

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_3 ~ C0808XT-13LXXK-MDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00616\_3\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C0808XT-13L-xxK-MD-EX-TCY-SO

[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Medium Beam

[OTHER] Solite Lens, Flush with Lower Trim

[OTHER] 25.2 Degree Beam Angle

[OTHER] Aimed at 0 Degrees

[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] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1192               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 92                 |
| Total Luminaire Watts           | 13                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.42               |
| Spacing Criterion (90-270)      | 0.44               |
| Spacing Criterion (Diagonal)    | 0.46               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.44 ft (Diameter) |
| Luminous Width (90-270)         | 0.44 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00616\_3 ~ C0808XT-13LXXK-MDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 11302            | 11976             | 11898             |
| 55                  | 4276             | 4464              | 4417              |
| 65                  | 2994             | 2966              | 3037              |
| 75                  | 2960             | 3051              | 3325              |
| 85                  | 2385             | 2121              | 2612              |

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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> |
|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| <b>0</b>   | 3088.603   | 3088.603    | 3088.603    | 3088.603    | 3088.603    | 3088.603     | 3088.603     | 3088.603     | 3088.603     | 3088.603     |
| <b>5</b>   | 2718.389   | 2751.507    | 2707.423    | 2747.958    | 2728.380    | 2713.127     | 2744.980     | 2710.225     | 2752.724     | 2724.050     |
| <b>10</b>  | 1916.600   | 1966.413    | 1910.414    | 1966.104    | 1930.013    | 1905.837     | 1946.402     | 1903.967     | 1962.990     | 1920.650     |
| <b>15</b>  | 1166.254   | 1205.969    | 1170.476    | 1220.763    | 1183.474    | 1153.152     | 1182.058     | 1158.451     | 1201.811     | 1154.563     |
| <b>20</b>  | 714.068    | 733.903     | 722.054     | 759.021     | 729.531     | 699.193      | 712.884      | 710.662      | 732.120      | 689.798      |
| <b>25</b>  | 510.904    | 520.288     | 519.092     | 539.302     | 521.403     | 500.226      | 504.162      | 507.388      | 513.611      | 488.011      |
| <b>30</b>  | 411.661    | 423.749     | 421.996     | 436.870     | 424.832     | 413.869      | 417.126      | 411.939      | 412.098      | 396.542      |
| <b>35</b>  | 317.617    | 329.961     | 326.283     | 342.880     | 333.179     | 326.038      | 329.613      | 319.635      | 320.258      | 304.833      |
| <b>40</b>  | 207.477    | 218.517     | 214.621     | 225.152     | 218.107     | 214.864      | 218.139      | 206.596      | 209.490      | 200.457      |
| <b>45</b>  | 114.028    | 124.303     | 120.825     | 123.706     | 120.039     | 121.577      | 122.399      | 113.290      | 117.249      | 114.574      |
| <b>50</b>  | 59.409     | 66.433      | 64.554      | 65.726      | 63.171      | 65.550       | 65.125       | 61.548       | 63.991       | 61.536       |
| <b>55</b>  | 34.995     | 37.079      | 36.531      | 37.998      | 36.146      | 38.013       | 37.426       | 38.275       | 39.803       | 36.721       |
| <b>60</b>  | 23.757     | 23.742      | 23.978      | 25.248      | 23.862      | 25.884       | 26.951       | 27.588       | 28.834       | 26.462       |
| <b>65</b>  | 18.054     | 18.414      | 17.884      | 19.184      | 18.315      | 21.440       | 21.552       | 22.754       | 23.094       | 22.178       |
| <b>70</b>  | 14.434     | 14.834      | 13.799      | 15.534      | 14.852      | 19.058       | 19.840       | 20.454       | 19.614       | 19.917       |
| <b>75</b>  | 10.931     | 11.024      | 11.266      | 12.438      | 12.278      | 16.150       | 17.343       | 17.625       | 17.681       | 17.725       |
| <b>80</b>  | 6.794      | 7.217       | 6.909       | 7.783       | 7.894       | 13.254       | 13.465       | 14.362       | 15.006       | 14.124       |
| <b>85</b>  | 2.966      | 3.038       | 2.638       | 2.894       | 3.248       | 8.784        | 9.013        | 10.407       | 9.606        | 9.862        |
| <b>90</b>  | 0.806      | 0.626       | 0.883       | 0.750       | 0.799       | 5.211        | 4.233        | 5.688        | 4.639        | 5.420        |
| <b>95</b>  | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>105</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>115</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>125</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>135</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>145</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>155</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>165</b> | 0.000      | 0.000       | 0.000       | 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        | 0.000        | 0.000        | 0.000        |
| <b>175</b> | 0.000      | 0.000       | 0.000       | 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        | 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> |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>0</b>  | 3088.603     | 3088.603     | 3088.603     | 3088.603     | 3088.603     | 3088.603     | 3088.603     |
| <b>5</b>  | 2771.916     | 2728.182     | 2750.873     | 2755.419     | 2724.357     | 2757.973     | 2718.389     |
| <b>10</b> | 1984.098     | 1924.003     | 1949.093     | 1954.174     | 1909.124     | 1964.731     | 1916.600     |
| <b>15</b> | 1198.764     | 1158.093     | 1175.003     | 1169.903     | 1139.074     | 1195.020     | 1166.254     |
| <b>20</b> | 709.043      | 695.533      | 702.936      | 691.348      | 678.253      | 722.845      | 714.068      |
| <b>25</b> | 494.642      | 493.225      | 495.653      | 488.821      | 484.528      | 509.743      | 510.904      |
| <b>30</b> | 401.531      | 397.886      | 400.765      | 399.874      | 396.433      | 411.172      | 411.661      |
| <b>35</b> | 311.011      | 305.065      | 307.115      | 307.048      | 304.043      | 318.309      | 317.617      |
| <b>40</b> | 206.832      | 197.763      | 200.571      | 201.868      | 199.487      | 208.614      | 207.477      |
| <b>45</b> | 117.048      | 109.334      | 110.712      | 114.705      | 113.203      | 113.278      | 114.028      |

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|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| <b>50</b>  | 62.200 | 58.086 | 58.307 | 59.401 | 59.201 | 59.418 | 59.409 |
| <b>55</b>  | 36.938 | 34.960 | 35.266 | 32.735 | 33.022 | 34.667 | 34.995 |
| <b>60</b>  | 26.198 | 25.954 | 24.524 | 21.996 | 22.138 | 21.741 | 23.757 |
| <b>65</b>  | 21.486 | 21.261 | 21.205 | 16.740 | 17.341 | 18.243 | 18.054 |
| <b>70</b>  | 19.131 | 18.318 | 18.957 | 13.586 | 14.062 | 14.878 | 14.434 |
| <b>75</b>  | 16.465 | 16.711 | 15.453 | 10.062 | 10.455 | 12.240 | 10.931 |
| <b>80</b>  | 14.341 | 13.319 | 12.963 | 6.490  | 7.258  | 7.428  | 6.794  |
| <b>85</b>  | 9.753  | 9.213  | 9.174  | 2.590  | 2.656  | 2.345  | 2.966  |
| <b>90</b>  | 4.547  | 5.264  | 4.657  | 0.798  | 0.707  | 0.628  | 0.806  |
| <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-00616\_3 ~ C0808XT-13LXXK-MDEX-TCY-SOXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 577.43  | N.A.  | 48.50  |
| 0-30    | 821.25  | N.A.  | 68.90  |
| 0-40    | 1016.88 | N.A.  | 85.30  |
| 0-60    | 1148.99 | N.A.  | 96.40  |
| 0-80    | 1183.96 | N.A.  | 99.30  |
| 0-90    | 1190.95 | N.A.  | 99.90  |
| 10-90   | 954.07  | N.A.  | 80.10  |
| 20-40   | 439.45  | N.A.  | 36.90  |
| 20-50   | 536.01  | N.A.  | 45.00  |
| 40-70   | 152.36  | N.A.  | 12.80  |
| 60-80   | 34.97   | N.A.  | 2.90   |
| 70-80   | 14.72   | N.A.  | 1.20   |
| 80-90   | 6.99    | N.A.  | 0.60   |
| 90-110  | 0.78    | N.A.  | 0.10   |
| 90-120  | 0.78    | N.A.  | 0.10   |
| 90-130  | 0.78    | N.A.  | 0.10   |
| 90-150  | 0.78    | N.A.  | 0.10   |
| 90-180  | 0.78    | N.A.  | 0.10   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1191.73 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 236.88 |
| 10-20   | 340.55 |
| 20-30   | 243.81 |
| 30-40   | 195.64 |
| 40-50   | 96.56  |
| 50-60   | 35.54  |
| 60-70   | 20.25  |
| 70-80   | 14.72  |
| 80-90   | 6.99   |
| 90-100  | 0.78   |
| 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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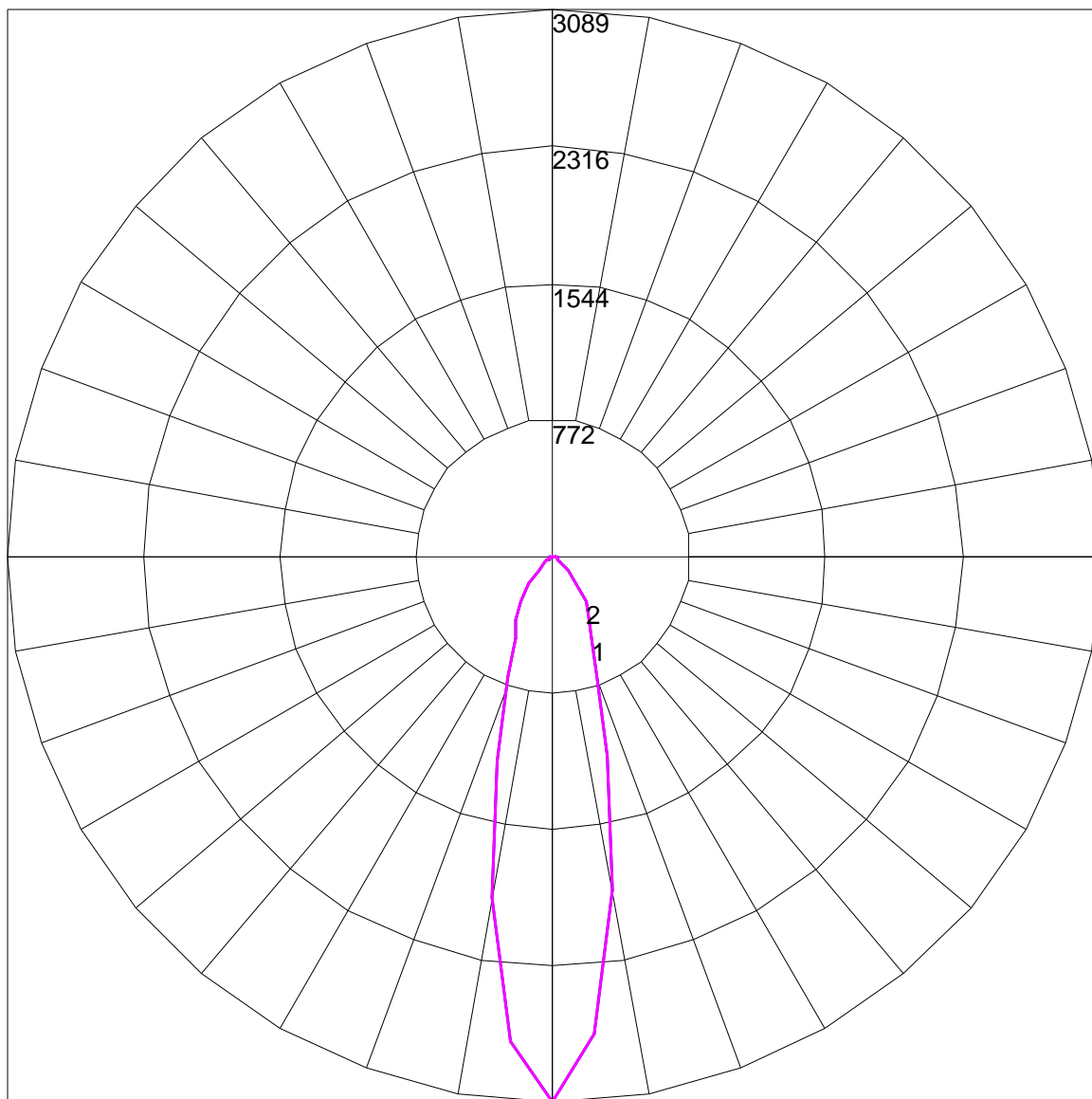
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  | 93  |
| 2  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3  | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |
| 4  | 97  | 90  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 77  | 75  |
| 5  | 93  | 84  | 79  | 74  | 91  | 83  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 70  |
| 6  | 88  | 80  | 74  | 70  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  |
| 7  | 84  | 75  | 70  | 65  | 83  | 75  | 69  | 65  | 73  | 69  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 63  |
| 8  | 81  | 72  | 66  | 62  | 80  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 60  |
| 9  | 77  | 68  | 63  | 59  | 76  | 68  | 62  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 57  |
| 10 | 74  | 65  | 60  | 56  | 73  | 65  | 59  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 62  | 58  | 55  | 54  |

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POLAR GRAPH



Maximum Candela = 3088.603 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)