



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-35-40.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-35-40

[_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	34332
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	317.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18118.038
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	18118.038
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	2117.276 (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)	1350.0	N.A.	3.9
FM - Front-Medium (30-60)	7038.9	N.A.	20.5
FH - Front-High (60-80)	8634.9	N.A.	25.2
FVH - Front-Very High (80-90)	142.1	N.A.	0.4
BL - Back-Low (0-30)	1350.0	N.A.	3.9
BM - Back-Medium (30-60)	7038.9	N.A.	20.5
BH - Back-High (60-80)	8634.9	N.A.	25.2
BVH - Back-Very High (80-90)	142.1	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	34331.8	N.A.	100.0
BUG Rating	B5-U0-G4		

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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	2609.846	2609.846	2609.846	2609.846	2609.846	2609.846	2609.846	2609.846	2609.846	2609.846
2.5	2607.899	2615.687	2616.661	2620.554	2621.528	2618.607	2619.581	2617.634	2611.793	2612.767
5.0	2602.059	2611.793	2613.740	2620.554	2627.369	2623.475	2627.369	2627.369	2622.501	2624.448
7.5	2596.218	2603.032	2611.793	2622.501	2634.183	2636.130	2644.891	2648.785	2643.917	2645.864
10.0	2615.687	2618.607	2632.236	2646.838	2665.334	2671.174	2681.882	2686.750	2682.856	2684.803
12.5	2672.148	2678.962	2692.590	2707.192	2730.555	2740.290	2749.051	2746.131	2744.184	2747.104
15.0	2773.388	2780.202	2798.698	2822.061	2838.609	2842.503	2845.424	2836.662	2831.795	2833.742
17.5	2896.044	2903.831	2932.062	2969.053	2990.469	2987.549	2974.894	2958.345	2941.796	2943.743
20.0	3030.381	3044.009	3085.868	3140.382	3177.374	3177.374	3147.196	3103.391	3069.319	3064.452
22.5	3172.506	3189.055	3255.250	3333.127	3398.349	3400.296	3347.729	3270.826	3211.445	3193.922
25.0	3325.339	3349.676	3435.340	3545.341	3642.687	3656.316	3585.253	3472.332	3374.012	3339.941
27.5	3494.721	3522.952	3631.006	3777.025	3917.203	3943.487	3859.769	3702.068	3570.651	3508.350
30.0	3671.891	3705.962	3839.326	4033.045	4207.294	4254.020	4159.595	3962.956	3786.759	3705.962
32.5	3862.689	3895.787	4055.434	4294.906	4523.669	4584.023	4486.677	4253.047	4025.257	3910.389
35.0	4054.461	4093.399	4279.330	4569.421	4845.884	4943.230	4833.229	4553.846	4267.649	4128.444
37.5	4264.728	4314.375	4521.722	4860.486	5185.622	5332.614	5197.303	4882.875	4526.589	4350.393
40.0	4491.545	4551.899	4780.662	5162.258	5551.642	5729.786	5575.006	5216.772	4799.158	4586.944
42.5	4765.087	4816.680	5060.045	5487.394	5920.584	6120.143	5956.602	5560.404	5100.930	4864.380
45.0	5073.674	5128.187	5373.499	5838.813	6300.233	6520.235	6357.667	5921.557	5445.535	5180.754
47.5	5443.588	5503.943	5735.626	6212.622	6689.617	6932.982	6764.574	6308.021	5809.609	5527.306
50.0	5826.158	5882.619	6135.718	6608.820	7115.993	7370.066	7188.029	6711.033	6211.648	5900.141
52.5	6192.179	6250.587	6531.917	7018.647	7548.209	7809.096	7621.218	7143.250	6660.413	6288.552
55.0	6625.369	6675.989	6953.425	7437.235	8012.549	8296.800	8083.612	7562.811	7089.709	6703.246
57.5	7135.462	7189.976	7474.226	7914.230	8505.120	8826.362	8588.838	8042.727	7641.661	7245.463
60.0	7717.591	7795.468	8062.196	8463.261	9084.329	9434.775	9180.701	8655.033	8269.543	7855.822
62.5	8498.306	8571.315	8832.203	9140.790	9829.026	10265.136	9913.717	9349.110	9072.647	8681.316
65.0	9287.782	9365.659	9619.732	9998.408	10795.672	11368.066	10956.293	10266.109	9973.098	9633.360
67.5	10071.417	10194.073	10590.272	11112.046	12221.791	13068.701	12420.376	11630.900	11390.456	10949.478
70.0	9727.786	9919.558	10896.911	12123.471	14018.798	15929.700	14496.767	12976.222	11722.406	10490.005
72.5	6145.453	6581.563	7943.434	10579.563	14237.826	18118.038	14899.779	11124.701	8142.993	6549.439
75.0	2153.294	2298.339	3117.019	5431.907	10315.756	15355.358	10777.176	5830.052	3017.726	2096.833
77.5	627.882	644.431	842.043	1493.288	3872.424	7617.325	4167.382	1652.935	833.282	668.767
80.0	339.738	340.711	436.110	612.306	1100.010	2117.276	1241.162	741.777	467.261	400.092
82.5	156.727	161.594	215.135	317.348	535.403	834.255	586.996	364.074	224.869	215.135
85.0	88.585	92.479	114.868	151.860	240.445	368.941	232.657	153.807	113.895	125.576
87.5	46.726	47.700	59.381	75.930	96.373	118.762	86.638	61.328	48.673	46.726
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**

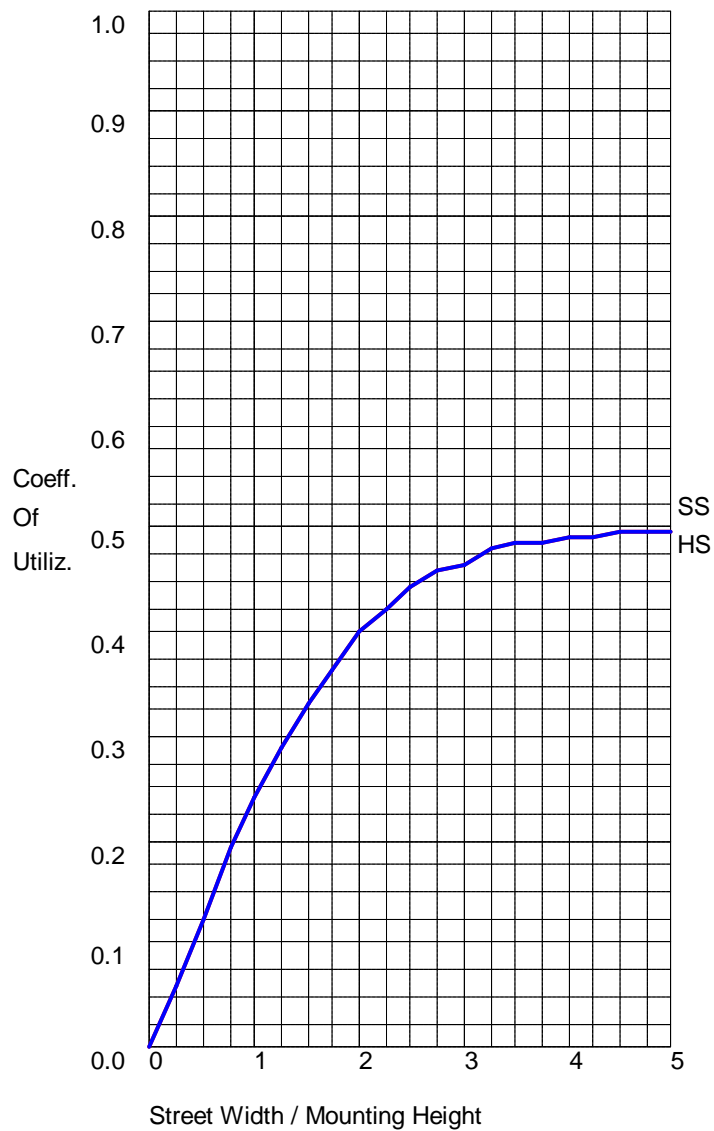
	<u>90</u>
0.0	2609.846
2.5	2608.873
5.0	2620.554
7.5	2640.997
10.0	2681.882
12.5	2744.184
15.0	2830.822
17.5	2936.929
20.0	3056.664
22.5	3190.028
25.0	3334.101
27.5	3500.562

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CANDELA TABULATION - (Cont.)

30.0	3690.387
32.5	3892.867
35.0	4102.161
37.5	4321.189
40.0	4569.421
42.5	4840.043
45.0	5156.418
47.5	5493.235
50.0	5865.097
52.5	6269.083
55.0	6653.599
57.5	7190.949
60.0	7789.627
62.5	8635.564
65.0	9590.528
67.5	10872.575
70.0	10346.907
72.5	6252.534
75.0	2060.815
77.5	660.979
80.0	388.411
82.5	209.294
85.0	120.709
87.5	44.779
90.0	0.000

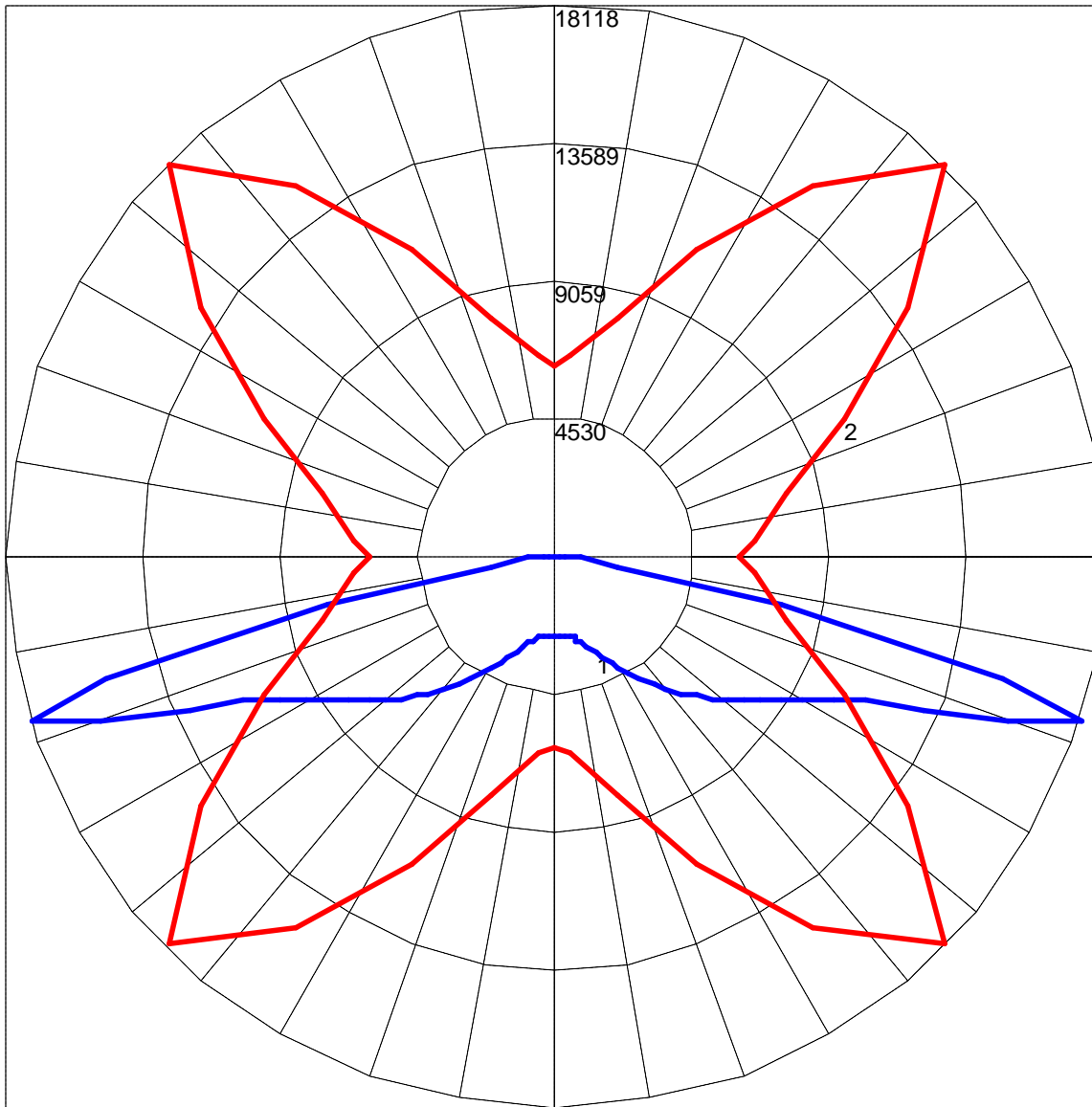
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

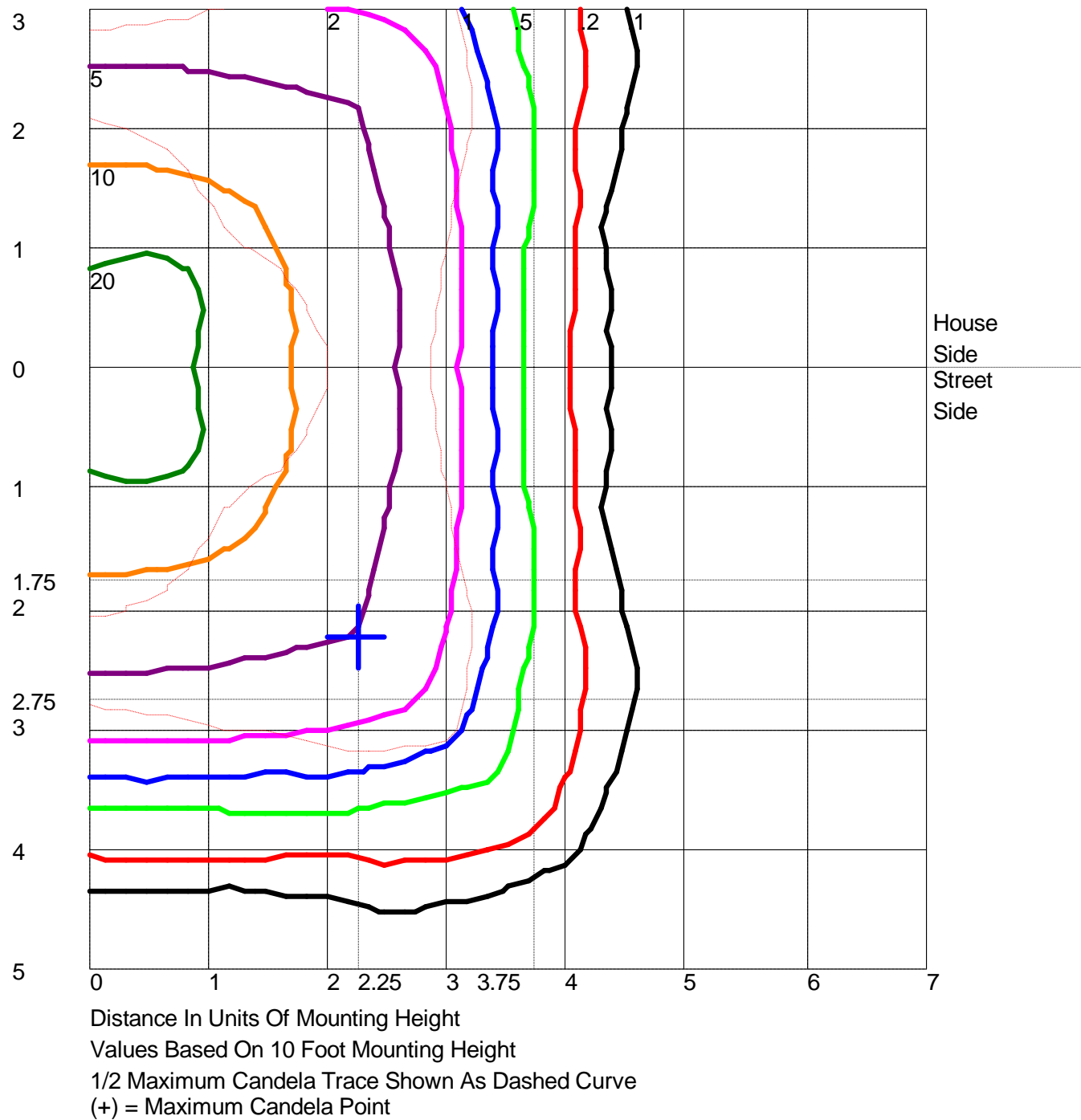
	Lumens	Percent Of Luminaire
Downward Street Side	17166.0	50.0
Downward House Side	17166.0	50.0
Downward Total	34332.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	34332.0	100.0

POLAR GRAPH

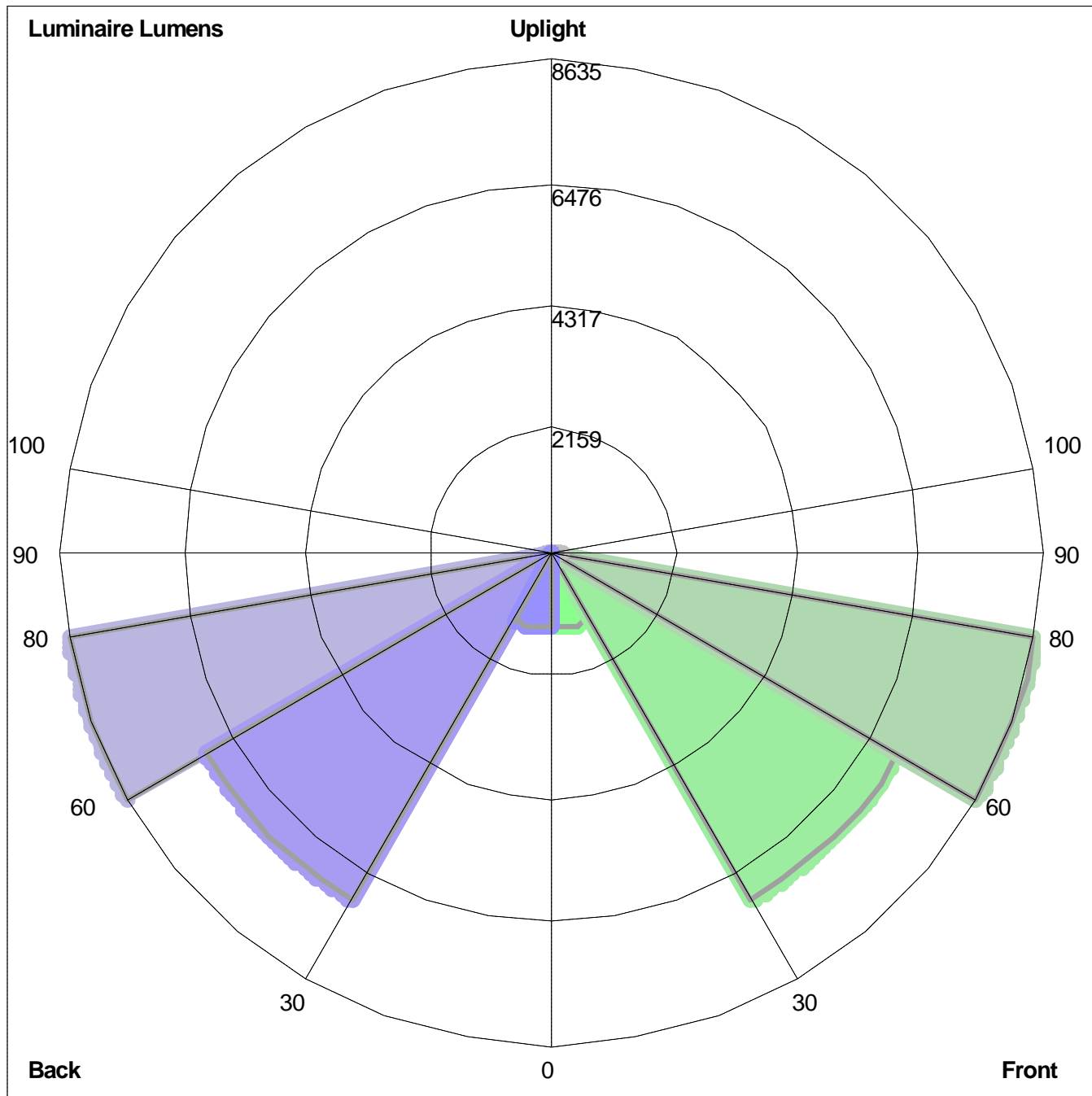


Maximum Candela = 18118.038 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1350.0, Medium=7038.9, High=8634.9, Very High=142.1
Back: Low= 1350.0, Medium=7038.9, High=8634.9, Very High=142.1
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4