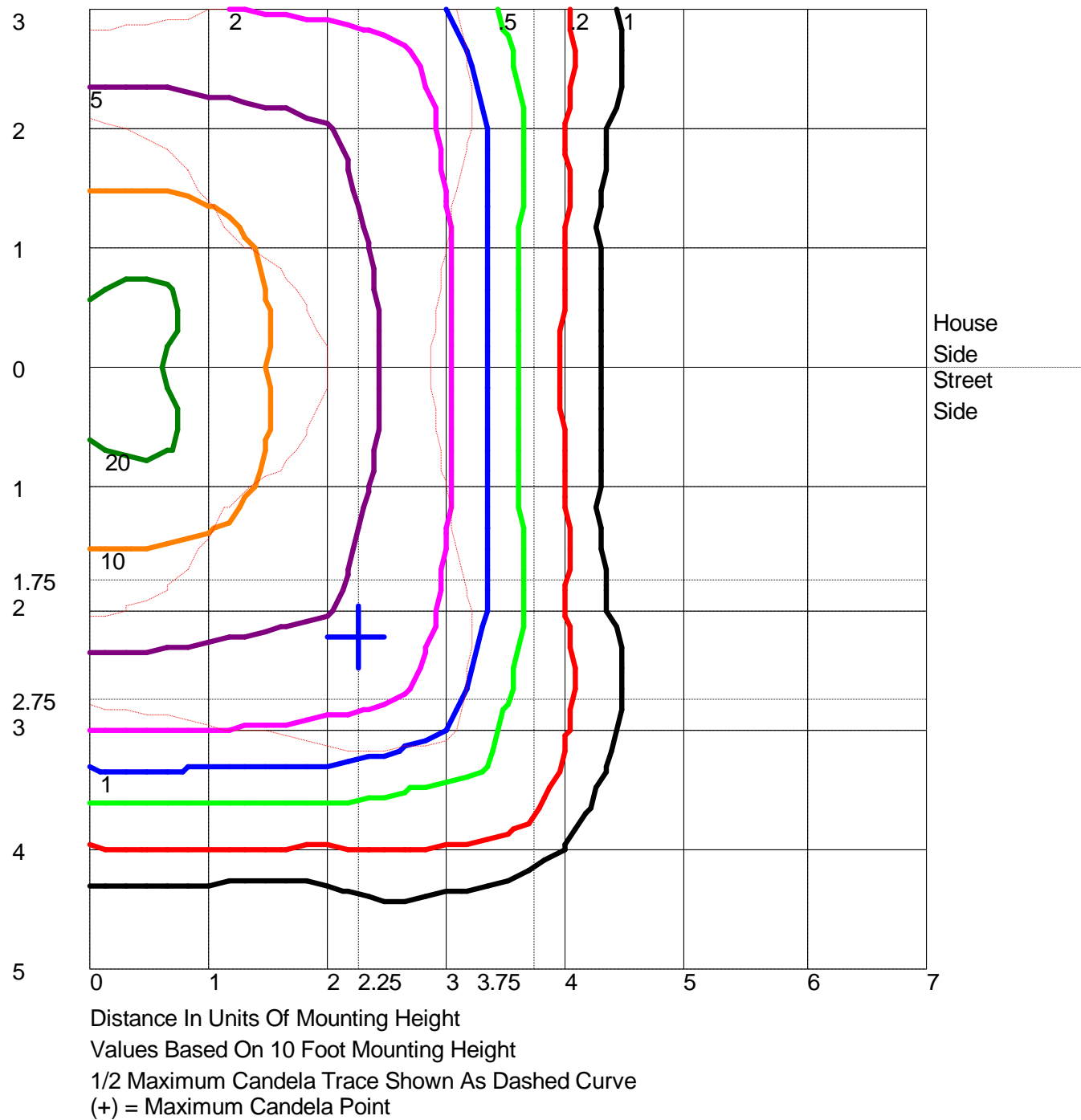
	Lumens	Percent Of Luminaire
Downward Street Side	14547.5	50.0
Downward House Side	14547.5	50.0
Downward Total	29095.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29095.0	100.0

POLAR GRAPH

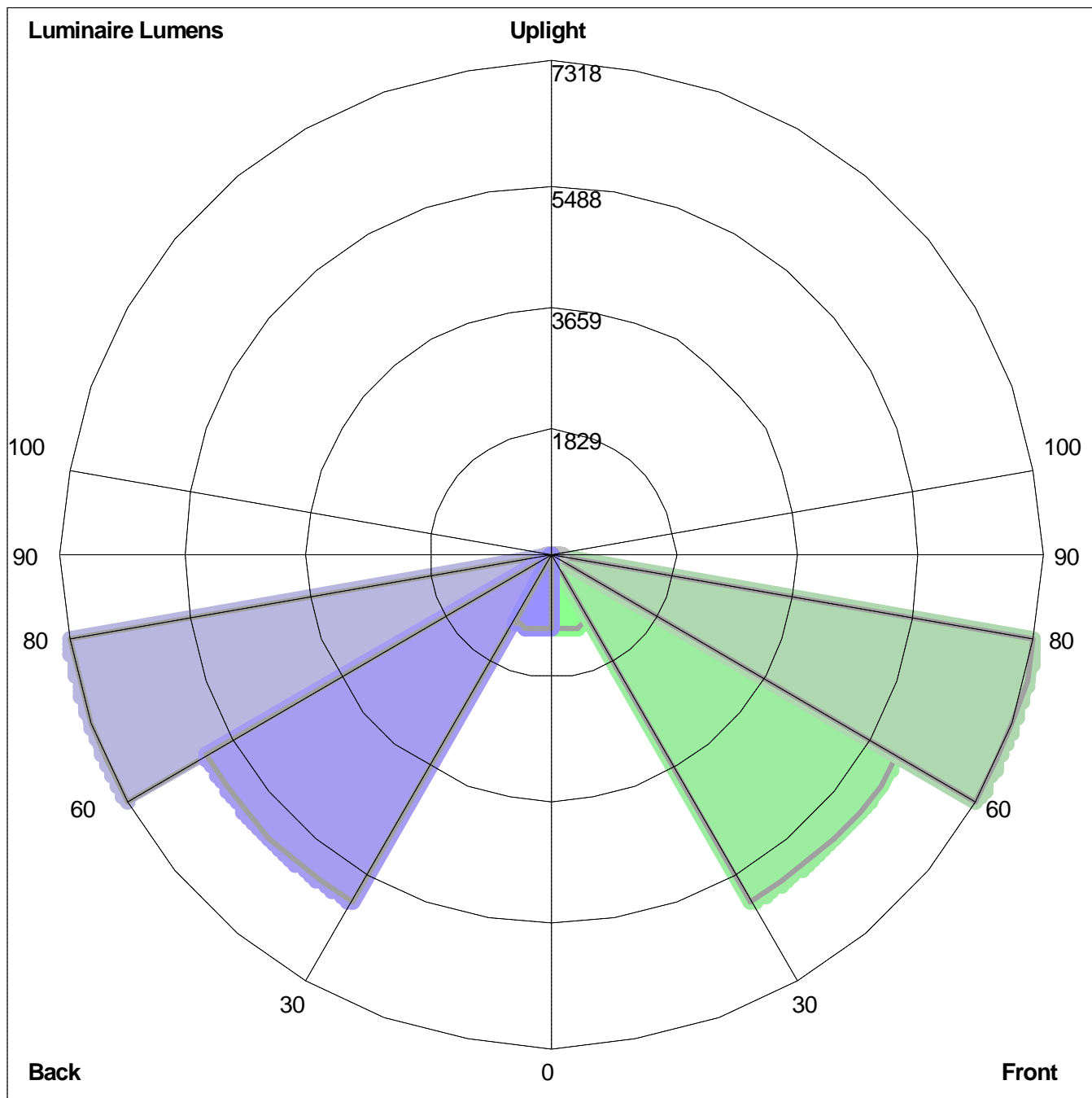


Maximum Candela = 15354.342 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1144.0, Medium=5965.2, High=7317.8, Very High=120.4
Back: Low= 1144.0, Medium=5965.2, High=7317.8, Very High=120.4
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3