

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGV8LEDGV-37L35KE1-AR8710GVSGSO.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] Mon May 09 2016

[UPDATE] Mon Jul 25 2016

[TEST] SP-00396\_35\_M-37L-35K

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 8" Diam. LED downlight, semi-diffuse clear anodized cone

[OTHER] Fully Regressed Solite Lens, beneath emitter

[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, scaled from 55L-40K

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	29.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 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	19797	19927	20154
55	5481	5361	5521
65	1846	1900	1792
75	1153	975	1064
85	790	790	790

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CANDELA TABULATION

	<u>0</u>	<u>45</u>	<u>90</u>
<b>0</b>	1795.187	1795.187	1795.187
<b>5</b>	1820.721	1799.770	1786.676
<b>10</b>	1886.845	1889.464	1873.097
<b>15</b>	1927.437	1930.710	1920.890
<b>20</b>	1923.509	1913.033	1937.912
<b>25</b>	1761.143	1774.237	1759.834
<b>30</b>	1433.138	1428.555	1446.232
<b>35</b>	1059.305	1041.628	1043.592
<b>40</b>	688.090	692.018	684.161
<b>45</b>	399.367	401.986	406.569
<b>50</b>	192.482	191.827	189.208
<b>55</b>	89.694	87.730	90.349
<b>60</b>	43.865	43.865	42.555
<b>65</b>	22.260	22.914	21.605
<b>70</b>	13.094	13.094	12.439
<b>75</b>	8.511	7.202	7.856
<b>80</b>	4.583	5.238	4.583
<b>85</b>	1.964	1.964	1.964
<b>90</b>	0.000	0.655	0.655

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	718.25	N.A.	27.50
0-30	1510.33	N.A.	57.80
0-40	2165.2	N.A.	82.80
0-60	2578.83	N.A.	98.60
0-80	2612.58	N.A.	99.90
0-90	2615.12	N.A.	100.00
10-90	2440.24	N.A.	93.30
20-40	1446.95	N.A.	55.30
20-50	1769.05	N.A.	67.60
40-70	438.62	N.A.	16.80
60-80	33.75	N.A.	1.30
70-80	8.76	N.A.	0.30
80-90	2.54	N.A.	0.10
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	2615.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.88
10-20	543.37
20-30	792.08
30-40	654.87
40-50	322.10
50-60	91.53
60-70	24.99
70-80	8.76
80-90	2.54
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

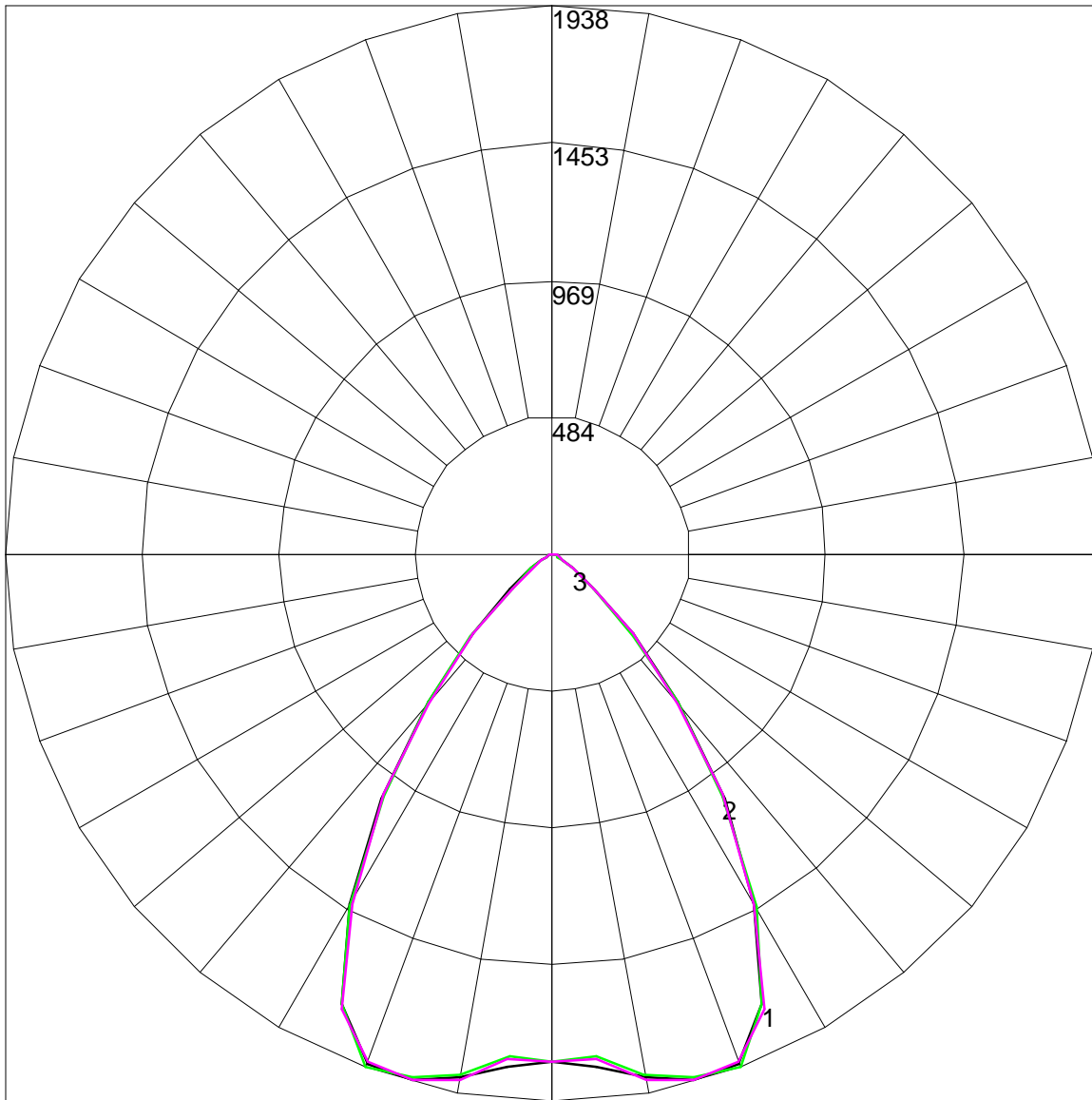
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	108	105	103	103	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	84	81	86	83	80	84	81	78	77
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64
6	83	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	59	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

POLAR GRAPH



Maximum Candela = 1937.912 Located At Horizontal Angle = 90, Vertical Angle = 20

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

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

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