

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE6LEDGV-60L35KE1-AR6222GV-SG.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]101650171CRT-015\_M-37L  
 [TESTLAB]Intertek  
 [LAB-REF LUMCAT]1502171140-002\_M-60L  
 [ISSUEDATE] 03/18/2015  
 [UPDATE] 08/05/2016  
 [MANUFAC]SPECTRUM  
 [LUMCAT]SGE6LEDGV-60L-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]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 55L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3673
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	46.6
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21732	21212	20868
55	5131	5079	4934
65	0	42	309
75	390	0	5616
85	0	749	15181

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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	4786.994	4786.994	4786.994	4786.994	4786.994
2.5	4730.554	4739.762	4743.662	4739.004	4740.629
5.0	4620.383	4607.708	4617.350	4625.149	4607.925
7.5	4422.139	4432.105	4438.063	4445.755	4435.139
10.0	4224.545	4241.986	4223.787	4233.861	4240.253
12.5	3988.927	3988.494	3959.461	3971.919	3983.944
15.0	3696.870	3697.628	3663.612	3687.337	3689.936
17.5	3383.471	3387.804	3378.921	3382.388	3373.721
20.0	3082.747	3076.030	3072.780	3053.931	3059.673
22.5	2759.490	2752.665	2759.382	2749.957	2755.482
25.0	2440.567	2442.408	2430.275	2439.808	2437.858
27.5	2139.192	2130.418	2135.834	2136.593	2132.476
30.0	1840.635	1825.902	1832.835	1837.060	1829.260
32.5	1530.378	1521.820	1520.737	1530.270	1527.561
35.0	1242.653	1224.237	1234.095	1237.454	1242.003
37.5	963.812	950.054	954.171	955.687	958.829
40.0	696.129	690.062	690.820	697.754	692.012
42.5	467.444	457.694	459.644	465.927	458.344
45.0	280.575	275.917	273.858	272.233	269.417
47.5	176.795	172.786	170.186	170.728	170.186
50.0	132.271	130.104	130.104	131.079	130.213
52.5	89.047	86.772	87.097	88.072	86.989
55.0	53.732	51.890	53.190	54.815	51.673
57.5	26.866	25.783	26.324	28.382	25.133
60.0	5.850	5.958	6.500	10.291	6.716
62.5	0.108	1.192	1.083	4.117	1.950
65.0	0.000	0.542	0.325	4.550	2.383
67.5	0.000	0.758	0.000	8.125	8.558
70.0	0.000	7.475	0.000	13.758	16.033
72.5	1.842	10.833	0.000	21.774	21.341
75.0	1.842	13.325	0.000	28.924	26.541
77.5	2.817	20.474	0.108	33.041	27.949
80.0	1.950	21.883	1.083	35.857	30.874
82.5	0.758	22.424	2.817	35.641	30.549
85.0	0.000	19.174	1.192	28.166	24.158
87.5	0.000	9.425	0.000	13.325	11.158
90.0	0.000	1.192	0.000	2.925	1.300
92.5	4.225	1.842	0.000	2.817	1.408
95.0	11.916	2.383	0.000	4.875	6.825
97.5	6.716	0.000	0.000	0.867	5.308
100.0	2.492	0.000	0.000	0.000	2.925
102.5	0.650	0.000	0.000	0.000	1.408
105.0	0.108	0.000	0.000	0.000	0.758
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.433
122.5	0.000	0.000	0.000	0.000	1.408
125.0	0.000	0.000	0.000	0.000	1.625
127.5	0.000	0.000	0.000	0.000	1.733
130.0	0.000	0.000	0.000	0.000	1.408
132.5	0.000	0.000	0.000	0.108	1.192

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	0.000	0.325	0.433	1.300
<b>137.5</b>	0.000	0.000	0.975	0.975	1.625
<b>140.0</b>	0.000	0.000	1.300	1.083	1.950
<b>142.5</b>	0.000	0.000	0.650	0.867	1.408
<b>145.0</b>	0.000	0.000	0.108	1.083	1.408
<b>147.5</b>	0.217	0.000	0.000	1.300	1.517
<b>150.0</b>	0.000	0.000	0.000	1.842	1.408
<b>152.5</b>	0.000	0.000	0.000	2.275	1.517
<b>155.0</b>	0.000	0.000	0.542	1.192	1.300
<b>157.5</b>	0.325	0.000	0.000	0.975	0.867
<b>160.0</b>	0.000	0.000	0.000	1.083	0.867
<b>162.5</b>	0.000	0.000	0.108	0.000	0.542
<b>165.0</b>	0.325	0.217	0.108	0.000	0.000
<b>167.5</b>	0.325	0.325	0.108	0.000	0.000
<b>170.0</b>	0.325	0.433	0.217	0.000	0.000
<b>172.5</b>	0.325	0.108	0.000	0.000	0.000
<b>175.0</b>	0.325	0.325	0.217	0.217	0.108
<b>177.5</b>	0.433	0.217	0.108	0.108	0.325
<b>180.0</b>	0.108	0.108	0.108	0.108	0.108

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1452.61	N.A.	39.60
0-30	2567.33	N.A.	69.90
0-40	3335.2	N.A.	90.80
0-60	3636.56	N.A.	99.00
0-80	3654.77	N.A.	99.50
0-90	3668.76	N.A.	99.90
10-90	3240.57	N.A.	88.20
20-40	1882.59	N.A.	51.30
20-50	2132.02	N.A.	58.10
40-70	304.85	N.A.	8.30
60-80	18.22	N.A.	0.50
70-80	14.72	N.A.	0.40
80-90	13.99	N.A.	0.40
90-110	2.56	N.A.	0.10
90-120	2.56	N.A.	0.10
90-130	2.72	N.A.	0.10
90-150	3.41	N.A.	0.10
90-180	3.74	N.A.	0.10
110-180	1.18	N.A.	0.00
0-180	3672.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	428.19
10-20	1024.42
20-30	1114.72
30-40	767.87
40-50	249.43
50-60	51.92
60-70	3.50
70-80	14.72
80-90	13.99
90-100	2.37
100-110	0.19
110-120	0.01
120-130	0.16
130-140	0.33
140-150	0.36
150-160	0.27
160-170	0.05
170-180	0.02

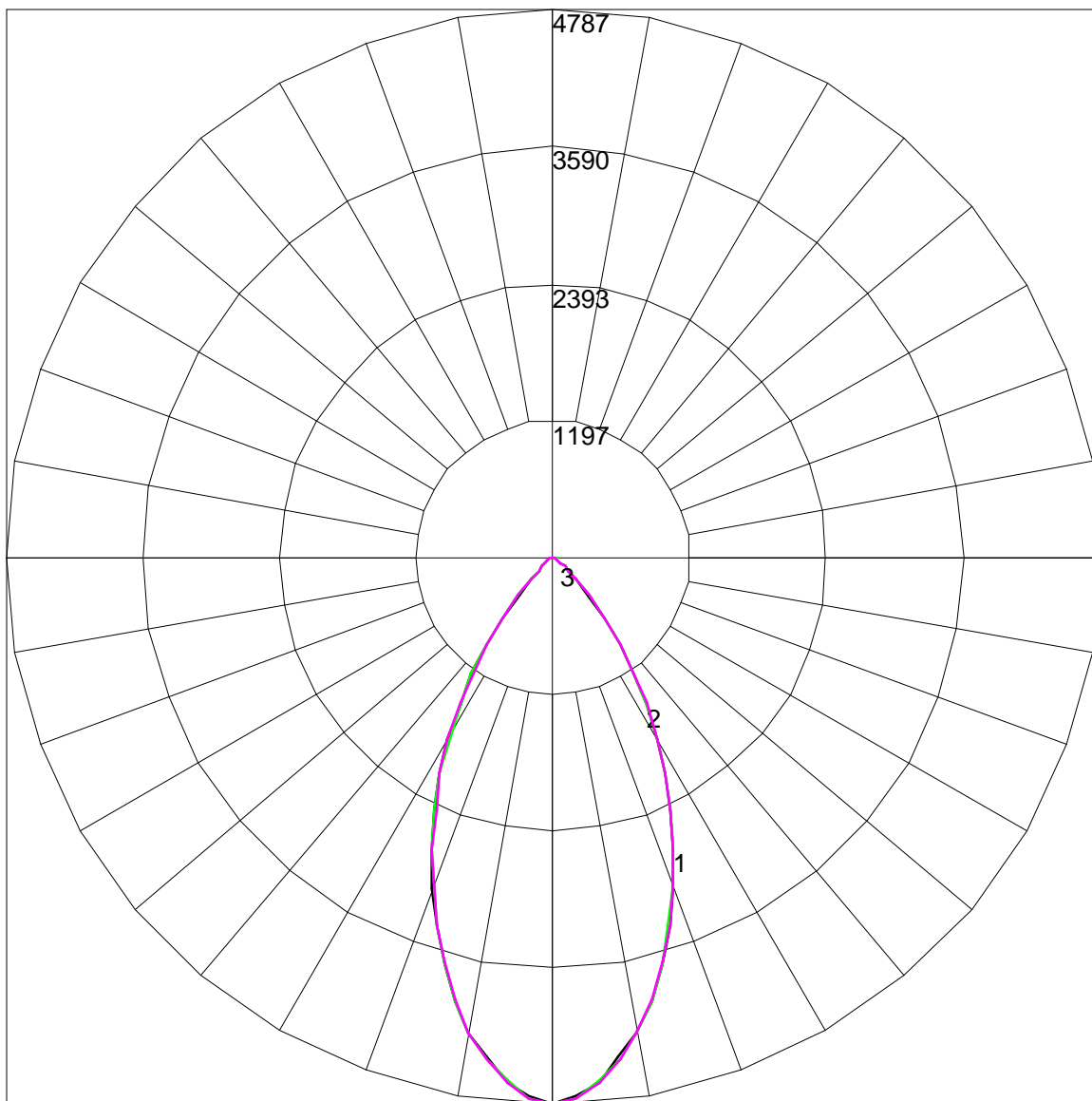
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	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 = 4786.994 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)