

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGV8LEDGV-55L35KE1-AR8710GVSG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Aug 20 2015

[UPDATE] Apr 20 2016

[TEST] SP-00396_21_M-55L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGV8LEDGV-55L-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, scaled from 37L report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	42.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.28
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	40898	41279	41842
55	9946	10053	10010
65	2940	2763	2819
75	2026	2054	1980
85	1171	1355	1266

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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	1916.738	1916.738	1916.738	1916.738	1916.738	1916.738	1916.738	1916.738	1916.738
5	1922.118	1985.888	1966.449	1961.601	1963.242	1976.634	1964.705	1953.072	1947.558
10	2222.385	2218.468	2199.857	2174.683	2196.797	2195.068	2193.782	2189.554	2214.033
15	2597.404	2612.142	2629.437	2641.336	2589.644	2632.275	2621.085	2604.928	2645.076
20	2989.571	3007.516	2986.925	2994.109	2983.894	2997.065	2992.231	3013.931	3011.552
25	3103.170	3087.058	3062.254	3090.620	3095.750	3101.559	3070.354	3107.694	3074.981
30	2647.545	2665.135	2671.107	2639.622	2667.279	2692.024	2656.798	2672.586	2656.296
35	2014.151	2019.295	2029.125	2043.331	2032.540	2044.203	2054.388	2045.977	2018.423
40	1339.412	1351.090	1356.441	1344.364	1364.349	1359.308	1348.355	1369.449	1372.642
45	825.043	832.108	832.714	834.133	844.082	838.420	850.748	840.135	827.718
50	402.277	413.482	413.600	412.447	411.427	425.219	420.119	416.956	427.909
55	162.750	159.897	164.509	165.263	163.799	167.214	165.529	164.834	169.490
60	60.414	63.577	63.489	62.986	61.863	62.262	62.395	63.208	63.607
65	35.447	34.782	33.319	33.038	33.984	35.684	34.161	35.033	34.309
70	22.114	22.661	21.360	22.203	22.114	21.848	22.705	21.390	21.936
75	14.959	15.344	15.166	14.442	14.619	15.462	15.344	14.486	15.078
80	8.899	8.914	9.372	9.032	9.106	9.061	8.086	9.061	7.849
85	2.912	3.326	3.370	3.237	3.149	3.252	3.341	3.193	3.045
90	0.177	0.103	0.237	0.429	0.266	0.399	0.517	0.192	0.488

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	943.86	N.A.	21.10
0-30	2310.07	N.A.	51.70
0-40	3568.1	N.A.	79.90
0-60	4406.33	N.A.	98.70
0-80	4460.28	N.A.	99.90
0-90	4464.53	N.A.	100.00
10-90	4269.28	N.A.	95.60
20-40	2624.25	N.A.	58.80
20-50	3283.66	N.A.	73.50
40-70	876.11	N.A.	19.60
60-80	53.94	N.A.	1.20
70-80	16.06	N.A.	0.40
80-90	4.26	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	4464.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.26
10-20	748.60
20-30	1366.21
30-40	1258.04
40-50	659.41
50-60	178.82
60-70	37.88
70-80	16.06
80-90	4.26
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

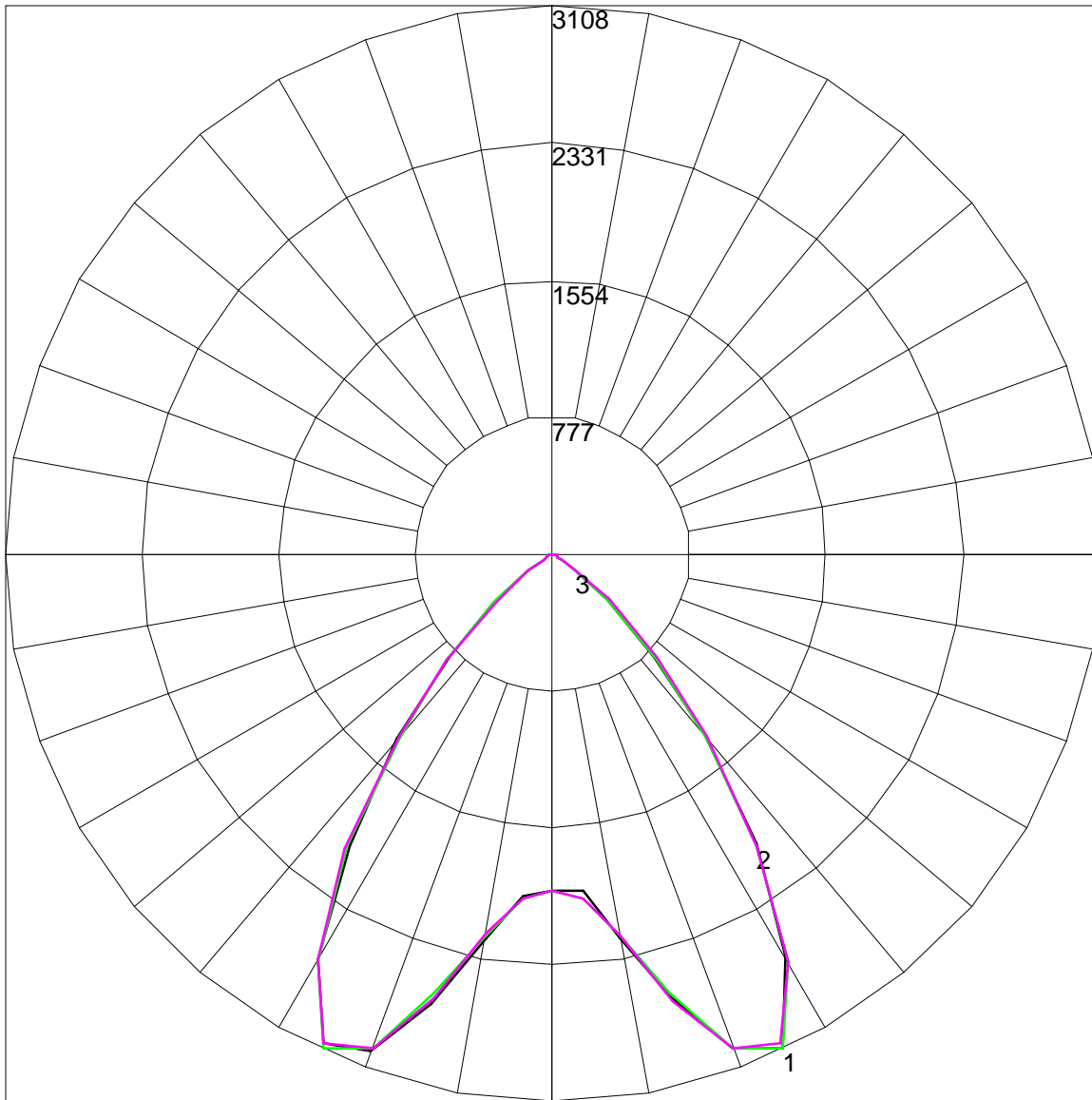
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	49	57	52	48	47
9	68	56	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

POLAR GRAPH



Maximum Candela = 3107.694 Located At Horizontal Angle = 157.5, 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)