

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_7 ~ C0808XT-13LXXK-NDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_7_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-13L-xxK-ND-EX-TCY-SO
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Narrow Beam
[OTHER] Solite Lens, Flush with Lower Trim
[OTHER] 25.1 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

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1160 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 89 |
| Total Luminaire Watts | 13 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.42 |
| Spacing Criterion (90-270) | 0.42 |
| Spacing Criterion (Diagonal) | 0.48 |
| 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_7 ~ C0808XT-13LXXK-NDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 16008 | 16102 | 16416 |
| 55 | 7196 | 7121 | 7509 |
| 65 | 4177 | 4262 | 4512 |
| 75 | 3466 | 3686 | 3523 |
| 85 | 2203 | 2502 | 2710 |

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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 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 |
| 5 | 2182.771 | 2238.871 | 2188.784 | 2232.795 | 2204.370 | 2200.322 | 2225.645 | 2182.536 | 2238.651 | 2195.999 |
| 10 | 1534.645 | 1579.604 | 1516.613 | 1576.919 | 1528.630 | 1510.186 | 1566.262 | 1517.160 | 1584.767 | 1525.847 |
| 15 | 969.238 | 982.270 | 952.572 | 987.171 | 955.489 | 932.112 | 964.132 | 954.886 | 981.009 | 939.739 |
| 20 | 645.502 | 638.507 | 637.304 | 655.180 | 636.113 | 615.713 | 627.603 | 638.911 | 639.140 | 613.708 |
| 25 | 504.504 | 499.416 | 502.392 | 508.398 | 499.688 | 488.254 | 490.018 | 497.995 | 492.567 | 481.288 |
| 30 | 432.285 | 438.024 | 435.784 | 440.213 | 432.871 | 428.435 | 428.628 | 424.372 | 421.249 | 412.538 |
| 35 | 350.872 | 362.704 | 356.211 | 365.631 | 354.249 | 350.182 | 352.694 | 339.818 | 342.168 | 330.339 |
| 40 | 252.693 | 261.321 | 254.640 | 262.788 | 256.699 | 254.572 | 251.546 | 239.749 | 245.249 | 238.437 |
| 45 | 161.505 | 166.998 | 162.461 | 166.466 | 165.621 | 166.545 | 164.338 | 157.138 | 159.418 | 155.200 |
| 50 | 97.840 | 97.115 | 96.847 | 101.448 | 100.708 | 100.414 | 99.725 | 99.737 | 101.872 | 96.089 |
| 55 | 58.892 | 58.975 | 58.275 | 60.223 | 61.450 | 60.740 | 61.665 | 61.603 | 63.516 | 61.565 |
| 60 | 37.513 | 37.530 | 37.765 | 36.797 | 39.407 | 42.123 | 41.171 | 41.393 | 42.357 | 41.443 |
| 65 | 25.186 | 26.516 | 25.700 | 25.696 | 27.210 | 31.302 | 30.792 | 30.150 | 29.566 | 31.351 |
| 70 | 19.001 | 18.983 | 18.733 | 19.505 | 18.907 | 23.824 | 25.259 | 23.136 | 24.029 | 24.002 |
| 75 | 12.798 | 13.469 | 13.612 | 13.525 | 13.010 | 18.146 | 19.743 | 17.686 | 18.793 | 18.230 |
| 80 | 8.111 | 8.013 | 8.026 | 8.658 | 8.966 | 15.438 | 15.123 | 14.539 | 14.574 | 14.094 |
| 85 | 2.740 | 2.815 | 3.112 | 2.689 | 3.370 | 9.085 | 9.193 | 8.766 | 8.914 | 9.379 |
| 90 | 0.694 | 0.602 | 0.918 | 1.038 | 1.203 | 4.702 | 4.233 | 4.694 | 3.802 | 5.620 |
| 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 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 | 2526.154 |
| 5 | 2274.489 | 2206.396 | 2255.925 | 2257.068 | 2189.845 | 2253.244 | 2182.771 |
| 10 | 1591.651 | 1537.935 | 1565.606 | 1564.596 | 1532.228 | 1590.082 | 1534.645 |
| 15 | 962.806 | 952.727 | 950.719 | 944.552 | 950.292 | 984.077 | 969.238 |
| 20 | 617.071 | 626.288 | 617.757 | 609.939 | 625.935 | 641.236 | 645.502 |
| 25 | 483.360 | 490.530 | 487.041 | 481.931 | 491.202 | 501.417 | 504.504 |
| 30 | 419.429 | 415.597 | 419.067 | 422.072 | 421.803 | 432.543 | 432.285 |
| 35 | 339.103 | 333.857 | 339.176 | 342.222 | 342.304 | 355.319 | 350.872 |
| 40 | 244.428 | 237.864 | 245.690 | 249.889 | 247.801 | 256.662 | 252.693 |
| 45 | 158.776 | 154.172 | 158.330 | 161.757 | 160.740 | 162.724 | 161.505 |

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| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 50 | 98.113 | 98.898 | 97.360 | 96.947 | 97.225 | 98.330 | 97.840 |
| 55 | 64.222 | 62.459 | 62.917 | 57.817 | 59.265 | 60.674 | 58.892 |
| 60 | 42.929 | 42.052 | 42.087 | 38.876 | 38.521 | 39.108 | 37.513 |
| 65 | 30.737 | 30.385 | 29.597 | 27.401 | 26.205 | 26.461 | 25.186 |
| 70 | 23.738 | 22.513 | 22.525 | 19.650 | 18.516 | 18.710 | 19.001 |
| 75 | 19.038 | 17.681 | 17.721 | 11.278 | 13.907 | 12.898 | 12.798 |
| 80 | 13.968 | 13.989 | 13.228 | 7.950 | 8.055 | 7.810 | 8.111 |
| 85 | 8.992 | 8.174 | 7.740 | 2.378 | 2.633 | 2.985 | 2.740 |
| 90 | 4.358 | 4.828 | 4.416 | 0.834 | 0.913 | 0.839 | 0.694 |
| 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_7 ~ C0808XT-13LXXK-NDEX-TCY-SOXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 471.76 | N.A. | 40.70 |
| 0-30 | 706.12 | N.A. | 60.90 |
| 0-40 | 919.73 | N.A. | 79.30 |
| 0-60 | 1106.48 | N.A. | 95.40 |
| 0-80 | 1152.62 | N.A. | 99.30 |
| 0-90 | 1159.6 | N.A. | 99.90 |
| 10-90 | 967.92 | N.A. | 83.40 |
| 20-40 | 447.98 | N.A. | 38.60 |
| 20-50 | 576.70 | N.A. | 49.70 |
| 40-70 | 215.98 | N.A. | 18.60 |
| 60-80 | 46.13 | N.A. | 4.00 |
| 70-80 | 16.91 | N.A. | 1.50 |
| 80-90 | 6.98 | N.A. | 0.60 |
| 90-110 | 0.75 | N.A. | 0.10 |
| 90-120 | 0.75 | N.A. | 0.10 |
| 90-130 | 0.75 | N.A. | 0.10 |
| 90-150 | 0.75 | N.A. | 0.10 |
| 90-180 | 0.75 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1160.35 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 191.68 |
| 10-20 | 280.08 |
| 20-30 | 234.36 |
| 30-40 | 213.61 |
| 40-50 | 128.72 |
| 50-60 | 58.03 |
| 60-70 | 29.23 |
| 70-80 | 16.91 |
| 80-90 | 6.98 |
| 90-100 | 0.75 |
| 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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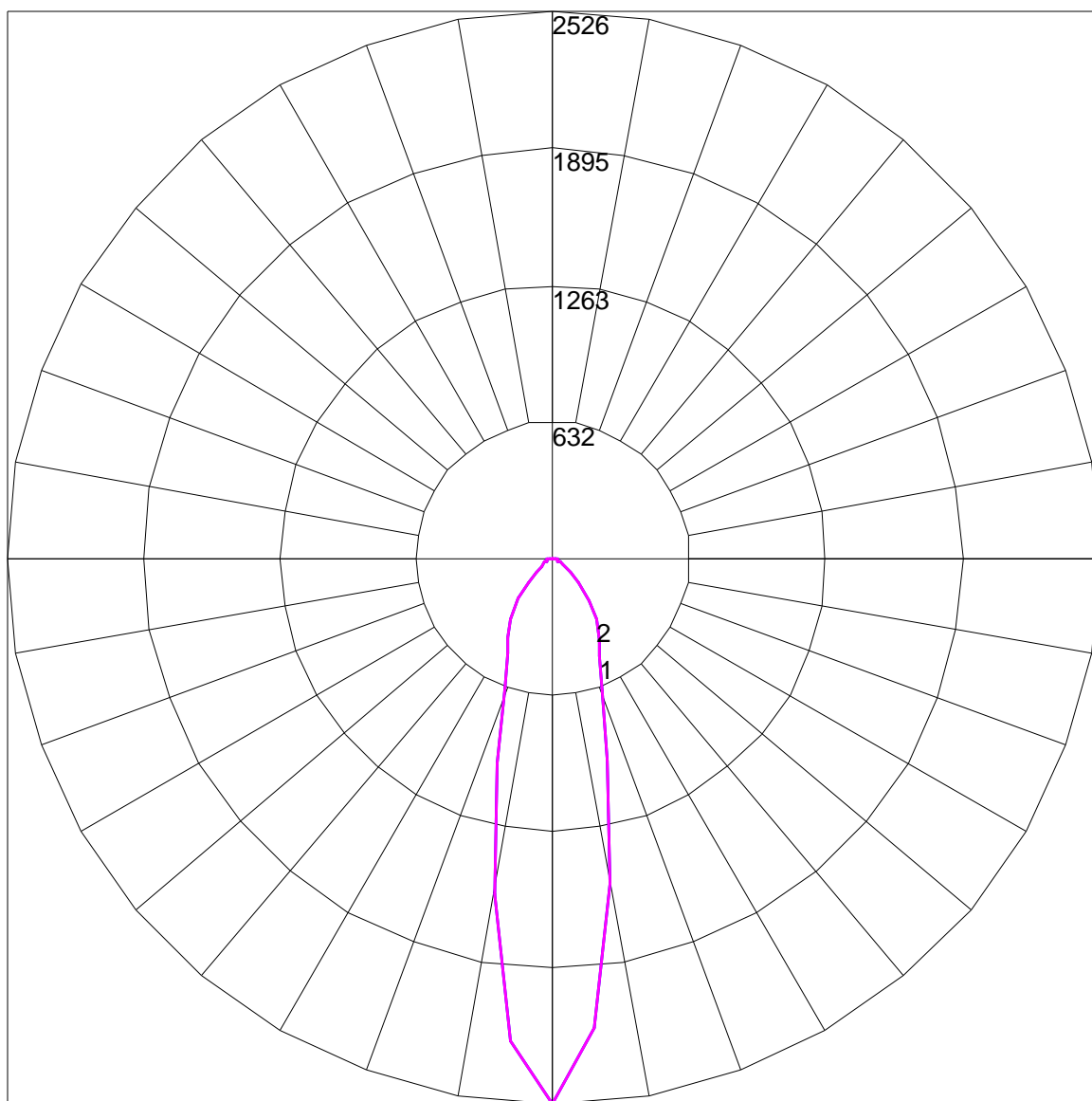
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 94 | 92 |
| 2 | 106 | 101 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 92 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 83 | 79 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 71 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 |
| 6 | 85 | 76 | 69 | 65 | 84 | 75 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 |
| 7 | 81 | 71 | 65 | 61 | 80 | 71 | 65 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 54 |
| 9 | 74 | 64 | 58 | 53 | 73 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |
| 10 | 70 | 61 | 55 | 51 | 69 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 58 | 53 | 50 | 49 |

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POLAR GRAPH



Maximum Candela = 2526.154 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)