

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_14 ~ C0611SQXT-10LXXK-XNEX-TCY-NLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_14_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-10L-xxK-XN-EX-TCY-NL-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Xtra Narrow Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] No Lens, Flush with Lower Trim
 [OTHER] 12 Degree Beam Angle
 [LAMPCAT] N/A
 [LAMPCAT] N/A, 9mm 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 20L

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 944 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 74 |
| Total Luminaire Watts | 12.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.20 |
| Spacing Criterion (90-270) | 0.20 |
| Spacing Criterion (Diagonal) | 0.22 |
| 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_14 ~ C0611SQXT-10LXXK-XNEX-TCY-NLMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1300 | 1417 | 1059 |
| 55 | 1252 | 1217 | 877 |
| 65 | 2083 | 1366 | 1555 |
| 75 | 1161 | 1192 | 1180 |
| 85 | 1402 | 2363 | 1428 |

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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 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 |
| 5 | 6191.121 | 7191.460 | 5353.236 | 6606.062 | 6192.323 | 7473.688 | 7970.190 | 6942.736 | 7499.217 | 6512.085 |
| 10 | 1146.616 | 1654.911 | 1107.740 | 1495.940 | 1356.478 | 1885.208 | 2224.544 | 1669.760 | 1934.985 | 1473.494 |
| 15 | 449.674 | 507.059 | 428.000 | 490.971 | 441.282 | 489.963 | 599.595 | 482.256 | 562.380 | 471.373 |
| 20 | 377.512 | 382.582 | 382.595 | 375.859 | 366.455 | 376.658 | 388.464 | 371.288 | 376.226 | 382.874 |
| 25 | 303.260 | 350.255 | 350.129 | 308.006 | 264.839 | 318.671 | 351.102 | 325.989 | 296.866 | 335.916 |
| 30 | 108.691 | 186.915 | 293.331 | 82.703 | 32.525 | 139.401 | 321.979 | 172.378 | 82.698 | 167.431 |
| 35 | 9.998 | 29.036 | 133.469 | 9.399 | 8.395 | 9.777 | 164.305 | 10.757 | 10.430 | 11.344 |
| 40 | 9.471 | 11.895 | 9.968 | 9.401 | 7.575 | 6.854 | 16.978 | 9.069 | 7.627 | 7.913 |
| 45 | 8.575 | 9.331 | 9.347 | 7.639 | 6.981 | 7.738 | 9.195 | 8.833 | 7.798 | 10.367 |
| 50 | 7.901 | 8.200 | 7.756 | 6.996 | 5.065 | 7.343 | 7.618 | 7.357 | 7.243 | 8.489 |
| 55 | 6.697 | 6.478 | 6.511 | 5.046 | 4.691 | 7.269 | 6.116 | 5.257 | 5.027 | 7.370 |
| 60 | 5.080 | 6.619 | 5.761 | 6.219 | 5.898 | 7.381 | 5.942 | 6.469 | 4.721 | 7.619 |
| 65 | 8.211 | 6.659 | 5.386 | 6.013 | 6.131 | 5.000 | 7.040 | 8.012 | 6.643 | 8.114 |
| 70 | 7.329 | 5.705 | 5.798 | 4.249 | 4.082 | 3.719 | 5.881 | 6.810 | 6.705 | 5.779 |
| 75 | 2.803 | 3.743 | 2.877 | 3.109 | 2.849 | 5.514 | 4.667 | 5.620 | 4.457 | 4.990 |
| 80 | 2.689 | 1.811 | 2.339 | 1.763 | 1.247 | 5.169 | 3.855 | 4.372 | 4.512 | 3.548 |
| 85 | 1.140 | 1.624 | 1.921 | 0.937 | 1.161 | 4.225 | 3.288 | 4.866 | 3.814 | 5.918 |
| 90 | 0.703 | 0.228 | 0.776 | 0.579 | 0.150 | 3.291 | 1.307 | 2.481 | 1.889 | 2.558 |
| 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 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 | 11460.194 |
| 5 | 8201.974 | 7169.959 | 7584.306 | 6440.135 | 5841.145 | 6896.570 | 6191.121 |
| 10 | 2345.375 | 1657.559 | 1997.424 | 1497.026 | 1144.146 | 1593.577 | 1146.616 |
| 15 | 621.967 | 489.118 | 549.742 | 490.669 | 451.948 | 505.266 | 449.674 |
| 20 | 405.301 | 386.290 | 382.662 | 381.954 | 393.118 | 392.305 | 377.512 |
| 25 | 363.210 | 351.534 | 346.418 | 349.220 | 357.378 | 358.635 | 303.260 |
| 30 | 331.754 | 254.730 | 144.791 | 219.862 | 322.210 | 177.978 | 108.691 |
| 35 | 265.887 | 53.530 | 20.190 | 30.183 | 207.286 | 29.326 | 9.998 |
| 40 | 34.963 | 11.673 | 7.778 | 10.132 | 45.850 | 9.065 | 9.471 |
| 45 | 12.217 | 9.650 | 8.153 | 8.695 | 9.545 | 9.577 | 8.575 |

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| | | | | | | | |
|-----|--------|-------|-------|-------|--------|-------|-------|
| 50 | 11.262 | 9.096 | 9.304 | 7.482 | 9.131 | 9.432 | 7.901 |
| 55 | 10.095 | 8.783 | 9.592 | 8.284 | 10.091 | 8.361 | 6.697 |
| 60 | 9.067 | 8.560 | 7.025 | 8.611 | 9.498 | 7.192 | 5.080 |
| 65 | 6.972 | 9.414 | 7.471 | 7.602 | 7.182 | 7.593 | 8.211 |
| 70 | 6.136 | 7.141 | 6.598 | 6.032 | 4.858 | 6.309 | 7.329 |
| 75 | 4.936 | 6.140 | 8.731 | 3.795 | 3.015 | 4.190 | 2.803 |
| 80 | 3.648 | 5.047 | 4.893 | 1.819 | 2.306 | 1.844 | 2.689 |
| 85 | 4.360 | 3.810 | 3.225 | 1.067 | 1.200 | 1.358 | 1.140 |
| 90 | 1.356 | 2.626 | 1.964 | 0.574 | 0.436 | 0.238 | 0.703 |
| 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 | 723.63 | N.A. | 76.70 |
| 0-30 | 864.92 | N.A. | 91.70 |
| 0-40 | 914.84 | N.A. | 97.00 |
| 0-60 | 929.08 | N.A. | 98.50 |
| 0-80 | 940.50 | N.A. | 99.70 |
| 0-90 | 943.22 | N.A. | 100.00 |
| 10-90 | 419.35 | N.A. | 44.40 |
| 20-40 | 191.21 | N.A. | 20.30 |
| 20-50 | 198.83 | N.A. | 21.10 |
| 40-70 | 20.92 | N.A. | 2.20 |
| 60-80 | 11.42 | N.A. | 1.20 |
| 70-80 | 4.73 | N.A. | 0.50 |
| 80-90 | 2.72 | N.A. | 0.30 |
| 90-110 | 0.36 | N.A. | 0.00 |
| 90-120 | 0.36 | N.A. | 0.00 |
| 90-130 | 0.36 | N.A. | 0.00 |
| 90-150 | 0.36 | N.A. | 0.00 |
| 90-180 | 0.36 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 943.59 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 523.87 |
| 10-20 | 199.76 |
| 20-30 | 141.29 |
| 30-40 | 49.92 |
| 40-50 | 7.62 |
| 50-60 | 6.62 |
| 60-70 | 6.69 |
| 70-80 | 4.73 |
| 80-90 | 2.72 |
| 90-100 | 0.36 |
| 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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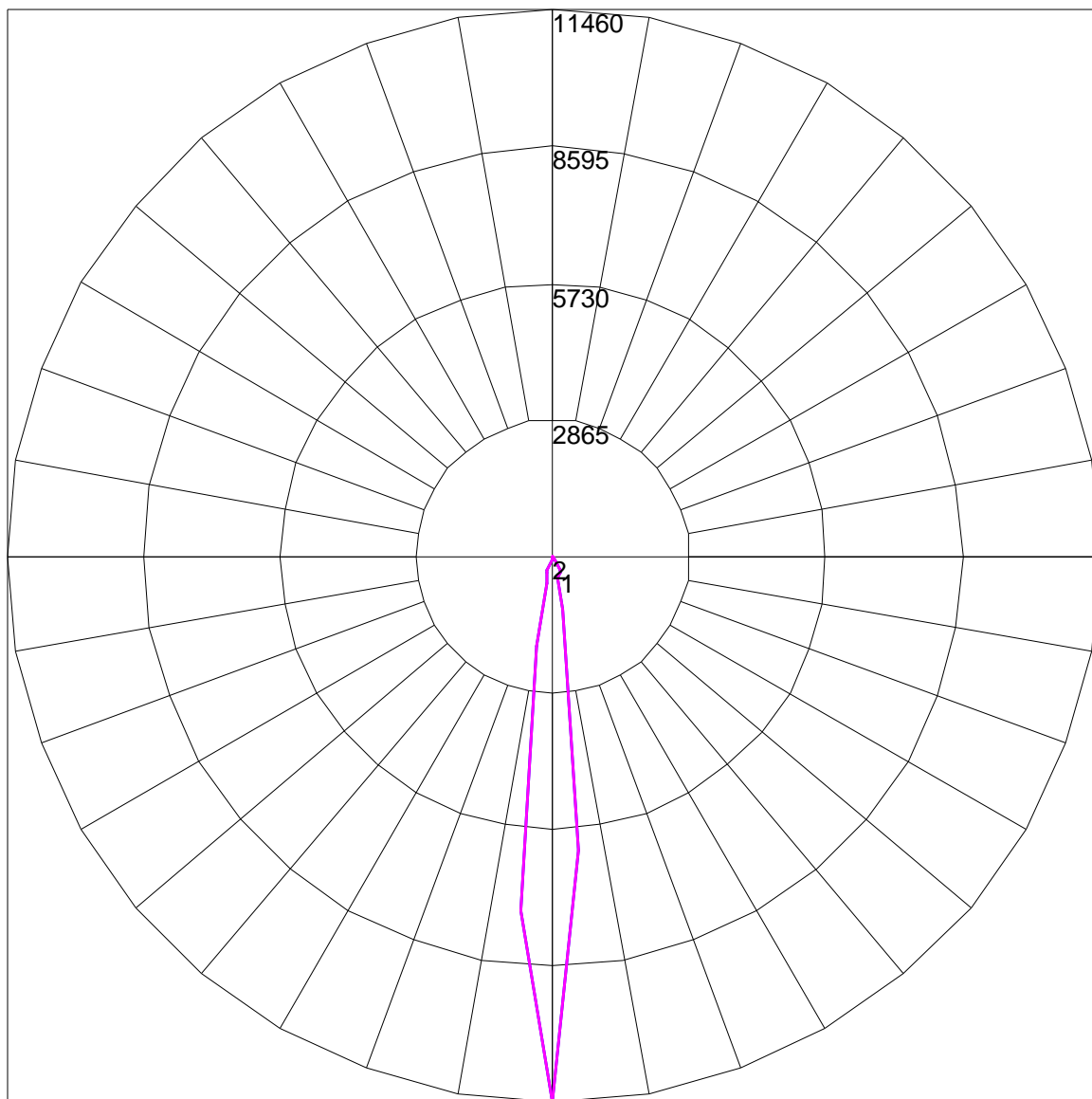
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 |
| 2 | 111 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 94 |
| 3 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 97 | 100 | 97 | 95 | 98 | 96 | 94 | 96 | 94 | 92 | 91 |
| 4 | 105 | 100 | 96 | 93 | 104 | 99 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 92 | 90 | 89 |
| 5 | 102 | 97 | 93 | 90 | 101 | 96 | 92 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 92 | 89 | 88 | 87 |
| 6 | 100 | 94 | 90 | 87 | 99 | 93 | 90 | 87 | 92 | 89 | 87 | 91 | 88 | 86 | 90 | 87 | 86 | 85 |
| 7 | 98 | 92 | 88 | 85 | 97 | 91 | 87 | 85 | 90 | 87 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 83 |
| 8 | 95 | 89 | 86 | 83 | 95 | 89 | 85 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 86 | 84 | 82 | 81 |
| 9 | 93 | 87 | 84 | 81 | 93 | 87 | 84 | 81 | 86 | 83 | 81 | 86 | 83 | 81 | 85 | 82 | 80 | 80 |
| 10 | 92 | 86 | 82 | 80 | 91 | 85 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 83 | 81 | 79 | 78 |

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POLAR GRAPH



Maximum Candela = 11460.194 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)