

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE4LEDGV-15L35KE1-AR4222GVSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00521\_1\_M-15L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE4LEDGV-15L-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	772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	13.3
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	18697	18715	18565
55	7903	8057	7789
65	1720	1683	1750
75	160	175	179
85	106	124	91

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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>	743.461	743.461	743.461	743.461	743.461
<b>5</b>	747.562	736.538	749.343	739.076	746.403
<b>10</b>	726.623	736.850	720.617	721.541	730.864
<b>15</b>	675.183	664.861	670.659	668.527	666.335
<b>20</b>	572.114	571.802	575.081	575.936	575.648
<b>25</b>	464.448	468.419	466.605	467.578	468.814
<b>30</b>	368.666	368.663	365.862	365.649	365.978
<b>35</b>	277.097	276.077	275.485	273.425	271.941
<b>40</b>	182.258	182.374	182.399	184.246	181.547
<b>45</b>	107.263	106.856	107.370	108.496	106.508
<b>50</b>	62.395	61.673	61.554	61.480	63.103
<b>55</b>	36.777	36.086	37.493	37.242	36.246
<b>60</b>	19.189	19.156	19.101	19.145	19.098
<b>65</b>	5.898	5.889	5.771	6.025	6.000
<b>70</b>	0.741	0.722	0.650	0.735	0.675
<b>75</b>	0.335	0.395	0.368	0.409	0.376
<b>80</b>	0.207	0.191	0.227	0.194	0.218
<b>85</b>	0.075	0.069	0.088	0.080	0.064
<b>90</b>	0.000	0.000	0.006	0.006	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	255.57	N.A.	33.10
0-30	470.37	N.A.	60.90
0-40	641.22	N.A.	83.10
0-60	763.54	N.A.	98.90
0-80	771.75	N.A.	100.00
0-90	771.84	N.A.	100.00
10-90	701.49	N.A.	90.90
20-40	385.65	N.A.	50.00
20-50	473.57	N.A.	61.40
40-70	130.08	N.A.	16.90
60-80	8.20	N.A.	1.10
70-80	0.44	N.A.	0.10
80-90	0.10	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	771.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.35
10-20	185.22
20-30	214.80
30-40	170.85
40-50	87.92
50-60	34.40
60-70	7.76
70-80	0.44
80-90	0.10
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

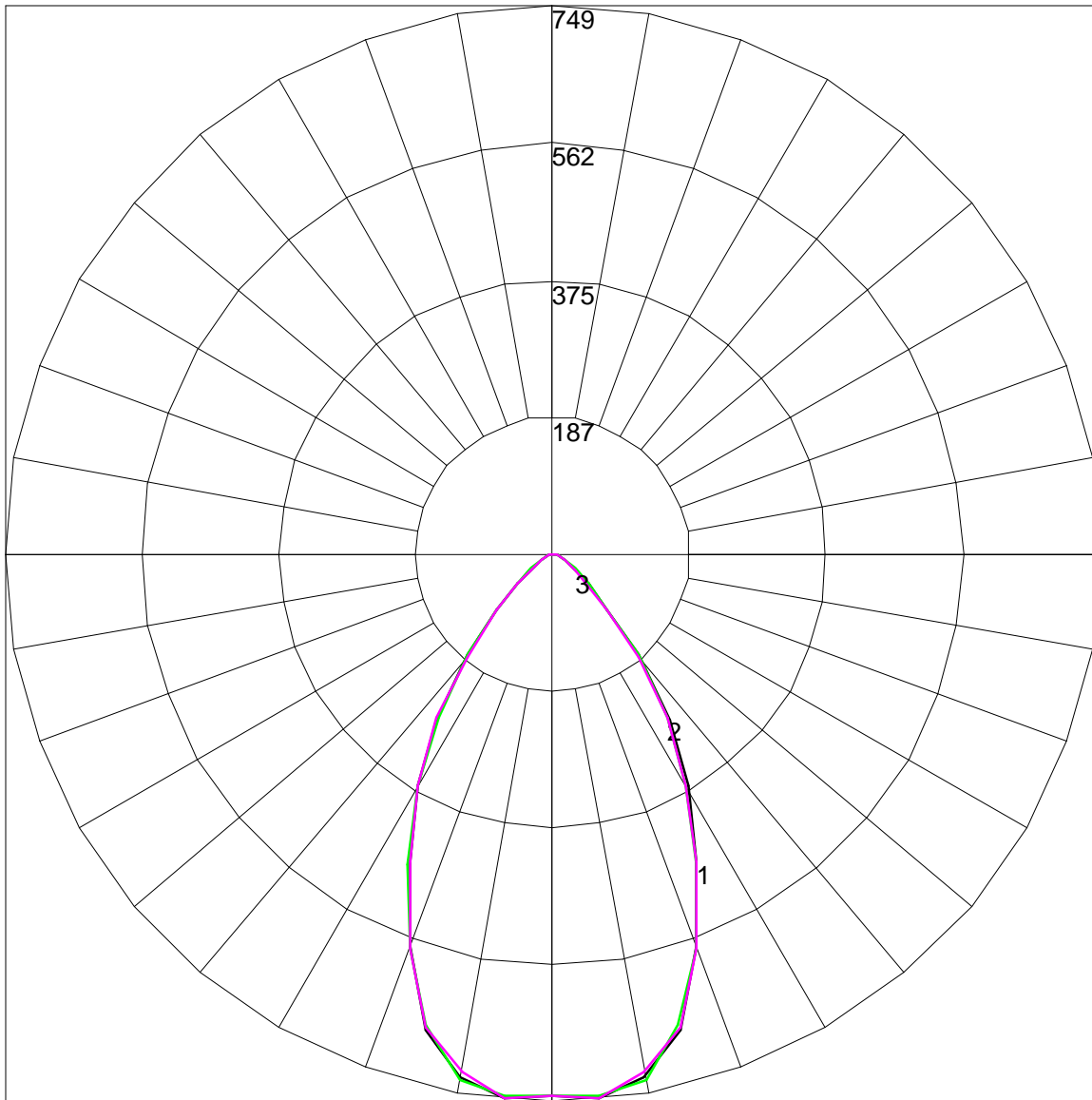
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92
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 = 749.343 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)