

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE5LEDGV-55L35KE1-AR5222GVSGSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00522\_1

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE5LEDGV-55L-35K-E1-AR5222GV-SG-SO

[LUMINAIRE] 5" aperture, downlight

[TRIM] Semi-diffuse anodized cone, open aperture, regressed Solite lens

[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

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2705               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 64                 |
| Total Luminaire Watts           | 42.6               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.96               |
| Spacing Criterion (90-270)      | 0.96               |
| Spacing Criterion (Diagonal)    | 0.96               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.41 ft (Diameter) |
| Luminous Width (90-270)         | 0.41 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 43130            | 43617             | 43640             |
| 55                  | 15902            | 15852             | 16234             |
| 65                  | 1061             | 1003              | 1109              |
| 75                  | 219              | 213               | 172               |
| 85                  | 130              | 130               | 121               |

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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>  | 2450.08    | 2450.08     | 2450.08     | 2450.08     | 2450.08     |
| <b>5</b>  | 2488.87    | 2467.29     | 2445.48     | 2456.82     | 2472.09     |
| <b>10</b> | 2437.10    | 2426.70     | 2430.60     | 2450.11     | 2462.36     |
| <b>15</b> | 2325.22    | 2319.41     | 2294.95     | 2299.07     | 2285.31     |
| <b>20</b> | 2024.06    | 2028.67     | 2043.60     | 2043.21     | 2048.61     |
| <b>25</b> | 1693.45    | 1685.72     | 1685.53     | 1711.77     | 1710.25     |
| <b>30</b> | 1333.33    | 1357.50     | 1354.11     | 1339.85     | 1348.14     |
| <b>35</b> | 1004.09    | 1004.97     | 998.62      | 996.88      | 1007.85     |
| <b>40</b> | 659.57     | 659.36      | 660.18      | 661.91      | 657.67      |
| <b>45</b> | 376.85     | 378.31      | 381.11      | 377.46      | 381.31      |
| <b>50</b> | 204.29     | 200.48      | 206.11      | 203.28      | 203.91      |
| <b>55</b> | 112.71     | 111.85      | 112.35      | 115.27      | 115.06      |
| <b>60</b> | 48.10      | 47.89       | 46.78       | 47.90       | 48.40       |
| <b>65</b> | 5.54       | 5.50        | 5.24        | 5.20        | 5.79        |
| <b>70</b> | 0.98       | 0.93        | 1.08        | 1.15        | 0.98        |
| <b>75</b> | 0.70       | 0.61        | 0.68        | 0.73        | 0.55        |
| <b>80</b> | 0.43       | 0.33        | 0.36        | 0.36        | 0.28        |
| <b>85</b> | 0.14       | 0.15        | 0.14        | 0.11        | 0.13        |
| <b>90</b> | 0.00       | 0.02        | 0.00        | 0.03        | 0.00        |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 873.38  | N.A.  | 32.30  |
| 0-30    | 1650.28 | N.A.  | 61.00  |
| 0-40    | 2273.52 | N.A.  | 84.00  |
| 0-60    | 2689.71 | N.A.  | 99.40  |
| 0-80    | 2704.97 | N.A.  | 100.00 |
| 0-90    | 2705.14 | N.A.  | 100.00 |
| 10-90   | 2471.06 | N.A.  | 91.30  |
| 20-40   | 1400.13 | N.A.  | 51.80  |
| 20-50   | 1710.21 | N.A.  | 63.20  |
| 40-70   | 430.73  | N.A.  | 15.90  |
| 60-80   | 15.25   | N.A.  | 0.60   |
| 70-80   | 0.71    | N.A.  | 0.00   |
| 80-90   | 0.17    | 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   | 2705.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 234.08 |
| 10-20   | 639.30 |
| 20-30   | 776.90 |
| 30-40   | 623.23 |
| 40-50   | 310.08 |
| 50-60   | 106.11 |
| 60-70   | 14.54  |
| 70-80   | 0.71   |
| 80-90   | 0.17   |
| 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   |

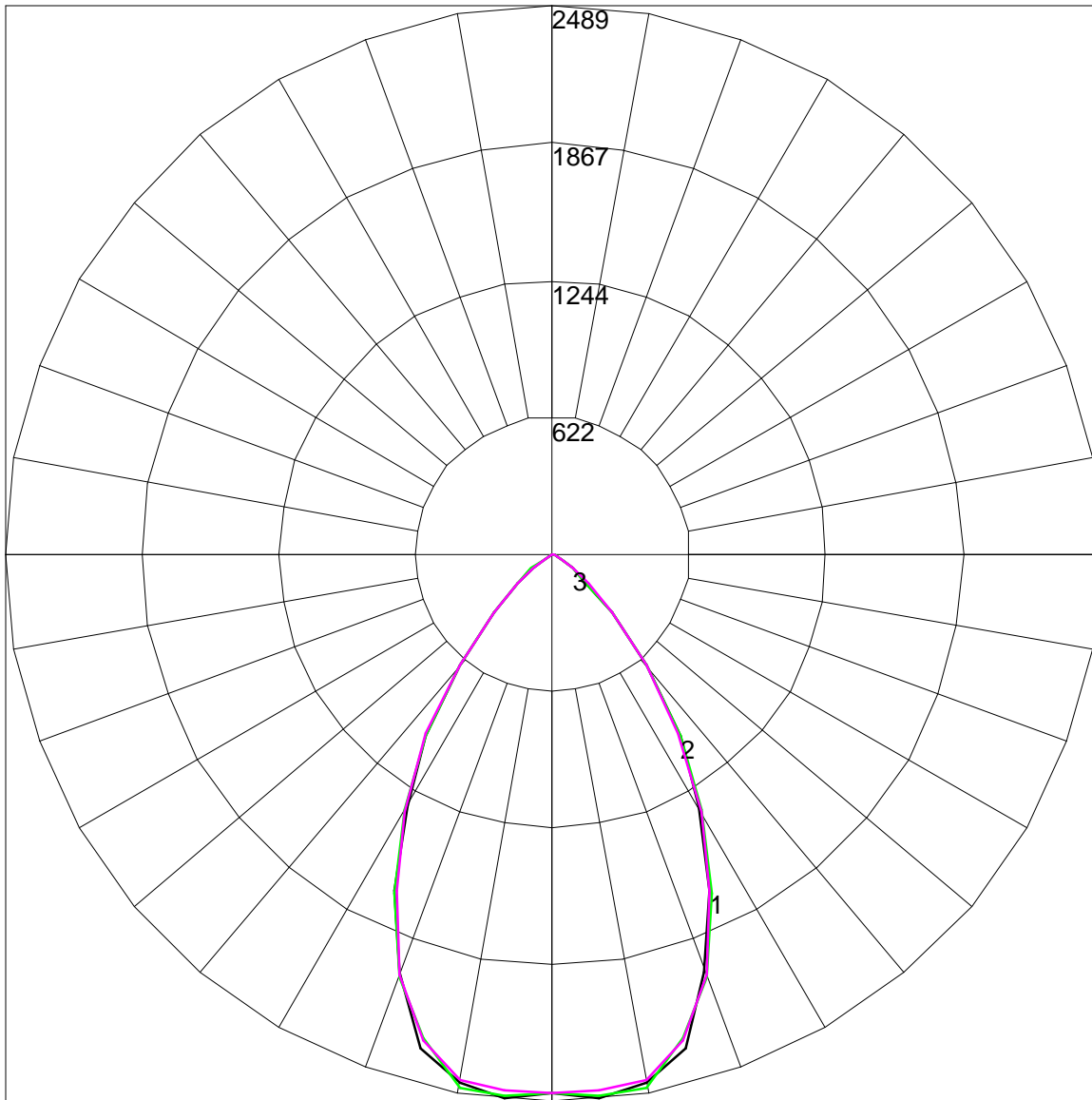
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  |
| 2  | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |
| 3  | 101 | 94  | 89  | 84  | 99  | 93  | 88  | 84  | 90  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 78  |
| 4  | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 82  | 77  | 74  | 80  | 76  | 73  | 72  |
| 5  | 90  | 81  | 74  | 70  | 88  | 80  | 74  | 69  | 78  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  |
| 6  | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  | 71  | 67  | 63  | 70  | 66  | 62  | 61  |
| 7  | 80  | 70  | 64  | 59  | 79  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |
| 8  | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 52  |
| 9  | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 58  | 54  | 50  | 49  |
| 10 | 68  | 58  | 52  | 48  | 67  | 57  | 51  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 46  |

POLAR GRAPH



Maximum Candela = 2488.87 Located At Horizontal Angle = 0, 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)