

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGV8LEDGV-27L35KE1-AR8710GVSG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2014.1.0 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] Aug 20 2015

[UPDATE] Apr 20 2016

[TEST] SP-00396_23

[MANUFAC] Spectrum Lighting

[LUMCAT] SGV8LEDGV-27L-35K-E1-AR8710GV-SG

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

[LAMP] N/A

[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 generated by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2236
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	22.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.52
Spacing Criterion (Diagonal)	1.30
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	22103	21785	21903
55	4204	4394	4366
65	1305	1380	1393
75	1120	1048	999
85	664	684	676

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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>
0	926.41	926.41	926.41	926.41	926.41	926.41	926.41	926.41	926.41
5	939.21	922.11	950.38	923.86	932.50	940.73	932.26	928.21	925.51
10	996.85	984.61	995.70	986.18	981.99	989.33	1002.42	994.85	1000.28
15	1188.22	1207.65	1202.62	1196.09	1200.34	1210.89	1204.05	1198.79	1198.16
20	1468.64	1474.90	1486.53	1472.93	1480.69	1469.58	1478.14	1481.96	1466.65
25	1575.66	1573.94	1580.60	1572.73	1593.52	1586.46	1585.96	1584.76	1583.34
30	1375.13	1376.84	1391.38	1388.56	1386.80	1387.80	1396.07	1390.22	1393.58
35	1014.85	1020.61	1015.15	1025.77	1027.11	1025.93	1030.34	1028.32	1027.32
40	712.52	709.57	711.93	707.42	716.99	715.30	714.68	717.97	709.92
45	445.89	436.65	439.48	441.90	441.85	440.70	442.61	444.01	446.28
50	192.82	193.49	196.97	193.36	196.32	197.74	196.23	197.28	197.76
55	68.79	70.32	71.90	68.01	71.44	70.13	69.88	69.90	69.48
60	29.99	28.51	27.06	28.77	28.05	28.51	28.22	28.47	28.90
65	15.74	16.59	16.64	16.42	16.80	16.52	17.47	17.43	17.67
70	11.53	11.62	12.13	11.22	10.86	10.62	12.03	11.31	11.18
75	8.27	7.97	7.74	7.26	7.38	7.62	7.52	8.05	8.09
80	4.53	4.68	4.71	4.60	4.85	4.89	4.74	4.71	4.77
85	1.65	1.73	1.70	1.54	1.68	1.70	1.74	1.77	1.44
90	0.18	0.16	0.15	0.17	0.17	0.17	0.08	0.06	0.16

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	441.91	N.A.	19.80
0-30	1138.56	N.A.	50.90
0-40	1783.63	N.A.	79.80
0-60	2206.84	N.A.	98.70
0-80	2233.3	N.A.	99.90
0-90	2235.54	N.A.	100.00
10-90	2144.47	N.A.	95.90
20-40	1341.72	N.A.	60.00
20-50	1684.35	N.A.	75.30
40-70	441.35	N.A.	19.70
60-80	26.46	N.A.	1.20
70-80	8.32	N.A.	0.40
80-90	2.24	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	2235.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.07
10-20	350.84
20-30	696.65
30-40	645.07
40-50	342.64
50-60	80.58
60-70	18.13
70-80	8.32
80-90	2.24
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

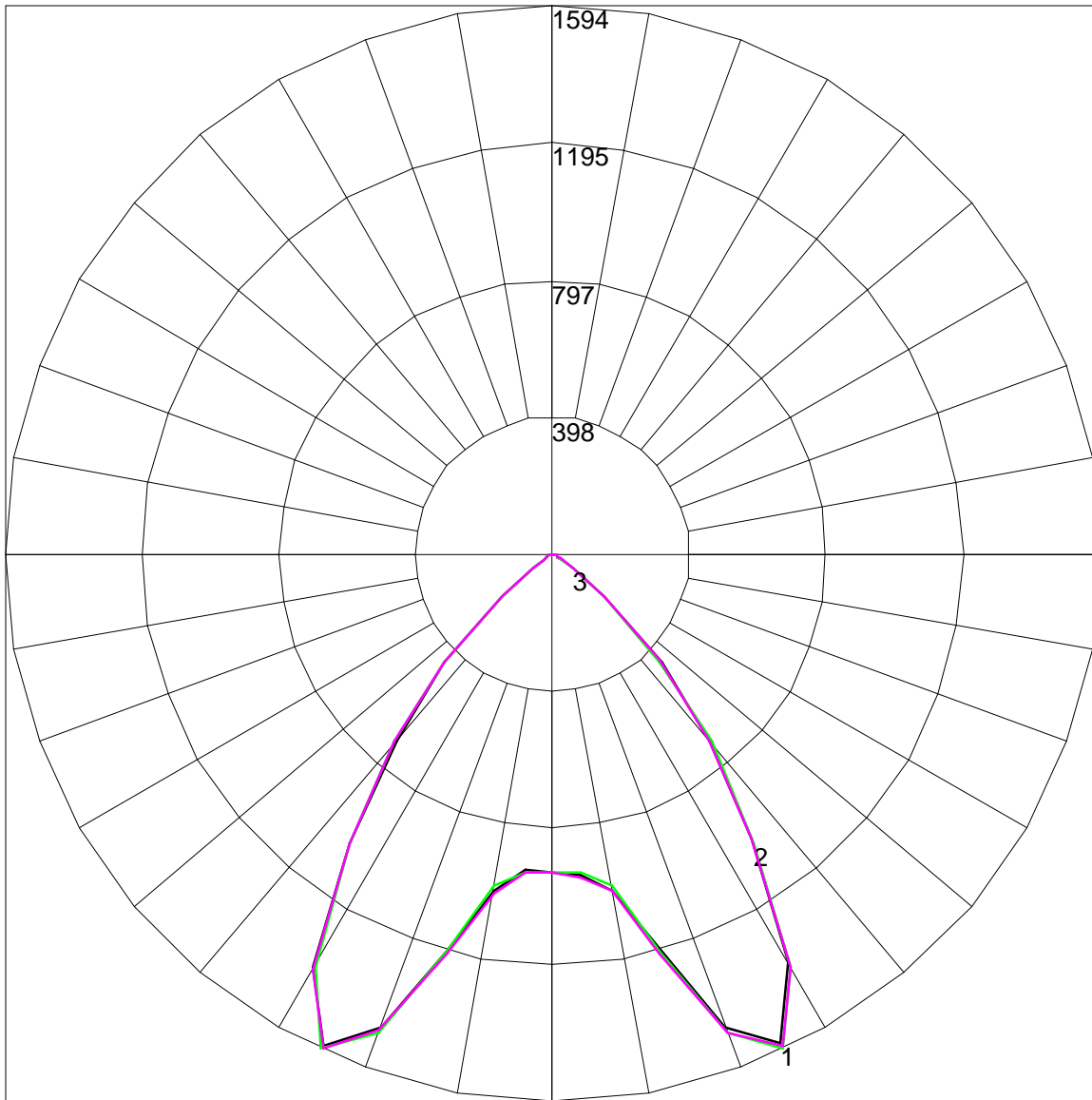
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	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	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	67	56	49	45	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

POLAR GRAPH



Maximum Candela = 1593.52 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)