

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE8LEDGV-55L35KE1-AR8222GVSG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Mon May 09 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00307_46

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE8LEDGV-55L-35K-E1-AR8222GV-SG

[LUMINAIRE] 8" aperture, downlight

[TRIM] Semi-diffuse anodized cone, open aperture

[LAMP] N/A, Min. 85 CRI

[LAMP CAT] 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 | 3316 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 78 |
| Total Luminaire Watts | 42.6 |
| 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 | 33890 | 33730 | 34214 |
| 55 | 7648 | 7772 | 7886 |
| 65 | 1442 | 1438 | 1544 |
| 75 | 77 | 76 | 22 |
| 85 | 66 | 57 | 45 |

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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 | 2309.43 | 2309.43 | 2309.43 | 2309.43 | 2309.43 |
| 5 | 2345.13 | 2376.13 | 2358.64 | 2325.97 | 2307.04 |
| 10 | 2344.33 | 2315.45 | 2304.86 | 2307.84 | 2341.82 |
| 15 | 2200.02 | 2223.56 | 2239.35 | 2224.49 | 2245.57 |
| 20 | 2122.59 | 2114.54 | 2129.83 | 2130.22 | 2128.64 |
| 25 | 1965.13 | 1958.12 | 1944.79 | 1951.84 | 1941.04 |
| 30 | 1723.43 | 1751.72 | 1732.89 | 1752.48 | 1717.56 |
| 35 | 1455.39 | 1445.40 | 1453.05 | 1441.68 | 1443.31 |
| 40 | 1079.76 | 1103.40 | 1099.58 | 1105.28 | 1089.43 |
| 45 | 670.60 | 675.60 | 667.43 | 675.57 | 677.01 |
| 50 | 271.94 | 279.89 | 282.81 | 278.46 | 280.72 |
| 55 | 122.76 | 123.01 | 124.75 | 125.03 | 126.58 |
| 60 | 62.31 | 63.41 | 62.01 | 62.59 | 63.99 |
| 65 | 17.05 | 19.05 | 17.01 | 18.18 | 18.26 |
| 70 | 0.67 | 0.53 | 0.74 | 0.80 | 0.55 |
| 75 | 0.56 | 0.49 | 0.55 | 0.36 | 0.16 |
| 80 | 0.32 | 0.27 | 0.39 | 0.21 | 0.22 |
| 85 | 0.16 | 0.12 | 0.14 | 0.05 | 0.11 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 850.87 | N.A. | 25.70 |
| 0-30 | 1745.62 | N.A. | 52.60 |
| 0-40 | 2639.6 | N.A. | 79.60 |
| 0-60 | 3291.08 | N.A. | 99.20 |
| 0-80 | 3315.92 | N.A. | 100.00 |
| 0-90 | 3316.06 | N.A. | 100.00 |
| 10-90 | 3093.53 | N.A. | 93.30 |
| 20-40 | 1788.73 | N.A. | 53.90 |
| 20-50 | 2309.17 | N.A. | 69.60 |
| 40-70 | 675.84 | N.A. | 20.40 |
| 60-80 | 24.84 | N.A. | 0.70 |
| 70-80 | 0.48 | N.A. | 0.00 |
| 80-90 | 0.14 | 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 | 3316.06 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 222.53 |
| 10-20 | 628.34 |
| 20-30 | 894.75 |
| 30-40 | 893.99 |
| 40-50 | 520.43 |
| 50-60 | 131.05 |
| 60-70 | 24.35 |
| 70-80 | 0.48 |
| 80-90 | 0.14 |
| 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 |

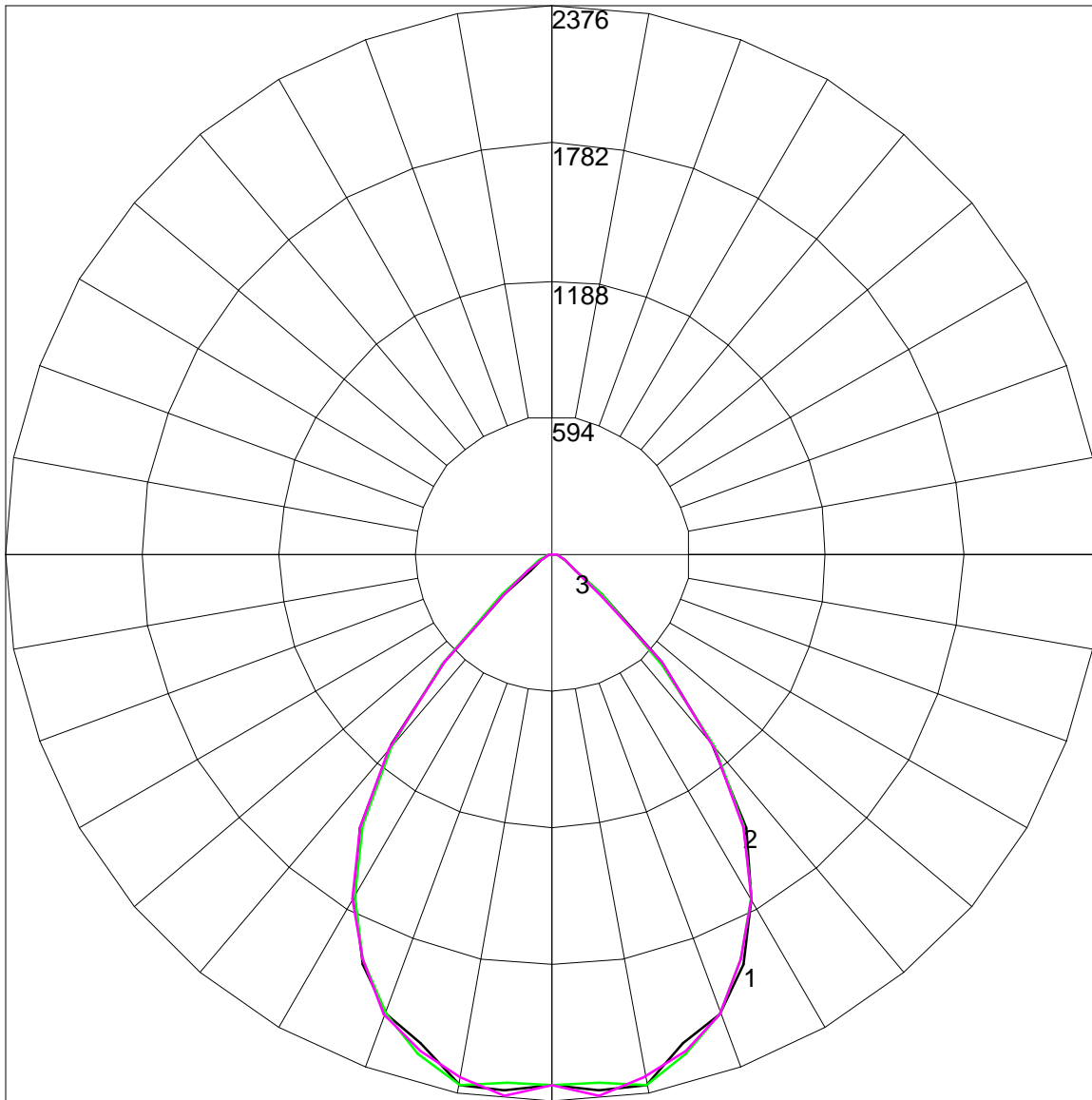
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 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 | 72 | 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 = 2376.13 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)