

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGV8LEDGV-27L35KE1-AR8710GVXBSG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jan 22 2016

[UPDATE] Mon Jan 25 2016

[TEST] SP-00396_25_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT] SGV8LEDGV-37L-35K-E1-AR8710GV-XB-SG

[LUMINAIRE] 8" open aperture, cross-blade downlight

[TRIM] Semi-diffuse anodized cross-blade reflector assembly

[LAMP] N/A

[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 37L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1712 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 77 |
| Total Luminaire Watts | 22.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.66 |
| Spacing Criterion (90-270) | 1.66 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 1.12 ft (Diameter) |
| Luminous Width (90-270) | 1.12 ft (Diameter) |
| Luminous Height | 0.73 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3010 | 2693 | 3065 |
| 55 | 550 | 546 | 543 |
| 65 | 94 | 105 | 93 |
| 75 | 29 | 29 | 32 |
| 85 | 6 | 7 | 8 |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0 | 567.540 | 567.540 | 567.540 | 567.540 | 567.540 | 567.540 | 567.540 | 567.540 | 567.540 |
| 5 | 593.423 | 587.459 | 601.140 | 600.711 | 585.249 | 587.370 | 595.242 | 578.634 | 580.970 |
| 10 | 704.141 | 712.315 | 708.679 | 701.073 | 701.694 | 707.430 | 708.782 | 700.925 | 712.670 |
| 15 | 879.130 | 945.139 | 966.957 | 946.750 | 887.659 | 939.832 | 960.497 | 942.803 | 885.826 |
| 20 | 1088.413 | 1132.789 | 1154.541 | 1136.573 | 1095.900 | 1145.147 | 1178.148 | 1145.154 | 1120.461 |
| 25 | 1247.009 | 1182.190 | 1179.958 | 1185.058 | 1252.309 | 1200.491 | 1179.064 | 1201.200 | 1248.340 |
| 30 | 1145.723 | 1035.021 | 990.970 | 1041.865 | 1151.776 | 1046.758 | 1000.446 | 1034.363 | 1142.552 |
| 35 | 884.052 | 819.743 | 749.780 | 812.426 | 888.664 | 817.518 | 748.989 | 817.149 | 897.171 |
| 40 | 580.859 | 555.737 | 498.833 | 546.764 | 583.771 | 553.032 | 502.145 | 552.108 | 589.536 |
| 45 | 354.768 | 333.925 | 317.325 | 332.861 | 361.191 | 333.489 | 313.364 | 337.310 | 357.384 |
| 50 | 169.594 | 158.973 | 158.515 | 157.901 | 172.580 | 160.333 | 161.042 | 160.348 | 171.944 |
| 55 | 62.816 | 60.887 | 62.314 | 60.384 | 62.010 | 59.202 | 64.353 | 61.234 | 60.591 |
| 60 | 19.837 | 21.951 | 24.191 | 21.220 | 20.961 | 21.286 | 23.999 | 22.912 | 20.783 |
| 65 | 10.052 | 11.212 | 11.256 | 10.650 | 9.978 | 10.540 | 11.146 | 10.540 | 10.613 |
| 70 | 5.233 | 5.329 | 5.055 | 5.322 | 5.935 | 6.016 | 5.455 | 5.588 | 5.528 |
| 75 | 2.823 | 3.067 | 2.846 | 2.971 | 3.067 | 3.082 | 2.639 | 2.890 | 3.067 |
| 80 | 1.803 | 1.574 | 1.441 | 1.441 | 1.574 | 1.471 | 1.242 | 1.500 | 1.626 |
| 85 | 0.503 | 0.732 | 0.554 | 0.510 | 0.687 | 0.621 | 0.480 | 0.606 | 0.613 |
| 90 | 0.103 | 0.044 | 0.044 | 0.000 | 0.022 | 0.037 | 0.044 | 0.015 | 0.022 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 328.16 | N.A. | 19.20 |
| 0-30 | 859.49 | N.A. | 50.20 |
| 0-40 | 1363.21 | N.A. | 79.60 |
| 0-60 | 1695.41 | N.A. | 99.10 |
| 0-80 | 1710.89 | N.A. | 100.00 |
| 0-90 | 1711.63 | N.A. | 100.00 |
| 10-90 | 1651.41 | N.A. | 96.50 |
| 20-40 | 1035.05 | N.A. | 60.50 |
| 20-50 | 1299.2 | N.A. | 75.90 |
| 40-70 | 344.28 | N.A. | 20.10 |
| 60-80 | 15.48 | N.A. | 0.90 |
| 70-80 | 3.39 | N.A. | 0.20 |
| 80-90 | 0.74 | 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 | 1711.63 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 60.22 |
| 10-20 | 267.94 |
| 20-30 | 531.33 |
| 30-40 | 503.72 |
| 40-50 | 264.15 |
| 50-60 | 68.05 |
| 60-70 | 12.08 |
| 70-80 | 3.39 |
| 80-90 | 0.74 |
| 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 |

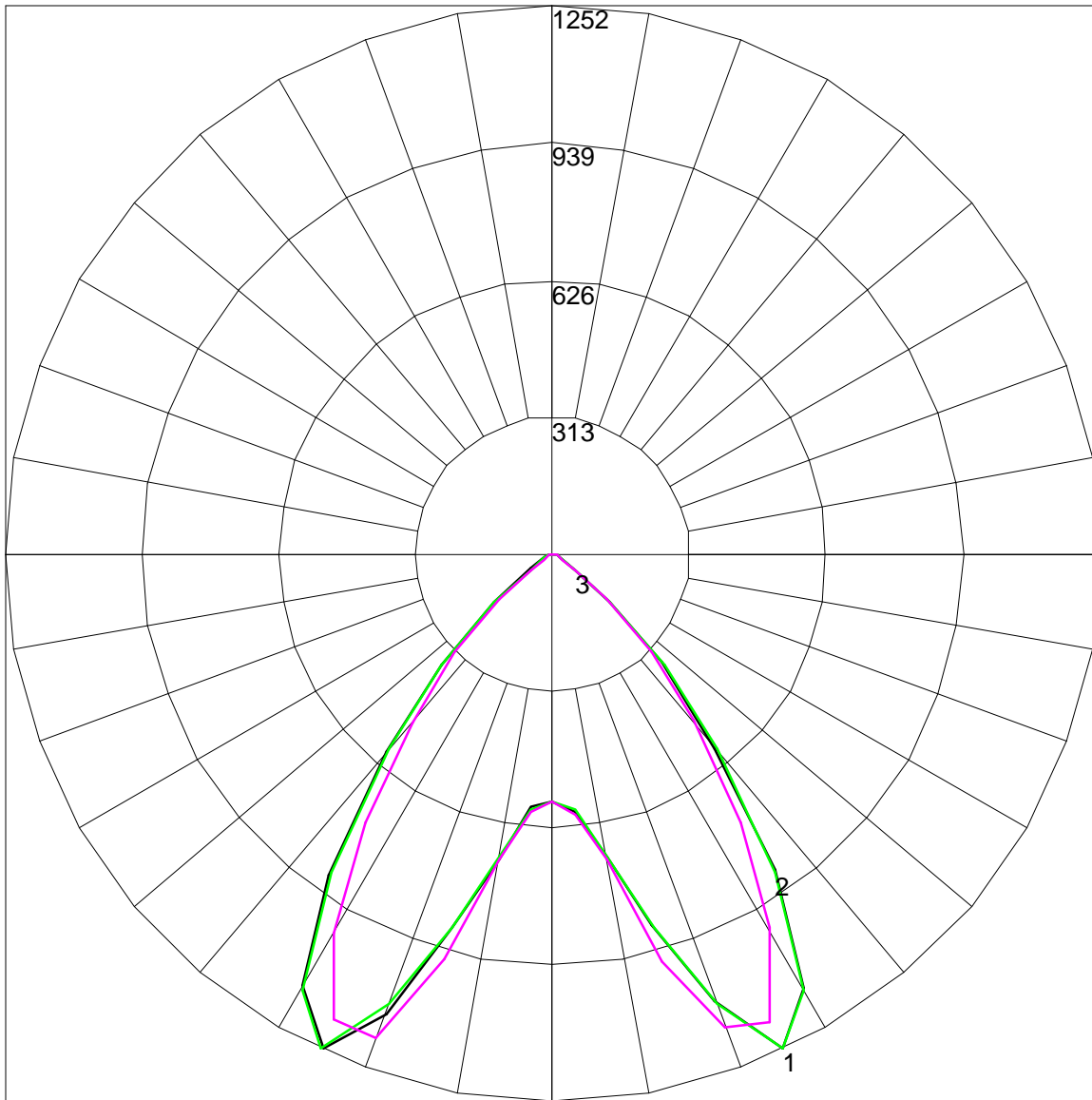
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 |
| 3 | 99 | 91 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 61 |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 55 |
| 7 | 76 | 65 | 58 | 53 | 75 | 64 | 58 | 53 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 43 | 42 |
| 10 | 63 | 52 | 45 | 40 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 49 | 44 | 40 | 38 |

POLAR GRAPH



Maximum Candela = 1252.309 Located At Horizontal Angle = 90, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (45 - 225)