

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_4 ~ C1216XT-10LXXK-MDEX-TCY-SOXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629\_4\_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-10L-xxK-MD-EX-TCY-SO

[LUMINAIRE] Nom. 12" Diam. x 16" 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 (Nadir)

[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                | 885                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 97                 |
| Total Luminaire Watts           | 9.1                |
| 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-00629\_4 ~ C1216XT-10LXXK-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                  | 8388             | 8889              | 8831              |
| 55                  | 3174             | 3313              | 3278              |
| 65                  | 2222             | 2201              | 2254              |
| 75                  | 2197             | 2264              | 2468              |
| 85                  | 1771             | 1575              | 1939              |

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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>   | 2292.395   | 2292.395    | 2292.395    | 2292.395    | 2292.395    | 2292.395     | 2292.395     | 2292.395     | 2292.395     | 2292.395     |
| <b>5</b>   | 2017.618   | 2042.199    | 2009.479    | 2039.565    | 2025.033    | 2013.712     | 2037.354     | 2011.559     | 2043.102     | 2021.820     |
| <b>10</b>  | 1422.521   | 1459.493    | 1417.930    | 1459.264    | 1432.477    | 1414.533     | 1444.641     | 1413.145     | 1456.953     | 1425.528     |
| <b>15</b>  | 865.606    | 895.084     | 868.740     | 906.064     | 878.388     | 855.882      | 877.336      | 859.815      | 891.997      | 856.929      |
| <b>20</b>  | 529.989    | 544.711     | 535.916     | 563.354     | 541.466     | 518.949      | 529.110      | 527.461      | 543.388      | 511.976      |
| <b>25</b>  | 379.199    | 386.163     | 385.276     | 400.276     | 386.991     | 371.273      | 374.194      | 376.589      | 381.208      | 362.207      |
| <b>30</b>  | 305.539    | 314.511     | 313.210     | 324.250     | 315.315     | 307.178      | 309.595      | 305.746      | 305.863      | 294.318      |
| <b>35</b>  | 235.739    | 244.901     | 242.171     | 254.489     | 247.289     | 241.989      | 244.642      | 237.237      | 237.699      | 226.250      |
| <b>40</b>  | 153.991    | 162.186     | 159.294     | 167.110     | 161.881     | 159.475      | 161.905      | 153.338      | 155.486      | 148.781      |
| <b>45</b>  | 84.633     | 92.259      | 89.678      | 91.816      | 89.094      | 90.235       | 90.846       | 84.085       | 87.023       | 85.038       |
| <b>50</b>  | 44.094     | 49.307      | 47.913      | 48.783      | 46.886      | 48.652       | 48.337       | 45.681       | 47.495       | 45.672       |
| <b>55</b>  | 25.973     | 27.520      | 27.114      | 28.202      | 26.828      | 28.214       | 27.778       | 28.408       | 29.542       | 27.255       |
| <b>60</b>  | 17.633     | 17.621      | 17.797      | 18.740      | 17.711      | 19.211       | 20.003       | 20.476       | 21.401       | 19.640       |
| <b>65</b>  | 13.400     | 13.667      | 13.274      | 14.239      | 13.594      | 15.913       | 15.996       | 16.889       | 17.141       | 16.460       |
| <b>70</b>  | 10.713     | 11.010      | 10.242      | 11.530      | 11.023      | 14.145       | 14.725       | 15.181       | 14.558       | 14.783       |
| <b>75</b>  | 8.113      | 8.182       | 8.362       | 9.232       | 9.113       | 11.986       | 12.872       | 13.082       | 13.123       | 13.155       |
| <b>80</b>  | 5.042      | 5.357       | 5.128       | 5.777       | 5.859       | 9.837        | 9.994        | 10.660       | 11.138       | 10.483       |
| <b>85</b>  | 2.202      | 2.255       | 1.958       | 2.148       | 2.411       | 6.520        | 6.689        | 7.724        | 7.130        | 7.320        |
| <b>90</b>  | 0.598      | 0.465       | 0.655       | 0.557       | 0.593       | 3.868        | 3.142        | 4.222        | 3.443        | 4.023        |
| <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>  | 2292.395     | 2292.395     | 2292.395     | 2292.395     | 2292.395     | 2292.395     | 2292.395     |
| <b>5</b>  | 2057.346     | 2024.887     | 2041.728     | 2045.102     | 2022.047     | 2046.998     | 2017.618     |
| <b>10</b> | 1472.619     | 1428.016     | 1446.638     | 1450.410     | 1416.973     | 1458.245     | 1422.521     |
| <b>15</b> | 889.736      | 859.549      | 872.100      | 868.315      | 845.433      | 886.957      | 865.606      |
| <b>20</b> | 526.259      | 516.232      | 521.727      | 513.126      | 503.407      | 536.503      | 529.989      |
| <b>25</b> | 367.129      | 366.077      | 367.879      | 362.809      | 359.622      | 378.337      | 379.199      |
| <b>30</b> | 298.021      | 295.316      | 297.452      | 296.791      | 294.237      | 305.176      | 305.539      |
| <b>35</b> | 230.836      | 226.422      | 227.944      | 227.894      | 225.664      | 236.252      | 235.739      |
| <b>40</b> | 153.513      | 146.782      | 148.866      | 149.829      | 148.062      | 154.836      | 153.991      |
| <b>45</b> | 86.874       | 81.149       | 82.172       | 85.136       | 84.021       | 84.076       | 84.633       |

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|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| <b>50</b>  | 46.166 | 43.112 | 43.276 | 44.088 | 43.940 | 44.100 | 44.094 |
| <b>55</b>  | 27.416 | 25.948 | 26.175 | 24.296 | 24.509 | 25.730 | 25.973 |
| <b>60</b>  | 19.444 | 19.263 | 18.202 | 16.325 | 16.431 | 16.136 | 17.633 |
| <b>65</b>  | 15.948 | 15.780 | 15.738 | 12.425 | 12.870 | 13.540 | 13.400 |
| <b>70</b>  | 14.200 | 13.596 | 14.070 | 10.084 | 10.437 | 11.042 | 10.713 |
| <b>75</b>  | 12.220 | 12.403 | 11.469 | 7.468  | 7.760  | 9.085  | 8.113  |
| <b>80</b>  | 10.644 | 9.885  | 9.621  | 4.817  | 5.387  | 5.514  | 5.042  |
| <b>85</b>  | 7.239  | 6.838  | 6.809  | 1.922  | 1.971  | 1.740  | 2.202  |
| <b>90</b>  | 3.375  | 3.907  | 3.457  | 0.592  | 0.525  | 0.466  | 0.598  |
| <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-00629\_4 ~ C1216XT-10LXXK-MDEX-TCY-SOXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 428.58 | N.A.  | 48.50  |
| 0-30    | 609.54 | N.A.  | 68.90  |
| 0-40    | 754.74 | N.A.  | 85.30  |
| 0-60    | 852.79 | N.A.  | 96.40  |
| 0-80    | 878.75 | N.A.  | 99.30  |
| 0-90    | 883.94 | N.A.  | 99.90  |
| 10-90   | 708.12 | N.A.  | 80.10  |
| 20-40   | 326.16 | N.A.  | 36.90  |
| 20-50   | 397.83 | N.A.  | 45.00  |
| 40-70   | 113.08 | N.A.  | 12.80  |
| 60-80   | 25.96  | N.A.  | 2.90   |
| 70-80   | 10.92  | N.A.  | 1.20   |
| 80-90   | 5.19   | N.A.  | 0.60   |
| 90-110  | 0.58   | N.A.  | 0.10   |
| 90-120  | 0.58   | N.A.  | 0.10   |
| 90-130  | 0.58   | N.A.  | 0.10   |
| 90-150  | 0.58   | N.A.  | 0.10   |
| 90-180  | 0.58   | N.A.  | 0.10   |
| 110-180 | 0.00   | N.A.  | 0.00   |
| 0-180   | 884.52 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 175.82 |
| 10-20   | 252.76 |
| 20-30   | 180.96 |
| 30-40   | 145.20 |
| 40-50   | 71.67  |
| 50-60   | 26.38  |
| 60-70   | 15.03  |
| 70-80   | 10.92  |
| 80-90   | 5.19   |
| 90-100  | 0.58   |
| 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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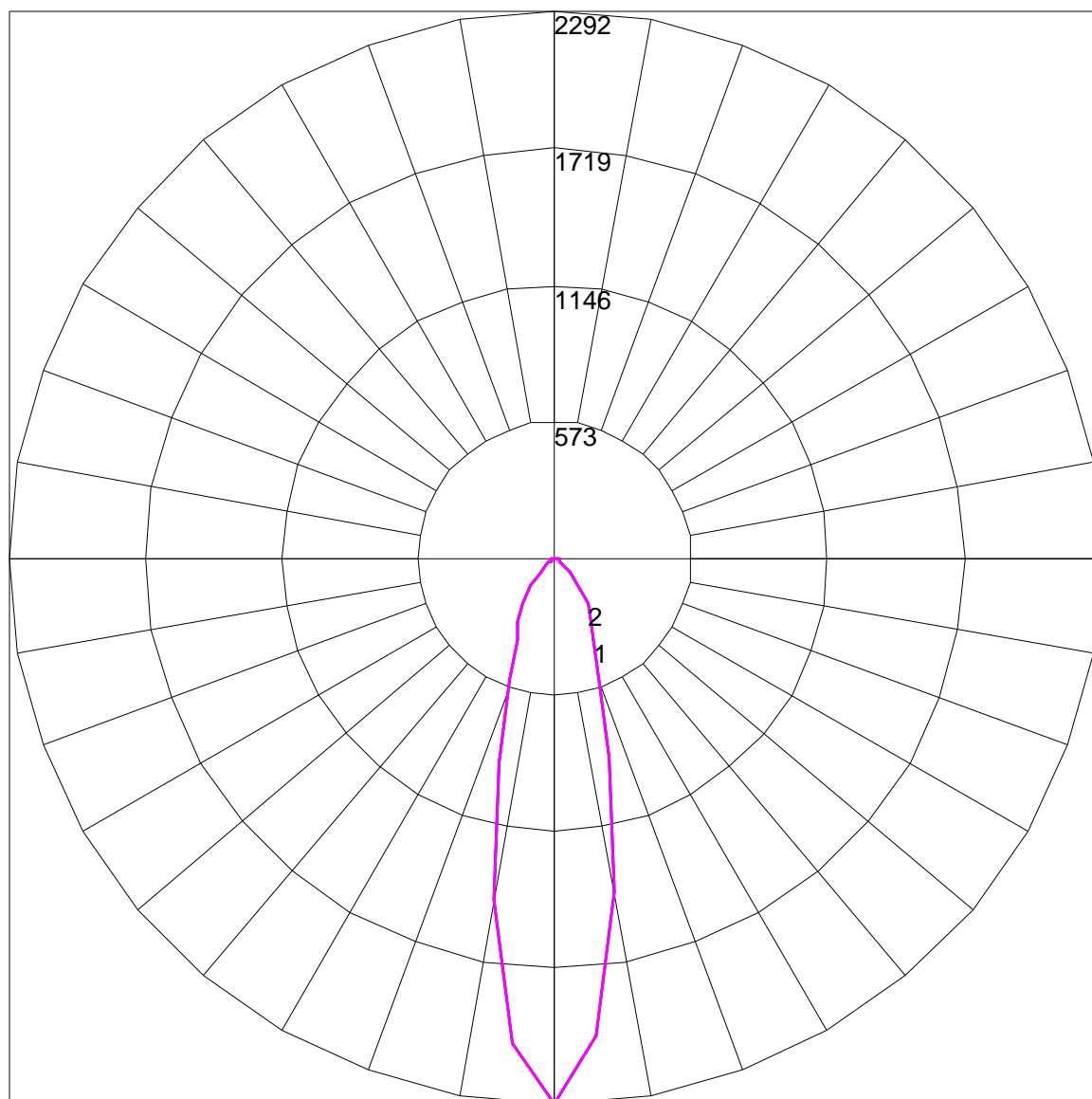
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 94  | 93  |
| 2  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3  | 102 | 96  | 91  | 86  | 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  | 80  | 77  | 82  | 79  | 77  | 75  |
| 5  | 93  | 84  | 78  | 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  | 68  | 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 = 2292.395 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)