

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00326\_4 ~ AR1214GV-27L35K-EXTF1-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00326\_4  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 2/2/2018  
 [UPDATE] 7/2/2018  
 [LUMCAT] AR1214GV-27L-35K-EX-TF1-MWI  
 [LUMINAIRE] Angled Reflectot, 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  
 [\_CRI]85+  
 [\_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03, 50K x 1.06  
 [\_LAMPMULT]15L x 0.573

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	18
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-27L35K-EXTF1-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5076	416	112
55	2742	152	53
65	1902	49	64
75	1490	117	132
85	1245	375	536

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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	900.870	900.870	900.870	900.870	900.870	900.870	900.870	900.870	900.870	900.870
2.5	899.553	892.018	885.959	878.250	875.176	885.443	885.488	889.026	892.632	897.243
5.0	898.235	883.166	871.047	855.629	849.481	870.015	870.106	877.181	884.393	893.615
7.5	887.692	865.125	841.326	804.405	788.957	828.161	834.381	854.163	868.163	883.250
10.0	877.149	847.083	811.604	753.180	728.432	786.307	798.656	831.145	851.933	872.884
12.5	859.316	817.510	747.414	643.085	603.310	686.708	723.939	793.968	828.622	857.528
15.0	841.482	787.937	683.223	532.989	478.188	587.109	649.221	756.790	805.310	842.171
17.5	817.681	737.499	572.824	402.846	349.832	449.668	530.912	692.111	776.021	821.857
20.0	793.880	687.061	462.425	272.702	221.475	312.227	412.603	627.432	746.732	801.543
22.5	765.092	604.228	352.168	196.268	158.110	222.638	308.269	530.342	709.122	779.539
25.0	736.303	521.395	241.911	119.834	94.744	133.049	203.935	433.252	671.512	757.534
27.5	701.829	423.989	180.434	89.631	70.028	98.599	151.674	339.178	618.852	735.339
30.0	667.355	326.582	118.957	59.427	45.312	64.148	99.413	245.104	566.192	713.143
32.5	617.331	254.526	91.854	45.171	34.785	48.512	77.069	189.664	493.437	690.160
35.0	567.306	182.470	64.750	30.915	24.257	32.876	54.725	134.223	420.681	667.177
37.5	496.410	145.906	51.130	24.086	18.575	25.337	43.041	107.939	346.179	641.882
40.0	425.513	109.341	37.509	17.257	12.892	17.797	31.357	81.655	271.677	616.587
42.5	350.467	89.109	30.052	13.175	9.485	12.962	25.360	66.859	220.114	580.102
45.0	275.421	68.877	22.595	9.092	6.078	8.126	19.363	52.062	168.551	543.616
47.5	222.916	56.436	17.565	6.298	4.482	5.951	14.658	42.654	141.412	490.076
50.0	170.411	43.995	12.535	3.504	2.886	3.775	9.952	33.245	114.273	436.536
52.5	145.547	36.677	9.616	2.815	2.600	2.788	7.027	26.763	98.323	373.219
55.0	120.683	29.359	6.697	2.126	2.313	1.801	4.102	20.280	82.372	309.901
57.5	102.664	24.219	4.753	2.241	1.978	1.965	2.884	15.363	69.869	261.572
60.0	84.646	19.078	2.809	2.355	1.643	2.129	1.665	10.446	57.367	213.244
62.5	73.164	14.694	2.205	2.310	1.853	2.231	1.771	7.929	48.866	185.990
65.0	61.681	10.309	1.600	2.264	2.062	2.333	1.876	5.412	40.364	158.736
67.5	52.573	7.120	1.785	2.212	2.132	1.981	1.897	3.474	33.613	140.460
70.0	43.465	3.930	1.969	2.160	2.201	1.629	1.918	1.535	26.861	122.183
72.5	36.529	3.063	2.143	2.341	2.411	1.696	1.690	1.607	21.311	106.061
75.0	29.592	2.196	2.317	2.521	2.621	1.763	1.462	1.679	15.760	89.938
77.5	23.978	2.190	2.539	2.721	2.701	1.988	1.727	1.850	11.474	77.396
80.0	18.364	2.183	2.760	2.920	2.781	2.213	1.992	2.021	7.187	64.853
82.5	13.346	1.871	2.634	3.178	3.184	2.130	1.863	1.940	4.694	56.181
85.0	8.327	1.558	2.507	3.436	3.586	2.046	1.734	1.858	2.201	47.508
87.5	5.562	1.815	3.043	3.258	3.879	2.037	1.854	1.751	1.632	38.747
90.0	2.797	2.071	3.579	3.079	4.171	2.028	1.973	1.644	1.062	29.985
92.5	2.527	2.305	3.390	3.062	4.551	2.121	2.175	1.745	1.309	21.937
95.0	2.256	2.538	3.201	3.044	4.930	2.213	2.376	1.846	1.556	13.889
97.5	2.366	2.665	3.335	3.719	4.733	2.222	2.437	2.090	1.541	9.732
100.0	2.475	2.792	3.469	4.394	4.536	2.231	2.498	2.334	1.526	5.575
102.5	2.352	2.990	3.299	3.803	4.512	2.301	2.466	2.346	1.534	3.746
105.0	2.228	3.188	3.128	3.211	4.487	2.371	2.434	2.358	1.541	1.917
107.5	2.343	2.978	3.192	3.419	4.437	2.484	2.266	2.088	1.600	1.737
110.0	2.457	2.768	3.255	3.627	4.387	2.597	2.098	1.817	1.658	1.556
112.5	2.660	2.856	3.470	3.539	4.483	2.712	1.978	2.070	1.628	1.517
115.0	2.862	2.943	3.685	3.451	4.578	2.827	1.857	2.322	1.597	1.477
117.5	2.894	3.237	3.518	3.462	4.475	3.047	2.019	2.163	1.449	1.666
120.0	2.925	3.530	3.351	3.472	4.371	3.266	2.181	2.003	1.300	1.854
122.5	2.857	3.601	3.306	3.648	4.660	3.145	2.277	1.995	1.447	1.876
125.0	2.788	3.671	3.261	3.823	4.949	3.024	2.372	1.986	1.594	1.898

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**CANDELA TABULATION - (Cont.)**

127.5	2.746	3.426	3.175	3.705	4.983	3.295	2.262	2.068	1.487	1.700
130.0	2.703	3.180	3.089	3.587	5.017	3.566	2.152	2.150	1.380	1.502
132.5	2.851	2.913	2.981	3.244	4.669	3.610	2.045	1.943	1.572	1.598
135.0	2.998	2.645	2.873	2.901	4.320	3.654	1.937	1.736	1.763	1.693
137.5	3.206	2.480	2.888	3.122	4.188	3.656	2.219	1.841	1.903	1.733
140.0	3.413	2.315	2.903	3.343	4.056	3.657	2.501	1.946	2.042	1.773
142.5	3.114	2.282	2.827	3.461	3.764	3.407	2.692	2.105	1.924	1.843
145.0	2.814	2.249	2.751	3.579	3.471	3.157	2.882	2.263	1.806	1.913
147.5	2.774	2.442	2.730	3.466	3.418	2.994	2.757	2.203	1.750	1.911
150.0	2.734	2.635	2.709	3.352	3.364	2.830	2.632	2.142	1.693	1.909
152.5	2.712	2.850	2.421	3.213	3.263	3.016	2.783	2.132	1.847	1.693
155.0	2.689	3.064	2.132	3.074	3.161	3.202	2.933	2.121	2.000	1.476
157.5	2.713	3.008	2.123	2.797	3.021	3.281	3.021	1.936	1.891	1.647
160.0	2.736	2.952	2.113	2.520	2.881	3.360	3.108	1.751	1.781	1.818
162.5	2.732	2.716	2.087	2.439	2.745	3.599	3.096	1.631	1.854	1.844
165.0	2.727	2.480	2.060	2.357	2.609	3.838	3.084	1.511	1.926	1.870
167.5	2.571	2.294	2.200	2.114	2.550	3.373	2.703	1.773	2.085	1.994
170.0	2.414	2.107	2.339	1.871	2.490	2.907	2.322	2.035	2.244	2.118
172.5	2.387	2.125	2.321	2.046	2.349	3.590	2.762	2.349	2.359	2.264
175.0	2.359	2.143	2.303	2.220	2.207	4.272	3.202	2.662	2.474	2.410
177.5	2.400	2.292	2.372	2.330	2.324	3.356	2.821	2.551	2.457	2.425
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

**Vert. Angles**      **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	900.870	900.870	900.870	900.870	900.870	900.870	900.870
2.5	902.131	906.826	909.436	911.004	908.048	903.366	899.553
5.0	903.392	912.782	918.002	921.138	915.225	905.862	898.235
7.5	897.951	912.205	919.448	919.462	911.947	898.922	887.692
10.0	892.509	911.627	920.893	917.786	908.669	891.982	877.149
12.5	881.094	903.409	916.107	909.822	897.967	878.356	859.316
15.0	869.679	895.190	911.321	901.857	887.264	864.730	841.482
17.5	853.581	884.412	904.840	892.536	873.305	846.788	817.681
20.0	837.482	873.635	898.358	883.214	859.345	828.845	793.880
22.5	821.841	864.578	897.834	877.513	844.218	808.989	765.092
25.0	806.199	855.521	897.309	871.812	829.090	789.133	736.303
27.5	790.267	847.185	902.007	867.205	813.221	767.179	701.829
30.0	774.334	838.849	906.704	862.598	797.352	745.225	667.355
32.5	756.905	828.578	902.908	852.046	780.553	724.490	617.331
35.0	739.477	818.307	899.112	841.494	763.754	703.754	567.306
37.5	720.079	802.234	880.836	823.410	745.013	679.784	496.410
40.0	700.681	786.161	862.560	805.326	726.271	655.813	425.513
42.5	676.311	762.274	836.163	779.794	702.551	628.213	350.467
45.0	651.941	738.388	809.765	754.261	678.831	600.613	275.421
47.5	624.795	709.108	777.857	723.066	653.091	565.164	222.916
50.0	597.649	679.829	745.949	691.871	627.350	529.714	170.411
52.5	566.305	649.242	709.233	658.462	597.295	479.942	145.547
55.0	534.962	618.655	672.517	625.053	567.240	430.169	120.683
57.5	498.860	585.140	634.959	591.135	533.814	370.453	102.664
60.0	462.759	551.626	597.401	557.217	500.388	310.738	84.646
62.5	426.611	520.601	563.474	524.534	464.866	263.780	73.164
65.0	390.463	489.577	529.546	491.850	429.344	216.821	61.681

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00326\_4 ~ AR1214GV-27L35K-EXTF1-MWI.IES****CANDELA TABULATION - (Cont.)**

67.5	353.663	459.926	500.330	463.650	397.681	190.176	52.573
70.0	316.864	430.275	471.113	435.449	366.017	163.530	43.465
72.5	284.940	404.754	444.586	411.052	333.218	144.924	36.529
75.0	253.016	379.233	418.059	386.654	300.419	126.317	29.592
77.5	225.929	356.876	397.762	363.383	271.372	109.417	23.978
80.0	198.843	334.519	377.464	340.112	242.325	92.516	18.364
82.5	176.018	310.674	357.312	317.104	216.574	79.720	13.346
85.0	153.194	286.829	337.159	294.096	190.822	66.923	8.327
87.5	134.100	261.222	313.980	270.162	168.504	57.055	5.562
90.0	115.007	235.615	290.800	246.227	146.186	47.187	2.797
92.5	98.780	209.693	264.767	219.456	125.382	38.330	2.527
95.0	82.554	183.771	238.734	192.685	104.577	29.472	2.256
97.5	68.600	159.066	210.352	166.118	88.897	22.051	2.366
100.0	54.647	134.361	181.970	139.550	73.216	14.630	2.475
102.5	43.903	113.510	154.431	117.471	60.892	9.893	2.352
105.0	33.158	92.660	126.891	95.391	48.568	5.156	2.228
107.5	23.826	76.340	105.129	78.699	37.893	3.767	2.343
110.0	14.493	60.021	83.367	62.006	27.218	2.377	2.457
112.5	9.545	45.371	66.751	48.584	18.926	2.433	2.660
115.0	4.597	30.721	50.135	35.161	10.634	2.489	2.862
117.5	3.084	21.161	36.708	24.654	7.027	2.630	2.894
120.0	1.570	11.600	23.281	14.147	3.419	2.770	2.925
122.5	1.508	7.187	15.018	9.113	3.075	2.421	2.857
125.0	1.445	2.774	6.755	4.078	2.731	2.072	2.788
127.5	1.393	2.056	4.354	3.683	2.692	2.122	2.746
130.0	1.341	1.338	1.953	3.287	2.653	2.172	2.703
132.5	1.505	1.431	1.837	3.173	2.941	2.350	2.851
135.0	1.669	1.523	1.720	3.059	3.229	2.528	2.998
137.5	1.745	1.664	1.921	2.987	3.296	2.807	3.206
140.0	1.820	1.804	2.122	2.914	3.363	3.085	3.413
142.5	1.708	1.897	1.979	3.191	3.474	3.255	3.114
145.0	1.595	1.990	1.835	3.468	3.584	3.425	2.814
147.5	1.964	2.186	1.783	3.459	3.684	3.110	2.774
150.0	2.332	2.382	1.730	3.449	3.783	2.794	2.734
152.5	2.377	2.273	1.974	3.663	3.519	2.715	2.712
155.0	2.422	2.163	2.217	3.876	3.254	2.635	2.689
157.5	2.151	2.368	2.154	4.104	3.141	2.302	2.713
160.0	1.879	2.573	2.091	4.332	3.028	1.969	2.736
162.5	1.897	2.281	2.178	3.908	2.941	2.608	2.732
165.0	1.915	1.989	2.265	3.483	2.854	3.247	2.727
167.5	2.126	2.064	2.346	3.784	3.017	3.062	2.571
170.0	2.336	2.139	2.426	4.085	3.179	2.876	2.414
172.5	2.450	2.113	2.588	4.057	2.995	2.716	2.387
175.0	2.564	2.087	2.750	4.029	2.810	2.555	2.359
177.5	2.502	2.264	2.595	3.235	2.625	2.498	2.400
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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Zone	Lumens	%Lamp	%Fixt
0-20	296.44	N.A.	16.20
0-30	556.51	N.A.	30.40
0-40	828.89	N.A.	45.30
0-60	1315.71	N.A.	71.80
0-80	1626.58	N.A.	88.80
0-90	1722.59	N.A.	94.10
10-90	1639.11	N.A.	89.50
20-40	532.45	N.A.	29.10
20-50	793.79	N.A.	43.30
40-70	663.79	N.A.	36.20
60-80	310.87	N.A.	17.00
70-80	133.91	N.A.	7.30
80-90	96.00	N.A.	5.20
90-110	88.99	N.A.	4.90
90-120	99.66	N.A.	5.40
90-130	102.84	N.A.	5.60
90-150	106.51	N.A.	5.80
90-180	108.69	N.A.	5.90
110-180	19.70	N.A.	1.10
0-180	1831.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.48
10-20	212.96
20-30	260.07
30-40	272.38
40-50	261.35
50-60	225.48
60-70	176.96
70-80	133.91
80-90	96.00
90-100	59.76
100-110	29.23
110-120	10.67
120-130	3.17
130-140	1.99
140-150	1.68
150-160	1.22
160-170	0.71
170-180	0.25

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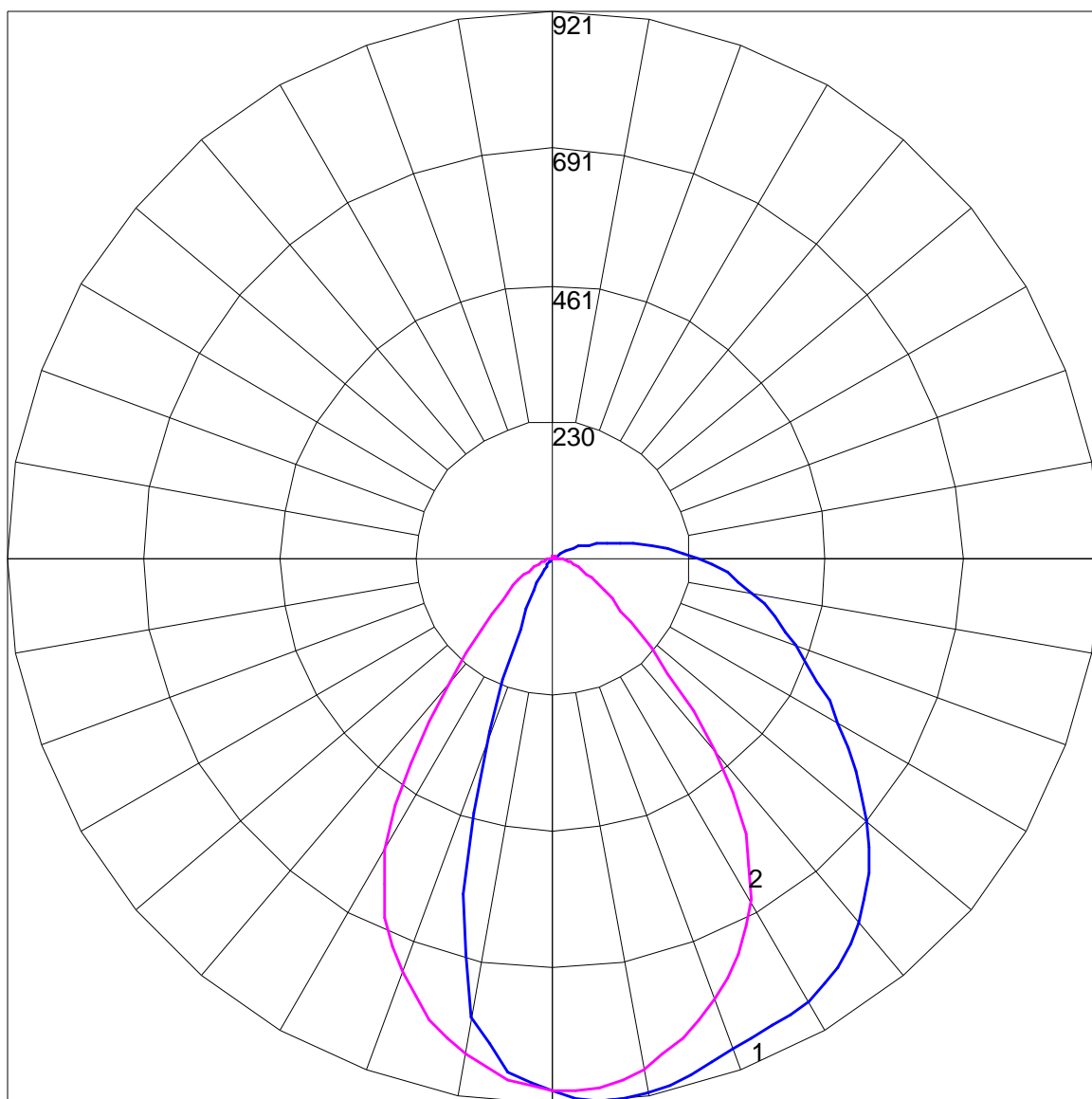
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	63	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	61	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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00326\_4 ~ AR1214GV-27L35K-EXTF1-MWI.IES

POLAR GRAPH



Maximum Candela = 921.138 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)