

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_10 ~ C0808XT-10LXXK-WDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_10_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-10L-xxK-WD-EX-TCY-NL
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Wide Beam
[OTHER] No Lens
[OTHER] 38.0 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 | 919 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 101 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.64 |
| Spacing Criterion (90-270) | 0.64 |
| Spacing Criterion (Diagonal) | 0.66 |
| 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_10 ~ C0808XT-10LXXK-WDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6902 | 8154 | 7674 |
| 55 | 1255 | 1331 | 1267 |
| 65 | 1398 | 1453 | 1563 |
| 75 | 1712 | 1838 | 1869 |
| 85 | 3323 | 2814 | 3061 |

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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 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 |
| 5 | 1486.349 | 1506.064 | 1498.172 | 1500.025 | 1474.405 | 1438.336 | 1440.978 | 1405.597 | 1407.643 | 1379.176 |
| 10 | 1290.447 | 1323.817 | 1307.258 | 1314.939 | 1271.040 | 1216.112 | 1212.131 | 1166.831 | 1164.915 | 1127.688 |
| 15 | 1031.543 | 1071.089 | 1051.352 | 1061.998 | 1015.707 | 960.724 | 955.810 | 911.698 | 906.167 | 873.446 |
| 20 | 764.003 | 803.843 | 788.993 | 804.960 | 767.950 | 722.819 | 720.140 | 680.038 | 675.130 | 643.117 |
| 25 | 539.418 | 571.754 | 562.815 | 582.455 | 556.159 | 522.037 | 520.629 | 487.914 | 484.523 | 459.951 |
| 30 | 395.897 | 414.186 | 411.740 | 423.960 | 408.757 | 386.668 | 383.203 | 366.803 | 362.697 | 351.083 |
| 35 | 319.722 | 327.352 | 331.269 | 334.949 | 327.228 | 311.124 | 302.691 | 292.813 | 283.006 | 272.165 |
| 40 | 210.568 | 235.621 | 234.691 | 241.623 | 220.755 | 190.611 | 194.114 | 158.932 | 160.344 | 129.850 |
| 45 | 69.637 | 94.377 | 82.266 | 101.736 | 77.421 | 58.877 | 57.098 | 42.789 | 39.375 | 32.020 |
| 50 | 15.145 | 15.123 | 18.454 | 17.866 | 16.578 | 13.580 | 12.669 | 11.631 | 12.305 | 11.763 |
| 55 | 10.267 | 10.076 | 10.893 | 10.754 | 10.369 | 11.331 | 11.854 | 11.385 | 11.646 | 10.866 |
| 60 | 9.659 | 9.056 | 9.527 | 9.844 | 9.932 | 11.036 | 11.437 | 11.666 | 11.311 | 10.938 |
| 65 | 8.430 | 8.572 | 8.764 | 8.420 | 9.425 | 10.878 | 10.890 | 11.464 | 11.349 | 11.034 |
| 70 | 6.502 | 7.635 | 7.803 | 7.373 | 7.890 | 11.105 | 10.789 | 10.742 | 10.749 | 9.833 |
| 75 | 6.322 | 6.442 | 6.787 | 7.256 | 6.901 | 10.678 | 10.969 | 10.390 | 10.890 | 10.630 |
| 80 | 5.376 | 6.286 | 5.677 | 5.705 | 6.095 | 10.265 | 10.417 | 10.752 | 11.835 | 10.951 |
| 85 | 4.132 | 3.842 | 3.500 | 4.423 | 3.807 | 8.811 | 9.019 | 8.128 | 8.674 | 8.151 |
| 90 | 0.689 | 0.351 | 0.766 | 0.379 | 0.933 | 5.305 | 3.228 | 4.983 | 3.069 | 5.644 |
| 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. 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 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 | 1534.220 |
| 5 | 1393.239 | 1375.842 | 1409.718 | 1449.040 | 1454.793 | 1480.526 | 1486.349 |
| 10 | 1142.540 | 1124.367 | 1167.847 | 1227.276 | 1235.137 | 1282.161 | 1290.447 |
| 15 | 880.306 | 867.207 | 905.132 | 963.158 | 970.957 | 1022.282 | 1031.543 |
| 20 | 652.776 | 634.445 | 666.471 | 712.971 | 714.014 | 758.381 | 764.003 |
| 25 | 463.168 | 452.322 | 472.831 | 505.344 | 504.909 | 536.246 | 539.418 |
| 30 | 350.200 | 346.371 | 356.010 | 374.164 | 374.908 | 393.041 | 395.897 |
| 35 | 270.904 | 264.261 | 276.207 | 295.531 | 304.790 | 311.781 | 319.722 |
| 40 | 141.548 | 124.477 | 151.318 | 180.225 | 179.143 | 208.482 | 210.568 |
| 45 | 27.787 | 30.253 | 35.544 | 51.053 | 49.198 | 71.045 | 69.637 |

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| | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|
| 50 | 12.192 | 11.570 | 11.957 | 10.912 | 12.967 | 11.993 | 15.145 |
| 55 | 10.863 | 10.744 | 11.176 | 10.125 | 10.225 | 9.503 | 10.267 |
| 60 | 10.667 | 10.561 | 10.440 | 8.915 | 8.909 | 9.685 | 9.659 |
| 65 | 10.477 | 9.900 | 9.756 | 7.437 | 7.810 | 8.921 | 8.430 |
| 70 | 10.065 | 9.355 | 9.857 | 6.454 | 6.717 | 7.035 | 6.502 |
| 75 | 10.334 | 10.248 | 10.106 | 6.092 | 5.766 | 6.813 | 6.322 |
| 80 | 10.641 | 10.743 | 10.466 | 5.182 | 5.750 | 4.780 | 5.376 |
| 85 | 7.772 | 8.764 | 8.325 | 3.053 | 3.034 | 3.741 | 4.132 |
| 90 | 3.581 | 5.778 | 6.737 | 0.326 | 0.510 | 0.367 | 0.689 |
| 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-00616_10 ~ C0808XT-10LXXK-WDEX-TCY-NLXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 399.72 | N.A. | 43.50 |
| 0-30 | 642.35 | N.A. | 69.90 |
| 0-40 | 824.11 | N.A. | 89.70 |
| 0-60 | 893.54 | N.A. | 97.20 |
| 0-80 | 911.99 | N.A. | 99.20 |
| 0-90 | 918.26 | N.A. | 99.90 |
| 10-90 | 787.25 | N.A. | 85.70 |
| 20-40 | 424.39 | N.A. | 46.20 |
| 20-50 | 483.69 | N.A. | 52.60 |
| 40-70 | 78.89 | N.A. | 8.60 |
| 60-80 | 18.45 | N.A. | 2.00 |
| 70-80 | 8.99 | N.A. | 1.00 |
| 80-90 | 6.27 | N.A. | 0.70 |
| 90-110 | 0.73 | N.A. | 0.10 |
| 90-120 | 0.73 | N.A. | 0.10 |
| 90-130 | 0.73 | N.A. | 0.10 |
| 90-150 | 0.73 | N.A. | 0.10 |
| 90-180 | 0.73 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 918.99 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 131.01 |
| 10-20 | 268.71 |
| 20-30 | 242.63 |
| 30-40 | 181.76 |
| 40-50 | 59.29 |
| 50-60 | 10.13 |
| 60-70 | 9.46 |
| 70-80 | 8.99 |
| 80-90 | 6.27 |
| 90-100 | 0.73 |
| 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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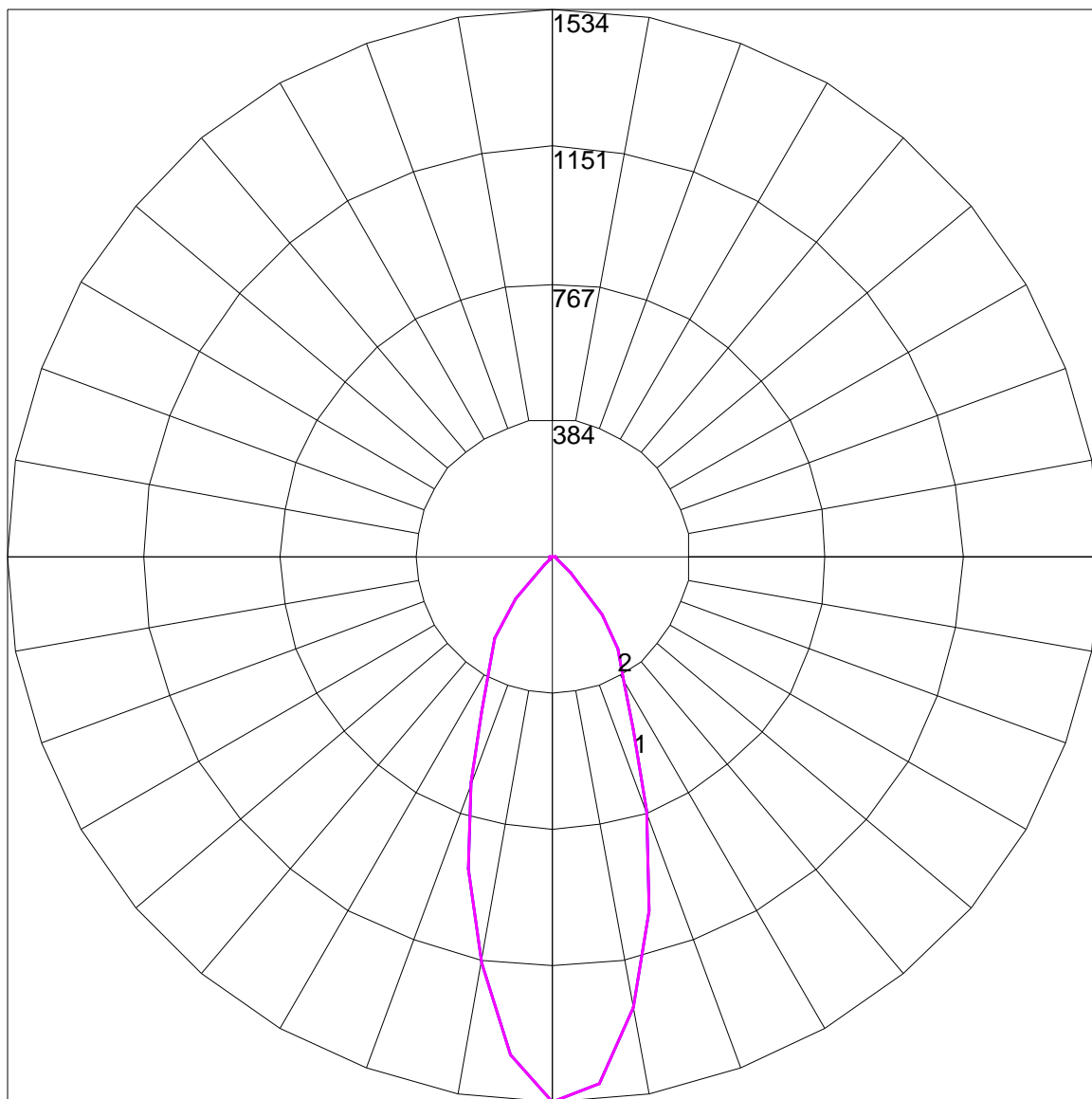
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 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 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 72 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 |
| 7 | 84 | 75 | 69 | 65 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 64 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 57 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |

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POLAR GRAPH



Maximum Candela = 1534.22 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)