

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_5 ~ C0205XT-13LXXK-WDEX-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00640_5
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 2/6/2018
[UPDATE] 2/7/2018
[LUMCAT] C0205XT-13L-xxK-WD-EX-SO-xx-MW
[LUMINAIRE] Nom. 2.5" Diam x 5" H. LED Cylinder XT Series, Wide Beam
[OTHER] Matte White finish
[OTHER] Solite Lens
[OTHER] 48.5 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 | 926 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 71 |
| Total Luminaire Watts | 13 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.76 |
| Spacing Criterion (90-270) | 0.76 |
| Spacing Criterion (Diagonal) | 0.78 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.20 ft (Diameter) |
| Luminous Width (90-270) | 0.20 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00640_5 ~ C0205XT-13LXXK-WDEX-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 37257 | 32829 | 32909 |
| 55 | 13826 | 11429 | 11911 |
| 65 | 10187 | 7942 | 8140 |
| 75 | 5806 | 4870 | 5974 |
| 85 | 6975 | 4717 | 5444 |

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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 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 |
| 5 | 1235.359 | 1232.934 | 1237.223 | 1230.705 | 1230.424 | 1232.328 | 1231.102 | 1227.253 | 1234.173 | 1234.061 |
| 10 | 1135.789 | 1136.156 | 1139.471 | 1132.707 | 1130.188 | 1128.643 | 1125.140 | 1125.896 | 1137.141 | 1139.567 |
| 15 | 978.245 | 982.861 | 985.406 | 977.302 | 974.016 | 968.688 | 968.683 | 972.745 | 983.181 | 987.893 |
| 20 | 793.414 | 798.167 | 797.127 | 791.405 | 787.192 | 782.932 | 779.772 | 787.994 | 798.848 | 800.307 |
| 25 | 604.186 | 607.074 | 605.995 | 601.246 | 594.027 | 584.809 | 587.029 | 593.107 | 602.591 | 606.962 |
| 30 | 420.646 | 424.143 | 421.198 | 417.417 | 410.069 | 401.962 | 399.771 | 409.987 | 418.205 | 424.195 |
| 35 | 264.777 | 268.044 | 262.257 | 258.613 | 255.678 | 249.674 | 246.105 | 259.180 | 262.360 | 265.717 |
| 40 | 151.020 | 150.221 | 143.825 | 140.771 | 142.252 | 140.575 | 138.495 | 148.934 | 148.903 | 149.989 |
| 45 | 76.963 | 75.415 | 67.815 | 67.215 | 67.980 | 68.961 | 71.455 | 75.667 | 72.949 | 73.858 |
| 50 | 39.673 | 38.770 | 32.124 | 30.708 | 32.789 | 34.467 | 35.842 | 38.145 | 38.419 | 37.121 |
| 55 | 23.167 | 22.875 | 19.150 | 17.194 | 19.959 | 20.564 | 21.351 | 22.125 | 22.978 | 22.282 |
| 60 | 15.981 | 16.368 | 13.509 | 12.691 | 14.228 | 14.579 | 14.874 | 15.782 | 15.930 | 15.863 |
| 65 | 12.577 | 11.658 | 9.806 | 9.579 | 10.050 | 10.846 | 9.766 | 11.824 | 12.137 | 12.878 |
| 70 | 7.637 | 7.114 | 7.267 | 7.066 | 7.326 | 7.741 | 8.148 | 7.523 | 7.703 | 8.029 |
| 75 | 4.390 | 4.208 | 3.682 | 3.841 | 4.517 | 4.288 | 4.840 | 4.216 | 5.145 | 4.710 |
| 80 | 2.213 | 2.101 | 1.501 | 1.824 | 2.388 | 1.624 | 2.118 | 2.781 | 1.428 | 2.590 |
| 85 | 1.776 | 1.201 | 1.201 | 1.879 | 1.386 | 1.526 | 1.429 | 1.730 | 2.267 | 1.786 |
| 90 | 1.704 | 1.810 | 1.654 | 1.520 | 1.227 | 0.000 | 0.000 | 0.000 | 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 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 | 1265.454 |
| 5 | 1239.018 | 1232.400 | 1230.363 | 1230.136 | 1231.787 | 1226.342 | 1235.359 |
| 10 | 1143.483 | 1135.013 | 1131.679 | 1127.628 | 1126.473 | 1123.293 | 1135.789 |
| 15 | 988.234 | 980.233 | 973.807 | 969.372 | 965.591 | 967.646 | 978.245 |
| 20 | 800.746 | 794.393 | 787.188 | 780.904 | 777.510 | 783.932 | 793.414 |
| 25 | 604.750 | 600.604 | 593.105 | 587.121 | 587.538 | 594.052 | 604.186 |
| 30 | 420.330 | 415.932 | 409.763 | 404.680 | 402.393 | 412.342 | 420.646 |
| 35 | 258.928 | 256.768 | 253.010 | 252.794 | 251.437 | 260.428 | 264.777 |
| 40 | 140.532 | 142.998 | 144.299 | 144.660 | 143.916 | 148.857 | 151.020 |
| 45 | 68.032 | 70.686 | 72.602 | 74.968 | 71.689 | 77.980 | 76.963 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|
| 50 | 32.472 | 34.705 | 37.277 | 38.826 | 38.229 | 39.558 | 39.673 |
| 55 | 18.559 | 21.011 | 22.008 | 24.037 | 22.690 | 23.176 | 23.167 |
| 60 | 13.462 | 15.135 | 16.129 | 16.653 | 14.732 | 15.414 | 15.981 |
| 65 | 11.987 | 10.512 | 11.542 | 12.695 | 10.572 | 11.394 | 12.577 |
| 70 | 8.620 | 9.458 | 8.561 | 9.537 | 8.078 | 8.123 | 7.637 |
| 75 | 4.907 | 5.602 | 5.417 | 5.806 | 5.205 | 5.056 | 4.390 |
| 80 | 2.675 | 2.374 | 2.543 | 3.037 | 2.633 | 2.141 | 2.213 |
| 85 | 1.764 | 1.602 | 1.338 | 1.858 | 1.672 | 1.884 | 1.776 |
| 90 | 0.000 | 0.000 | 0.000 | 1.505 | 1.460 | 1.636 | 1.704 |
| 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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 385.14 | N.A. | 41.60 |
| 0-30 | 658.51 | N.A. | 71.10 |
| 0-40 | 824.56 | N.A. | 89.00 |
| 0-60 | 907.64 | N.A. | 98.00 |
| 0-80 | 924.11 | N.A. | 99.80 |
| 0-90 | 925.83 | N.A. | 100.00 |
| 10-90 | 811.38 | N.A. | 87.60 |
| 20-40 | 439.42 | N.A. | 47.50 |
| 20-50 | 501.52 | N.A. | 54.20 |
| 40-70 | 94.34 | N.A. | 10.20 |
| 60-80 | 16.47 | N.A. | 1.80 |
| 70-80 | 5.20 | N.A. | 0.60 |
| 80-90 | 1.72 | N.A. | 0.20 |
| 90-110 | 0.21 | N.A. | 0.00 |
| 90-120 | 0.21 | N.A. | 0.00 |
| 90-130 | 0.21 | N.A. | 0.00 |
| 90-150 | 0.21 | N.A. | 0.00 |
| 90-180 | 0.21 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 926.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 114.45 |
| 10-20 | 270.69 |
| 20-30 | 273.37 |
| 30-40 | 166.05 |
| 40-50 | 62.10 |
| 50-60 | 20.98 |
| 60-70 | 11.27 |
| 70-80 | 5.20 |
| 80-90 | 1.72 |
| 90-100 | 0.21 |
| 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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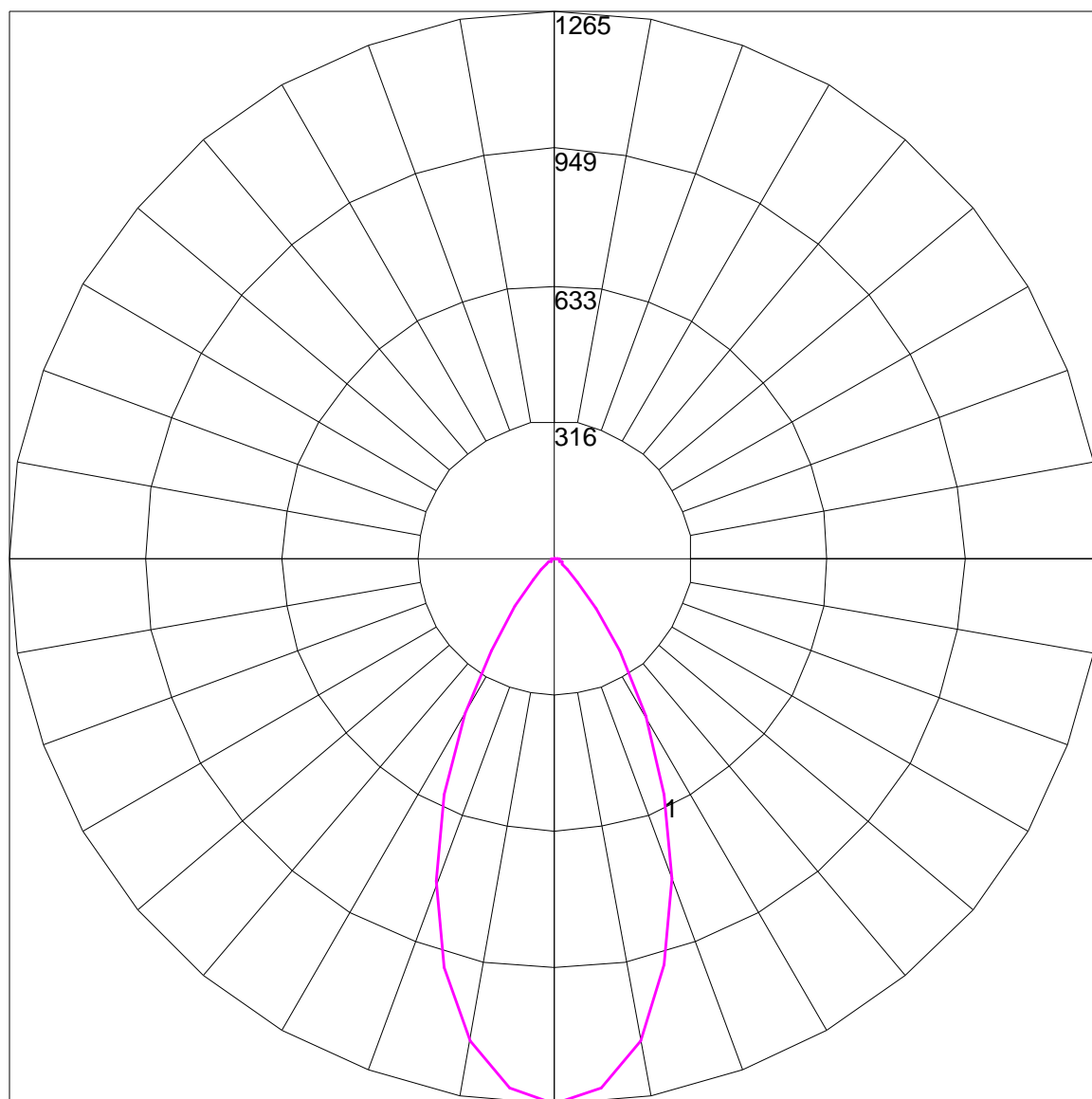
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 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 | 79 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 |
| 5 | 92 | 84 | 78 | 74 | 90 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 88 | 79 | 73 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 56 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |

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POLAR GRAPH



Maximum Candela = 1265.454 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)