

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE4LEDGV-37L35KE1-AR4222GVSG.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)

[ISSUE DATE]

[TEST DATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00521\_M-37

[MANUFAC] Spectrum Lighting

[LUMCAT]SGE4LEDGV-37L-35K-E1-AR4222GV-SG

[LUMINAIRE] 4" aperture, downlight

[TRIM]Semi-diffuse anodized cone, open aperture

[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	2055
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	29.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.90
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	46748	47400	46677
55	19212	18888	18957
65	4895	4980	4826
75	577	496	522
85	249	239	267

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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>	2164.719	2164.719	2164.719	2164.719	2164.719
<b>5</b>	2100.966	2118.730	2106.601	2112.209	2096.670
<b>10</b>	2077.599	2063.521	2049.829	2049.457	2051.547
<b>15</b>	1840.053	1816.348	1815.915	1823.391	1826.482
<b>20</b>	1514.927	1511.572	1519.791	1516.875	1505.923
<b>25</b>	1226.035	1225.243	1222.869	1225.947	1233.077
<b>30</b>	969.600	979.782	977.942	976.325	975.730
<b>35</b>	740.314	736.106	740.423	742.986	740.118
<b>40</b>	485.037	489.982	489.779	487.628	488.386
<b>45</b>	268.192	268.381	271.933	270.607	267.786
<b>50</b>	137.566	139.603	138.906	138.906	139.176
<b>55</b>	89.406	86.984	87.898	87.153	88.216
<b>60</b>	48.722	47.612	49.121	47.727	47.565
<b>65</b>	16.784	16.398	17.075	16.628	16.547
<b>70</b>	1.921	1.881	1.975	1.854	2.205
<b>75</b>	1.211	1.116	1.042	0.981	1.096
<b>80</b>	0.528	0.487	0.487	0.501	0.629
<b>85</b>	0.176	0.162	0.169	0.237	0.189
<b>90</b>	0.000	0.000	0.014	0.000	0.047

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	705.23	N.A.	34.30
0-30	1271.41	N.A.	61.90
0-40	1729.15	N.A.	84.20
0-60	2032.81	N.A.	98.90
0-80	2054.5	N.A.	100.00
0-90	2054.75	N.A.	100.00
10-90	1854.63	N.A.	90.30
20-40	1023.92	N.A.	49.80
20-50	1246.89	N.A.	60.70
40-70	324.14	N.A.	15.80
60-80	21.69	N.A.	1.10
70-80	1.21	N.A.	0.10
80-90	0.24	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	2054.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.12
10-20	505.11
20-30	566.17
30-40	457.74
40-50	222.98
50-60	80.69
60-70	20.48
70-80	1.21
80-90	0.24
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

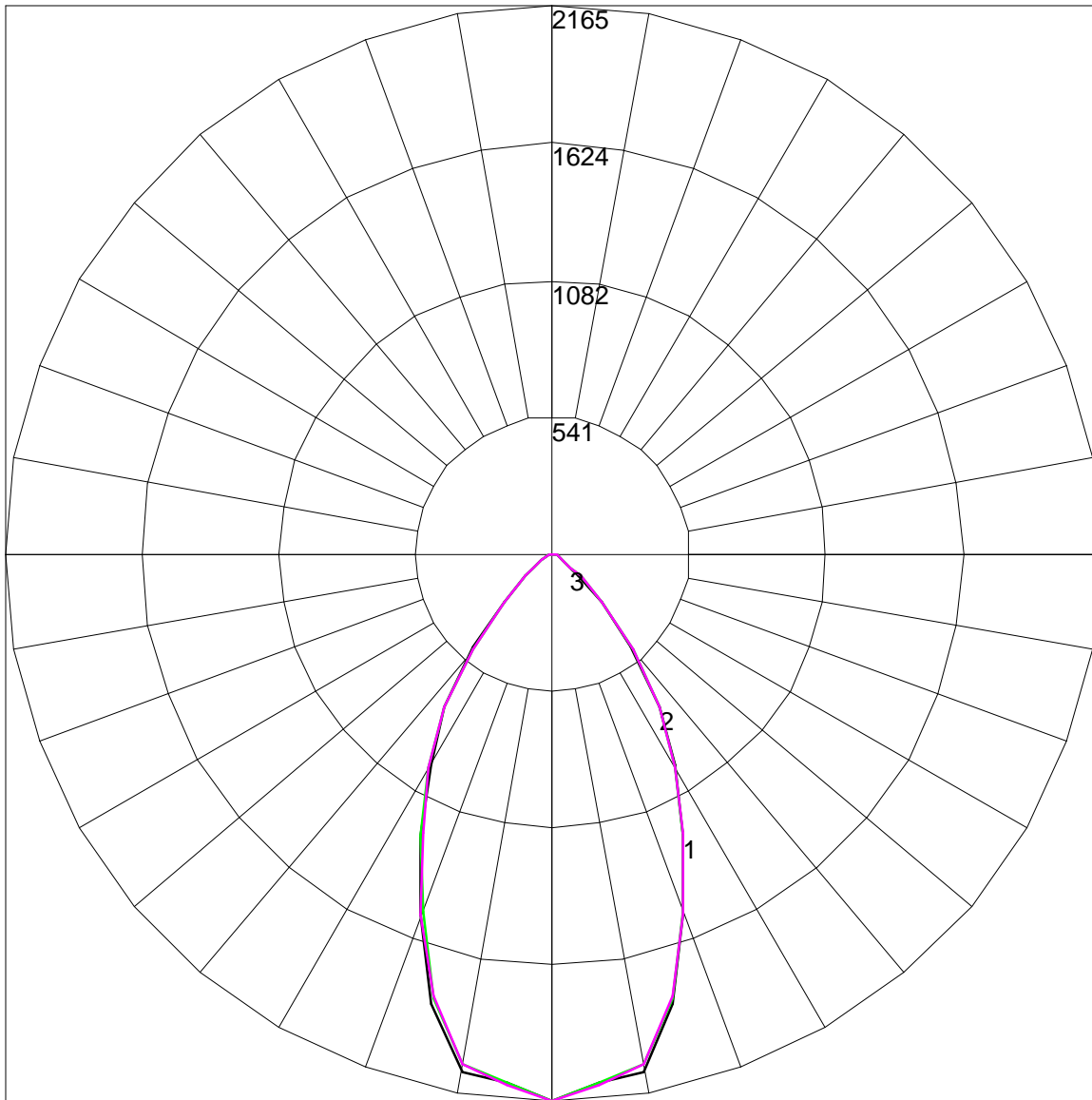
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	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	93	88	84	90	86	82	88	84	81	85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	76	66	60	55	75	66	60	55	65	59	55	63	58	55	62	58	55	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	52	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

POLAR GRAPH



Maximum Candela = 2164.719 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)