

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE8LEDGV-60L35KE1-AR8222GVSG.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: [www.ltiophics.com/ies](http://www.ltiophics.com/ies)

[ISSUE DATE]

[TEST DATE] Mon May 09 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00307\_46\_M-60L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE8LEDGV-60L-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	3592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	48.6
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	36713	36539	37064
55	8285	8420	8543
65	1562	1558	1673
75	84	82	24
85	71	62	49

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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>
<b>0</b>	2501.806	2501.806	2501.806	2501.806	2501.806
<b>5</b>	2540.479	2574.062	2555.115	2519.723	2499.216
<b>10</b>	2539.613	2508.327	2496.855	2500.083	2536.894
<b>15</b>	2383.282	2408.783	2425.888	2409.790	2432.626
<b>20</b>	2299.402	2290.681	2307.245	2307.667	2305.956
<b>25</b>	2128.825	2121.231	2106.791	2114.428	2102.729
<b>30</b>	1866.992	1897.638	1877.240	1898.462	1860.633
<b>35</b>	1576.624	1565.802	1574.089	1561.772	1563.538
<b>40</b>	1169.704	1195.313	1191.175	1197.350	1180.180
<b>45</b>	726.461	731.877	723.027	731.845	733.405
<b>50</b>	294.593	303.205	306.368	301.656	304.104
<b>55</b>	132.986	133.257	135.142	135.445	137.124
<b>60</b>	67.500	68.692	67.175	67.804	69.320
<b>65</b>	18.470	20.637	18.427	19.694	19.781
<b>70</b>	0.726	0.574	0.802	0.867	0.596
<b>75</b>	0.607	0.531	0.596	0.390	0.173
<b>80</b>	0.347	0.292	0.422	0.227	0.238
<b>85</b>	0.173	0.130	0.152	0.054	0.119
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	921.75	N.A.	25.70
0-30	1891.03	N.A.	52.60
0-40	2859.48	N.A.	79.60
0-60	3565.23	N.A.	99.20
0-80	3592.14	N.A.	100.00
0-90	3592.29	N.A.	100.00
10-90	3351.22	N.A.	93.30
20-40	1937.73	N.A.	53.90
20-50	2501.52	N.A.	69.60
40-70	732.13	N.A.	20.40
60-80	26.91	N.A.	0.70
70-80	0.52	N.A.	0.00
80-90	0.15	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	3592.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	241.06
10-20	680.68
20-30	969.28
30-40	968.45
40-50	563.79
50-60	141.96
60-70	26.38
70-80	0.52
80-90	0.15
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

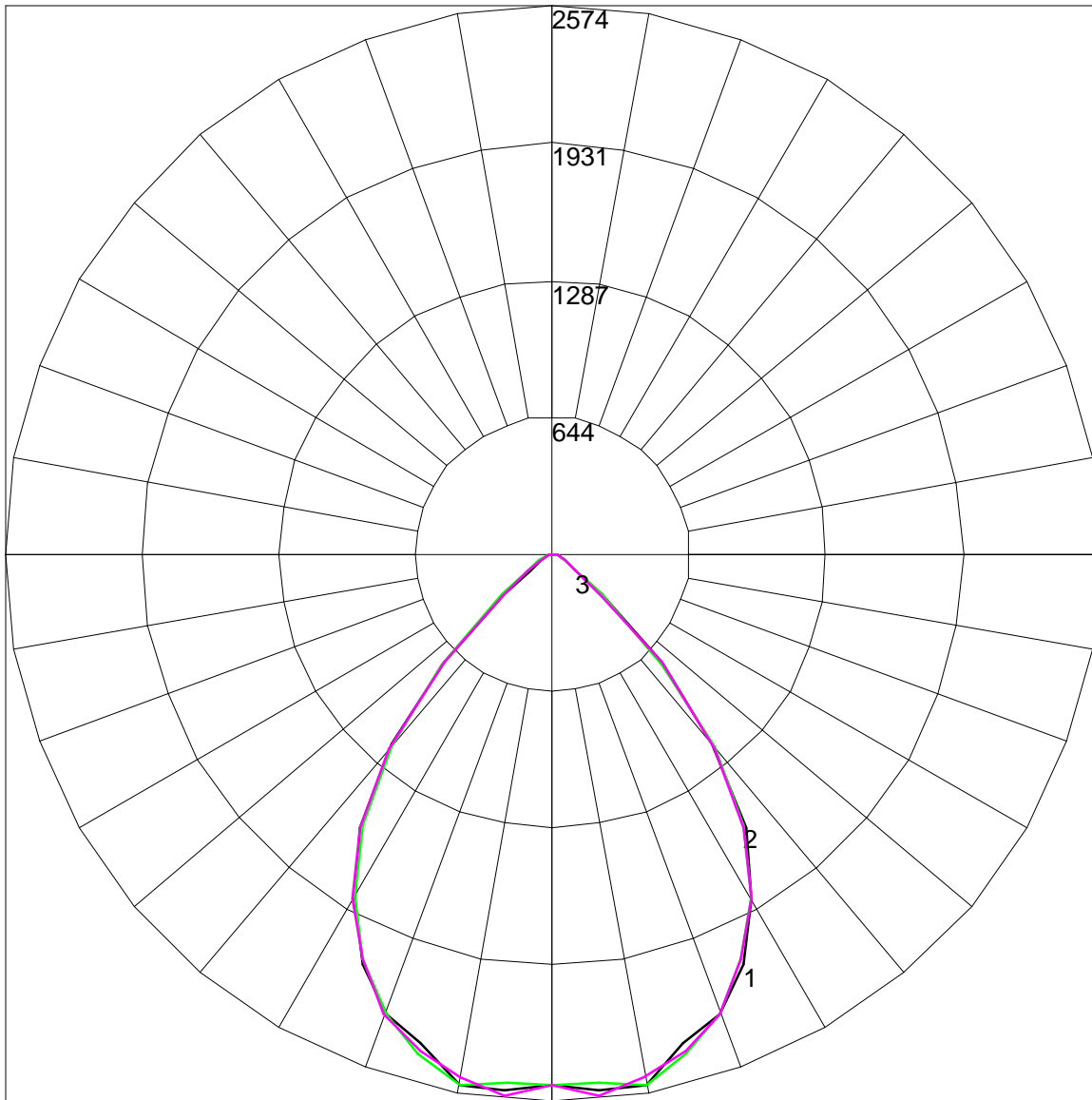
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	110	108	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	73	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 = 2574.062 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)