

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-10LXXK-WDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_11_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-10L-xxK-WD-EX-TSG-SO
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders
[OTHER] Upper, Internal Reflector, Wide Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] Solite Lens, Regressed in Lower Trim
[OTHER] 48 Degree Beam Angle
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] Former Cat. No: SPC08SQ-LEDXT-series
[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 740 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 81 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.74 |
| Spacing Criterion (90-270) | 0.80 |
| Spacing Criterion (Diagonal) | 0.78 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.50 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-10LXXK-WDEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2548 | 2037 | 2831 |
| 55 | 588 | 481 | 553 |
| 65 | 182 | 159 | 142 |
| 75 | 74 | 138 | 121 |
| 85 | 200 | 234 | 194 |

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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> | <u>202.5</u> |
|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 |
| 5 | 1073.519 | 1081.086 | 1082.418 | 1089.710 | 1090.769 | 1068.486 | 1068.813 | 1061.285 | 1060.780 | 1050.405 |
| 10 | 978.619 | 995.089 | 997.357 | 1014.073 | 1015.903 | 972.741 | 972.083 | 957.140 | 958.137 | 940.416 |
| 15 | 832.943 | 858.215 | 861.211 | 880.964 | 885.093 | 832.478 | 831.287 | 808.693 | 812.283 | 797.519 |
| 20 | 671.582 | 704.393 | 708.934 | 721.181 | 725.309 | 674.469 | 676.618 | 650.679 | 659.366 | 655.392 |
| 25 | 522.960 | 547.784 | 554.659 | 567.430 | 570.067 | 501.041 | 509.792 | 504.435 | 520.412 | 505.011 |
| 30 | 375.988 | 361.461 | 372.319 | 422.262 | 414.845 | 307.694 | 318.315 | 358.762 | 378.714 | 319.200 |
| 35 | 220.268 | 178.428 | 190.911 | 274.291 | 250.531 | 142.204 | 151.021 | 211.992 | 227.078 | 154.376 |
| 40 | 100.883 | 73.101 | 78.982 | 142.746 | 118.042 | 54.523 | 59.679 | 100.512 | 107.547 | 64.312 |
| 45 | 41.888 | 30.795 | 33.481 | 61.168 | 46.537 | 23.185 | 24.838 | 41.047 | 45.531 | 28.217 |
| 50 | 17.519 | 14.241 | 15.024 | 24.686 | 18.360 | 9.848 | 10.834 | 16.318 | 19.345 | 12.839 |
| 55 | 7.838 | 5.789 | 6.416 | 9.824 | 7.380 | 3.621 | 4.427 | 6.963 | 8.512 | 5.530 |
| 60 | 3.514 | 2.537 | 2.748 | 4.231 | 2.862 | 2.133 | 2.117 | 3.027 | 4.086 | 2.772 |
| 65 | 1.792 | 1.415 | 1.562 | 1.515 | 1.398 | 1.614 | 1.804 | 1.932 | 2.632 | 2.131 |
| 70 | 1.094 | 0.890 | 1.161 | 0.797 | 0.910 | 1.669 | 1.931 | 1.731 | 1.990 | 2.150 |
| 75 | 0.446 | 0.643 | 0.828 | 0.528 | 0.731 | 1.728 | 1.811 | 1.922 | 2.032 | 1.848 |
| 80 | 0.449 | 0.427 | 0.486 | 0.614 | 0.465 | 2.518 | 2.244 | 2.345 | 2.398 | 2.299 |
| 85 | 0.405 | 0.333 | 0.474 | 0.501 | 0.393 | 2.618 | 3.056 | 3.415 | 2.841 | 2.838 |
| 90 | 0.591 | 0.165 | 0.584 | 0.435 | 0.343 | 3.264 | 3.795 | 2.907 | 3.493 | 3.314 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 | 1099.748 |
| 5 | 1046.662 | 1033.596 | 1033.855 | 1065.103 | 1067.012 | 1074.331 | 1073.519 |
| 10 | 934.449 | 911.914 | 913.246 | 966.668 | 969.976 | 981.564 | 978.619 |
| 15 | 788.760 | 757.157 | 761.443 | 828.439 | 831.596 | 840.016 | 832.943 |
| 20 | 643.359 | 602.605 | 610.631 | 678.932 | 682.757 | 682.503 | 671.582 |
| 25 | 496.413 | 461.322 | 466.446 | 526.173 | 531.150 | 533.188 | 522.960 |
| 30 | 321.919 | 322.096 | 319.669 | 351.215 | 360.893 | 390.009 | 375.988 |
| 35 | 158.073 | 189.382 | 181.544 | 179.790 | 190.763 | 248.655 | 220.268 |
| 40 | 65.276 | 92.585 | 83.125 | 73.113 | 78.220 | 130.042 | 100.883 |
| 45 | 27.847 | 41.037 | 34.041 | 29.458 | 30.391 | 57.324 | 41.888 |
| 50 | 12.655 | 17.389 | 14.259 | 13.189 | 13.549 | 22.990 | 17.519 |
| 55 | 5.828 | 7.354 | 7.223 | 5.402 | 5.521 | 8.767 | 7.838 |
| 60 | 3.282 | 3.725 | 4.133 | 2.115 | 2.157 | 3.156 | 3.514 |

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| | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 65 | 2.586 | 2.516 | 2.649 | 1.149 | 1.229 | 1.573 | 1.792 |
| 70 | 2.290 | 1.849 | 1.943 | 0.842 | 0.942 | 0.828 | 1.094 |
| 75 | 2.170 | 2.134 | 2.054 | 0.556 | 0.623 | 0.536 | 0.446 |
| 80 | 2.572 | 2.680 | 2.748 | 0.596 | 0.536 | 0.480 | 0.449 |
| 85 | 2.996 | 3.316 | 3.053 | 0.521 | 0.421 | 0.316 | 0.405 |
| 90 | 3.991 | 3.762 | 3.573 | 0.438 | 0.470 | 0.167 | 0.591 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-10LXXK-WDEX-TSG-SO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 328.37 | N.A. | 44.40 |
| 0-30 | 564.19 | N.A. | 76.20 |
| 0-40 | 693.27 | N.A. | 93.60 |
| 0-60 | 734.50 | N.A. | 99.20 |
| 0-80 | 737.97 | N.A. | 99.70 |
| 0-90 | 739.85 | N.A. | 99.90 |
| 10-90 | 641.24 | N.A. | 86.60 |
| 20-40 | 364.90 | N.A. | 49.30 |
| 20-50 | 399.01 | N.A. | 53.90 |
| 40-70 | 43.24 | N.A. | 5.80 |
| 60-80 | 3.47 | N.A. | 0.50 |
| 70-80 | 1.46 | N.A. | 0.20 |
| 80-90 | 1.88 | N.A. | 0.30 |
| 90-110 | 0.54 | N.A. | 0.10 |
| 90-120 | 0.54 | N.A. | 0.10 |
| 90-130 | 0.54 | N.A. | 0.10 |
| 90-150 | 0.54 | N.A. | 0.10 |
| 90-180 | 0.54 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 740.38 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 98.61 |
| 10-20 | 229.76 |
| 20-30 | 235.83 |
| 30-40 | 129.08 |
| 40-50 | 34.10 |
| 50-60 | 7.12 |
| 60-70 | 2.02 |
| 70-80 | 1.46 |
| 80-90 | 1.88 |
| 90-100 | 0.54 |
| 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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PHOTOMETRIC FILENAME : SP-00611_11 ~ C08XXSQXT-10LXXK-WDEX-TSG-SO.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

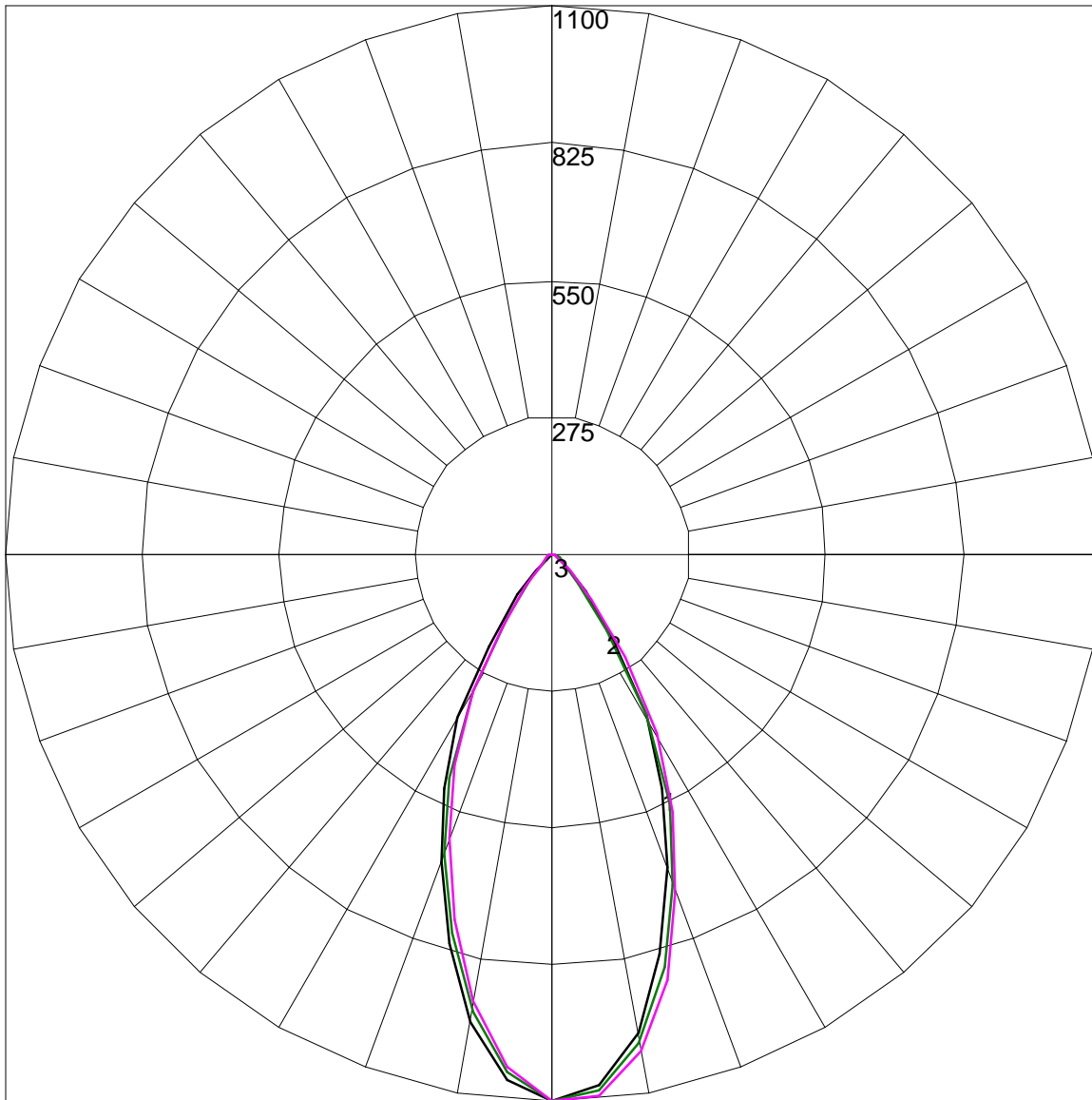
Effective Floor Cavity Reflectance 0.20

| 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 | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | 91 | 88 | 85 | 88 | 86 | 84 | 82 |
| 4 | 98 | 91 | 86 | 82 | 97 | 90 | 85 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 72 |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 |
| 7 | 85 | 76 | 71 | 67 | 84 | 76 | 70 | 66 | 74 | 70 | 66 | 73 | 69 | 66 | 72 | 68 | 65 | 64 |
| 8 | 81 | 72 | 67 | 63 | 80 | 72 | 66 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 60 |
| 9 | 78 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 61 | 58 | 57 |
| 10 | 74 | 65 | 60 | 56 | 73 | 65 | 59 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 62 | 58 | 55 | 54 |

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POLAR GRAPH



Maximum Candela = 1099.748 Located At Horizontal Angle = 0, Vertical Angle = 0

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

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)