

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_11 ~ C0611SQXT-20LXXK-WDEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_11_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-20L-xxK-WD-EX-TCY-SO-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Wide Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 43.7 Degree Beam Angle
 [LAMPCAT] N/A
 [LAMP] N/A, 19mm LES
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [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 | 1731 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 80 |
| Total Luminaire Watts | 21.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.70 |
| Spacing Criterion (90-270) | 0.70 |
| Spacing Criterion (Diagonal) | 0.76 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.32 ft |
| Luminous Width (90-270) | 0.32 ft |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_11 ~ C0611SQXT-20LXXK-WDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 11070 | 11760 | 10552 |
| 55 | 6223 | 6927 | 6017 |
| 65 | 5847 | 5975 | 5643 |
| 75 | 6458 | 5617 | 6988 |
| 85 | 4803 | 3961 | 5415 |

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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 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 |
| 5 | 2729.946 | 2725.336 | 2726.995 | 2743.346 | 2731.592 | 2729.703 | 2730.700 | 2733.624 | 2726.884 | 2722.282 |
| 10 | 2465.707 | 2458.056 | 2468.073 | 2481.613 | 2473.061 | 2479.166 | 2476.853 | 2478.131 | 2466.611 | 2461.618 |
| 15 | 2060.550 | 2052.690 | 2072.000 | 2081.872 | 2074.084 | 2089.567 | 2089.285 | 2085.425 | 2068.350 | 2067.797 |
| 20 | 1599.034 | 1599.686 | 1625.690 | 1613.194 | 1603.016 | 1631.793 | 1647.187 | 1632.101 | 1596.863 | 1613.875 |
| 25 | 1104.046 | 1173.159 | 1231.040 | 1157.912 | 1084.930 | 1163.485 | 1249.115 | 1195.594 | 1081.475 | 1152.715 |
| 30 | 542.518 | 708.491 | 880.356 | 629.250 | 534.837 | 647.834 | 885.243 | 696.882 | 530.987 | 611.511 |
| 35 | 220.045 | 281.908 | 495.538 | 227.457 | 200.556 | 264.538 | 495.017 | 287.086 | 197.290 | 243.774 |
| 40 | 115.018 | 114.848 | 191.140 | 110.541 | 106.845 | 119.685 | 192.244 | 120.710 | 109.011 | 115.876 |
| 45 | 73.010 | 73.795 | 77.555 | 73.162 | 69.594 | 75.779 | 81.501 | 75.090 | 68.489 | 75.912 |
| 50 | 50.616 | 51.133 | 50.352 | 51.411 | 47.620 | 51.621 | 53.685 | 52.591 | 46.993 | 52.274 |
| 55 | 33.292 | 36.638 | 37.055 | 36.135 | 32.189 | 36.715 | 40.127 | 37.111 | 33.933 | 37.875 |
| 60 | 23.639 | 27.658 | 28.997 | 27.387 | 24.300 | 30.045 | 32.171 | 29.551 | 27.031 | 30.506 |
| 65 | 23.046 | 23.297 | 23.553 | 24.191 | 22.243 | 27.790 | 27.635 | 27.159 | 25.433 | 28.527 |
| 70 | 20.196 | 20.659 | 18.661 | 21.512 | 19.359 | 26.003 | 25.164 | 26.501 | 23.543 | 25.839 |
| 75 | 15.590 | 15.147 | 13.559 | 16.306 | 16.868 | 24.045 | 20.012 | 22.718 | 19.158 | 22.440 |
| 80 | 8.422 | 9.046 | 8.394 | 10.103 | 11.649 | 17.620 | 17.175 | 17.158 | 16.169 | 16.192 |
| 85 | 3.904 | 3.283 | 3.220 | 4.591 | 4.402 | 13.292 | 14.339 | 13.317 | 11.845 | 10.741 |
| 90 | 1.357 | 1.474 | 1.583 | 1.691 | 1.851 | 10.308 | 10.843 | 9.175 | 0.000 | 1.393 |
| 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. 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 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 | 2819.039 |
| 5 | 2712.895 | 2734.690 | 2733.627 | 2728.750 | 2734.295 | 2729.394 | 2729.946 |
| 10 | 2446.628 | 2462.188 | 2466.543 | 2464.503 | 2478.229 | 2469.791 | 2465.707 |
| 15 | 2051.733 | 2048.104 | 2057.695 | 2058.300 | 2083.034 | 2070.940 | 2060.550 |
| 20 | 1615.196 | 1594.942 | 1600.806 | 1613.371 | 1639.919 | 1622.514 | 1599.034 |
| 25 | 1230.448 | 1195.111 | 1105.293 | 1184.595 | 1251.819 | 1178.403 | 1104.046 |
| 30 | 871.892 | 719.237 | 549.677 | 704.237 | 909.170 | 680.583 | 542.518 |
| 35 | 479.142 | 271.762 | 229.379 | 303.117 | 543.703 | 276.883 | 220.045 |
| 40 | 190.886 | 121.815 | 118.964 | 134.363 | 236.136 | 128.198 | 115.018 |
| 45 | 82.958 | 76.550 | 73.781 | 82.819 | 98.168 | 82.448 | 73.010 |

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| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 50 | 55.625 | 52.913 | 48.136 | 55.340 | 59.798 | 55.553 | 50.616 |
| 55 | 42.241 | 41.163 | 34.074 | 38.163 | 42.642 | 39.145 | 33.292 |
| 60 | 33.621 | 28.293 | 26.462 | 28.845 | 32.543 | 30.043 | 23.639 |
| 65 | 29.702 | 27.926 | 22.974 | 23.493 | 24.867 | 24.775 | 23.046 |
| 70 | 25.062 | 25.349 | 22.060 | 20.864 | 19.282 | 21.063 | 20.196 |
| 75 | 19.530 | 18.812 | 19.102 | 12.819 | 13.915 | 14.774 | 15.590 |
| 80 | 15.415 | 14.161 | 13.134 | 7.074 | 7.764 | 7.655 | 8.422 |
| 85 | 11.325 | 9.514 | 10.575 | 2.434 | 3.245 | 3.759 | 3.904 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.357 |
| 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 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 825.18 | N.A. | 47.70 |
| 0-30 | 1353.49 | N.A. | 78.20 |
| 0-40 | 1577.38 | N.A. | 91.10 |
| 0-60 | 1678.52 | N.A. | 96.90 |
| 0-80 | 1722.47 | N.A. | 99.50 |
| 0-90 | 1730.72 | N.A. | 100.00 |
| 10-90 | 1478.43 | N.A. | 85.40 |
| 20-40 | 752.21 | N.A. | 43.40 |
| 20-50 | 818.55 | N.A. | 47.30 |
| 40-70 | 126.47 | N.A. | 7.30 |
| 60-80 | 43.94 | N.A. | 2.50 |
| 70-80 | 18.61 | N.A. | 1.10 |
| 80-90 | 8.25 | N.A. | 0.50 |
| 90-110 | 0.68 | N.A. | 0.00 |
| 90-120 | 0.68 | N.A. | 0.00 |
| 90-130 | 0.68 | N.A. | 0.00 |
| 90-150 | 0.68 | N.A. | 0.00 |
| 90-180 | 0.68 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1731.39 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 252.29 |
| 10-20 | 572.89 |
| 20-30 | 528.31 |
| 30-40 | 223.89 |
| 40-50 | 66.34 |
| 50-60 | 34.80 |
| 60-70 | 25.33 |
| 70-80 | 18.61 |
| 80-90 | 8.25 |
| 90-100 | 0.68 |
| 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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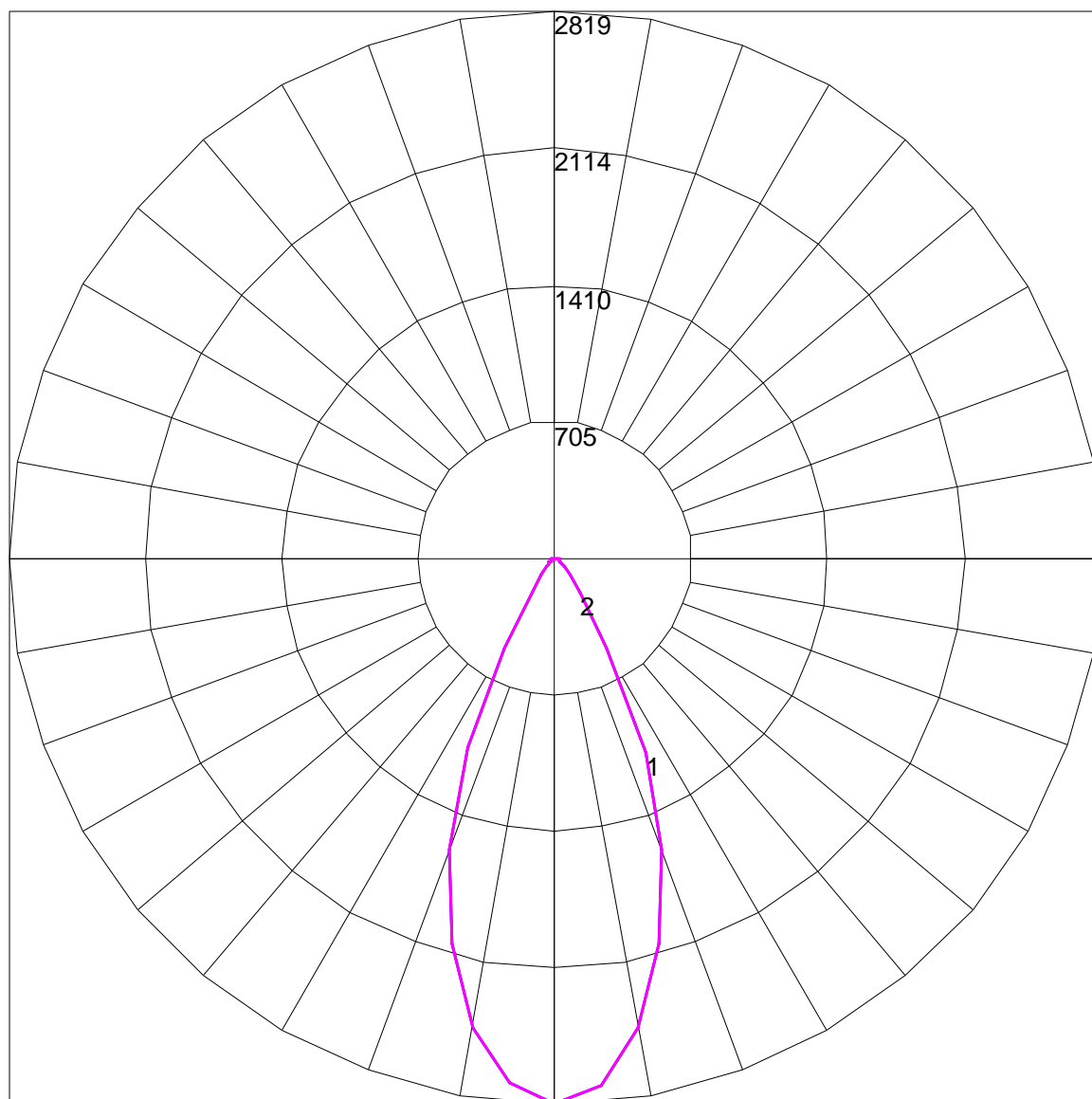
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 92 | 95 | 93 | 90 | 92 | 90 | 89 | 87 |
| 3 | 103 | 96 | 92 | 88 | 101 | 95 | 91 | 87 | 92 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 4 | 98 | 91 | 85 | 81 | 96 | 89 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 83 | 80 | 78 | 76 |
| 5 | 93 | 85 | 80 | 76 | 92 | 84 | 79 | 75 | 83 | 78 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 72 |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 78 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 |
| 7 | 85 | 76 | 71 | 67 | 84 | 76 | 70 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 72 | 68 | 65 | 64 |
| 8 | 82 | 73 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 69 | 65 | 62 | 61 |
| 9 | 78 | 69 | 63 | 60 | 77 | 69 | 63 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 58 |
| 10 | 75 | 66 | 60 | 57 | 74 | 65 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 |

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POLAR GRAPH



Maximum Candela = 2819.039 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)