

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00326_4 ~ AR1214GV-15L35K-EXTF1-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00326_4_M-15L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 2/2/2018
 [UPDATE] 7/2/2018
 [LUMCAT] AR1214GV-15L-35K-EX-TF1-MWI
 [LUMINAIRE] Angled Reflector 12" Nom. Diam Open Aperture x 14" H
 [OTHER] Regressed, partially obscuring, shallow dome diffuser
 [OTHER] Reflector: Matte White interior finish
 [LAMP] N/A, Gen3
 [LAMPCAT] N/A
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03, 50K x 1.06
 [OTHER] This report generated by Spectrum Lighting, scaled from 27L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.03 ft (Diameter)
Luminous Width (90-270)	1.03 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00326_4 ~ AR1214GV-15L35K-EXTF1-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2909	239	64
55	1571	87	30
65	1090	28	36
75	854	67	76
85	713	215	307

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CANDELA TABULATION

	<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	516.199	516.199	516.199	516.199	516.199	516.199	516.199	516.199	516.199	516.199
2.5	515.444	511.127	507.655	503.237	501.476	507.359	507.385	509.412	511.478	514.120
5.0	514.689	506.054	499.110	490.275	486.753	498.519	498.571	502.625	506.757	512.041
7.5	508.648	495.717	482.080	460.924	452.073	474.537	478.101	489.436	497.458	506.102
10.0	502.606	485.379	465.049	431.572	417.392	450.554	457.630	476.246	488.158	500.163
12.5	492.388	468.434	428.268	368.488	345.697	393.484	414.817	454.944	474.801	491.364
15.0	482.169	451.488	391.487	305.403	274.002	336.413	372.004	433.641	461.443	482.564
17.5	468.531	422.587	328.229	230.831	200.454	257.660	304.213	396.580	444.660	470.924
20.0	454.893	393.686	264.970	156.258	126.905	178.906	236.422	359.519	427.877	459.284
22.5	438.398	346.223	201.793	112.462	90.597	127.572	176.639	303.886	406.327	446.676
25.0	421.902	298.759	138.615	68.665	54.288	76.237	116.855	248.253	384.776	434.067
27.5	402.148	242.945	103.389	51.359	40.126	56.497	86.910	194.349	354.602	421.349
30.0	382.394	187.131	68.162	34.052	25.964	36.757	56.964	140.445	324.428	408.631
32.5	353.730	145.843	52.632	25.883	19.932	27.798	44.161	108.678	282.739	395.462
35.0	325.066	104.555	37.102	17.714	13.899	18.838	31.357	76.910	241.050	382.292
37.5	284.443	83.604	29.298	13.801	10.643	14.518	24.663	61.849	198.361	367.798
40.0	243.819	62.652	21.493	9.888	7.387	10.198	17.968	46.788	155.671	353.304
42.5	200.818	51.060	17.220	7.549	5.435	7.427	14.532	38.310	126.126	332.398
45.0	157.816	39.467	12.947	5.210	3.483	4.656	11.095	29.832	96.580	311.492
47.5	127.731	32.338	10.065	3.609	2.569	3.410	8.399	24.441	81.029	280.814
50.0	97.646	25.209	7.183	2.008	1.654	2.163	5.702	19.049	65.478	250.135
52.5	83.399	21.016	5.510	1.613	1.490	1.598	4.026	15.335	56.339	213.854
55.0	69.151	16.823	3.837	1.218	1.325	1.032	2.350	11.620	47.199	177.573
57.5	58.826	13.878	2.724	1.284	1.133	1.126	1.652	8.803	40.035	149.881
60.0	48.502	10.932	1.610	1.349	0.941	1.220	0.954	5.986	32.871	122.189
62.5	41.923	8.420	1.264	1.323	1.062	1.279	1.015	4.544	28.000	106.573
65.0	35.343	5.907	0.917	1.297	1.182	1.337	1.075	3.101	23.129	90.956
67.5	30.124	4.080	1.023	1.268	1.222	1.135	1.087	1.991	19.260	80.484
70.0	24.905	2.252	1.128	1.238	1.261	0.933	1.099	0.880	15.391	70.011
72.5	20.931	1.755	1.228	1.342	1.382	0.972	0.969	0.921	12.211	60.773
75.0	16.956	1.258	1.328	1.445	1.502	1.010	0.838	0.962	9.030	51.534
77.5	13.740	1.255	1.455	1.559	1.548	1.139	0.990	1.060	6.574	44.348
80.0	10.523	1.251	1.581	1.673	1.594	1.268	1.141	1.158	4.118	37.161
82.5	7.647	1.072	1.509	1.821	1.825	1.220	1.068	1.112	2.690	32.192
85.0	4.771	0.893	1.437	1.969	2.055	1.172	0.994	1.065	1.261	27.222
87.5	3.187	1.040	1.744	1.867	2.223	1.167	1.063	1.004	0.935	22.202
90.0	1.603	1.187	2.051	1.764	2.390	1.162	1.131	0.942	0.609	17.181
92.5	1.448	1.321	1.943	1.754	2.608	1.215	1.246	1.000	0.751	12.570
95.0	1.293	1.454	1.834	1.744	2.825	1.268	1.361	1.058	0.892	7.958
97.5	1.356	1.527	1.911	2.131	2.712	1.273	1.396	1.198	0.883	5.576
100.0	1.418	1.600	1.988	2.518	2.599	1.278	1.431	1.337	0.874	3.194
102.5	1.348	1.714	1.890	2.179	2.585	1.319	1.413	1.344	0.879	2.146
105.0	1.277	1.827	1.792	1.840	2.571	1.359	1.395	1.351	0.883	1.098
107.5	1.343	1.707	1.829	1.959	2.543	1.424	1.299	1.196	0.917	0.995
110.0	1.408	1.586	1.865	2.078	2.514	1.488	1.202	1.041	0.950	0.892
112.5	1.524	1.636	1.989	2.028	2.569	1.554	1.133	1.186	0.933	0.869
115.0	1.640	1.686	2.112	1.977	2.623	1.620	1.064	1.331	0.915	0.846
117.5	1.658	1.855	2.016	1.983	2.564	1.746	1.157	1.240	0.830	0.954
120.0	1.676	2.023	1.920	1.989	2.505	1.871	1.250	1.148	0.745	1.062
122.5	1.637	2.063	1.895	2.090	2.671	1.802	1.305	1.143	0.829	1.075
125.0	1.598	2.103	1.869	2.191	2.836	1.733	1.359	1.138	0.913	1.088

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CANDELA TABULATION - (Cont.)

127.5	1.574	1.963	1.820	2.123	2.856	1.888	1.296	1.185	0.852	0.975
130.0	1.549	1.822	1.770	2.055	2.875	2.043	1.233	1.232	0.791	0.861
132.5	1.634	1.669	1.708	1.859	2.675	2.069	1.172	1.114	0.901	0.916
135.0	1.718	1.516	1.646	1.662	2.475	2.094	1.110	0.995	1.010	0.970
137.5	1.837	1.421	1.655	1.789	2.400	2.095	1.272	1.055	1.090	0.993
140.0	1.956	1.326	1.663	1.916	2.324	2.095	1.433	1.115	1.170	1.016
142.5	1.784	1.308	1.620	1.984	2.157	1.952	1.542	1.206	1.103	1.056
145.0	1.612	1.289	1.576	2.051	1.989	1.809	1.651	1.297	1.035	1.096
147.5	1.590	1.400	1.564	1.986	1.959	1.716	1.580	1.262	1.003	1.095
150.0	1.567	1.510	1.552	1.921	1.928	1.622	1.508	1.227	0.970	1.094
152.5	1.554	1.633	1.387	1.841	1.870	1.729	1.595	1.221	1.058	0.970
155.0	1.541	1.756	1.222	1.761	1.811	1.835	1.681	1.215	1.146	0.846
157.5	1.555	1.724	1.217	1.603	1.731	1.880	1.731	1.109	1.084	0.944
160.0	1.568	1.691	1.211	1.444	1.651	1.925	1.781	1.003	1.021	1.042
162.5	1.566	1.556	1.196	1.398	1.573	2.062	1.774	0.935	1.063	1.057
165.0	1.563	1.421	1.180	1.351	1.495	2.199	1.767	0.866	1.104	1.072
167.5	1.473	1.314	1.260	1.212	1.461	1.933	1.549	1.016	1.195	1.143
170.0	1.383	1.207	1.340	1.072	1.427	1.666	1.331	1.166	1.286	1.214
172.5	1.368	1.218	1.330	1.172	1.346	2.057	1.583	1.346	1.352	1.298
175.0	1.352	1.228	1.320	1.272	1.265	2.448	1.835	1.525	1.418	1.381
177.5	1.375	1.313	1.359	1.335	1.332	1.923	1.617	1.462	1.408	1.390
180.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Vert. 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	516.199	516.199	516.199	516.199	516.199	516.199	516.199
2.5	516.922	519.612	521.107	522.006	520.312	517.629	515.444
5.0	517.644	523.024	526.015	527.812	524.424	519.059	514.689
7.5	514.526	522.693	526.844	526.852	522.546	515.083	508.648
10.0	511.408	522.362	527.672	525.891	520.667	511.106	502.606
12.5	504.867	517.653	524.930	521.328	514.535	503.298	492.388
15.0	498.326	512.944	522.187	516.764	508.402	495.490	482.169
17.5	489.102	506.769	518.473	511.423	500.404	485.209	468.531
20.0	479.877	500.593	514.759	506.082	492.405	474.928	454.893
22.5	470.915	495.404	514.459	502.815	483.737	463.551	438.398
25.0	461.952	490.214	514.158	499.548	475.069	452.173	421.902
27.5	452.823	485.437	516.850	496.909	465.976	439.594	402.148
30.0	443.693	480.660	519.541	494.269	456.883	427.014	382.394
32.5	433.707	474.775	517.366	488.223	447.257	415.133	353.730
35.0	423.720	468.890	515.191	482.176	437.631	403.251	325.066
37.5	412.605	459.680	504.719	471.814	426.892	389.516	284.443
40.0	401.490	450.470	494.247	461.452	416.153	375.781	243.819
42.5	387.526	436.783	479.121	446.822	402.562	359.966	200.818
45.0	373.562	423.096	463.995	432.192	388.970	344.151	157.816
47.5	358.007	406.319	445.712	414.317	374.221	323.839	127.731
50.0	342.453	389.542	427.429	396.442	359.472	303.526	97.646
52.5	324.493	372.015	406.391	377.299	342.251	275.007	83.399
55.0	306.533	354.489	385.352	358.155	325.029	246.487	69.151
57.5	285.847	335.285	363.831	338.720	305.875	212.270	58.826
60.0	265.161	316.082	342.311	319.285	286.722	178.053	48.502
62.5	244.448	298.305	322.871	300.558	266.368	151.146	41.923
65.0	223.735	280.528	303.430	281.830	246.014	124.238	35.343

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67.5	202.649	263.538	286.689	265.671	227.871	108.971	30.124
70.0	181.563	246.548	269.948	249.512	209.728	93.703	24.905
72.5	163.270	231.924	254.748	235.533	190.934	83.042	20.931
75.0	144.978	217.301	239.548	221.553	172.140	72.380	16.956
77.5	129.457	204.490	227.918	208.219	155.496	62.696	13.740
80.0	113.937	191.679	216.287	194.884	138.852	53.012	10.523
82.5	100.858	178.016	204.740	181.701	124.097	45.680	7.647
85.0	87.780	164.353	193.192	168.517	109.341	38.347	4.771
87.5	76.840	149.680	179.910	154.803	96.553	32.693	3.187
90.0	65.899	135.007	166.628	141.088	83.765	27.038	1.603
92.5	56.601	120.154	151.712	125.749	71.844	21.963	1.448
95.0	47.303	105.301	136.795	110.409	59.923	16.887	1.293
97.5	39.308	91.145	120.532	95.186	50.938	12.635	1.356
100.0	31.313	76.989	104.269	79.962	41.953	8.383	1.418
102.5	25.157	65.041	88.489	67.311	34.891	5.669	1.348
105.0	19.000	53.094	72.709	54.659	27.829	2.954	1.277
107.5	13.652	43.743	60.239	45.094	21.713	2.158	1.343
110.0	8.304	34.392	47.769	35.529	15.596	1.362	1.408
112.5	5.469	25.998	38.248	27.838	10.845	1.394	1.524
115.0	2.634	17.603	28.727	20.147	6.093	1.426	1.640
117.5	1.767	12.125	21.034	14.127	4.026	1.507	1.658
120.0	0.900	6.647	13.340	8.106	1.959	1.587	1.676
122.5	0.864	4.119	8.606	5.222	1.762	1.387	1.637
125.0	0.828	1.590	3.871	2.337	1.565	1.187	1.598
127.5	0.798	1.179	2.495	2.110	1.543	1.216	1.574
130.0	0.768	0.767	1.119	1.883	1.520	1.245	1.549
132.5	0.862	0.820	1.053	1.818	1.685	1.347	1.634
135.0	0.956	0.873	0.986	1.753	1.850	1.449	1.718
137.5	1.000	0.954	1.101	1.712	1.889	1.609	1.837
140.0	1.043	1.034	1.216	1.670	1.927	1.768	1.956
142.5	0.979	1.087	1.134	1.829	1.991	1.866	1.784
145.0	0.914	1.140	1.051	1.987	2.054	1.963	1.612
147.5	1.125	1.253	1.021	1.982	2.111	1.782	1.590
150.0	1.336	1.365	0.991	1.976	2.168	1.601	1.567
152.5	1.362	1.302	1.131	2.099	2.017	1.556	1.554
155.0	1.388	1.239	1.270	2.221	1.865	1.510	1.541
157.5	1.233	1.357	1.234	2.352	1.800	1.319	1.555
160.0	1.077	1.474	1.198	2.482	1.735	1.128	1.568
162.5	1.087	1.307	1.248	2.239	1.685	1.495	1.566
165.0	1.097	1.140	1.298	1.996	1.635	1.861	1.563
167.5	1.218	1.183	1.344	2.169	1.729	1.755	1.473
170.0	1.339	1.226	1.390	2.341	1.822	1.648	1.383
172.5	1.404	1.211	1.483	2.325	1.716	1.556	1.368
175.0	1.469	1.196	1.576	2.309	1.610	1.464	1.352
177.5	1.434	1.297	1.487	1.854	1.504	1.431	1.375
180.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000

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Zone	Lumens	%Lamp	%Fixt
0-20	169.86	N.A.	16.20
0-30	318.88	N.A.	30.40
0-40	474.95	N.A.	45.30
0-60	753.90	N.A.	71.80
0-80	932.03	N.A.	88.80
0-90	987.04	N.A.	94.10
10-90	939.21	N.A.	89.50
20-40	305.09	N.A.	29.10
20-50	454.84	N.A.	43.30
40-70	380.35	N.A.	36.20
60-80	178.13	N.A.	17.00
70-80	76.73	N.A.	7.30
80-90	55.01	N.A.	5.20
90-110	50.99	N.A.	4.90
90-120	57.11	N.A.	5.40
90-130	58.93	N.A.	5.60
90-150	61.03	N.A.	5.80
90-180	62.28	N.A.	5.90
110-180	11.29	N.A.	1.10
0-180	1049.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.83
10-20	122.03
20-30	149.02
30-40	156.07
40-50	149.75
50-60	129.20
60-70	101.40
70-80	76.73
80-90	55.01
90-100	34.24
100-110	16.75
110-120	6.12
120-130	1.82
130-140	1.14
140-150	0.96
150-160	0.70
160-170	0.41
170-180	0.14

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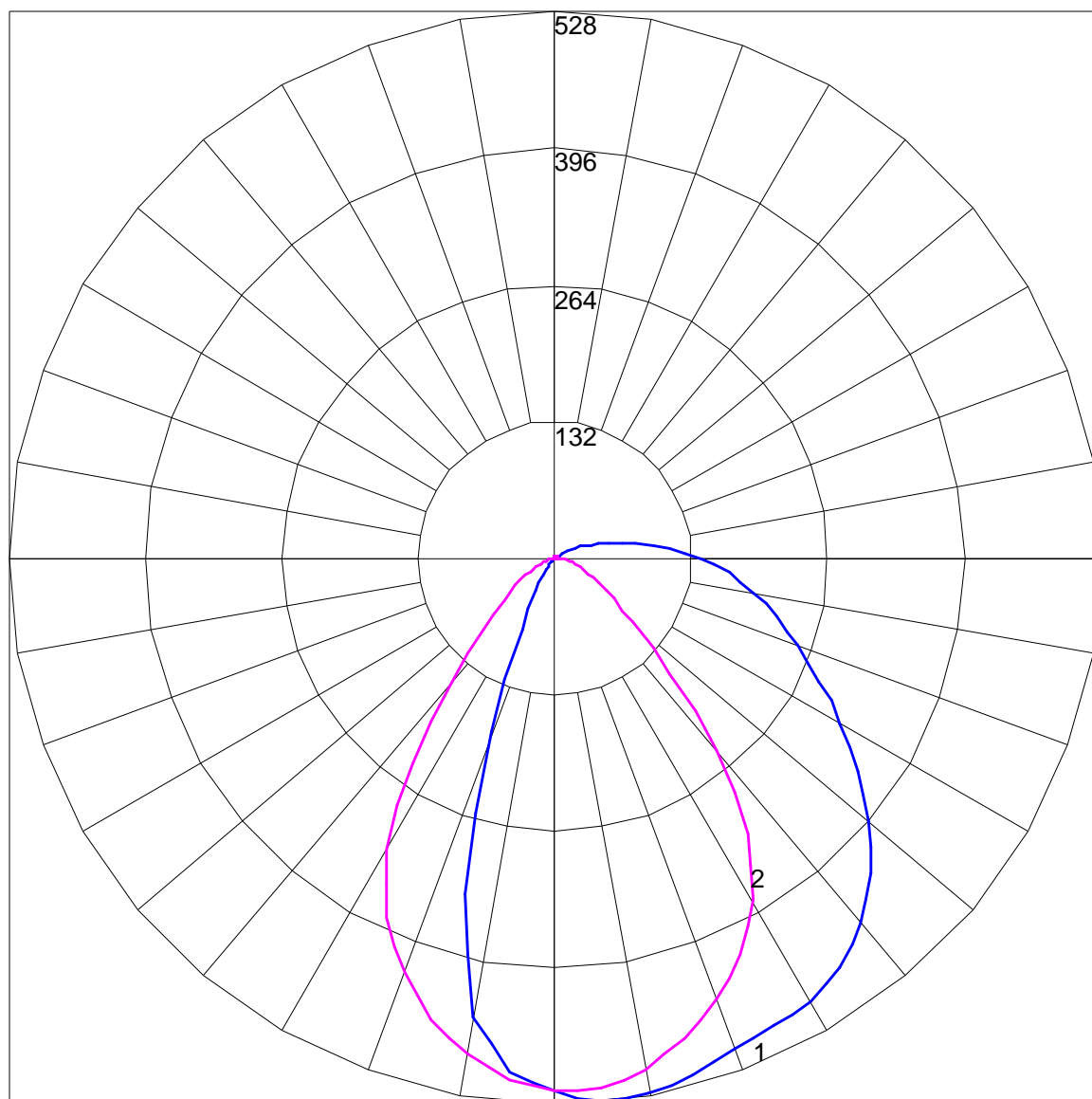
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	101	97	92	103	98	94	90	93	90	86	88	85	83	83	81	79	77
2	97	89	82	76	94	86	80	74	82	76	72	77	73	69	74	70	67	64
3	89	78	70	64	86	76	69	63	72	66	61	69	64	59	66	61	57	55
4	82	70	61	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	48	44	42
6	70	57	48	42	68	56	48	42	54	46	41	51	45	40	49	44	39	37
7	65	52	44	38	63	51	43	37	49	42	37	47	41	36	45	40	35	33
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	36	32	30
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	34	29	28
10	54	41	34	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

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POLAR GRAPH



Maximum Candela = 527.812 Located At Horizontal Angle = 292.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)