

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00575_1 ~ C12XXGV-37L35K-EX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00575_1_M-37L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/21/2017

[UPDATE] 3/7/2018

[LUMCAT] C1216UDGV-37L-35K-EX-TSG-SO

[LUMINAIRE] Nom. 12" Diam. x 16"H LED Downlight Cylinder

[OTHER] Internal Reflector: Semi-diffuse, clear anodized alum.

[OTHER] Lens: Regressed Solite

[OTHER] 70 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Gen 3

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971

[OTHER] Data applicable to C1216GV and C1220GV Pendant, Surface and Wall Mount variants

[OTHER] Data applicable to CYK1220GV Yoke mounted variant

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2666 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 103 |
| Total Luminaire Watts | 26 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.14 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.83 ft (Diameter) |
| Luminous Width (90-270) | 0.83 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00575_1 ~ C12XXGV-37L35K-EX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 11583 | 10661 | 9300 |
| 55 | 4688 | 4530 | 3678 |
| 65 | 1662 | 1726 | 1332 |
| 75 | 655 | 681 | 454 |
| 85 | 488 | 485 | 365 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00575_1 ~ C12XXGV-37L35K-EX-TSG-SO.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1686.244 | 1686.244 | 1686.244 | 1686.244 | 1686.244 |
| 5 | 1676.907 | 1679.424 | 1681.982 | 1681.349 | 1680.954 |
| 10 | 1659.275 | 1668.041 | 1672.470 | 1671.347 | 1670.611 |
| 15 | 1638.386 | 1652.351 | 1669.847 | 1667.533 | 1668.909 |
| 20 | 1637.971 | 1659.926 | 1684.390 | 1684.552 | 1688.618 |
| 25 | 1660.036 | 1681.348 | 1706.707 | 1705.916 | 1704.966 |
| 30 | 1626.906 | 1655.232 | 1629.980 | 1633.647 | 1584.392 |
| 35 | 1339.622 | 1326.709 | 1251.457 | 1236.865 | 1152.699 |
| 40 | 816.339 | 783.893 | 718.464 | 693.507 | 636.229 |
| 45 | 412.101 | 397.825 | 379.274 | 359.488 | 330.848 |
| 50 | 239.377 | 244.560 | 234.001 | 223.363 | 198.841 |
| 55 | 135.279 | 138.664 | 130.733 | 122.005 | 106.128 |
| 60 | 65.930 | 70.640 | 65.799 | 61.171 | 53.151 |
| 65 | 35.349 | 39.320 | 36.707 | 33.551 | 28.329 |
| 70 | 17.976 | 20.338 | 19.313 | 16.413 | 14.102 |
| 75 | 8.535 | 10.087 | 8.866 | 7.529 | 5.917 |
| 80 | 4.249 | 4.064 | 3.701 | 3.366 | 3.381 |
| 85 | 2.142 | 1.537 | 2.127 | 1.601 | 1.600 |
| 90 | 1.438 | 0.524 | 0.966 | 0.573 | 1.287 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 632.37 | N.A. | 23.70 |
| 0-30 | 1406.33 | N.A. | 52.70 |
| 0-40 | 2165.84 | N.A. | 81.20 |
| 0-60 | 2615.98 | N.A. | 98.10 |
| 0-80 | 2663.89 | N.A. | 99.90 |
| 0-90 | 2666.11 | N.A. | 100.00 |
| 10-90 | 2506.04 | N.A. | 94.00 |
| 20-40 | 1533.47 | N.A. | 57.50 |
| 20-50 | 1861.25 | N.A. | 69.80 |
| 40-70 | 487.88 | N.A. | 18.30 |
| 60-80 | 47.91 | N.A. | 1.80 |
| 70-80 | 10.17 | N.A. | 0.40 |
| 80-90 | 2.22 | N.A. | 0.10 |
| 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 | 2666.11 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 160.07 |
| 10-20 | 472.29 |
| 20-30 | 773.97 |
| 30-40 | 759.51 |
| 40-50 | 327.78 |
| 50-60 | 122.36 |
| 60-70 | 37.74 |
| 70-80 | 10.17 |
| 80-90 | 2.22 |
| 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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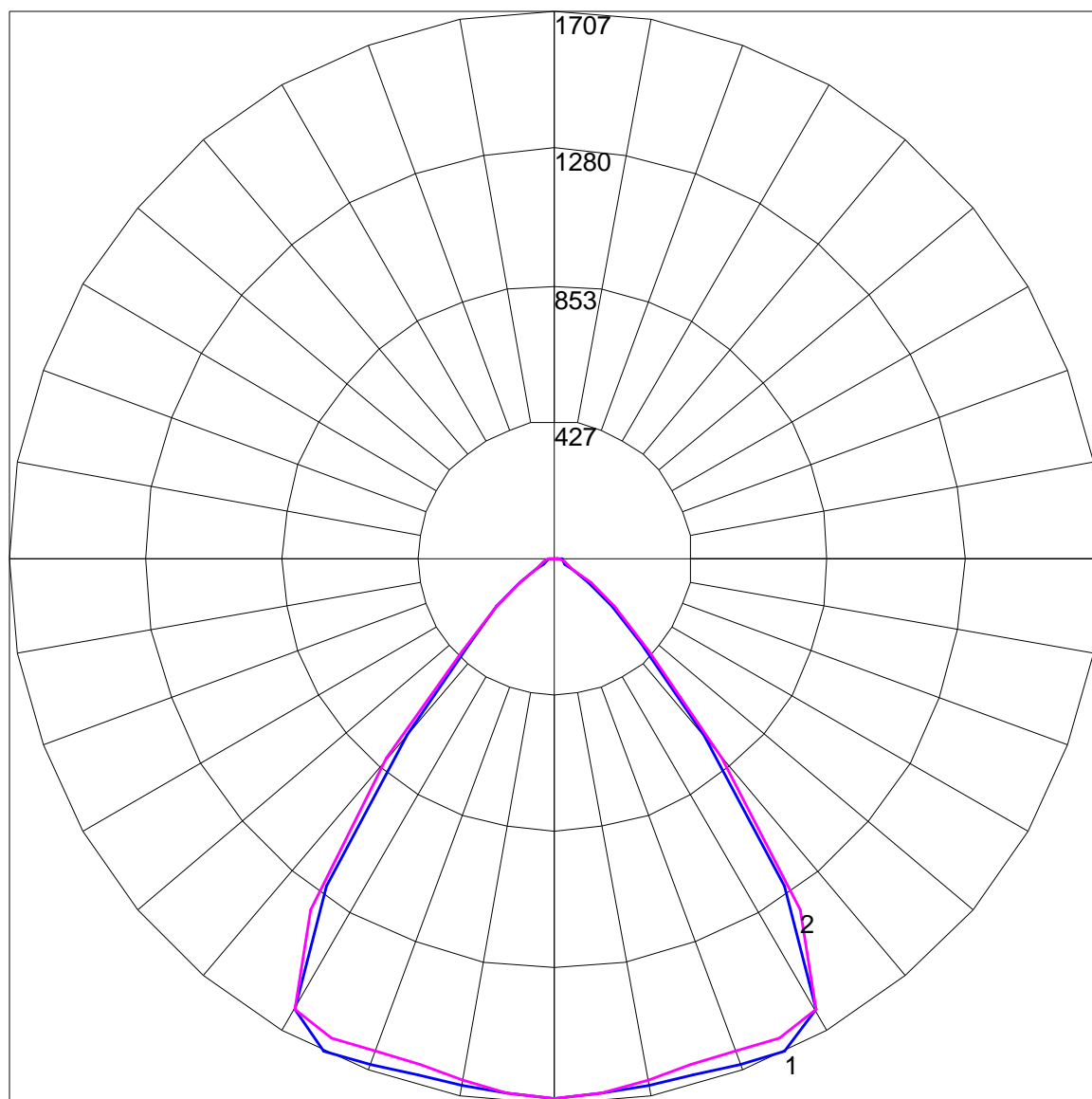
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 82 | 97 | 91 | 85 | 81 | 88 | 83 | 80 | 85 | 82 | 78 | 83 | 80 | 77 | 75 |
| 4 | 93 | 85 | 78 | 73 | 91 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 69 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 57 |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 59 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 |
| 8 | 73 | 62 | 55 | 50 | 71 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 |
| 9 | 69 | 58 | 51 | 46 | 67 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 |
| 10 | 65 | 54 | 47 | 43 | 64 | 53 | 47 | 43 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 |

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POLAR GRAPH



Maximum Candela = 1706.707 Located At Horizontal Angle = 45, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)