

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE4LEDGV-27L35KE1-AR4222GVSGSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00521\_1\_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE4LEDGV-27L-35K-E1-AR4222GV-SG-SO

[LUMINAIRE] 4" 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	1396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	22.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	33810	33844	33572
55	14291	14569	14085
65	3110	3043	3164
75	288	317	324
85	191	226	163

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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>	1344.415	1344.415	1344.415	1344.415	1344.415
<b>5</b>	1351.830	1331.895	1355.050	1336.485	1349.735
<b>10</b>	1313.965	1332.460	1303.105	1304.775	1321.635
<b>15</b>	1220.945	1202.280	1212.765	1208.910	1204.945
<b>20</b>	1034.565	1034.000	1039.930	1041.475	1040.955
<b>25</b>	839.870	847.050	843.770	845.530	847.765
<b>30</b>	666.665	666.660	661.595	661.210	661.805
<b>35</b>	501.080	499.235	498.165	494.440	491.755
<b>40</b>	329.580	329.790	329.835	333.175	328.295
<b>45</b>	193.965	193.230	194.160	196.195	192.600
<b>50</b>	112.830	111.525	111.310	111.175	114.110
<b>55</b>	66.505	65.255	67.800	67.345	65.545
<b>60</b>	34.700	34.640	34.540	34.620	34.535
<b>65</b>	10.665	10.650	10.435	10.895	10.850
<b>70</b>	1.340	1.305	1.175	1.330	1.220
<b>75</b>	0.605	0.715	0.665	0.740	0.680
<b>80</b>	0.375	0.345	0.410	0.350	0.395
<b>85</b>	0.135	0.125	0.160	0.145	0.115
<b>90</b>	0.000	0.000	0.010	0.010	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	462.16	N.A.	33.10
0-30	850.58	N.A.	60.90
0-40	1159.53	N.A.	83.10
0-60	1380.73	N.A.	98.90
0-80	1395.56	N.A.	100.00
0-90	1395.74	N.A.	100.00
10-90	1268.52	N.A.	90.90
20-40	697.38	N.A.	50.00
20-50	856.37	N.A.	61.40
40-70	235.23	N.A.	16.90
60-80	14.83	N.A.	1.10
70-80	0.80	N.A.	0.10
80-90	0.18	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	1395.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.22
10-20	334.93
20-30	388.42
30-40	308.95
40-50	158.99
50-60	62.20
60-70	14.04
70-80	0.80
80-90	0.18
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

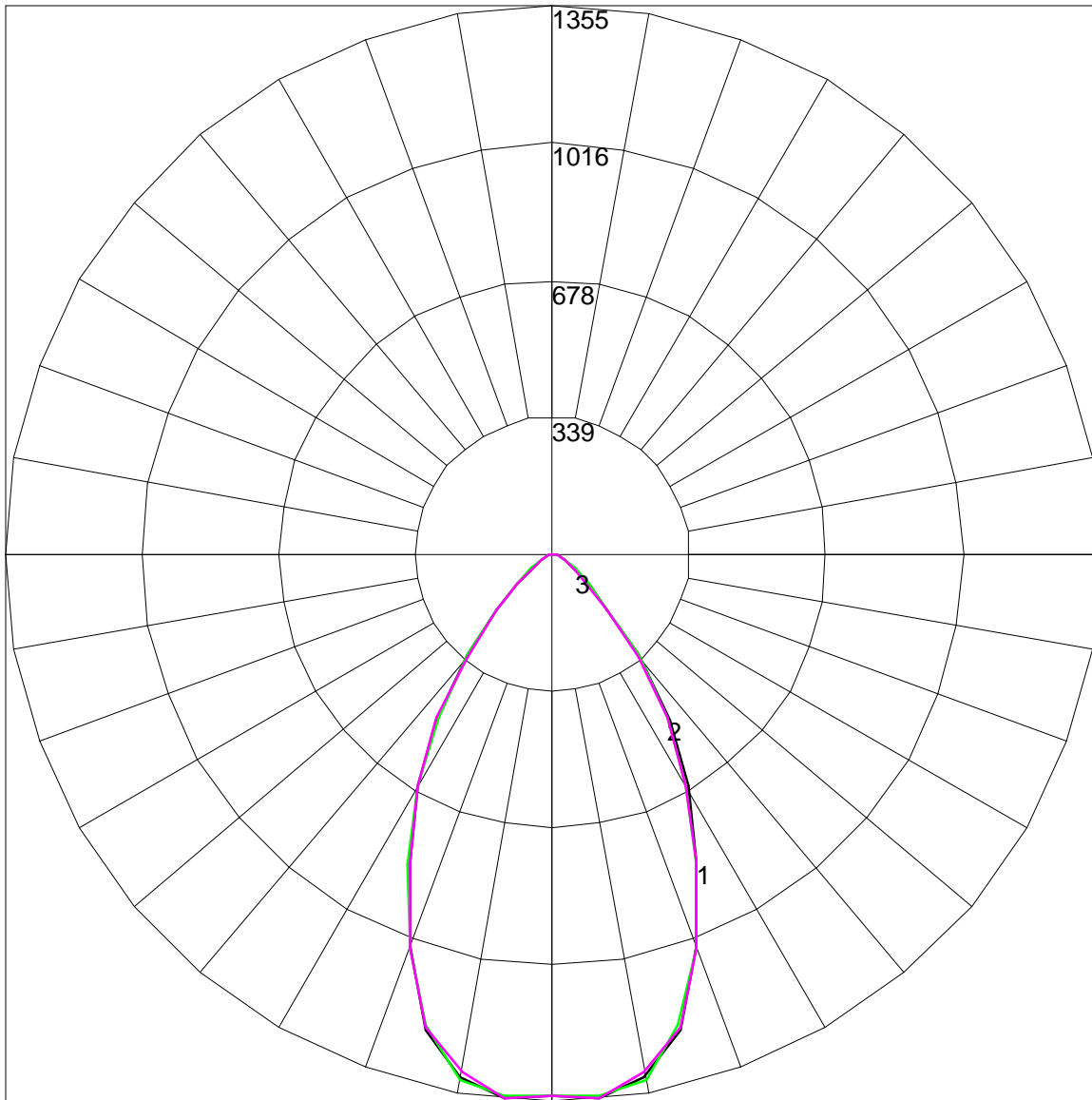
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1355.05 Located At Horizontal Angle = 45, 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)