

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00633_2 ~ C06XXSQUDXT-10LNDGL-10LND-XXKEX-TCY-GLMW (UP_DOWN).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00633_2_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 10/13/2017
 [UPDATE] 2/9/2018
 [LUMCAT] C06xxSQUDXT-10L-ND-GL-10L-ND-xxK-EX-TCY-GL-MW (Up/Down)
 [LUMINAIRE] Nom. 6" Square x 18" H Direct/Indirect Cylinder
 [OTHER] Cylinder also available as 24" H variant
 [OTHER] Uplight: Narrow Beam, Flush Clear Glass lens
 [OTHER] Uplight: 20 Degree Beam Angle
 [OTHER] Downlight: Narrow Beam, Clear Glass lens
 [OTHER] Downlight: 21 Degree Beam Angle
 [OTHER] Trim: Same Color as Cylinder, Matte White
 [LAMP] N/A
 [LAMPCAT] N/A, 19mm LES indirect
 [OTHER] N/A, 19mm LES direct
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] See Catalog cut sheet for different source lumen multipliers
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1634 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 90 |
| Total Luminaire Watts | 18.2 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.35 ft |
| Luminous Width (90-270) | 0.35 ft |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00633_2 ~ C06XXSQUDXT-10LNDGL-10LND-XXKEX-TCY-GLMW (UP_DOWN).IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1933 | 2177 | 1932 |
| 55 | 2231 | 2148 | 2253 |
| 65 | 1992 | 2329 | 2277 |
| 75 | 2063 | 2039 | 2490 |
| 85 | 1292 | 1575 | 2229 |

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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 | 4273.708 | 4273.708 | 4273.708 | 4273.708 | 4273.708 |
| 2.5 | 3925.808 | 3917.077 | 3915.690 | 3925.812 | 3949.919 |
| 5.0 | 3577.907 | 3560.445 | 3557.671 | 3577.917 | 3626.130 |
| 7.5 | 2903.382 | 2887.000 | 2885.877 | 2891.227 | 2936.127 |
| 10.0 | 2228.857 | 2213.554 | 2214.083 | 2204.537 | 2246.123 |
| 12.5 | 1712.557 | 1703.256 | 1709.016 | 1704.743 | 1724.247 |
| 15.0 | 1196.256 | 1192.958 | 1203.949 | 1204.950 | 1202.369 |
| 17.5 | 942.520 | 941.534 | 954.959 | 952.703 | 944.362 |
| 20.0 | 688.783 | 690.110 | 705.969 | 700.457 | 686.356 |
| 22.5 | 548.959 | 570.894 | 593.125 | 569.940 | 540.982 |
| 25.0 | 409.135 | 451.679 | 480.281 | 439.422 | 395.608 |
| 27.5 | 284.555 | 351.400 | 412.313 | 312.871 | 270.730 |
| 30.0 | 159.974 | 251.120 | 344.345 | 186.320 | 145.852 |
| 32.5 | 95.945 | 157.024 | 264.751 | 116.293 | 84.473 |
| 35.0 | 31.916 | 62.928 | 185.156 | 46.265 | 23.094 |
| 37.5 | 24.763 | 41.150 | 114.129 | 32.411 | 19.952 |
| 40.0 | 17.609 | 19.373 | 43.101 | 18.557 | 16.810 |
| 42.5 | 16.591 | 17.772 | 30.320 | 17.132 | 16.188 |
| 45.0 | 15.573 | 16.171 | 17.539 | 15.706 | 15.565 |
| 47.5 | 15.490 | 15.651 | 15.951 | 14.824 | 15.396 |
| 50.0 | 15.406 | 15.132 | 14.363 | 13.943 | 15.226 |
| 52.5 | 14.991 | 14.541 | 14.198 | 13.694 | 14.973 |
| 55.0 | 14.575 | 13.949 | 14.033 | 13.446 | 14.721 |
| 57.5 | 13.103 | 12.961 | 13.479 | 13.141 | 13.838 |
| 60.0 | 11.631 | 11.973 | 12.924 | 12.837 | 12.955 |
| 62.5 | 10.610 | 11.482 | 12.069 | 12.561 | 11.959 |
| 65.0 | 9.590 | 10.990 | 11.213 | 12.285 | 10.962 |
| 67.5 | 9.222 | 10.059 | 10.383 | 10.854 | 9.928 |
| 70.0 | 8.853 | 9.127 | 9.553 | 9.423 | 8.893 |
| 72.5 | 7.468 | 7.943 | 7.783 | 8.499 | 8.118 |
| 75.0 | 6.082 | 6.758 | 6.013 | 7.575 | 7.342 |
| 77.5 | 4.700 | 5.074 | 5.065 | 5.788 | 5.915 |
| 80.0 | 3.318 | 3.390 | 4.118 | 4.001 | 4.489 |
| 82.5 | 2.301 | 2.275 | 2.841 | 2.929 | 3.351 |
| 85.0 | 1.283 | 1.161 | 1.564 | 1.857 | 2.213 |
| 87.5 | 0.732 | 0.580 | 1.165 | 1.183 | 1.379 |
| 90.0 | 0.181 | 0.000 | 0.766 | 0.509 | 0.545 |
| 92.5 | 4.947 | 5.253 | 4.842 | 4.773 | 5.141 |
| 95.0 | 4.270 | 4.346 | 3.805 | 4.198 | 4.807 |
| 97.5 | 4.001 | 4.061 | 3.736 | 3.956 | 3.339 |
| 100.0 | 3.670 | 3.042 | 3.529 | 2.629 | 2.905 |
| 102.5 | 2.953 | 2.536 | 2.932 | 2.114 | 2.688 |
| 105.0 | 2.293 | 2.147 | 2.325 | 1.576 | 2.354 |
| 107.5 | 1.708 | 1.852 | 1.902 | 1.443 | 1.927 |
| 110.0 | 1.415 | 1.892 | 1.618 | 1.382 | 1.570 |
| 112.5 | 1.289 | 1.865 | 1.613 | 1.189 | 1.367 |
| 115.0 | 1.451 | 1.709 | 1.492 | 1.052 | 1.379 |
| 117.5 | 1.483 | 1.647 | 1.257 | 0.987 | 1.287 |
| 120.0 | 1.351 | 1.710 | 1.224 | 0.978 | 1.130 |
| 122.5 | 1.447 | 1.672 | 1.341 | 1.022 | 1.138 |
| 125.0 | 1.805 | 1.514 | 1.425 | 1.292 | 1.224 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00633_2 ~ C06XXSQUDXT-10LNDGL-10LND-XXKEX-TCY-GLMW (UP_DOWN).IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 127.5 | 1.861 | 1.746 | 1.486 | 1.752 | 1.318 |
| 130.0 | 1.619 | 2.378 | 1.614 | 1.844 | 1.417 |
| 132.5 | 1.795 | 2.561 | 1.782 | 1.662 | 1.637 |
| 135.0 | 2.333 | 2.332 | 2.293 | 1.846 | 1.899 |
| 137.5 | 5.639 | 3.648 | 2.974 | 2.268 | 2.282 |
| 140.0 | 11.031 | 6.183 | 8.934 | 5.513 | 2.699 |
| 142.5 | 58.188 | 42.964 | 17.131 | 10.341 | 13.233 |
| 145.0 | 132.984 | 103.558 | 77.285 | 58.781 | 26.104 |
| 147.5 | 199.517 | 174.176 | 156.287 | 128.484 | 104.353 |
| 150.0 | 261.334 | 250.907 | 224.801 | 204.931 | 194.709 |
| 152.5 | 306.149 | 301.199 | 290.159 | 284.170 | 266.822 |
| 155.0 | 342.516 | 337.637 | 343.635 | 342.870 | 336.333 |
| 157.5 | 410.331 | 405.754 | 394.143 | 394.299 | 406.905 |
| 160.0 | 491.431 | 488.030 | 495.987 | 493.853 | 477.582 |
| 162.5 | 650.472 | 640.384 | 607.973 | 607.788 | 639.523 |
| 165.0 | 837.703 | 819.656 | 843.075 | 839.529 | 806.776 |
| 167.5 | 1184.188 | 1151.316 | 1097.156 | 1099.832 | 1153.116 |
| 170.0 | 1578.423 | 1532.736 | 1523.872 | 1520.654 | 1504.963 |
| 172.5 | 2095.228 | 2018.451 | 1969.481 | 1972.099 | 2006.950 |
| 175.0 | 2642.540 | 2532.096 | 2410.758 | 2409.144 | 2500.496 |
| 177.5 | 2919.036 | 2807.366 | 2851.723 | 2844.060 | 2804.766 |
| 180.0 | 3075.937 | 3075.937 | 3075.937 | 3075.937 | 3075.937 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 649.52 | N.A. | 39.80 |
| 0-30 | 853.46 | N.A. | 52.20 |
| 0-40 | 916.73 | N.A. | 56.10 |
| 0-60 | 942.88 | N.A. | 57.70 |
| 0-80 | 960.83 | N.A. | 58.80 |
| 0-90 | 962.85 | N.A. | 58.90 |
| 10-90 | 667.95 | N.A. | 40.90 |
| 20-40 | 267.21 | N.A. | 16.40 |
| 20-50 | 280.99 | N.A. | 17.20 |
| 40-70 | 37.09 | N.A. | 2.30 |
| 60-80 | 17.95 | N.A. | 1.10 |
| 70-80 | 7.02 | N.A. | 0.40 |
| 80-90 | 2.02 | N.A. | 0.10 |
| 90-110 | 6.38 | N.A. | 0.40 |
| 90-120 | 7.79 | N.A. | 0.50 |
| 90-130 | 9.12 | N.A. | 0.60 |
| 90-150 | 67.54 | N.A. | 4.10 |
| 90-180 | 671.12 | N.A. | 41.10 |
| 110-180 | 664.74 | N.A. | 40.70 |
| 0-180 | 1633.97 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 294.91 |
| 10-20 | 354.61 |
| 20-30 | 203.94 |
| 30-40 | 63.26 |
| 40-50 | 13.78 |
| 50-60 | 12.37 |
| 60-70 | 10.93 |
| 70-80 | 7.02 |
| 80-90 | 2.02 |
| 90-100 | 4.04 |
| 100-110 | 2.34 |
| 110-120 | 1.41 |
| 120-130 | 1.34 |
| 130-140 | 2.21 |
| 140-150 | 56.20 |
| 150-160 | 157.62 |
| 160-170 | 239.99 |
| 170-180 | 205.97 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

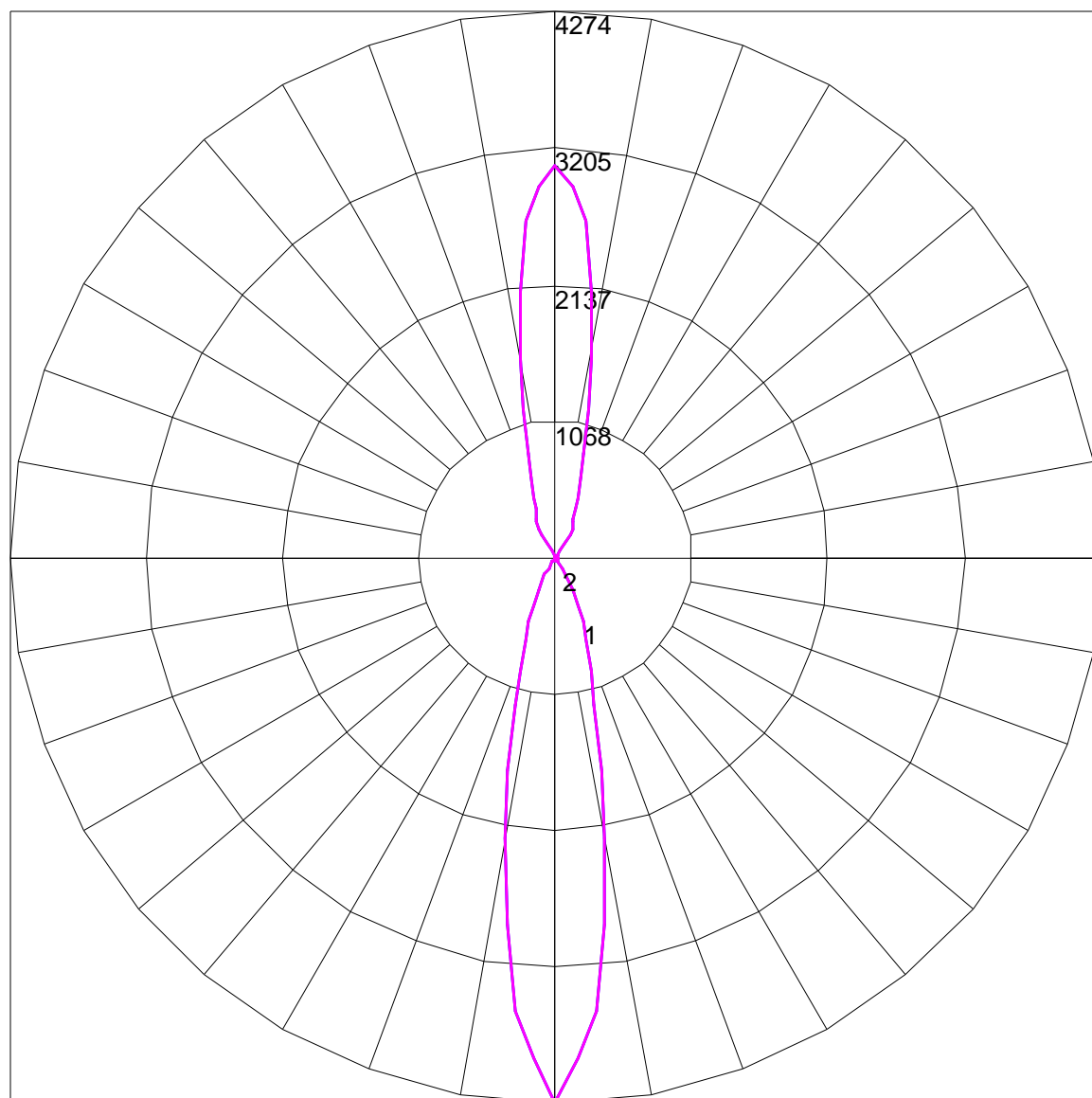
Effective Floor Cavity Reflectance 0.20

| 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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1 | 103 | 100 | 97 | 95 | 96 | 94 | 91 | 89 | 82 | 81 | 79 | 72 | 71 | 70 | 62 | 61 | 61 | 56 |
| 2 | 97 | 92 | 88 | 84 | 91 | 87 | 83 | 80 | 77 | 74 | 72 | 68 | 66 | 65 | 59 | 58 | 57 | 53 |
| 3 | 92 | 85 | 80 | 76 | 86 | 81 | 76 | 73 | 72 | 69 | 66 | 64 | 62 | 60 | 57 | 56 | 54 | 51 |
| 4 | 87 | 79 | 74 | 69 | 82 | 75 | 71 | 67 | 68 | 65 | 62 | 61 | 59 | 57 | 55 | 53 | 52 | 49 |
| 5 | 83 | 74 | 68 | 64 | 78 | 71 | 66 | 62 | 64 | 61 | 58 | 59 | 56 | 54 | 53 | 51 | 50 | 47 |
| 6 | 79 | 70 | 64 | 60 | 74 | 67 | 62 | 58 | 61 | 57 | 55 | 56 | 53 | 51 | 51 | 49 | 48 | 45 |
| 7 | 75 | 66 | 60 | 56 | 71 | 63 | 58 | 55 | 58 | 55 | 52 | 54 | 51 | 49 | 49 | 47 | 46 | 44 |
| 8 | 72 | 63 | 57 | 53 | 68 | 60 | 55 | 52 | 56 | 52 | 49 | 52 | 49 | 47 | 48 | 46 | 44 | 42 |
| 9 | 69 | 60 | 54 | 50 | 65 | 57 | 53 | 49 | 54 | 50 | 47 | 50 | 47 | 45 | 46 | 44 | 43 | 41 |
| 10 | 66 | 57 | 51 | 48 | 63 | 55 | 50 | 47 | 51 | 48 | 45 | 48 | 45 | 43 | 45 | 43 | 41 | 40 |

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POLAR GRAPH



Maximum Candela = 4273.708 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (0 - 180)