

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE8LEDGV-15L35KE1-AR8222GVSGSO.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] Thu Aug 11 2016

[UPDATE] Fri Aug 12 2016

[TEST] SP-00307\_52\_M-15L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE8LEDGV-15L-35K-E1-AR8222GV-SG-SO

[LUMINAIRE] 8" 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	839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	13.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	8117	8314	8158
55	2280	2275	2385
65	411	412	414
75	6	14	10
85	14	15	11

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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>	585.409	585.409	585.409	585.409	585.409
<b>5</b>	581.620	568.354	590.927	578.007	576.207
<b>10</b>	592.581	590.228	597.071	588.801	589.672
<b>15</b>	569.532	590.372	575.493	575.590	588.967
<b>20</b>	552.577	549.909	550.390	555.052	543.212
<b>25</b>	496.727	495.698	494.617	494.769	488.440
<b>30</b>	430.875	431.923	432.302	433.704	431.589
<b>35</b>	362.104	353.317	355.394	356.079	351.631
<b>40</b>	261.414	265.421	266.986	266.093	270.915
<b>45</b>	160.619	165.256	164.512	166.041	161.437
<b>50</b>	78.908	80.022	79.820	78.979	80.099
<b>55</b>	36.598	37.798	36.523	37.084	38.276
<b>60</b>	17.995	18.584	17.809	18.418	19.112
<b>65</b>	4.858	4.786	4.869	5.206	4.902
<b>70</b>	0.135	0.149	0.163	0.155	0.094
<b>75</b>	0.044	0.141	0.100	0.097	0.072
<b>80</b>	0.105	0.097	0.030	0.064	0.108
<b>85</b>	0.033	0.019	0.036	0.022	0.028
<b>90</b>	0.000	0.000	0.000	0.000	0.017

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	218.54	N.A.	26.00
0-30	445.44	N.A.	53.10
0-40	665.14	N.A.	79.20
0-60	832.32	N.A.	99.20
0-80	839.38	N.A.	100.00
0-90	839.41	N.A.	100.00
10-90	783.61	N.A.	93.40
20-40	446.60	N.A.	53.20
20-50	575.55	N.A.	68.60
40-70	174.13	N.A.	20.70
60-80	7.06	N.A.	0.80
70-80	0.11	N.A.	0.00
80-90	0.04	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	839.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.81
10-20	162.73
20-30	226.90
30-40	219.70
40-50	128.95
50-60	38.23
60-70	6.94
70-80	0.11
80-90	0.04
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

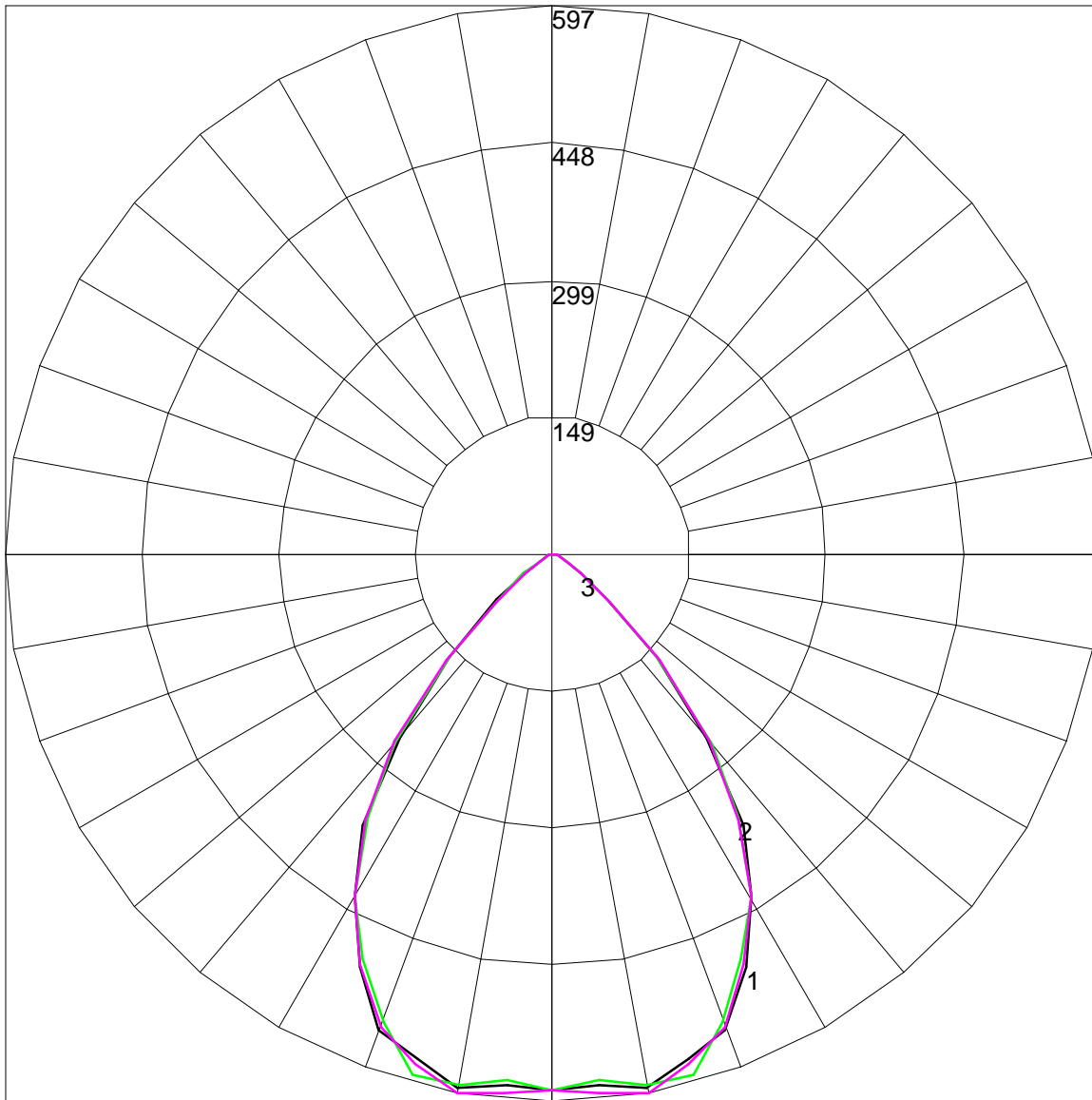
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 597.071 Located At Horizontal Angle = 45, Vertical Angle = 10

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

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

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