

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_2 ~ C08XXSQXT-10LXXK-MDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00611_2_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 2/2/2018
[LUMCAT] C08xxSQXT-10L-xxK-EX-TSG-MD-NL
[LUMINAIRE] Nom. 8" Square LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 16"H Square Cylinders
[OTHER] Upper, Internal Reflector, Medium Beam
[OTHER] Lower Trim, Semi-diffuse Clear Anodized
[OTHER] No Lens
[OTHER] 40 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 | 822 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 90 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.58 |
| Spacing Criterion (90-270) | 0.62 |
| Spacing Criterion (Diagonal) | 0.70 |
| 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_2 ~ C08XXSQXT-10LXXK-MDEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 838 | 830 | 847 |
| 55 | 168 | 113 | 145 |
| 65 | 67 | 67 | 87 |
| 75 | 103 | 106 | 156 |
| 85 | 175 | 264 | 170 |

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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 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 |
| 5 | 1412.996 | 1438.742 | 1444.917 | 1465.189 | 1467.088 | 1479.168 | 1498.502 | 1507.293 | 1519.451 | 1511.547 |
| 10 | 1181.095 | 1219.219 | 1227.423 | 1262.823 | 1262.972 | 1295.345 | 1337.434 | 1346.613 | 1370.384 | 1347.133 |
| 15 | 913.240 | 964.379 | 972.693 | 999.984 | 989.911 | 1031.851 | 1086.661 | 1088.094 | 1121.329 | 1088.396 |
| 20 | 692.440 | 755.549 | 775.742 | 766.357 | 736.927 | 782.920 | 832.680 | 820.356 | 847.249 | 832.708 |
| 25 | 534.476 | 573.922 | 573.508 | 588.479 | 550.058 | 591.362 | 625.582 | 609.075 | 620.749 | 614.271 |
| 30 | 370.110 | 358.356 | 368.919 | 418.072 | 405.365 | 354.550 | 371.215 | 448.511 | 452.241 | 340.176 |
| 35 | 185.814 | 134.722 | 114.365 | 234.712 | 188.108 | 104.650 | 118.682 | 208.012 | 269.153 | 102.394 |
| 40 | 56.746 | 28.326 | 30.257 | 82.636 | 47.930 | 27.858 | 31.826 | 53.821 | 87.445 | 24.437 |
| 45 | 13.780 | 13.885 | 13.640 | 15.616 | 13.919 | 12.968 | 14.817 | 15.454 | 14.566 | 11.848 |
| 50 | 5.888 | 5.264 | 4.828 | 6.849 | 6.101 | 4.602 | 5.732 | 6.813 | 6.536 | 4.209 |
| 55 | 2.245 | 1.840 | 1.513 | 2.173 | 1.933 | 1.675 | 2.194 | 2.354 | 2.219 | 1.393 |
| 60 | 0.943 | 0.710 | 1.174 | 0.711 | 0.821 | 0.993 | 1.601 | 1.486 | 0.922 | 1.081 |
| 65 | 0.663 | 0.487 | 0.660 | 0.630 | 0.853 | 1.057 | 1.213 | 1.262 | 1.044 | 1.033 |
| 70 | 0.641 | 0.687 | 0.872 | 0.639 | 0.654 | 1.429 | 1.449 | 1.080 | 1.338 | 1.575 |
| 75 | 0.618 | 0.494 | 0.635 | 0.603 | 0.936 | 1.998 | 1.327 | 1.880 | 1.525 | 1.789 |
| 80 | 0.699 | 0.407 | 0.663 | 0.613 | 0.417 | 2.798 | 2.770 | 2.189 | 2.541 | 2.937 |
| 85 | 0.354 | 0.481 | 0.534 | 0.525 | 0.344 | 3.064 | 3.604 | 2.606 | 3.374 | 3.510 |
| 90 | 0.724 | 0.288 | 0.497 | 0.265 | 0.283 | 4.230 | 2.195 | 3.550 | 1.852 | 4.161 |
| 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 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 | 1539.586 |
| 5 | 1511.714 | 1491.992 | 1493.476 | 1446.465 | 1420.507 | 1425.814 | 1412.996 |
| 10 | 1345.909 | 1308.047 | 1307.468 | 1239.743 | 1197.246 | 1199.955 | 1181.095 |
| 15 | 1088.391 | 1039.621 | 1041.371 | 983.156 | 938.399 | 927.222 | 913.240 |
| 20 | 825.932 | 779.486 | 782.070 | 772.040 | 735.701 | 695.591 | 692.440 |
| 25 | 601.859 | 574.214 | 594.263 | 599.641 | 567.055 | 531.429 | 534.476 |
| 30 | 339.069 | 403.029 | 456.239 | 379.572 | 339.565 | 385.244 | 370.110 |
| 35 | 74.651 | 171.442 | 275.072 | 113.362 | 114.991 | 201.664 | 185.814 |
| 40 | 24.477 | 39.221 | 93.442 | 29.171 | 26.590 | 56.339 | 56.746 |
| 45 | 11.139 | 11.937 | 16.114 | 14.574 | 12.877 | 14.216 | 13.780 |
| 50 | 3.921 | 4.976 | 7.447 | 5.585 | 4.953 | 6.318 | 5.888 |
| 55 | 0.995 | 1.872 | 2.495 | 1.658 | 1.642 | 1.899 | 2.245 |
| 60 | 0.914 | 1.310 | 1.173 | 0.949 | 1.016 | 1.005 | 0.943 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00611_2 ~ C08XXSQXT-10LXXK-MDEX-TSG-NL.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 65 | 1.105 | 0.990 | 1.213 | 0.602 | 0.690 | 0.823 | 0.663 |
| 70 | 1.307 | 1.412 | 1.282 | 0.462 | 0.648 | 0.717 | 0.641 |
| 75 | 1.940 | 1.958 | 1.697 | 0.477 | 0.658 | 0.519 | 0.618 |
| 80 | 2.276 | 2.488 | 2.384 | 0.649 | 0.532 | 0.684 | 0.699 |
| 85 | 3.544 | 3.829 | 3.725 | 0.390 | 0.582 | 0.441 | 0.354 |
| 90 | 2.143 | 4.042 | 2.200 | 0.220 | 0.671 | 0.381 | 0.724 |
| 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_2 ~ C08XXSQXT-10LXXK-MDEX-TSG-NL.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 418.35 | N.A. | 50.90 |
| 0-30 | 684.06 | N.A. | 83.20 |
| 0-40 | 800.03 | N.A. | 97.30 |
| 0-60 | 817.40 | N.A. | 99.40 |
| 0-80 | 819.67 | N.A. | 99.70 |
| 0-90 | 821.62 | N.A. | 99.90 |
| 10-90 | 687.30 | N.A. | 83.60 |
| 20-40 | 381.67 | N.A. | 46.40 |
| 20-50 | 396.74 | N.A. | 48.30 |
| 40-70 | 18.33 | N.A. | 2.20 |
| 60-80 | 2.27 | N.A. | 0.30 |
| 70-80 | 1.31 | N.A. | 0.20 |
| 80-90 | 1.95 | N.A. | 0.20 |
| 90-110 | 0.47 | N.A. | 0.10 |
| 90-120 | 0.47 | N.A. | 0.10 |
| 90-130 | 0.47 | N.A. | 0.10 |
| 90-150 | 0.47 | N.A. | 0.10 |
| 90-180 | 0.47 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 822.10 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 134.33 |
| 10-20 | 284.02 |
| 20-30 | 265.71 |
| 30-40 | 115.97 |
| 40-50 | 15.06 |
| 50-60 | 2.31 |
| 60-70 | 0.96 |
| 70-80 | 1.31 |
| 80-90 | 1.95 |
| 90-100 | 0.47 |
| 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

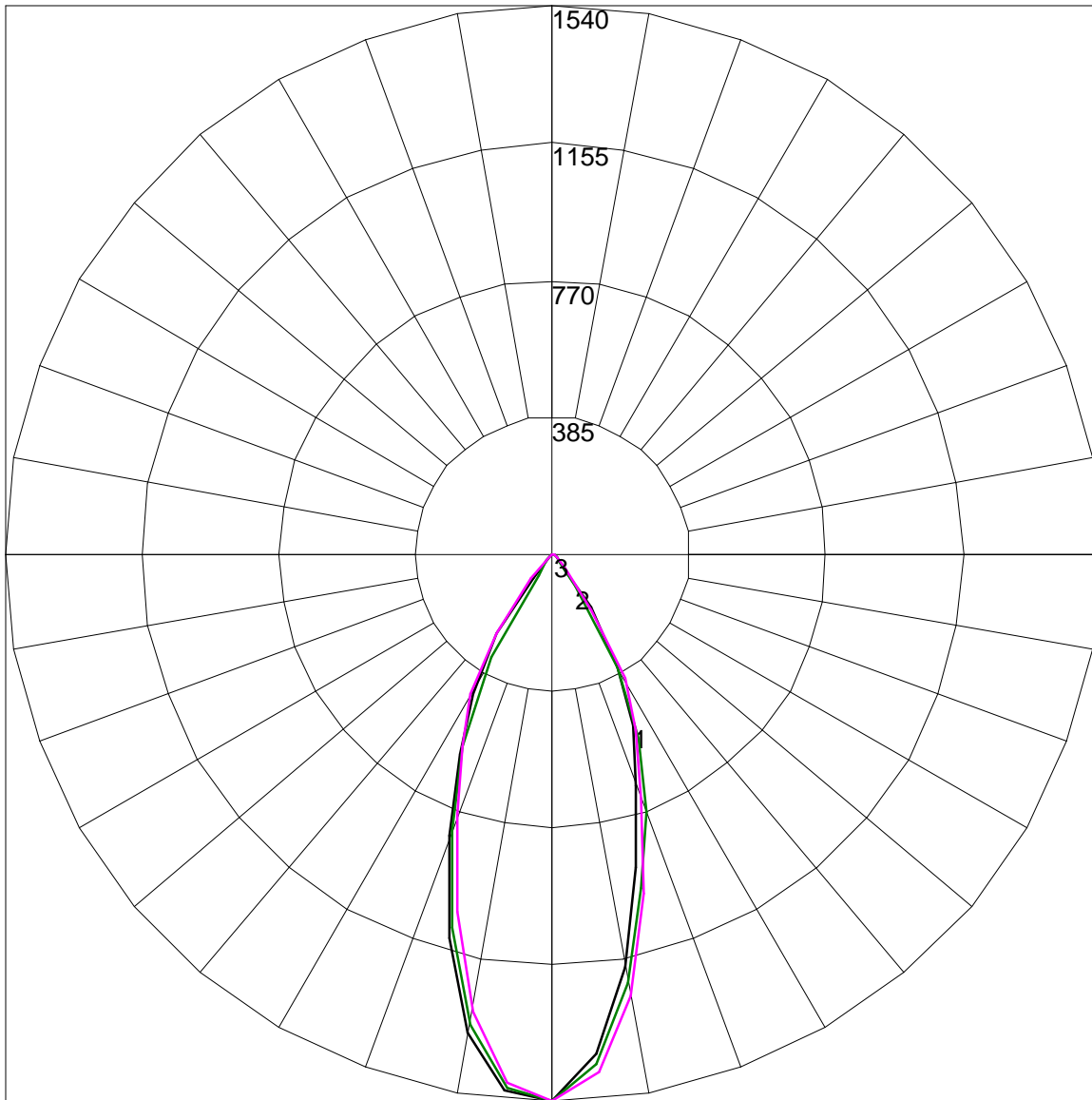
Effective Floor Cavity Reflectance 0.20

| 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 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 104 | 99 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 75 |
| 6 | 91 | 84 | 78 | 74 | 90 | 83 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 71 |
| 7 | 88 | 79 | 74 | 70 | 86 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 |
| 8 | 84 | 76 | 70 | 67 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 64 |
| 9 | 81 | 72 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 63 | 61 |
| 10 | 77 | 69 | 64 | 60 | 77 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 |

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POLAR GRAPH



Maximum Candela = 1539.586 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)