

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_11 ~ C0611SQXT-10LXXK-WDEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_11_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-10L-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 | 835 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| Total Luminaire Watts | 9.1 |
| 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-10LXXK-WDEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5340 | 5672 | 5090 |
| 55 | 3002 | 3341 | 2902 |
| 65 | 2820 | 2882 | 2722 |
| 75 | 3115 | 2710 | 3371 |
| 85 | 2316 | 1910 | 2613 |

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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 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 |
| 5 | 1316.860 | 1314.636 | 1315.437 | 1323.324 | 1317.654 | 1316.743 | 1317.224 | 1318.634 | 1315.383 | 1313.163 |
| 10 | 1189.398 | 1185.707 | 1190.539 | 1197.070 | 1192.945 | 1195.890 | 1194.774 | 1195.390 | 1189.834 | 1187.425 |
| 15 | 993.960 | 990.168 | 999.483 | 1004.245 | 1000.488 | 1007.957 | 1007.821 | 1005.959 | 997.722 | 997.456 |
| 20 | 771.335 | 771.650 | 784.194 | 778.166 | 773.256 | 787.138 | 794.563 | 787.286 | 770.288 | 778.494 |
| 25 | 532.565 | 565.904 | 593.824 | 558.549 | 523.344 | 561.237 | 602.543 | 576.726 | 521.677 | 556.042 |
| 30 | 261.697 | 341.759 | 424.662 | 303.535 | 257.992 | 312.499 | 427.020 | 336.159 | 256.135 | 294.978 |
| 35 | 106.144 | 135.986 | 239.036 | 109.720 | 96.743 | 127.607 | 238.784 | 138.484 | 95.168 | 117.591 |
| 40 | 55.482 | 55.400 | 92.201 | 53.322 | 51.539 | 57.733 | 92.734 | 58.228 | 52.584 | 55.896 |
| 45 | 35.218 | 35.597 | 37.410 | 35.291 | 33.571 | 36.554 | 39.314 | 36.221 | 33.037 | 36.618 |
| 50 | 24.416 | 24.665 | 24.289 | 24.799 | 22.971 | 24.901 | 25.896 | 25.368 | 22.668 | 25.216 |
| 55 | 16.059 | 17.673 | 17.874 | 17.431 | 15.527 | 17.710 | 19.356 | 17.902 | 16.368 | 18.270 |
| 60 | 11.403 | 13.342 | 13.988 | 13.211 | 11.722 | 14.493 | 15.518 | 14.255 | 13.039 | 14.715 |
| 65 | 11.117 | 11.238 | 11.361 | 11.669 | 10.730 | 13.405 | 13.330 | 13.101 | 12.268 | 13.761 |
| 70 | 9.742 | 9.965 | 9.002 | 10.377 | 9.338 | 12.543 | 12.138 | 12.784 | 11.357 | 12.464 |
| 75 | 7.520 | 7.307 | 6.541 | 7.866 | 8.137 | 11.599 | 9.653 | 10.959 | 9.241 | 10.824 |
| 80 | 4.063 | 4.364 | 4.049 | 4.874 | 5.619 | 8.499 | 8.285 | 8.277 | 7.799 | 7.811 |
| 85 | 1.883 | 1.584 | 1.553 | 2.215 | 2.124 | 6.412 | 6.917 | 6.424 | 5.714 | 5.181 |
| 90 | 0.654 | 0.711 | 0.763 | 0.816 | 0.893 | 4.972 | 5.231 | 4.426 | 0.000 | 0.672 |
| 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 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 | 1359.836 |
| 5 | 1308.635 | 1319.148 | 1318.636 | 1316.283 | 1318.958 | 1316.594 | 1316.860 |
| 10 | 1180.194 | 1187.700 | 1189.801 | 1188.817 | 1195.438 | 1191.367 | 1189.398 |
| 15 | 989.707 | 987.956 | 992.582 | 992.874 | 1004.805 | 998.972 | 993.960 |
| 20 | 779.132 | 769.362 | 772.190 | 778.251 | 791.058 | 782.661 | 771.335 |
| 25 | 593.539 | 576.493 | 533.166 | 571.420 | 603.847 | 568.433 | 532.565 |
| 30 | 420.580 | 346.943 | 265.151 | 339.707 | 438.562 | 328.297 | 261.697 |
| 35 | 231.127 | 131.091 | 110.647 | 146.216 | 262.269 | 133.561 | 106.144 |
| 40 | 92.079 | 58.760 | 57.385 | 64.814 | 113.907 | 61.840 | 55.482 |
| 45 | 40.017 | 36.926 | 35.590 | 39.950 | 47.354 | 39.771 | 35.218 |

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| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 50 | 26.832 | 25.524 | 23.220 | 26.695 | 28.845 | 26.798 | 24.416 |
| 55 | 20.376 | 19.856 | 16.436 | 18.409 | 20.570 | 18.883 | 16.059 |
| 60 | 16.218 | 13.648 | 12.765 | 13.914 | 15.698 | 14.492 | 11.403 |
| 65 | 14.328 | 13.471 | 11.082 | 11.333 | 11.995 | 11.951 | 11.117 |
| 70 | 12.089 | 12.228 | 10.641 | 10.064 | 9.301 | 10.160 | 9.742 |
| 75 | 9.421 | 9.075 | 9.214 | 6.183 | 6.712 | 7.127 | 7.520 |
| 80 | 7.436 | 6.831 | 6.336 | 3.412 | 3.745 | 3.693 | 4.063 |
| 85 | 5.463 | 4.590 | 5.101 | 1.174 | 1.566 | 1.813 | 1.883 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.654 |
| 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 | 398.05 | N.A. | 47.70 |
| 0-30 | 652.89 | N.A. | 78.20 |
| 0-40 | 760.89 | N.A. | 91.10 |
| 0-60 | 809.68 | N.A. | 96.90 |
| 0-80 | 830.88 | N.A. | 99.50 |
| 0-90 | 834.86 | N.A. | 100.00 |
| 10-90 | 713.16 | N.A. | 85.40 |
| 20-40 | 362.85 | N.A. | 43.40 |
| 20-50 | 394.85 | N.A. | 47.30 |
| 40-70 | 61.01 | N.A. | 7.30 |
| 60-80 | 21.20 | N.A. | 2.50 |
| 70-80 | 8.98 | N.A. | 1.10 |
| 80-90 | 3.98 | N.A. | 0.50 |
| 90-110 | 0.33 | N.A. | 0.00 |
| 90-120 | 0.33 | N.A. | 0.00 |
| 90-130 | 0.33 | N.A. | 0.00 |
| 90-150 | 0.33 | N.A. | 0.00 |
| 90-180 | 0.33 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 835.18 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 121.70 |
| 10-20 | 276.35 |
| 20-30 | 254.85 |
| 30-40 | 108.00 |
| 40-50 | 32.00 |
| 50-60 | 16.79 |
| 60-70 | 12.22 |
| 70-80 | 8.98 |
| 80-90 | 3.98 |
| 90-100 | 0.33 |
| 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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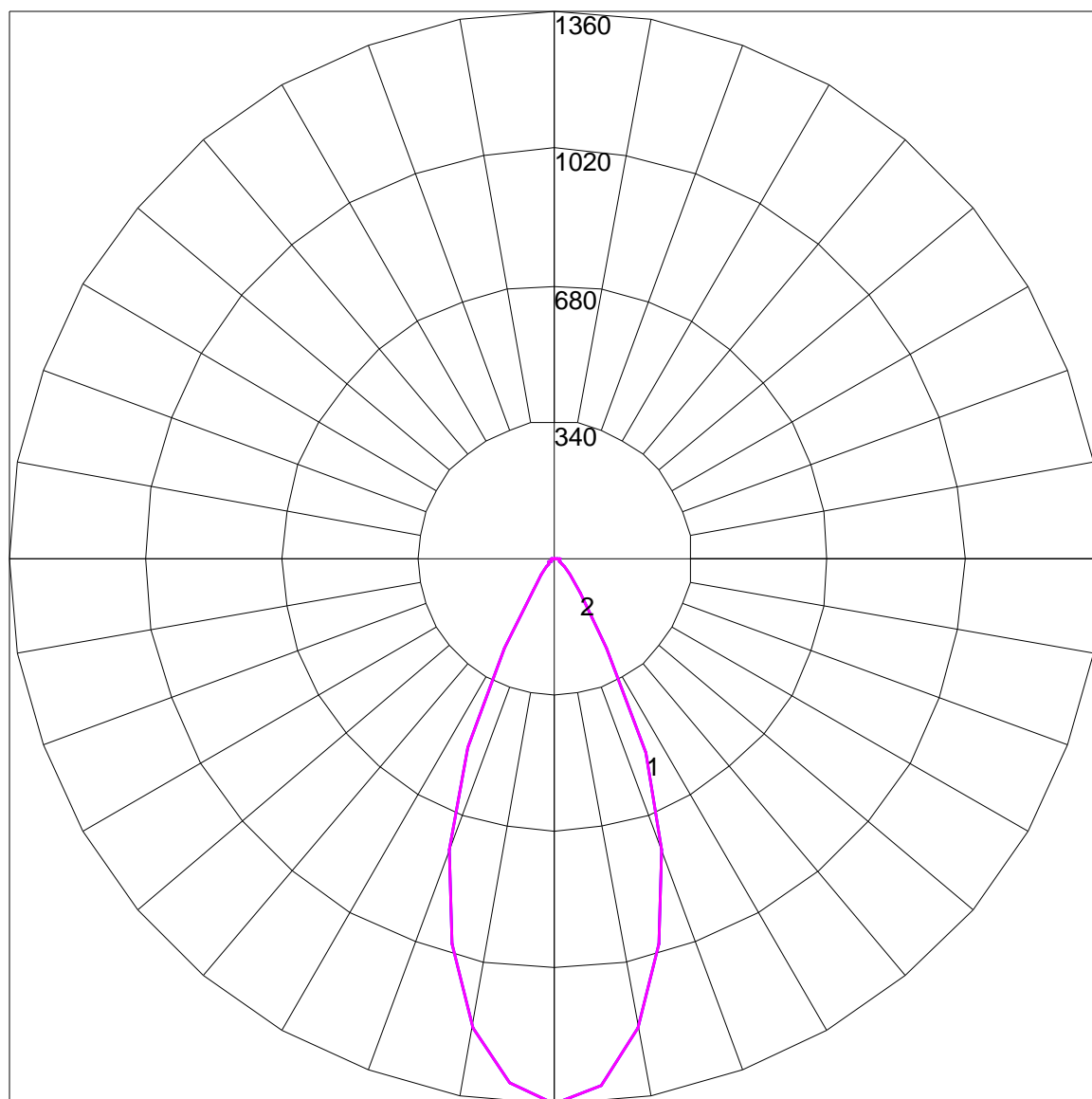
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1359.836 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)