



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-29-40.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
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XMR-5W-LED-29-40
[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	27932
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	244
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14740.518
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	14740.518
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	1722.578 (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)	1098.3	N.A.	3.9
FM - Front-Medium (30-60)	5726.8	N.A.	20.5
FH - Front-High (60-80)	7025.2	N.A.	25.2
FVH - Front-Very High (80-90)	115.6	N.A.	0.4
BL - Back-Low (0-30)	1098.3	N.A.	3.9
BM - Back-Medium (30-60)	5726.8	N.A.	20.5
BH - Back-High (60-80)	7025.2	N.A.	25.2
BVH - Back-Very High (80-90)	115.6	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	27931.8	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	2123.325	2123.325	2123.325	2123.325	2123.325	2123.325	2123.325	2123.325	2123.325	2123.325
2.5	2121.741	2128.077	2128.869	2132.037	2132.829	2130.453	2131.245	2129.661	2124.909	2125.701
5.0	2116.989	2124.909	2126.493	2132.037	2137.581	2134.413	2137.581	2137.581	2133.621	2135.205
7.5	2112.237	2117.781	2124.909	2133.621	2143.125	2144.709	2151.837	2155.005	2151.045	2152.629
10.0	2128.077	2130.453	2141.541	2153.421	2168.469	2173.221	2181.932	2185.892	2182.724	2184.308
12.5	2174.013	2179.556	2190.644	2202.524	2221.532	2229.452	2236.580	2234.204	2232.620	2234.996
15.0	2256.379	2261.923	2276.971	2295.979	2309.443	2312.611	2314.987	2307.859	2303.899	2305.483
17.5	2356.170	2362.506	2385.474	2415.569	2432.993	2430.617	2420.321	2406.858	2393.394	2394.978
20.0	2465.465	2476.553	2510.608	2554.960	2585.055	2585.055	2560.504	2524.864	2497.144	2493.184
22.5	2581.095	2594.559	2648.415	2711.774	2764.837	2766.421	2723.654	2661.086	2612.775	2598.519
25.0	2705.438	2725.238	2794.933	2884.428	2963.627	2974.714	2916.899	2825.028	2745.037	2717.318
27.5	2843.244	2866.212	2954.123	3072.921	3186.968	3208.351	3140.240	3011.938	2905.019	2854.332
30.0	2987.386	3015.106	3123.608	3281.214	3422.981	3460.996	3384.173	3224.191	3080.841	3015.106
32.5	3142.616	3169.544	3299.430	3494.260	3680.377	3729.481	3650.282	3460.204	3274.879	3181.424
35.0	3298.638	3330.318	3481.588	3717.601	3942.526	4021.725	3932.230	3704.929	3472.084	3358.830
37.5	3469.708	3510.100	3678.793	3954.406	4218.931	4338.521	4228.435	3972.622	3682.753	3539.403
40.0	3654.242	3703.345	3889.463	4199.923	4516.719	4661.653	4535.727	4244.274	3904.511	3731.857
42.5	3876.791	3918.766	4116.764	4464.448	4816.883	4979.241	4846.187	4523.847	4150.028	3957.574
45.0	4127.852	4172.203	4371.785	4750.356	5125.759	5304.749	5172.487	4817.675	4430.392	4214.971
47.5	4428.808	4477.911	4666.405	5054.480	5442.555	5640.553	5503.538	5132.095	4726.596	4496.919
50.0	4740.060	4785.995	4991.913	5376.820	5789.447	5996.156	5848.054	5459.979	5053.688	4800.251
52.5	5037.848	5085.368	5314.253	5710.248	6141.090	6353.344	6200.490	5811.622	5418.795	5116.255
55.0	5390.284	5431.467	5657.184	6050.803	6518.870	6750.131	6576.685	6152.970	5768.063	5453.643
57.5	5805.287	5849.638	6080.899	6438.879	6919.616	7180.973	6987.728	6543.421	6217.121	5894.781
60.0	6278.897	6342.256	6559.261	6885.561	7390.851	7675.967	7469.258	7041.583	6727.955	6391.359
62.5	6914.073	6973.472	7185.725	7436.786	7996.723	8351.534	8065.626	7606.272	7381.347	7062.967
65.0	7556.376	7619.736	7826.445	8134.529	8783.169	9248.859	8913.847	8352.326	8113.937	7837.533
67.5	8193.928	8293.719	8616.059	9040.566	9943.434	10632.466	10105.000	9462.696	9267.075	8908.303
70.0	7914.356	8070.378	8865.536	9863.443	11405.448	12960.124	11794.315	10557.226	9537.143	8534.484
72.5	4999.833	5354.644	6462.638	8607.347	11583.645	14740.518	12122.199	9050.862	6624.996	5328.509
75.0	1751.882	1869.888	2535.952	4419.304	8392.718	12492.850	8768.121	4743.228	2455.169	1705.946
77.5	510.834	524.297	685.071	1214.913	3150.536	6197.322	3390.509	1344.799	677.943	544.097
80.0	276.405	277.196	354.812	498.162	894.949	1722.578	1009.787	603.496	380.155	325.508
82.5	127.510	131.470	175.030	258.189	435.594	678.735	477.570	296.204	182.950	175.030
85.0	72.071	75.239	93.455	123.550	195.622	300.164	189.286	125.134	92.663	102.167
87.5	38.016	38.808	48.311	61.775	78.407	96.623	70.487	49.895	39.599	38.016
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**

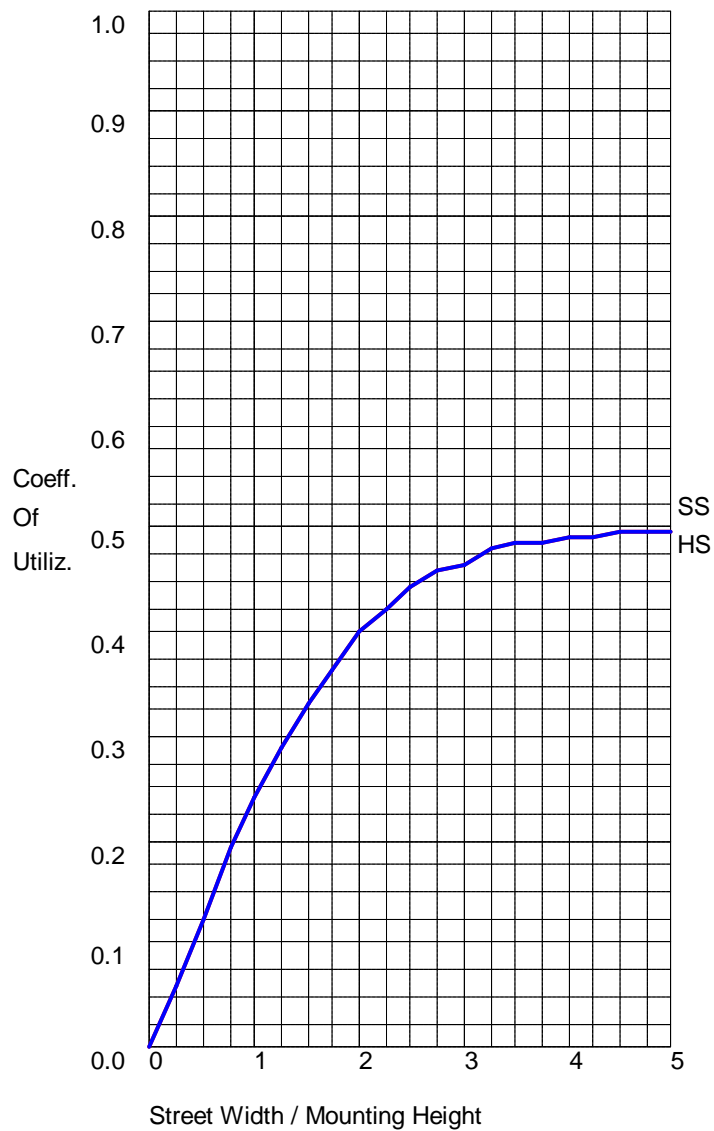
	<u>90</u>
0.0	2123.325
2.5	2122.533
5.0	2132.037
7.5	2148.669
10.0	2181.932
12.5	2232.620
15.0	2303.107
17.5	2389.434
20.0	2486.849
22.5	2595.351
25.0	2712.566
27.5	2847.996

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CANDELA TABULATION - (Cont.)

30.0	3002.434
32.5	3167.168
35.0	3337.446
37.5	3515.644
40.0	3717.601
42.5	3937.774
45.0	4195.171
47.5	4469.199
50.0	4771.740
52.5	5100.415
55.0	5413.252
57.5	5850.430
60.0	6337.504
62.5	7025.743
65.0	7802.685
67.5	8845.736
70.0	8418.062
72.5	5086.952
75.0	1676.643
77.5	537.761
80.0	316.004
82.5	170.278
85.0	98.207
87.5	36.432
90.0	0.000

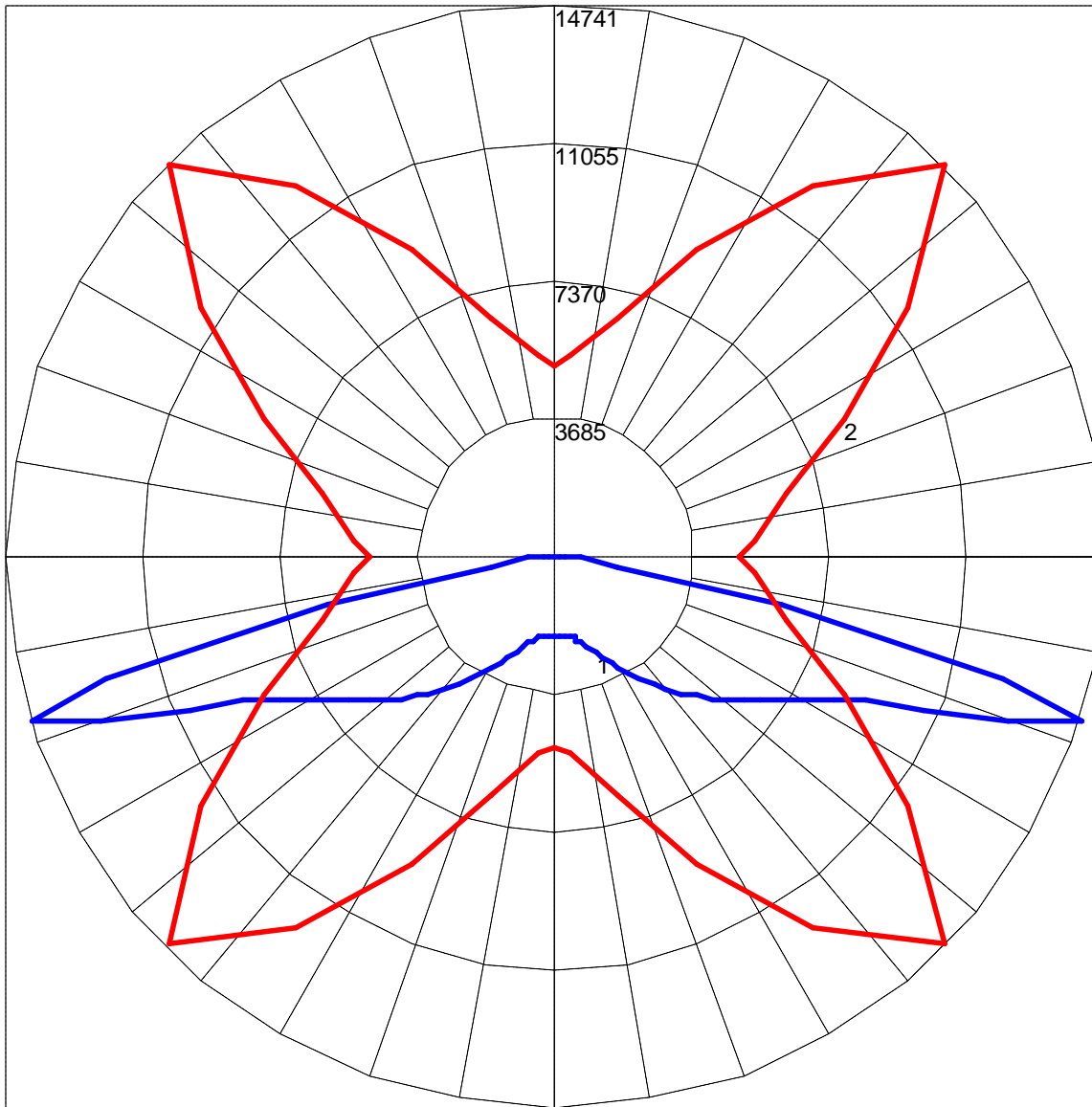
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

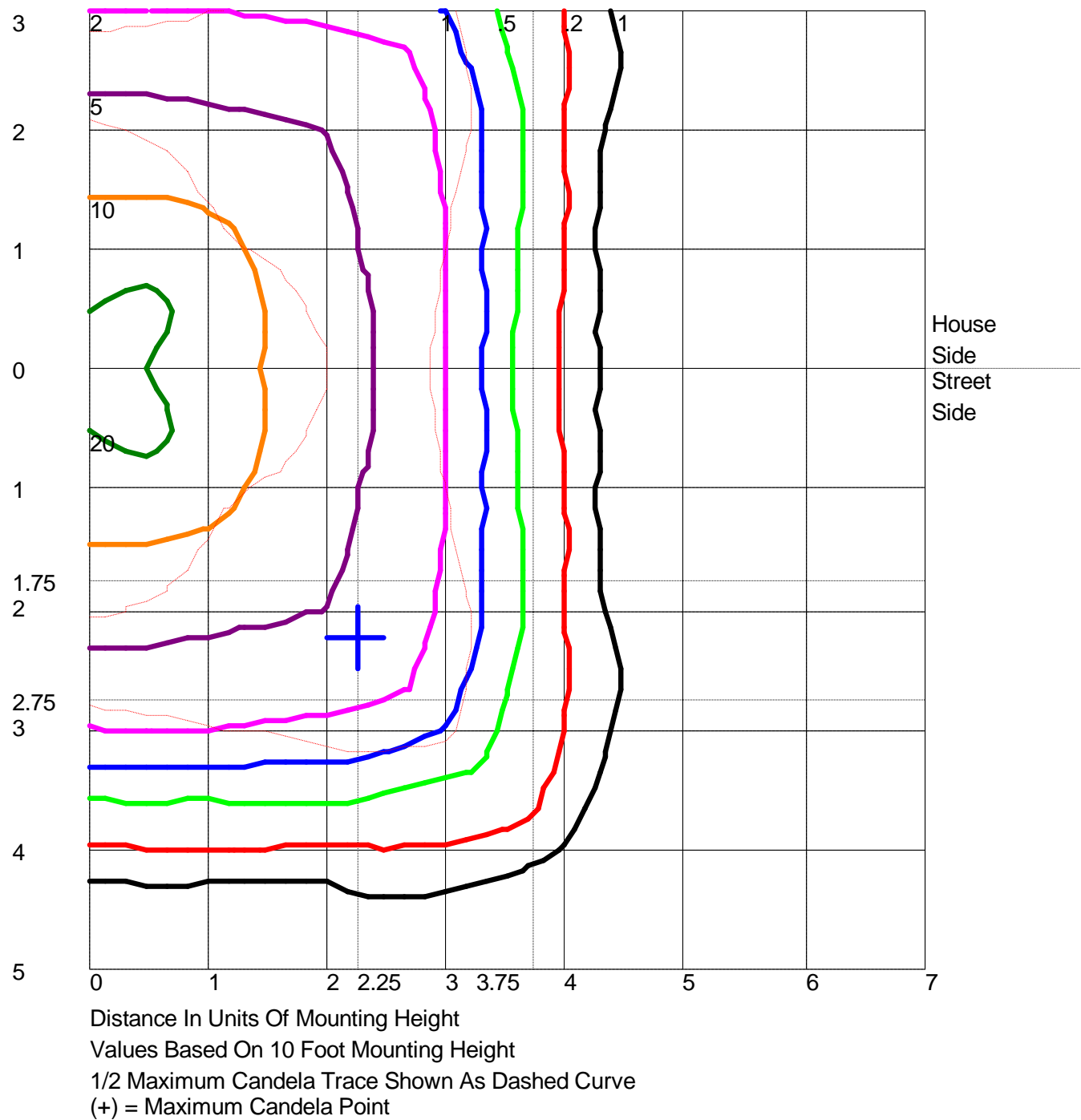
	Lumens	Percent Of Luminaire
Downward Street Side	13965.9	50.0
Downward House Side	13965.9	50.0
Downward Total	27931.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27931.8	100.0

POLAR GRAPH

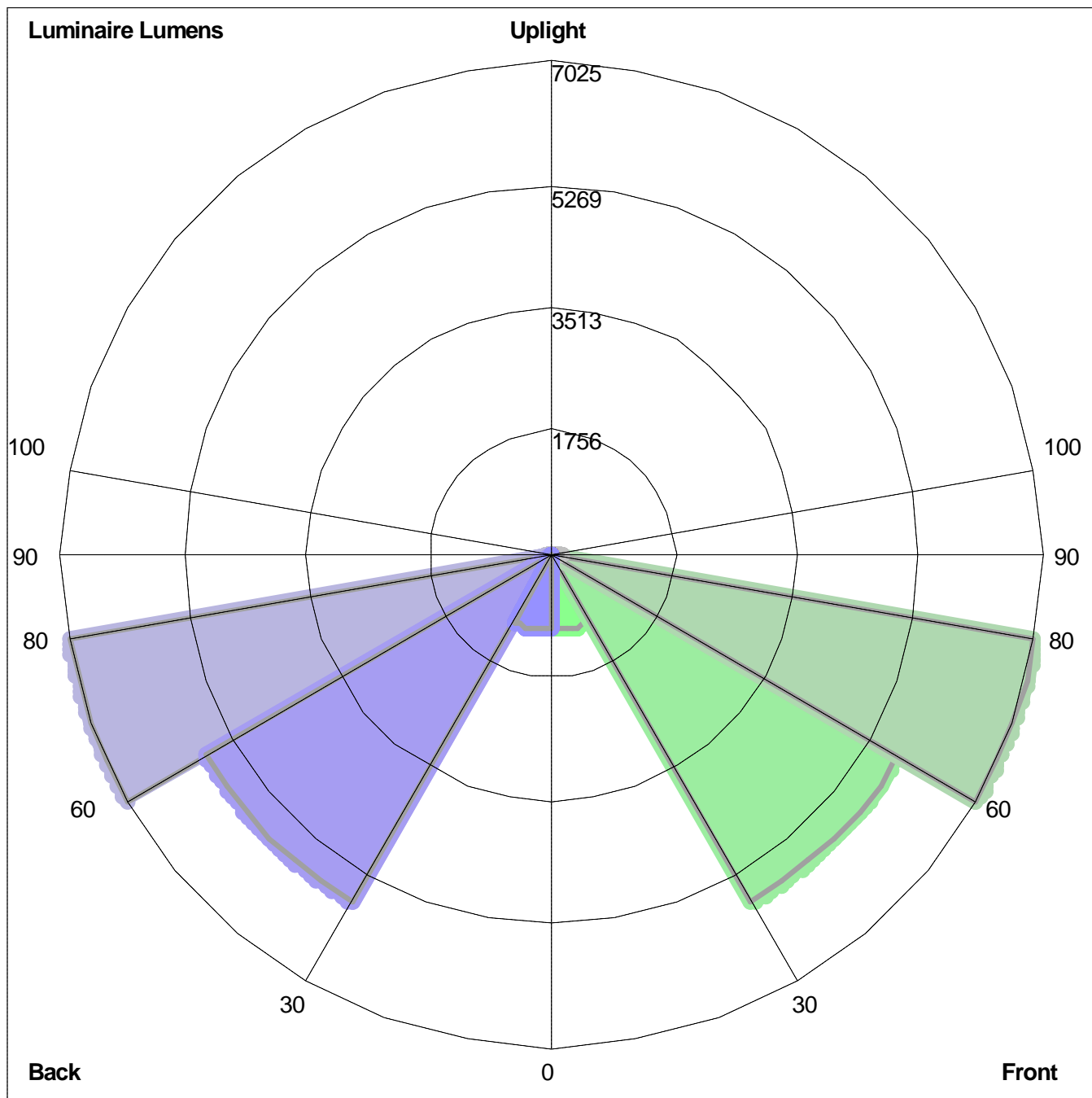


Maximum Candela = 14740.518 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1098.3, Medium=5726.8, High=7025.2, Very High=115.6
Back: Low=1098.3, Medium=5726.8, High=7025.2, Very High=115.6
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3