

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_5 ~ C0611SQXT-10LXXK-NDEX-TCY-GLMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_5_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-10L-xxK-ND-EX-TCY-GL-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Narrow Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 21 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 | 982 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.36 |
| Spacing Criterion (90-270) | 0.36 |
| Spacing Criterion (Diagonal) | 0.40 |
| 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_5 ~ C0611SQXT-10LXXK-NDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2360 | 2658 | 2359 |
| 55 | 2723 | 2621 | 2750 |
| 65 | 2431 | 2843 | 2779 |
| 75 | 2518 | 2489 | 3039 |
| 85 | 1577 | 1923 | 2720 |

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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 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 |
| 5 | 3575.378 | 3557.928 | 3555.156 | 3575.388 | 3623.567 | 3605.631 | 3641.547 | 3584.775 | 3589.313 | 3551.612 |
| 10 | 2227.281 | 2211.989 | 2212.518 | 2202.979 | 2244.535 | 2246.130 | 2220.591 | 2232.893 | 2220.124 | 2219.015 |
| 15 | 1195.411 | 1192.115 | 1203.098 | 1204.098 | 1201.519 | 1210.871 | 1186.971 | 1204.703 | 1189.767 | 1202.114 |
| 20 | 688.296 | 689.622 | 705.470 | 699.962 | 685.871 | 695.765 | 697.961 | 694.195 | 679.345 | 693.588 |
| 25 | 408.846 | 451.359 | 479.941 | 439.112 | 395.329 | 430.123 | 477.037 | 444.969 | 389.854 | 430.510 |
| 30 | 159.861 | 250.943 | 344.102 | 186.188 | 145.749 | 205.177 | 347.272 | 227.242 | 140.319 | 190.427 |
| 35 | 31.894 | 62.884 | 185.025 | 46.232 | 23.078 | 44.277 | 190.187 | 58.641 | 21.463 | 45.981 |
| 40 | 17.597 | 19.359 | 43.070 | 18.544 | 16.798 | 18.025 | 38.214 | 18.206 | 15.530 | 18.652 |
| 45 | 15.562 | 16.159 | 17.527 | 15.695 | 15.555 | 15.454 | 17.568 | 15.697 | 14.297 | 16.184 |
| 50 | 15.395 | 15.122 | 14.353 | 13.933 | 15.216 | 15.147 | 15.834 | 14.602 | 14.411 | 14.732 |
| 55 | 14.565 | 13.939 | 14.022 | 13.436 | 14.710 | 14.899 | 14.570 | 14.127 | 13.854 | 13.682 |
| 60 | 11.623 | 11.964 | 12.915 | 12.828 | 12.946 | 14.214 | 13.566 | 13.335 | 11.938 | 13.218 |
| 65 | 9.583 | 10.983 | 11.205 | 12.277 | 10.955 | 13.233 | 12.951 | 12.598 | 11.228 | 12.399 |
| 70 | 8.847 | 9.121 | 9.547 | 9.417 | 8.886 | 12.892 | 11.608 | 12.376 | 11.270 | 12.814 |
| 75 | 6.078 | 6.754 | 6.009 | 7.569 | 7.337 | 11.083 | 10.217 | 9.928 | 9.968 | 10.088 |
| 80 | 3.315 | 3.387 | 4.115 | 3.999 | 4.486 | 8.781 | 7.438 | 7.922 | 7.465 | 7.642 |
| 85 | 1.282 | 1.160 | 1.563 | 1.856 | 2.211 | 5.691 | 5.800 | 5.577 | 5.258 | 6.141 |
| 90 | 0.181 | 0.000 | 0.766 | 0.509 | 0.545 | 4.662 | 4.127 | 4.191 | 3.163 | 4.504 |
| 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 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 | 4270.687 |
| 5 | 3540.600 | 3637.498 | 3590.918 | 3591.957 | 3606.233 | 3595.880 | 3575.378 |
| 10 | 2221.157 | 2203.701 | 2252.312 | 2250.181 | 2222.493 | 2232.791 | 2227.281 |
| 15 | 1212.610 | 1167.379 | 1215.861 | 1212.190 | 1201.346 | 1193.710 | 1195.411 |
| 20 | 705.183 | 676.559 | 686.558 | 692.102 | 700.087 | 690.531 | 688.296 |
| 25 | 481.192 | 452.882 | 394.921 | 448.210 | 480.725 | 445.577 | 408.846 |
| 30 | 353.196 | 255.255 | 143.681 | 230.270 | 363.858 | 230.095 | 159.861 |
| 35 | 189.282 | 50.185 | 30.051 | 62.497 | 212.089 | 58.400 | 31.894 |
| 40 | 57.081 | 20.089 | 17.863 | 20.686 | 68.788 | 21.453 | 17.597 |
| 45 | 18.780 | 16.300 | 15.429 | 17.559 | 20.841 | 18.825 | 15.562 |

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| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 50 | 16.240 | 15.882 | 14.824 | 15.266 | 16.213 | 16.582 | 15.395 |
| 55 | 16.286 | 14.231 | 14.743 | 13.633 | 15.550 | 13.994 | 14.565 |
| 60 | 15.238 | 14.726 | 13.031 | 12.860 | 13.576 | 12.140 | 11.623 |
| 65 | 13.989 | 13.650 | 12.248 | 12.268 | 10.637 | 10.597 | 9.583 |
| 70 | 10.760 | 12.028 | 9.787 | 9.313 | 9.100 | 9.967 | 8.847 |
| 75 | 9.005 | 9.849 | 8.603 | 5.213 | 6.308 | 6.950 | 6.078 |
| 80 | 7.013 | 7.318 | 7.083 | 2.652 | 2.603 | 2.736 | 3.315 |
| 85 | 5.793 | 5.411 | 5.229 | 1.460 | 1.026 | 1.310 | 1.282 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.181 |
| 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 | 661.15 | N.A. | 67.30 |
| 0-30 | 865.62 | N.A. | 88.10 |
| 0-40 | 930.60 | N.A. | 94.70 |
| 0-60 | 957.93 | N.A. | 97.50 |
| 0-80 | 978.23 | N.A. | 99.60 |
| 0-90 | 982.05 | N.A. | 100.00 |
| 10-90 | 680.06 | N.A. | 69.20 |
| 20-40 | 269.44 | N.A. | 27.40 |
| 20-50 | 283.97 | N.A. | 28.90 |
| 40-70 | 39.09 | N.A. | 4.00 |
| 60-80 | 20.31 | N.A. | 2.10 |
| 70-80 | 8.54 | N.A. | 0.90 |
| 80-90 | 3.82 | N.A. | 0.40 |
| 90-110 | 0.39 | N.A. | 0.00 |
| 90-120 | 0.39 | N.A. | 0.00 |
| 90-130 | 0.39 | N.A. | 0.00 |
| 90-150 | 0.39 | N.A. | 0.00 |
| 90-180 | 0.39 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 982.44 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 301.99 |
| 10-20 | 359.16 |
| 20-30 | 204.47 |
| 30-40 | 64.97 |
| 40-50 | 14.53 |
| 50-60 | 12.80 |
| 60-70 | 11.77 |
| 70-80 | 8.54 |
| 80-90 | 3.82 |
| 90-100 | 0.39 |
| 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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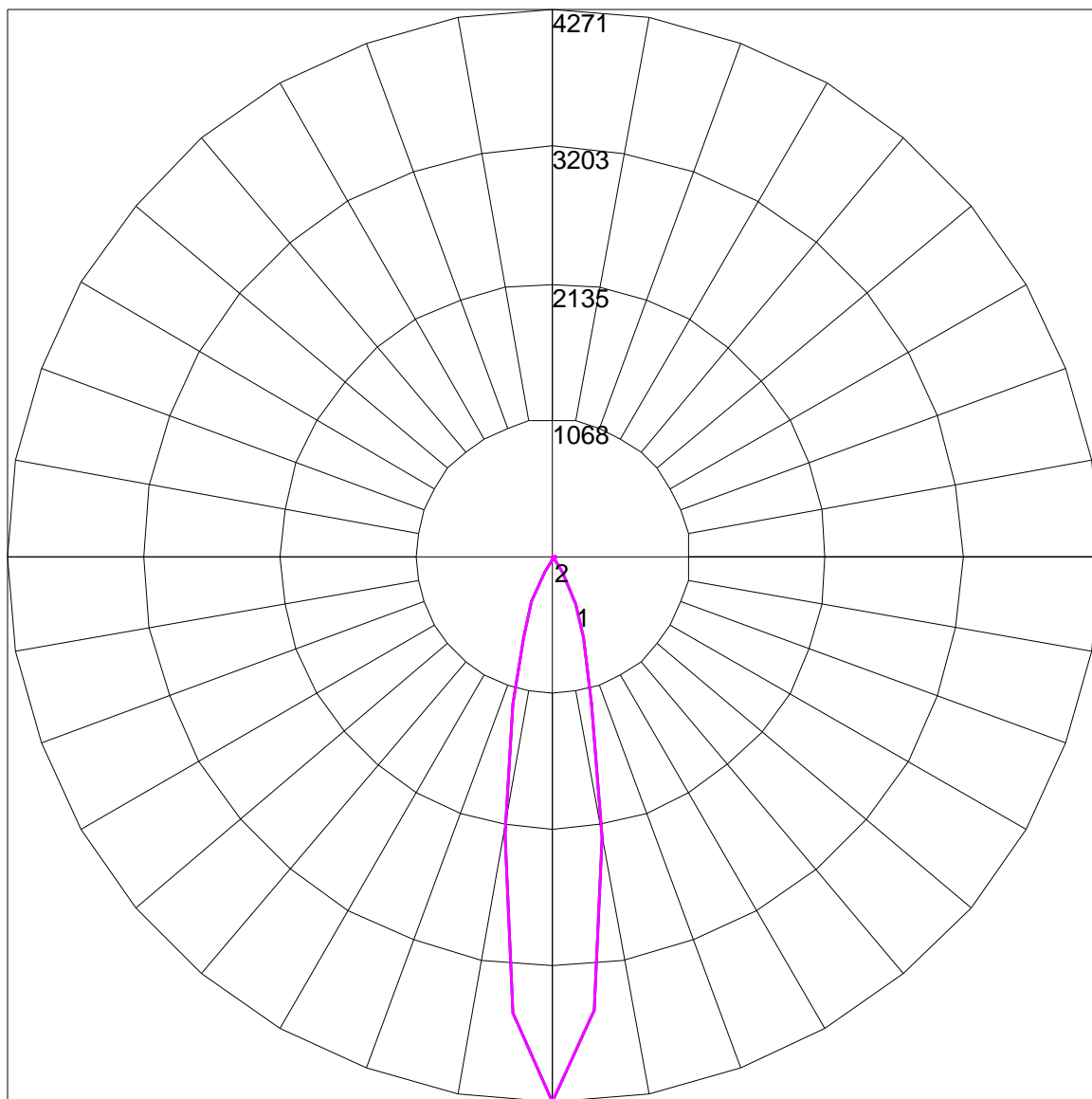
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 4 | 102 | 96 | 91 | 88 | 100 | 95 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 85 | 89 | 86 | 84 | 83 |
| 5 | 98 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 80 |
| 6 | 95 | 88 | 83 | 80 | 94 | 87 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 77 |
| 7 | 92 | 84 | 80 | 76 | 91 | 84 | 79 | 76 | 83 | 79 | 76 | 82 | 78 | 75 | 81 | 77 | 75 | 74 |
| 8 | 89 | 81 | 77 | 74 | 88 | 81 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 71 |
| 9 | 86 | 79 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 |
| 10 | 84 | 76 | 72 | 69 | 83 | 76 | 71 | 69 | 75 | 71 | 68 | 74 | 71 | 68 | 74 | 70 | 68 | 67 |

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POLAR GRAPH



Maximum Candela = 4270.687 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)