

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE6LEDGV-27L35KE1-AR6222GV-SG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]101650171CRT-015_M-27L
 [TESTLAB]Intertek
 [LAB-REF LUMCAT]1502171140-002_M-27L
 [ISSUEDATE] 03/18/2015
 [UPDATE] 08/05/2016
 [MANUFAC]SPECTRUM
 [LUMCAT]SGE6LEDGV-27L-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 | 1695 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 76 |
| Total Luminaire Watts | 22.3 |
| 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 | 10030 | 9790 | 9632 |
| 55 | 2368 | 2344 | 2277 |
| 65 | 0 | 19 | 143 |
| 75 | 180 | 0 | 2592 |
| 85 | 0 | 346 | 7007 |

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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 | 2209.45 | 2209.45 | 2209.45 | 2209.45 | 2209.45 |
| 2.5 | 2183.40 | 2187.65 | 2189.45 | 2187.30 | 2188.05 |
| 5.0 | 2132.55 | 2126.70 | 2131.15 | 2134.75 | 2126.80 |
| 7.5 | 2041.05 | 2045.65 | 2048.40 | 2051.95 | 2047.05 |
| 10.0 | 1949.85 | 1957.90 | 1949.50 | 1954.15 | 1957.10 |
| 12.5 | 1841.10 | 1840.90 | 1827.50 | 1833.25 | 1838.80 |
| 15.0 | 1706.30 | 1706.65 | 1690.95 | 1701.90 | 1703.10 |
| 17.5 | 1561.65 | 1563.65 | 1559.55 | 1561.15 | 1557.15 |
| 20.0 | 1422.85 | 1419.75 | 1418.25 | 1409.55 | 1412.20 |
| 22.5 | 1273.65 | 1270.50 | 1273.60 | 1269.25 | 1271.80 |
| 25.0 | 1126.45 | 1127.30 | 1121.70 | 1126.10 | 1125.20 |
| 27.5 | 987.35 | 983.30 | 985.80 | 986.15 | 984.25 |
| 30.0 | 849.55 | 842.75 | 845.95 | 847.90 | 844.30 |
| 32.5 | 706.35 | 702.40 | 701.90 | 706.30 | 705.05 |
| 35.0 | 573.55 | 565.05 | 569.60 | 571.15 | 573.25 |
| 37.5 | 444.85 | 438.50 | 440.40 | 441.10 | 442.55 |
| 40.0 | 321.30 | 318.50 | 318.85 | 322.05 | 319.40 |
| 42.5 | 215.75 | 211.25 | 212.15 | 215.05 | 211.55 |
| 45.0 | 129.50 | 127.35 | 126.40 | 125.65 | 124.35 |
| 47.5 | 81.60 | 79.75 | 78.55 | 78.80 | 78.55 |
| 50.0 | 61.05 | 60.05 | 60.05 | 60.50 | 60.10 |
| 52.5 | 41.10 | 40.05 | 40.20 | 40.65 | 40.15 |
| 55.0 | 24.80 | 23.95 | 24.55 | 25.30 | 23.85 |
| 57.5 | 12.40 | 11.90 | 12.15 | 13.10 | 11.60 |
| 60.0 | 2.70 | 2.75 | 3.00 | 4.75 | 3.10 |
| 62.5 | 0.05 | 0.55 | 0.50 | 1.90 | 0.90 |
| 65.0 | 0.00 | 0.25 | 0.15 | 2.10 | 1.10 |
| 67.5 | 0.00 | 0.35 | 0.00 | 3.75 | 3.95 |
| 70.0 | 0.00 | 3.45 | 0.00 | 6.35 | 7.40 |
| 72.5 | 0.85 | 5.00 | 0.00 | 10.05 | 9.85 |
| 75.0 | 0.85 | 6.15 | 0.00 | 13.35 | 12.25 |
| 77.5 | 1.30 | 9.45 | 0.05 | 15.25 | 12.90 |
| 80.0 | 0.90 | 10.10 | 0.50 | 16.55 | 14.25 |
| 82.5 | 0.35 | 10.35 | 1.30 | 16.45 | 14.10 |
| 85.0 | 0.00 | 8.85 | 0.55 | 13.00 | 11.15 |
| 87.5 | 0.00 | 4.35 | 0.00 | 6.15 | 5.15 |
| 90.0 | 0.00 | 0.55 | 0.00 | 1.35 | 0.60 |
| 92.5 | 1.95 | 0.85 | 0.00 | 1.30 | 0.65 |
| 95.0 | 5.50 | 1.10 | 0.00 | 2.25 | 3.15 |
| 97.5 | 3.10 | 0.00 | 0.00 | 0.40 | 2.45 |
| 100.0 | 1.15 | 0.00 | 0.00 | 0.00 | 1.35 |
| 102.5 | 0.30 | 0.00 | 0.00 | 0.00 | 0.65 |
| 105.0 | 0.05 | 0.00 | 0.00 | 0.00 | 0.35 |
| 107.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 |
| 122.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 |
| 125.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 |
| 127.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 |
| 130.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 |
| 132.5 | 0.00 | 0.00 | 0.00 | 0.05 | 0.55 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|------|------|------|------|------|
| 135.0 | 0.00 | 0.00 | 0.15 | 0.20 | 0.60 |
| 137.5 | 0.00 | 0.00 | 0.45 | 0.45 | 0.75 |
| 140.0 | 0.00 | 0.00 | 0.60 | 0.50 | 0.90 |
| 142.5 | 0.00 | 0.00 | 0.30 | 0.40 | 0.65 |
| 145.0 | 0.00 | 0.00 | 0.05 | 0.50 | 0.65 |
| 147.5 | 0.10 | 0.00 | 0.00 | 0.60 | 0.70 |
| 150.0 | 0.00 | 0.00 | 0.00 | 0.85 | 0.65 |
| 152.5 | 0.00 | 0.00 | 0.00 | 1.05 | 0.70 |
| 155.0 | 0.00 | 0.00 | 0.25 | 0.55 | 0.60 |
| 157.5 | 0.15 | 0.00 | 0.00 | 0.45 | 0.40 |
| 160.0 | 0.00 | 0.00 | 0.00 | 0.50 | 0.40 |
| 162.5 | 0.00 | 0.00 | 0.05 | 0.00 | 0.25 |
| 165.0 | 0.15 | 0.10 | 0.05 | 0.00 | 0.00 |
| 167.5 | 0.15 | 0.15 | 0.05 | 0.00 | 0.00 |
| 170.0 | 0.15 | 0.20 | 0.10 | 0.00 | 0.00 |
| 172.5 | 0.15 | 0.05 | 0.00 | 0.00 | 0.00 |
| 175.0 | 0.15 | 0.15 | 0.10 | 0.10 | 0.05 |
| 177.5 | 0.20 | 0.10 | 0.05 | 0.05 | 0.15 |
| 180.0 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 670.46 | N.A. | 39.60 |
| 0-30 | 1184.96 | N.A. | 69.90 |
| 0-40 | 1539.37 | N.A. | 90.80 |
| 0-60 | 1678.46 | N.A. | 99.00 |
| 0-80 | 1686.87 | N.A. | 99.50 |
| 0-90 | 1693.33 | N.A. | 99.90 |
| 10-90 | 1495.69 | N.A. | 88.20 |
| 20-40 | 868.91 | N.A. | 51.30 |
| 20-50 | 984.04 | N.A. | 58.10 |
| 40-70 | 140.71 | N.A. | 8.30 |
| 60-80 | 8.41 | N.A. | 0.50 |
| 70-80 | 6.79 | N.A. | 0.40 |
| 80-90 | 6.46 | N.A. | 0.40 |
| 90-110 | 1.18 | N.A. | 0.10 |
| 90-120 | 1.18 | N.A. | 0.10 |
| 90-130 | 1.26 | N.A. | 0.10 |
| 90-150 | 1.58 | N.A. | 0.10 |
| 90-180 | 1.73 | N.A. | 0.10 |
| 110-180 | 0.55 | N.A. | 0.00 |
| 0-180 | 1695.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 197.63 |
| 10-20 | 472.82 |
| 20-30 | 514.50 |
| 30-40 | 354.41 |
| 40-50 | 115.12 |
| 50-60 | 23.97 |
| 60-70 | 1.62 |
| 70-80 | 6.79 |
| 80-90 | 6.46 |
| 90-100 | 1.09 |
| 100-110 | 0.09 |
| 110-120 | 0.00 |
| 120-130 | 0.07 |
| 130-140 | 0.15 |
| 140-150 | 0.17 |
| 150-160 | 0.12 |
| 160-170 | 0.02 |
| 170-180 | 0.01 |

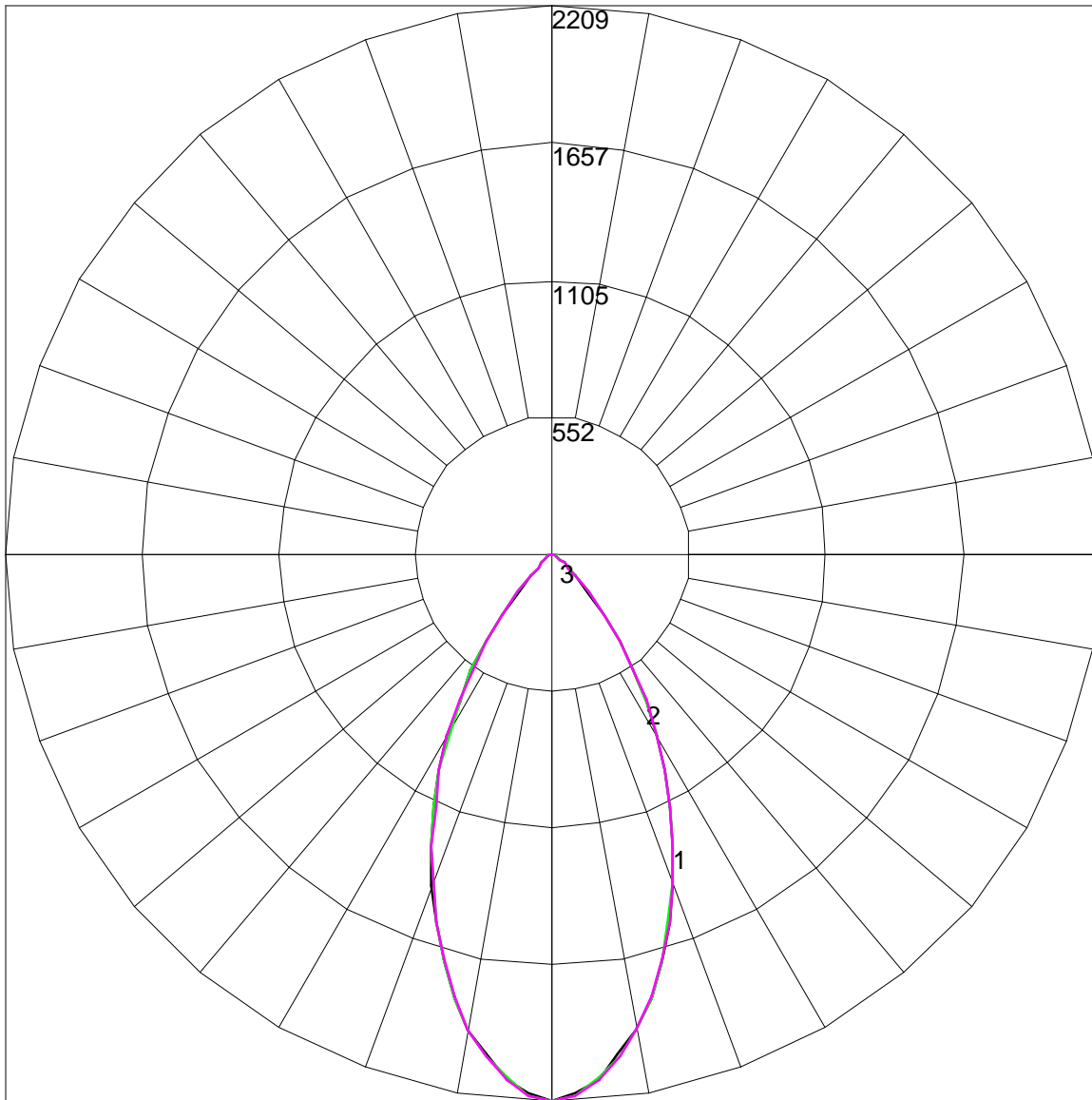
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2209.45 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)