

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_9 ~ C0611SQXT-30LXXK-WDEX-TCY-GLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00618\_9  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/29/2017  
[UPDATE] 3/26/2018  
[LUMCAT] C0611SQXT-30L-xxK-WD-EX-TCY-GL-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] Clear Glass Lens, Flush with Lower Trim  
[OTHER] 43.3 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

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2628            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 81              |
| Total Luminaire Watts           | 32.6            |
| 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\_9 ~ C0611SQXT-30LXXK-WDEX-TCY-GLMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 16087            | 17541             | 15176             |
| 55                  | 10158            | 10558             | 8969              |
| 65                  | 8589             | 8570              | 8110              |
| 75                  | 9262             | 8824              | 9653              |
| 85                  | 8482             | 7403              | 9006              |

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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   | 4353.146   | 4353.146    | 4353.146    | 4353.146    | 4353.146    | 4353.146     | 4353.146     | 4353.146     | 4353.146     | 4353.146     |
| 5   | 4186.282   | 4182.653    | 4210.811    | 4221.408    | 4240.649    | 4219.753     | 4215.227     | 4219.156     | 4213.920     | 4205.641     |
| 10  | 3769.235   | 3764.699    | 3794.434    | 3817.582    | 3846.185    | 3833.599     | 3830.159     | 3830.561     | 3825.911     | 3814.726     |
| 15  | 3135.452   | 3139.914    | 3185.354    | 3200.868    | 3215.152    | 3219.793     | 3222.253     | 3211.988     | 3200.788     | 3196.560     |
| 20  | 2418.625   | 2438.824    | 2498.745    | 2480.578    | 2457.878    | 2485.584     | 2505.230     | 2472.148     | 2445.183     | 2461.995     |
| 25  | 1693.942   | 1836.438    | 1897.243    | 1792.649    | 1700.070    | 1743.753     | 1885.962     | 1793.040     | 1626.098     | 1728.617     |
| 30  | 856.098    | 1126.128    | 1419.168    | 996.609     | 767.087     | 943.320      | 1365.832     | 1015.211     | 716.820      | 855.205      |
| 35  | 307.003    | 449.407     | 819.989     | 338.528     | 283.153     | 336.495      | 735.405      | 378.346      | 267.681      | 314.887      |
| 40  | 161.513    | 174.985     | 280.554     | 175.883     | 164.281     | 161.725      | 249.315      | 155.400      | 146.507      | 155.704      |
| 45  | 106.096    | 109.925     | 115.683     | 114.358     | 100.087     | 104.336      | 101.685      | 99.230       | 92.780       | 100.614      |
| 50  | 74.831     | 75.833      | 78.830      | 77.624      | 68.213      | 71.394       | 71.076       | 69.532       | 60.926       | 70.473       |
| 55  | 54.343     | 55.579      | 56.481      | 53.174      | 47.980      | 51.479       | 54.018       | 50.676       | 44.886       | 52.732       |
| 60  | 40.514     | 42.572      | 43.204      | 39.875      | 36.986      | 42.093       | 41.946       | 42.792       | 37.839       | 42.211       |
| 65  | 33.854     | 37.484      | 33.779      | 33.410      | 31.966      | 38.668       | 36.865       | 38.099       | 36.016       | 38.076       |
| 70  | 31.757     | 31.824      | 27.614      | 28.716      | 30.251      | 35.221       | 36.256       | 35.656       | 32.505       | 37.838       |
| 75  | 22.357     | 22.736      | 21.300      | 26.145      | 23.301      | 32.698       | 31.040       | 31.516       | 30.415       | 32.727       |
| 80  | 12.406     | 11.573      | 12.286      | 15.160      | 12.931      | 28.322       | 25.050       | 25.743       | 25.853       | 22.968       |
| 85  | 6.895      | 5.087       | 6.018       | 7.394       | 7.321       | 21.898       | 18.330       | 20.017       | 18.090       | 19.855       |
| 90  | 2.444      | 2.032       | 2.605       | 2.589       | 3.185       | 15.115       | 13.953       | 14.523       | 0.000        | 0.000        |
| 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  | 4353.146     | 4353.146     | 4353.146     | 4353.146     | 4353.146     | 4353.146     | 4353.146     |
| 5  | 4218.049     | 4241.759     | 4254.987     | 4229.888     | 4217.585     | 4198.347     | 4186.282     |
| 10 | 3829.376     | 3862.574     | 3885.181     | 3850.301     | 3834.180     | 3795.780     | 3769.235     |
| 15 | 3216.127     | 3228.707     | 3226.332     | 3210.510     | 3221.007     | 3171.494     | 3135.452     |
| 20 | 2486.795     | 2463.034     | 2449.728     | 2461.835     | 2490.660     | 2454.241     | 2418.625     |
| 25 | 1867.101     | 1844.705     | 1733.525     | 1838.846     | 1884.528     | 1827.688     | 1693.942     |
| 30 | 1395.886     | 1146.894     | 778.596      | 1054.960     | 1405.770     | 1041.468     | 856.098      |
| 35 | 706.759      | 346.520      | 264.239      | 370.033      | 837.897      | 394.966      | 307.003      |
| 40 | 191.835      | 167.973      | 160.422      | 168.838      | 299.336      | 170.901      | 161.513      |
| 45 | 103.918      | 110.397      | 103.837      | 109.001      | 121.463      | 114.500      | 106.096      |

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|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| <b>50</b>  | 74.344 | 76.493 | 72.397 | 76.681 | 83.539 | 80.011 | 74.831 |
| <b>55</b>  | 57.700 | 56.031 | 52.218 | 55.363 | 64.351 | 58.557 | 54.343 |
| <b>60</b>  | 46.743 | 46.269 | 41.743 | 41.356 | 48.330 | 42.754 | 40.514 |
| <b>65</b>  | 39.638 | 43.552 | 39.526 | 34.457 | 41.169 | 37.320 | 33.854 |
| <b>70</b>  | 37.255 | 38.867 | 37.626 | 33.674 | 32.996 | 34.045 | 31.757 |
| <b>75</b>  | 28.290 | 30.640 | 29.457 | 20.615 | 22.254 | 25.157 | 22.357 |
| <b>80</b>  | 22.143 | 23.014 | 22.620 | 9.923  | 12.406 | 13.553 | 12.406 |
| <b>85</b>  | 16.133 | 14.308 | 16.334 | 3.915  | 5.163  | 5.577  | 6.895  |
| <b>90</b>  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 2.444  |
| <b>95</b>  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>100</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>105</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>110</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>115</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>120</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>125</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>130</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>135</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>140</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>145</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>150</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>155</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>160</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>165</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>170</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>175</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| <b>180</b> | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_9 ~ C0611SQXT-30LXXK-WDEX-TCY-GLMW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1273.84 | N.A.  | 48.50  |
| 0-30    | 2081.17 | N.A.  | 79.20  |
| 0-40    | 2408.09 | N.A.  | 91.60  |
| 0-60    | 2549.02 | N.A.  | 97.00  |
| 0-80    | 2614.35 | N.A.  | 99.50  |
| 0-90    | 2626.9  | N.A.  | 100.00 |
| 10-90   | 2236.78 | N.A.  | 85.10  |
| 20-40   | 1134.26 | N.A.  | 43.20  |
| 20-50   | 1225.07 | N.A.  | 46.60  |
| 40-70   | 178.22  | N.A.  | 6.80   |
| 60-80   | 65.33   | N.A.  | 2.50   |
| 70-80   | 28.04   | N.A.  | 1.10   |
| 80-90   | 12.55   | N.A.  | 0.50   |
| 90-110  | 0.97    | N.A.  | 0.00   |
| 90-120  | 0.97    | N.A.  | 0.00   |
| 90-130  | 0.97    | N.A.  | 0.00   |
| 90-150  | 0.97    | N.A.  | 0.00   |
| 90-180  | 0.97    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 2627.87 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 390.12 |
| 10-20   | 883.72 |
| 20-30   | 807.34 |
| 30-40   | 326.92 |
| 40-50   | 90.81  |
| 50-60   | 50.12  |
| 60-70   | 37.29  |
| 70-80   | 28.04  |
| 80-90   | 12.55  |
| 90-100  | 0.97   |
| 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   |

# IES INDOOR REPORT

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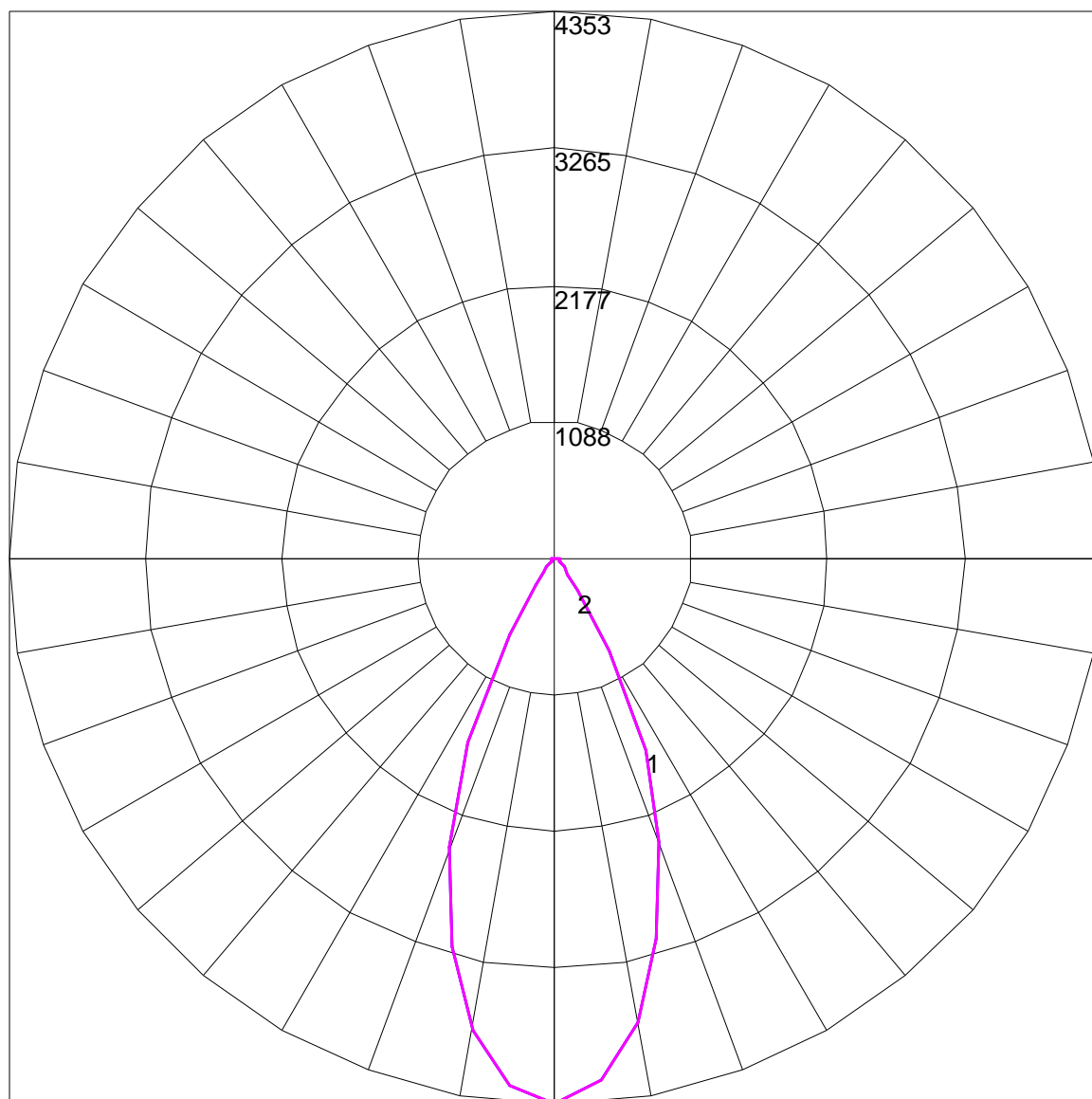
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 93  | 95  | 93  | 91  | 92  | 91  | 89  | 87  |
| 3  | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 82  |
| 4  | 98  | 91  | 86  | 81  | 96  | 90  | 85  | 81  | 88  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 77  |
| 5  | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |
| 6  | 89  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 76  | 72  | 70  | 68  |
| 7  | 86  | 77  | 71  | 67  | 84  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 69  | 66  | 73  | 69  | 66  | 65  |
| 8  | 82  | 73  | 67  | 63  | 81  | 72  | 67  | 63  | 71  | 67  | 63  | 70  | 66  | 63  | 69  | 65  | 63  | 61  |
| 9  | 79  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 62  | 59  | 58  |
| 10 | 75  | 66  | 61  | 57  | 74  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 64  | 60  | 57  | 55  |

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POLAR GRAPH



Maximum Candela = 4353.146 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)