

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE5LEDGV-27L35KE1-AR5222GVSGSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00522\_1\_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE5LEDGV-27L-35K-E1-AR5222GV-SG-SO

[LUMINAIRE] 5" aperture, downlight

[TRIM] Semi-diffuse anodized cone, open aperture, regressed Solite lens

[LAMP]N/A, Min. 85 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Wattage is approximate

[OTHER] CCT Output Multipliers: 50K x 1.07, 40K x 1.03, 30K x 0.98, 27K x 0.97

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1353
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	22.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.41 ft (Diameter)
Luminous Width (90-270)	0.41 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21565	21809	21820
55	7951	7926	8117
65	530	502	554
75	109	106	86
85	65	65	60

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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>
<b>0</b>	1225.040	1225.040	1225.040	1225.040	1225.040
<b>5</b>	1244.435	1233.645	1222.740	1228.410	1236.045
<b>10</b>	1218.550	1213.350	1215.300	1225.055	1231.180
<b>15</b>	1162.610	1159.705	1147.475	1149.535	1142.655
<b>20</b>	1012.030	1014.335	1021.800	1021.605	1024.305
<b>25</b>	846.725	842.860	842.765	855.885	855.125
<b>30</b>	666.665	678.750	677.055	669.925	674.070
<b>35</b>	502.045	502.485	499.310	498.440	503.925
<b>40</b>	329.785	329.680	330.090	330.955	328.835
<b>45</b>	188.425	189.155	190.555	188.730	190.655
<b>50</b>	102.145	100.240	103.055	101.640	101.955
<b>55</b>	56.355	55.925	56.175	57.635	57.530
<b>60</b>	24.050	23.945	23.390	23.950	24.200
<b>65</b>	2.770	2.750	2.620	2.600	2.895
<b>70</b>	0.490	0.465	0.540	0.575	0.490
<b>75</b>	0.350	0.305	0.340	0.365	0.275
<b>80</b>	0.215	0.165	0.180	0.180	0.140
<b>85</b>	0.070	0.075	0.070	0.055	0.065
<b>90</b>	0.000	0.010	0.000	0.015	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	436.69	N.A.	32.30
0-30	825.14	N.A.	61.00
0-40	1136.76	N.A.	84.00
0-60	1344.86	N.A.	99.40
0-80	1352.48	N.A.	100.00
0-90	1352.57	N.A.	100.00
10-90	1235.53	N.A.	91.30
20-40	700.07	N.A.	51.80
20-50	855.11	N.A.	63.20
40-70	215.37	N.A.	15.90
60-80	7.63	N.A.	0.60
70-80	0.36	N.A.	0.00
80-90	0.09	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1352.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.04
10-20	319.65
20-30	388.45
30-40	311.62
40-50	155.04
50-60	53.06
60-70	7.27
70-80	0.36
80-90	0.09
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

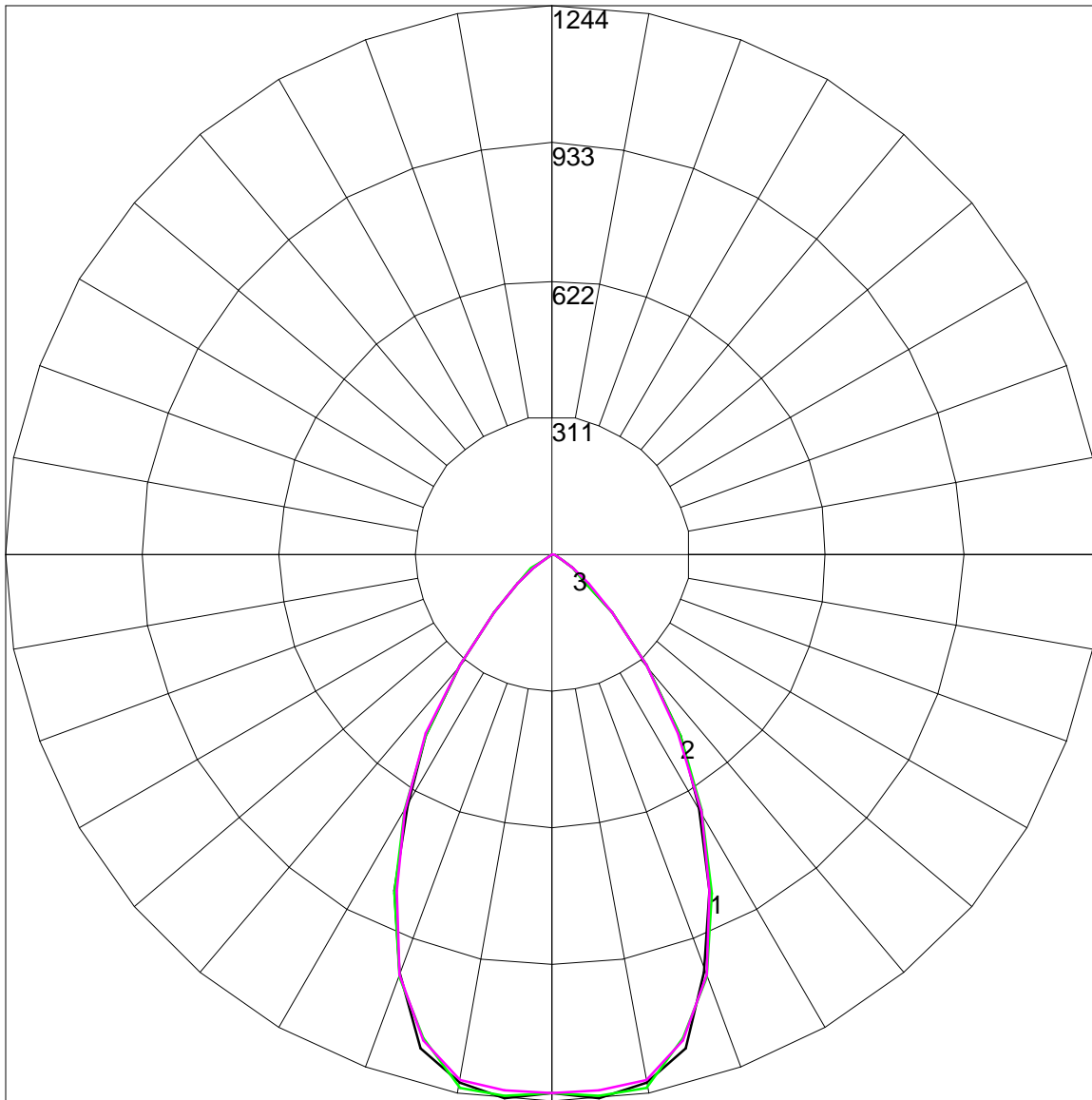
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 1244.435 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (45 - 225)