

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGV8LEDGV-37L35KE1-AR8710GVXBSG.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUE DATE]

[TEST DATE] Fri Jan 22 2016

[UPDATE] Mon Jan 25 2016

[TEST] SP-00396\_25

[MANUFAC] Spectrum Lighting

[LUMCAT] SGV8LEDGV-37L-35K-E1-AR8710GV-XB-SG

[LUMINAIRE] 8" open aperture, cross-blade downlight

[TRIM] Semi-diffuse anodized cross-blade reflector assembly

[LAMP] N/A

[LAMP CAT] 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 generated by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	29.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.66
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.12 ft (Diameter)
Luminous Width (90-270)	1.12 ft (Diameter)
Luminous Height	0.73 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4073	3643	4147
55	744	738	735
65	127	142	126
75	40	40	43
85	8	9	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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	767.88	767.88	767.88	767.88	767.88	767.88	767.88	767.88	767.88
<b>5</b>	802.90	794.83	813.34	812.76	791.84	794.71	805.36	782.89	786.05
<b>10</b>	952.70	963.76	958.84	948.55	949.39	957.15	958.98	948.35	964.24
<b>15</b>	1189.46	1278.77	1308.29	1280.95	1201.00	1271.59	1299.55	1275.61	1198.52
<b>20</b>	1472.62	1532.66	1562.09	1537.78	1482.75	1549.38	1594.03	1549.39	1515.98
<b>25</b>	1687.20	1599.50	1596.48	1603.38	1694.37	1624.26	1595.27	1625.22	1689.00
<b>30</b>	1550.16	1400.38	1340.78	1409.64	1558.35	1416.26	1353.60	1399.49	1545.87
<b>35</b>	1196.12	1109.11	1014.45	1099.21	1202.36	1106.10	1013.38	1105.60	1213.87
<b>40</b>	785.90	751.91	674.92	739.77	789.84	748.25	679.40	747.00	797.64
<b>45</b>	480.00	451.80	429.34	450.36	488.69	451.21	423.98	456.38	483.54
<b>50</b>	229.46	215.09	214.47	213.64	233.50	216.93	217.89	216.95	232.64
<b>55</b>	84.99	82.38	84.31	81.70	83.90	80.10	87.07	82.85	81.98
<b>60</b>	26.84	29.70	32.73	28.71	28.36	28.80	32.47	31.00	28.12
<b>65</b>	13.60	15.17	15.23	14.41	13.50	14.26	15.08	14.26	14.36
<b>70</b>	7.08	7.21	6.84	7.20	8.03	8.14	7.38	7.56	7.48
<b>75</b>	3.82	4.15	3.85	4.02	4.15	4.17	3.57	3.91	4.15
<b>80</b>	2.44	2.13	1.95	1.95	2.13	1.99	1.68	2.03	2.20
<b>85</b>	0.68	0.99	0.75	0.69	0.93	0.84	0.65	0.82	0.83
<b>90</b>	0.14	0.06	0.06	0.00	0.03	0.05	0.06	0.02	0.03

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	444.01	N.A.	19.20
0-30	1162.89	N.A.	50.20
0-40	1844.42	N.A.	79.60
0-60	2293.89	N.A.	99.10
0-80	2314.83	N.A.	100.00
0-90	2315.83	N.A.	100.00
10-90	2234.35	N.A.	96.50
20-40	1400.42	N.A.	60.50
20-50	1757.82	N.A.	75.90
40-70	465.81	N.A.	20.10
60-80	20.94	N.A.	0.90
70-80	4.59	N.A.	0.20
80-90	1.00	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	2315.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.48
10-20	362.52
20-30	718.89
30-40	681.53
40-50	357.40
50-60	92.07
60-70	16.35
70-80	4.59
80-90	1.00
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

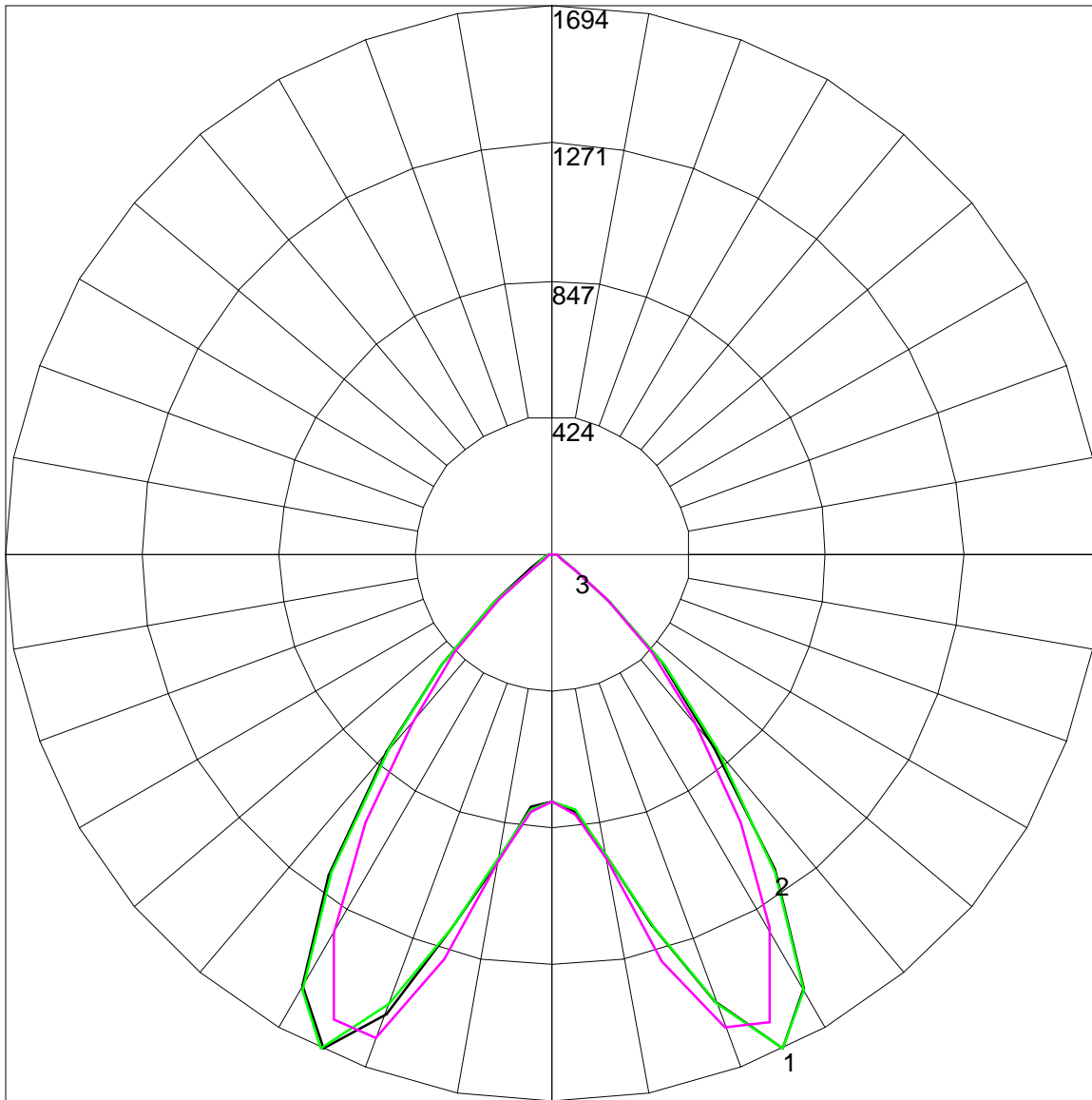
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 1694.37 Located At Horizontal Angle = 90, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (45 - 225)