SPECTRUM LIGHTING INC.
www.speclight.com

PHOTOMETRY

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGE4LEDGV-55L35KE1-AR4222GVSGSO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TESTLAB]  Photopia 2015.1.1 see: www.ltioptics.com/ies
[ISSUEDATE]
[TESTDATE] Fri Aug 05 2016
[UPDATE] Wed Aug 10 2016
[TEST]  SP-00521_1
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE4LEDGV-55L-35K-E1-AR4222GV-SG-SO
[LUMINAIRE] 4" 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 | 2791 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 66 |
| Total Luminaire Watts | 42.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.90 |
| Spacing Criterion (90-270) | 0.90 |
| Spacing Criterion (Diagonal) | 0.92 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.33 ft (Diameter) |
| Luminous Width (90-270) | 0.33 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 | 67619 | 67687 | 67144 |
| 55 | 28582 | 29139 | 28170 |
| 65 | 6221 | 6087 | 6329 |
| 75 | 576 | 633 | 648 |
| 85 | 382 | 453 | 325 |

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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| **0** | 2688.83 | 2688.83 | 2688.83 | 2688.83 | 2688.83 |
| **5** | 2703.66 | 2663.79 | 2710.10 | 2672.97 | 2699.47 |
| **10** | 2627.93 | 2664.92 | 2606.21 | 2609.55 | 2643.27 |
| **15** | 2441.89 | 2404.56 | 2425.53 | 2417.82 | 2409.89 |
| **20** | 2069.13 | 2068.00 | 2079.86 | 2082.95 | 2081.91 |
| **25** | 1679.74 | 1694.10 | 1687.54 | 1691.06 | 1695.53 |
| **30** | 1333.33 | 1333.32 | 1323.19 | 1322.42 | 1323.61 |
| **35** | 1002.16 | 998.47 | 996.33 | 988.88 | 983.51 |
| **40** | 659.16 | 659.58 | 659.67 | 666.35 | 656.59 |
| **45** | 387.93 | 386.46 | 388.32 | 392.39 | 385.20 |
| **50** | 225.66 | 223.05 | 222.62 | 222.35 | 228.22 |
| **55** | 133.01 | 130.51 | 135.60 | 134.69 | 131.09 |
| **60** | 69.40 | 69.28 | 69.08 | 69.24 | 69.07 |
| **65** | 21.33 | 21.30 | 20.87 | 21.79 | 21.70 |
| **70** | 2.68 | 2.61 | 2.35 | 2.66 | 2.44 |
| **75** | 1.21 | 1.43 | 1.33 | 1.48 | 1.36 |
| **80** | 0.75 | 0.69 | 0.82 | 0.70 | 0.79 |
| **85** | 0.27 | 0.25 | 0.32 | 0.29 | 0.23 |
| **90** | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 |

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**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 924.31 | N.A. | 33.10 |
| 0-30 | 1701.16 | N.A. | 60.90 |
| 0-40 | 2319.07 | N.A. | 83.10 |
| 0-60 | 2761.45 | N.A. | 98.90 |
| 0-80 | 2791.12 | N.A. | 100.00 |
| 0-90 | 2791.48 | N.A. | 100.00 |
| 10-90 | 2537.04 | N.A. | 90.90 |
| 20-40 | 1394.75 | N.A. | 50.00 |
| 20-50 | 1712.74 | N.A. | 61.40 |
| 40-70 | 470.46 | N.A. | 16.90 |
| 60-80 | 29.67 | N.A. | 1.10 |
| 70-80 | 1.60 | N.A. | 0.10 |
| 80-90 | 0.36 | 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 | 2791.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 254.44 |
| 10-20 | 669.87 |
| 20-30 | 776.85 |
| 30-40 | 617.90 |
| 40-50 | 317.99 |
| 50-60 | 124.40 |
| 60-70 | 28.07 |
| 70-80 | 1.60 |
| 80-90 | 0.36 |
| 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 | 95 | 94 | 93 |
| 2 | 107 | 102 | 97 | 93 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 79 | 78 |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 83 | 79 | 75 | 81 | 77 | 74 | 80 | 76 | 73 | 71 |
| 5 | 90 | 81 | 74 | 70 | 88 | 80 | 74 | 69 | 78 | 73 | 69 | 76 | 72 | 68 | 74 | 71 | 67 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 69 | 63 | 59 | 68 | 63 | 58 | 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 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

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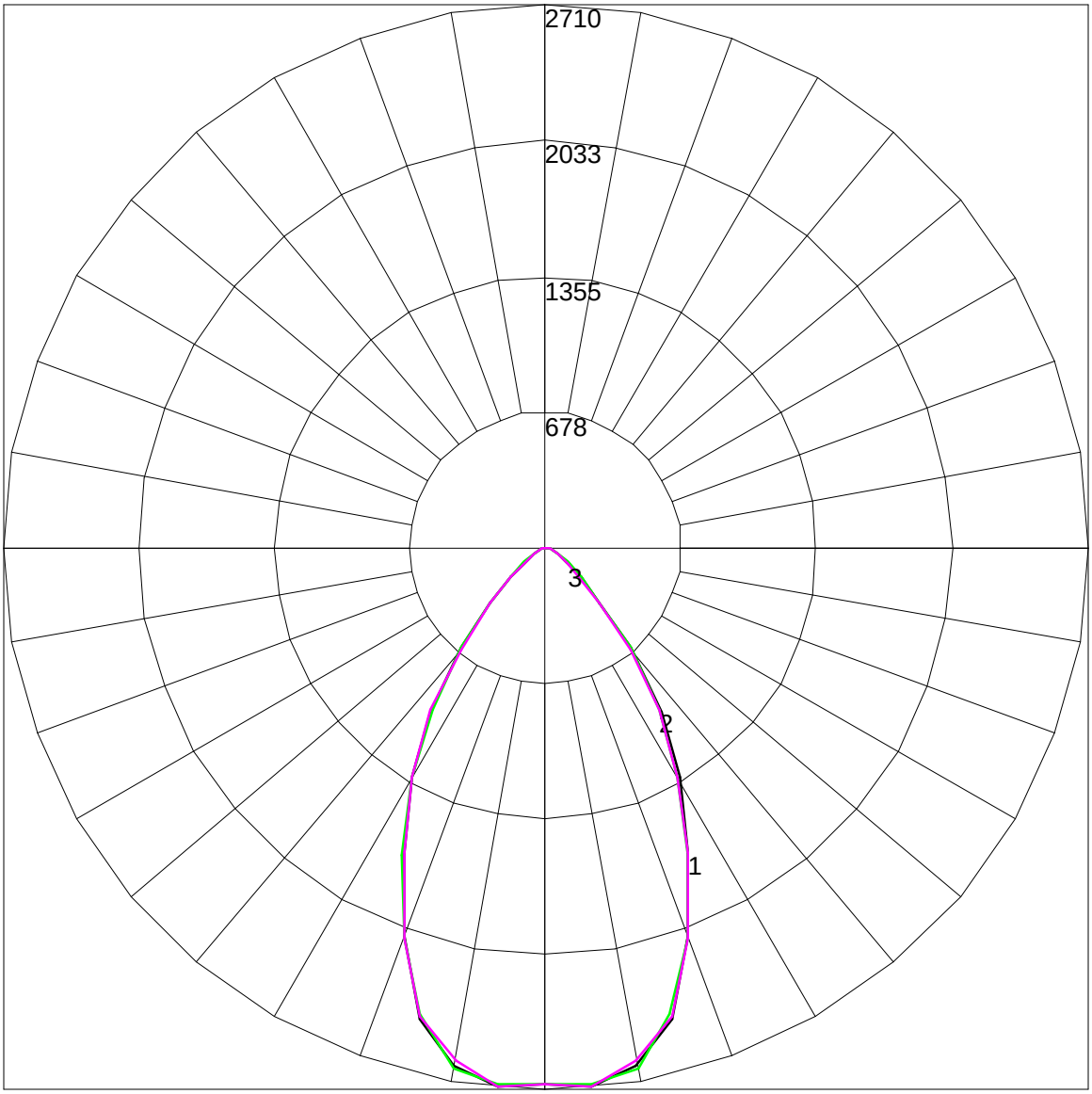
**POLAR GRAPH**




Maximum Candela = 2710.1 Located At Horizontal Angle = 45, 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)

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