

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00618\_9 ~ C0611SQXT-13LXXK-WDEX-TCY-GLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00618\_9\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C0611SQXT-13L-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, scaled from 30L

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 1139            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 88              |
| Total Luminaire Watts           | 13              |
| 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-13LXXK-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                  | 6971             | 7600              | 6576              |
| 55                  | 4402             | 4575              | 3886              |
| 65                  | 3722             | 3713              | 3514              |
| 75                  | 4013             | 3823              | 4182              |
| 85                  | 3676             | 3208              | 3902              |

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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   | 1886.218   | 1886.218    | 1886.218    | 1886.218    | 1886.218    | 1886.218     | 1886.218     | 1886.218     | 1886.218     | 1886.218     |
| 5   | 1813.916   | 1812.343    | 1824.544    | 1829.136    | 1837.473    | 1828.419     | 1826.458     | 1828.160     | 1825.891     | 1822.304     |
| 10  | 1633.209   | 1631.244    | 1644.128    | 1654.158    | 1666.552    | 1661.098     | 1659.608     | 1659.782     | 1657.767     | 1652.921     |
| 15  | 1358.591   | 1360.525    | 1380.214    | 1386.936    | 1393.125    | 1395.136     | 1396.202     | 1391.754     | 1386.901     | 1385.069     |
| 20  | 1047.990   | 1056.742    | 1082.706    | 1074.834    | 1064.999    | 1077.004     | 1085.516     | 1071.182     | 1059.498     | 1066.782     |
| 25  | 733.985    | 795.729     | 822.075     | 776.755     | 736.640     | 755.568      | 817.187      | 776.924      | 704.588      | 749.010      |
| 30  | 370.947    | 487.951     | 614.925     | 431.831     | 332.379     | 408.741      | 591.815      | 439.891      | 310.598      | 370.560      |
| 35  | 133.024    | 194.728     | 355.301     | 146.684     | 122.690     | 145.803      | 318.651      | 163.937      | 115.986      | 136.441      |
| 40  | 69.984     | 75.821      | 121.564     | 76.210      | 71.183      | 70.075       | 108.028      | 67.335       | 63.481       | 67.467       |
| 45  | 45.971     | 47.631      | 50.125      | 49.551      | 43.368      | 45.209       | 44.060       | 42.996       | 40.202       | 43.596       |
| 50  | 32.424     | 32.858      | 34.157      | 33.634      | 29.557      | 30.935       | 30.797       | 30.128       | 26.399       | 30.536       |
| 55  | 23.547     | 24.082      | 24.473      | 23.040      | 20.790      | 22.306       | 23.406       | 21.958       | 19.449       | 22.849       |
| 60  | 17.555     | 18.446      | 18.720      | 17.278      | 16.026      | 18.239       | 18.175       | 18.542       | 16.396       | 18.290       |
| 65  | 14.669     | 16.242      | 14.636      | 14.477      | 13.851      | 16.755       | 15.974       | 16.508       | 15.606       | 16.498       |
| 70  | 13.760     | 13.789      | 11.965      | 12.443      | 13.108      | 15.261       | 15.710       | 15.450       | 14.084       | 16.395       |
| 75  | 9.687      | 9.852       | 9.229       | 11.329      | 10.096      | 14.168       | 13.450       | 13.656       | 13.179       | 14.181       |
| 80  | 5.376      | 5.015       | 5.324       | 6.569       | 5.603       | 12.272       | 10.854       | 11.154       | 11.202       | 9.952        |
| 85  | 2.988      | 2.204       | 2.608       | 3.204       | 3.172       | 9.488        | 7.942        | 8.673        | 7.838        | 8.603        |
| 90  | 1.059      | 0.880       | 1.129       | 1.122       | 1.380       | 6.549        | 6.046        | 6.293        | 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  | 1886.218     | 1886.218     | 1886.218     | 1886.218     | 1886.218     | 1886.218     | 1886.218     |
| 5  | 1827.681     | 1837.954     | 1843.686     | 1832.810     | 1827.480     | 1819.144     | 1813.916     |
| 10 | 1659.269     | 1673.653     | 1683.449     | 1668.335     | 1661.350     | 1644.711     | 1633.209     |
| 15 | 1393.548     | 1398.999     | 1397.970     | 1391.114     | 1395.662     | 1374.208     | 1358.591     |
| 20 | 1077.528     | 1067.233     | 1061.467     | 1066.713     | 1079.203     | 1063.423     | 1047.990     |
| 25 | 809.015      | 799.311      | 751.136      | 796.772      | 816.566      | 791.937      | 733.985      |
| 30 | 604.837      | 496.949      | 337.366      | 457.114      | 609.120      | 451.268      | 370.947      |
| 35 | 306.239      | 150.147      | 114.495      | 160.335      | 363.061      | 171.139      | 133.024      |
| 40 | 83.122       | 72.783       | 69.511       | 73.158       | 129.702      | 74.051       | 69.984       |
| 45 | 45.028       | 47.835       | 44.993       | 47.230       | 52.630       | 49.613       | 45.971       |

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|     |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|
| 50  | 32.213 | 33.144 | 31.370 | 33.226 | 36.197 | 34.669 | 32.424 |
| 55  | 25.001 | 24.278 | 22.626 | 23.989 | 27.883 | 25.373 | 23.547 |
| 60  | 20.254 | 20.048 | 18.087 | 17.920 | 20.941 | 18.525 | 17.555 |
| 65  | 17.175 | 18.871 | 17.127 | 14.930 | 17.839 | 16.171 | 14.669 |
| 70  | 16.143 | 16.841 | 16.303 | 14.591 | 14.297 | 14.752 | 13.760 |
| 75  | 12.258 | 13.276 | 12.764 | 8.932  | 9.643  | 10.901 | 9.687  |
| 80  | 9.595  | 9.972  | 9.801  | 4.300  | 5.376  | 5.873  | 5.376  |
| 85  | 6.990  | 6.200  | 7.078  | 1.696  | 2.237  | 2.417  | 2.988  |
| 90  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  | 1.059  |
| 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-00618\_9 ~ C0611SQXT-13LXXK-WDEX-TCY-GLMW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 551.95  | N.A.  | 48.50  |
| 0-30    | 901.77  | N.A.  | 79.20  |
| 0-40    | 1043.43 | N.A.  | 91.60  |
| 0-60    | 1104.49 | N.A.  | 97.00  |
| 0-80    | 1132.8  | N.A.  | 99.50  |
| 0-90    | 1138.24 | N.A.  | 100.00 |
| 10-90   | 969.20  | N.A.  | 85.10  |
| 20-40   | 491.47  | N.A.  | 43.20  |
| 20-50   | 530.82  | N.A.  | 46.60  |
| 40-70   | 77.22   | N.A.  | 6.80   |
| 60-80   | 28.31   | N.A.  | 2.50   |
| 70-80   | 12.15   | N.A.  | 1.10   |
| 80-90   | 5.44    | N.A.  | 0.50   |
| 90-110  | 0.42    | N.A.  | 0.00   |
| 90-120  | 0.42    | N.A.  | 0.00   |
| 90-130  | 0.42    | N.A.  | 0.00   |
| 90-150  | 0.42    | N.A.  | 0.00   |
| 90-180  | 0.42    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1138.65 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 169.04 |
| 10-20   | 382.91 |
| 20-30   | 349.82 |
| 30-40   | 141.65 |
| 40-50   | 39.35  |
| 50-60   | 21.72  |
| 60-70   | 16.16  |
| 70-80   | 12.15  |
| 80-90   | 5.44   |
| 90-100  | 0.42   |
| 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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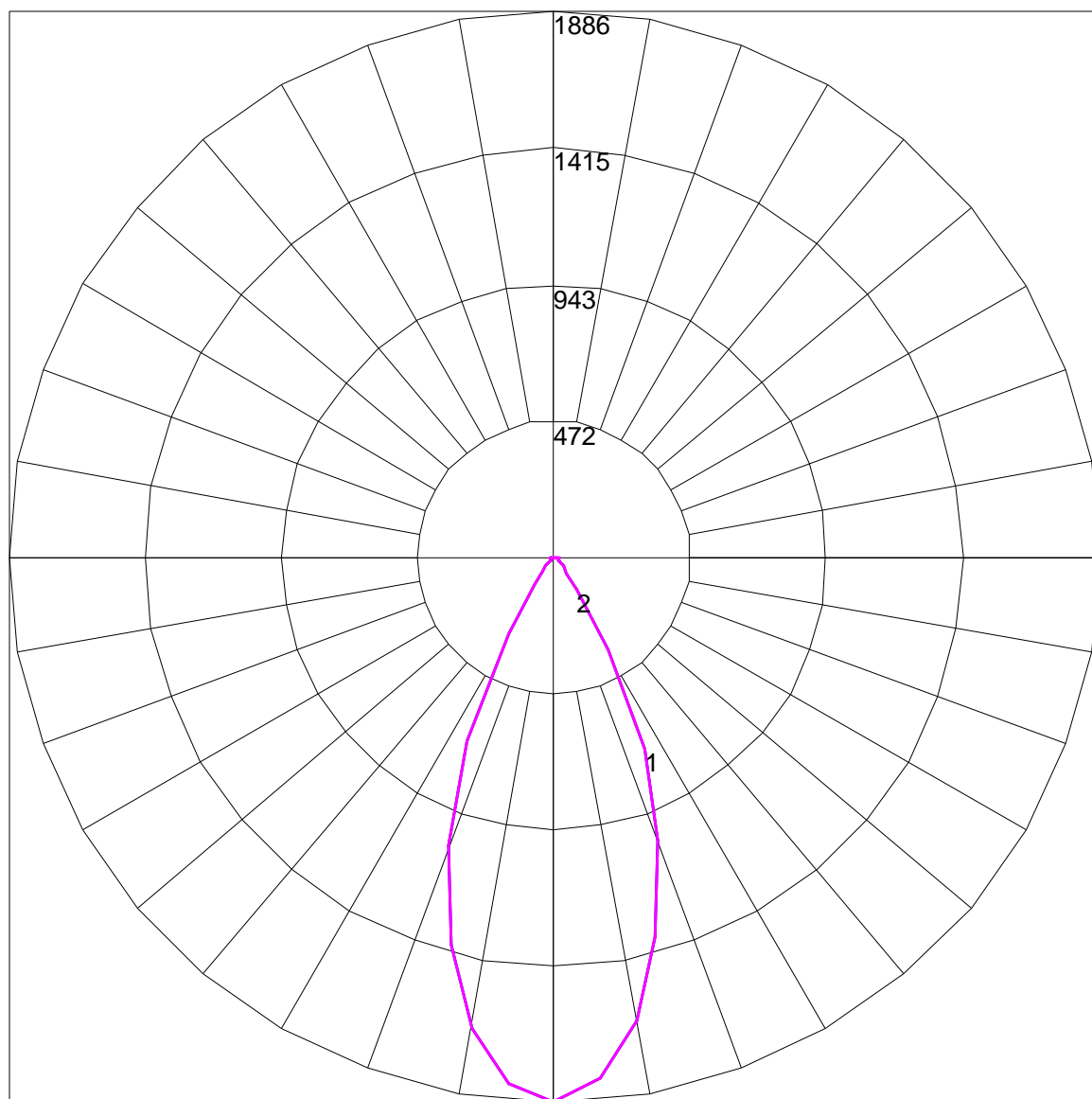
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 93  | 95  | 93  | 91  | 92  | 90  | 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  | 78  | 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 = 1886.218 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)