

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE6LEDGV-55L35KE1-AR6222GV-SG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]101650171CRT-015  
[TESTLAB]Intertek  
[LAB-REF LUMCAT]1502171140-002  
[ISSUEDATE] 03/18/2015  
[UPDATE] 08/05/2016  
[MANUFAC]SPECTRUM  
[LUMCAT]SGE6LEDGV-55L-35K-E1-AR6222GV-SG  
[LUMINAIRE] 6" 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]Cat. No. designation changed from 45W to 55L  
[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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20061	19581	19263
55	4736	4688	4555
65	0	39	285
75	360	0	5184
85	0	691	14013

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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>
0.0	4418.9	4418.9	4418.9	4418.9	4418.9
2.5	4366.8	4375.3	4378.9	4374.6	4376.1
5.0	4265.1	4253.4	4262.3	4269.5	4253.6
7.5	4082.1	4091.3	4096.8	4103.9	4094.1
10.0	3899.7	3915.8	3899.0	3908.3	3914.2
12.5	3682.2	3681.8	3655.0	3666.5	3677.6
15.0	3412.6	3413.3	3381.9	3403.8	3406.2
17.5	3123.3	3127.3	3119.1	3122.3	3114.3
20.0	2845.7	2839.5	2836.5	2819.1	2824.4
22.5	2547.3	2541.0	2547.2	2538.5	2543.6
25.0	2252.9	2254.6	2243.4	2252.2	2250.4
27.5	1974.7	1966.6	1971.6	1972.3	1968.5
30.0	1699.1	1685.5	1691.9	1695.8	1688.6
32.5	1412.7	1404.8	1403.8	1412.6	1410.1
35.0	1147.1	1130.1	1139.2	1142.3	1146.5
37.5	889.7	877.0	880.8	882.2	885.1
40.0	642.6	637.0	637.7	644.1	638.8
42.5	431.5	422.5	424.3	430.1	423.1
45.0	259.0	254.7	252.8	251.3	248.7
47.5	163.2	159.5	157.1	157.6	157.1
50.0	122.1	120.1	120.1	121.0	120.2
52.5	82.2	80.1	80.4	81.3	80.3
55.0	49.6	47.9	49.1	50.6	47.7
57.5	24.8	23.8	24.3	26.2	23.2
60.0	5.4	5.5	6.0	9.5	6.2
62.5	0.1	1.1	1.0	3.8	1.8
65.0	0.0	0.5	0.3	4.2	2.2
67.5	0.0	0.7	0.0	7.5	7.9
70.0	0.0	6.9	0.0	12.7	14.8
72.5	1.7	10.0	0.0	20.1	19.7
75.0	1.7	12.3	0.0	26.7	24.5
77.5	2.6	18.9	0.1	30.5	25.8
80.0	1.8	20.2	1.0	33.1	28.5
82.5	0.7	20.7	2.6	32.9	28.2
85.0	0.0	17.7	1.1	26.0	22.3
87.5	0.0	8.7	0.0	12.3	10.3
90.0	0.0	1.1	0.0	2.7	1.2
92.5	3.9	1.7	0.0	2.6	1.3
95.0	11.0	2.2	0.0	4.5	6.3
97.5	6.2	0.0	0.0	0.8	4.9
100.0	2.3	0.0	0.0	0.0	2.7
102.5	0.6	0.0	0.0	0.0	1.3
105.0	0.1	0.0	0.0	0.0	0.7
107.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.4
122.5	0.0	0.0	0.0	0.0	1.3
125.0	0.0	0.0	0.0	0.0	1.5
127.5	0.0	0.0	0.0	0.0	1.6
130.0	0.0	0.0	0.0	0.0	1.3
132.5	0.0	0.0	0.0	0.1	1.1

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135.0	0.0	0.0	0.3	0.4	1.2
137.5	0.0	0.0	0.9	0.9	1.5
140.0	0.0	0.0	1.2	1.0	1.8
142.5	0.0	0.0	0.6	0.8	1.3
145.0	0.0	0.0	0.1	1.0	1.3
147.5	0.2	0.0	0.0	1.2	1.4
150.0	0.0	0.0	0.0	1.7	1.3
152.5	0.0	0.0	0.0	2.1	1.4
155.0	0.0	0.0	0.5	1.1	1.2
157.5	0.3	0.0	0.0	0.9	0.8
160.0	0.0	0.0	0.0	1.0	0.8
162.5	0.0	0.0	0.1	0.0	0.5
165.0	0.3	0.2	0.1	0.0	0.0
167.5	0.3	0.3	0.1	0.0	0.0
170.0	0.3	0.4	0.2	0.0	0.0
172.5	0.3	0.1	0.0	0.0	0.0
175.0	0.3	0.3	0.2	0.2	0.1
177.5	0.4	0.2	0.1	0.1	0.3
180.0	0.1	0.1	0.1	0.1	0.1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1340.92	N.A.	39.60
0-30	2369.92	N.A.	69.90
0-40	3078.74	N.A.	90.80
0-60	3356.92	N.A.	99.00
0-80	3373.74	N.A.	99.50
0-90	3386.65	N.A.	99.90
10-90	2991.38	N.A.	88.20
20-40	1737.83	N.A.	51.30
20-50	1968.08	N.A.	58.10
40-70	281.41	N.A.	8.30
60-80	16.82	N.A.	0.50
70-80	13.59	N.A.	0.40
80-90	12.91	N.A.	0.40
90-110	2.36	N.A.	0.10
90-120	2.37	N.A.	0.10
90-130	2.51	N.A.	0.10
90-150	3.15	N.A.	0.10
90-180	3.45	N.A.	0.10
110-180	1.09	N.A.	0.00
0-180	3390.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	395.27
10-20	945.65
20-30	1029.00
30-40	708.83
40-50	230.25
50-60	47.93
60-70	3.23
70-80	13.59
80-90	12.91
90-100	2.19
100-110	0.17
110-120	0.01
120-130	0.15
130-140	0.30
140-150	0.34
150-160	0.25
160-170	0.04
170-180	0.01

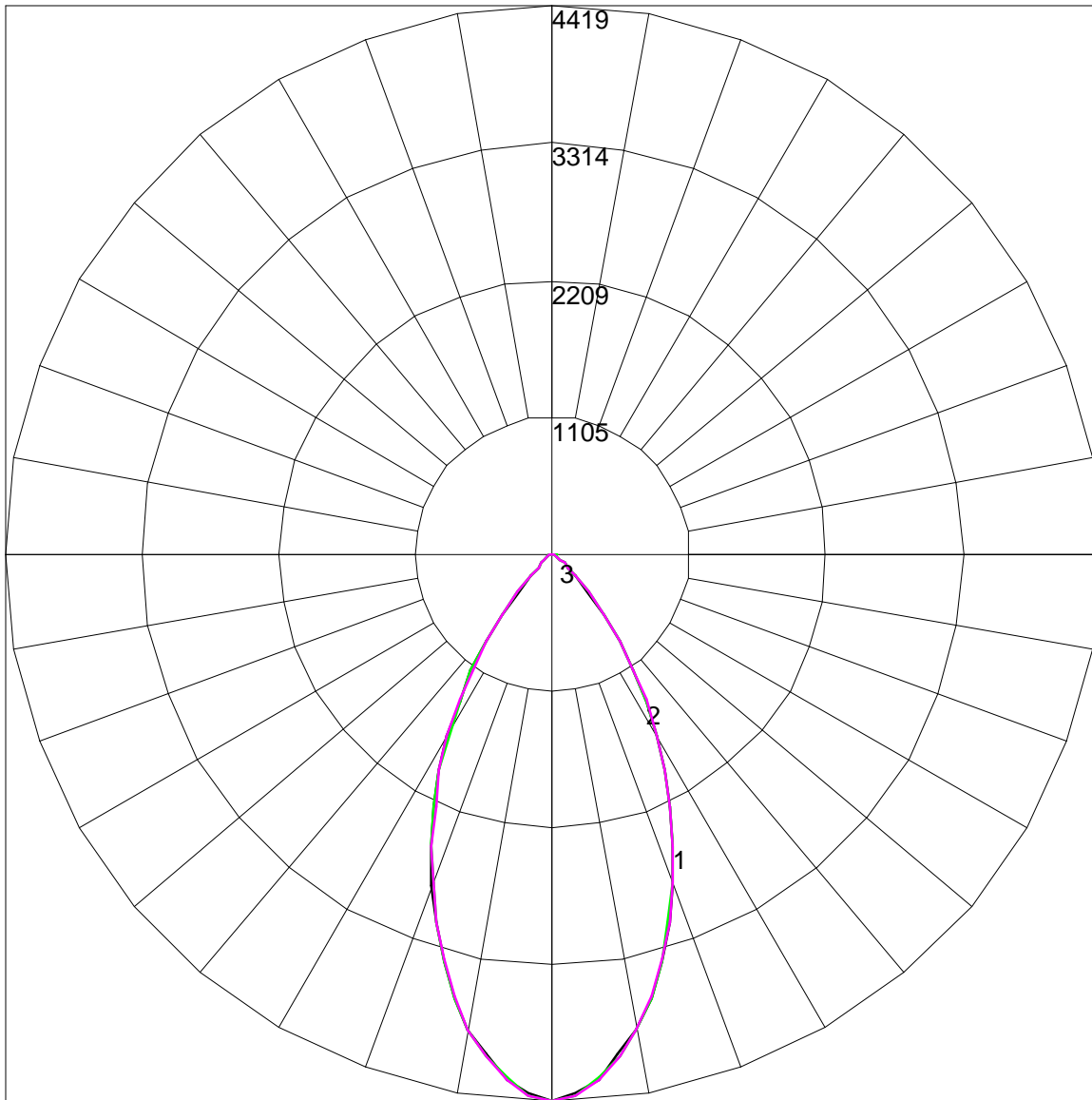
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	56	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 4418.9 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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