

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE8LEDGV-27L35KE1-AR8222GVSG.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] Mon May 09 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00307\_46\_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE8LEDGV-27L-35K-E1-AR8222GV-SG

[LUMINAIRE] 8" aperture, downlight

[TRIM]Semi-diffuse anodized cone, open aperture

[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	1658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	22.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.14
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	16945	16865	17107
55	3824	3886	3943
65	721	719	772
75	39	38	11
85	33	29	23

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SGE8LEDGV-27L35KE1-AR8222GVSG.IES

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>	1154.715	1154.715	1154.715	1154.715	1154.715
<b>5</b>	1172.565	1188.065	1179.320	1162.985	1153.520
<b>10</b>	1172.165	1157.725	1152.430	1153.920	1170.910
<b>15</b>	1100.010	1111.780	1119.675	1112.245	1122.785
<b>20</b>	1061.295	1057.270	1064.915	1065.110	1064.320
<b>25</b>	982.565	979.060	972.395	975.920	970.520
<b>30</b>	861.715	875.860	866.445	876.240	858.780
<b>35</b>	727.695	722.700	726.525	720.840	721.655
<b>40</b>	539.880	551.700	549.790	552.640	544.715
<b>45</b>	335.300	337.800	333.715	337.785	338.505
<b>50</b>	135.970	139.945	141.405	139.230	140.360
<b>55</b>	61.380	61.505	62.375	62.515	63.290
<b>60</b>	31.155	31.705	31.005	31.295	31.995
<b>65</b>	8.525	9.525	8.505	9.090	9.130
<b>70</b>	0.335	0.265	0.370	0.400	0.275
<b>75</b>	0.280	0.245	0.275	0.180	0.080
<b>80</b>	0.160	0.135	0.195	0.105	0.110
<b>85</b>	0.080	0.060	0.070	0.025	0.055
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGE8LEDGV-27L35KE1-AR8222GVSG.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	425.43	N.A.	25.70
0-30	872.81	N.A.	52.60
0-40	1319.8	N.A.	79.60
0-60	1645.54	N.A.	99.20
0-80	1657.96	N.A.	100.00
0-90	1658.03	N.A.	100.00
10-90	1546.77	N.A.	93.30
20-40	894.37	N.A.	53.90
20-50	1154.58	N.A.	69.60
40-70	337.92	N.A.	20.40
60-80	12.42	N.A.	0.70
70-80	0.24	N.A.	0.00
80-90	0.07	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	1658.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.26
10-20	314.17
20-30	447.37
30-40	446.99
40-50	260.22
50-60	65.52
60-70	12.18
70-80	0.24
80-90	0.07
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

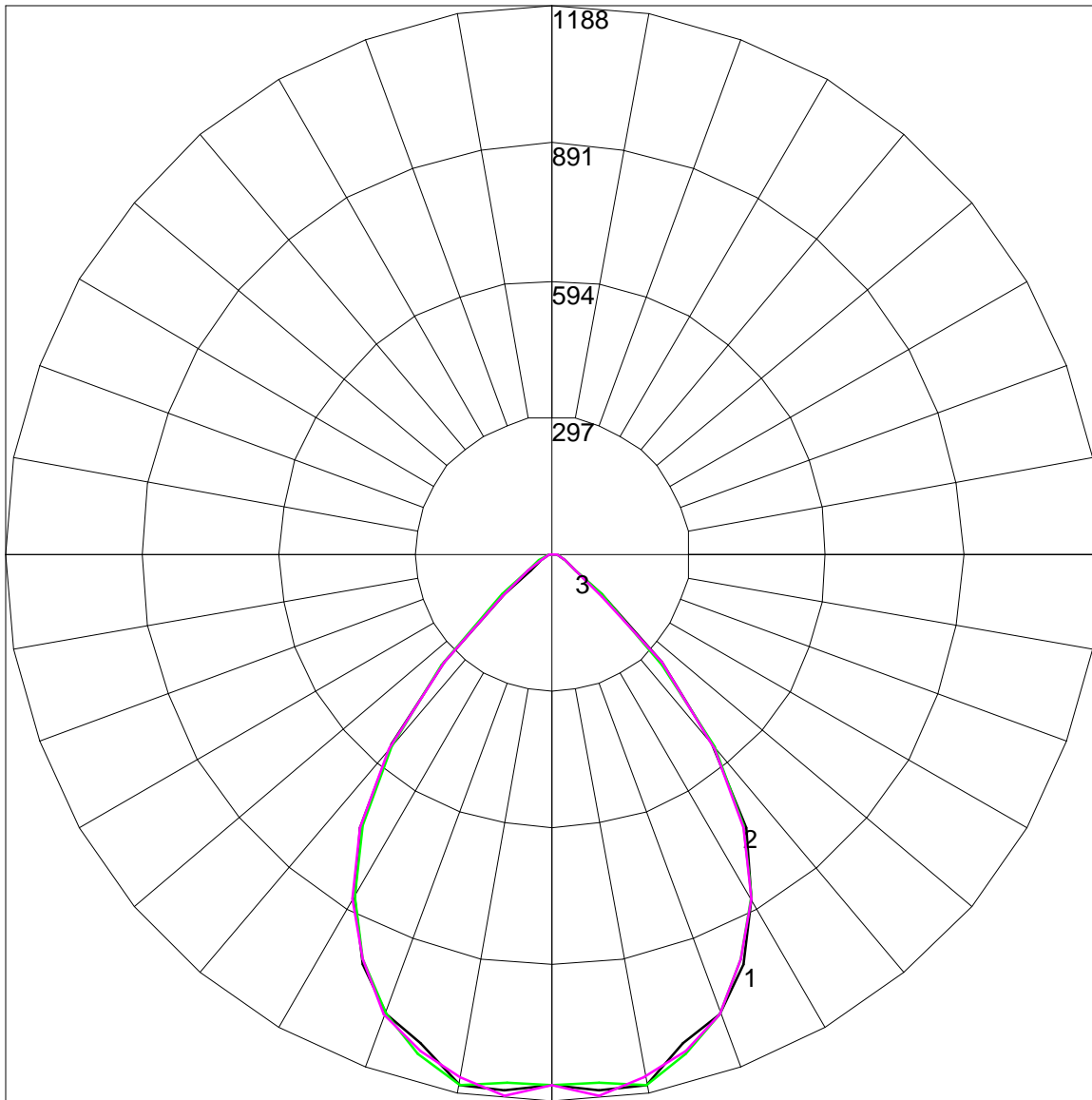
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SGE8LEDGV-27L35KE1-AR8222GVSG.IES**

**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	107	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	77	72	80	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	58
7	78	67	60	55	76	66	60	55	65	59	55	64	59	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	47	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 1188.065 Located At Horizontal Angle = 22.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (45 - 225)