

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00616_13 ~ C0808XT-20LXXK-XNEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00616_13
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C0808XT-20L-xxK-XN-EX-TCY-GL
[LUMINAIRE] Nom. 8" Diam. x 8" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Xtra NARrow Beam
[OTHER] Clear Glass Lens, Flush with Lower Trim
[OTHER] 16.0 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

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1816 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 51 |
| Total Luminaire Watts | 35.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.28 |
| Spacing Criterion (90-270) | 0.28 |
| Spacing Criterion (Diagonal) | 0.30 |
| 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_13 ~ C0808XT-20LXXK-XNEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 17221 | 18920 | 17822 |
| 55 | 12998 | 11778 | 15260 |
| 65 | 1911 | 1687 | 2782 |
| 75 | 1769 | 3126 | 3618 |
| 85 | 2474 | 2966 | 3205 |

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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 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 |
| 5 | 6018.746 | 5801.497 | 6121.018 | 5896.368 | 6066.277 | 5973.454 | 6052.447 | 5934.039 | 6067.524 | 6049.492 |
| 10 | 2514.461 | 2655.003 | 2783.258 | 2509.899 | 2610.901 | 2775.028 | 2650.449 | 2816.443 | 2530.954 | 2814.047 |
| 15 | 940.278 | 1069.581 | 967.397 | 983.270 | 922.346 | 985.020 | 910.301 | 1036.827 | 900.140 | 1024.417 |
| 20 | 749.204 | 751.624 | 741.304 | 750.014 | 741.272 | 725.933 | 720.357 | 734.439 | 734.230 | 738.862 |
| 25 | 714.044 | 712.380 | 708.037 | 710.982 | 692.152 | 680.834 | 682.719 | 688.947 | 694.094 | 696.038 |
| 30 | 655.265 | 657.273 | 656.959 | 662.621 | 655.506 | 639.826 | 642.582 | 638.580 | 641.133 | 636.175 |
| 35 | 578.862 | 586.489 | 579.362 | 588.847 | 594.261 | 578.041 | 577.060 | 577.164 | 575.014 | 565.266 |
| 40 | 424.266 | 398.554 | 462.381 | 461.785 | 458.590 | 432.629 | 466.250 | 420.901 | 438.815 | 415.888 |
| 45 | 173.747 | 214.332 | 190.887 | 193.751 | 179.811 | 186.551 | 161.525 | 190.770 | 134.456 | 142.225 |
| 50 | 166.154 | 171.338 | 151.167 | 188.455 | 168.409 | 171.023 | 173.082 | 164.680 | 160.056 | 170.123 |
| 55 | 106.371 | 84.426 | 96.390 | 88.880 | 124.889 | 132.845 | 139.016 | 120.331 | 133.346 | 146.897 |
| 60 | 14.912 | 18.916 | 14.209 | 18.876 | 20.253 | 23.644 | 21.234 | 28.434 | 25.070 | 36.892 |
| 65 | 11.526 | 11.685 | 10.173 | 14.502 | 16.777 | 15.730 | 14.676 | 16.938 | 20.002 | 18.129 |
| 70 | 9.737 | 10.315 | 10.267 | 14.051 | 15.149 | 15.459 | 14.187 | 18.096 | 15.293 | 16.471 |
| 75 | 6.532 | 11.128 | 11.545 | 12.328 | 13.362 | 17.708 | 17.639 | 16.404 | 15.740 | 18.681 |
| 80 | 7.761 | 7.116 | 8.682 | 8.540 | 8.956 | 14.446 | 15.228 | 13.743 | 15.190 | 13.482 |
| 85 | 3.077 | 2.831 | 3.689 | 4.753 | 3.985 | 9.927 | 9.675 | 11.704 | 13.984 | 9.864 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 7.689 | 6.423 | 7.833 | 7.218 | 6.543 |
| 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 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 | 7853.184 |
| 5 | 5817.533 | 6156.537 | 5869.086 | 5784.504 | 5846.716 | 5832.444 | 6018.746 |
| 10 | 2626.304 | 2660.319 | 2461.837 | 2639.785 | 2518.490 | 2710.518 | 2514.461 |
| 15 | 1061.882 | 963.412 | 983.203 | 1058.831 | 1009.324 | 1060.251 | 940.278 |
| 20 | 742.803 | 750.937 | 750.096 | 736.302 | 739.627 | 742.983 | 749.204 |
| 25 | 692.884 | 708.102 | 709.080 | 691.409 | 699.742 | 701.740 | 714.044 |
| 30 | 628.737 | 656.726 | 656.330 | 642.344 | 645.732 | 647.140 | 655.265 |
| 35 | 565.021 | 581.474 | 587.136 | 577.080 | 576.872 | 582.257 | 578.862 |
| 40 | 361.510 | 434.767 | 406.766 | 357.888 | 379.699 | 381.160 | 424.266 |
| 45 | 185.923 | 141.352 | 153.933 | 188.546 | 184.424 | 194.590 | 173.747 |

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| | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|
| 50 | 165.443 | 182.944 | 172.833 | 173.416 | 169.993 | 180.227 | 166.154 |
| 55 | 116.482 | 145.860 | 119.816 | 101.930 | 106.089 | 118.956 | 106.371 |
| 60 | 39.864 | 27.093 | 27.633 | 24.050 | 23.923 | 30.486 | 14.912 |
| 65 | 15.036 | 19.528 | 20.019 | 10.438 | 13.763 | 10.837 | 11.526 |
| 70 | 14.879 | 18.813 | 17.419 | 8.847 | 8.876 | 10.433 | 9.737 |
| 75 | 16.433 | 22.018 | 20.843 | 9.863 | 10.224 | 8.024 | 6.532 |
| 80 | 15.821 | 20.913 | 20.253 | 7.228 | 5.881 | 6.892 | 7.761 |
| 85 | 7.753 | 13.890 | 12.271 | 4.186 | 3.319 | 1.828 | 3.077 |
| 90 | 7.243 | 7.384 | 7.529 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 831.07 | N.A. | 45.80 |
| 0-30 | 1152.47 | N.A. | 63.50 |
| 0-40 | 1499.72 | N.A. | 82.60 |
| 0-60 | 1775.5 | N.A. | 97.80 |
| 0-80 | 1806.7 | N.A. | 99.50 |
| 0-90 | 1814.9 | N.A. | 99.90 |
| 10-90 | 1342.25 | N.A. | 73.90 |
| 20-40 | 668.65 | N.A. | 36.80 |
| 20-50 | 848.84 | N.A. | 46.70 |
| 40-70 | 292.68 | N.A. | 16.10 |
| 60-80 | 31.20 | N.A. | 1.70 |
| 70-80 | 14.30 | N.A. | 0.80 |
| 80-90 | 8.20 | N.A. | 0.50 |
| 90-110 | 0.99 | N.A. | 0.10 |
| 90-120 | 0.99 | N.A. | 0.10 |
| 90-130 | 0.99 | N.A. | 0.10 |
| 90-150 | 0.99 | N.A. | 0.10 |
| 90-180 | 0.99 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1815.89 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 472.65 |
| 10-20 | 358.42 |
| 20-30 | 321.40 |
| 30-40 | 347.25 |
| 40-50 | 180.20 |
| 50-60 | 95.58 |
| 60-70 | 16.90 |
| 70-80 | 14.30 |
| 80-90 | 8.20 |
| 90-100 | 0.99 |
| 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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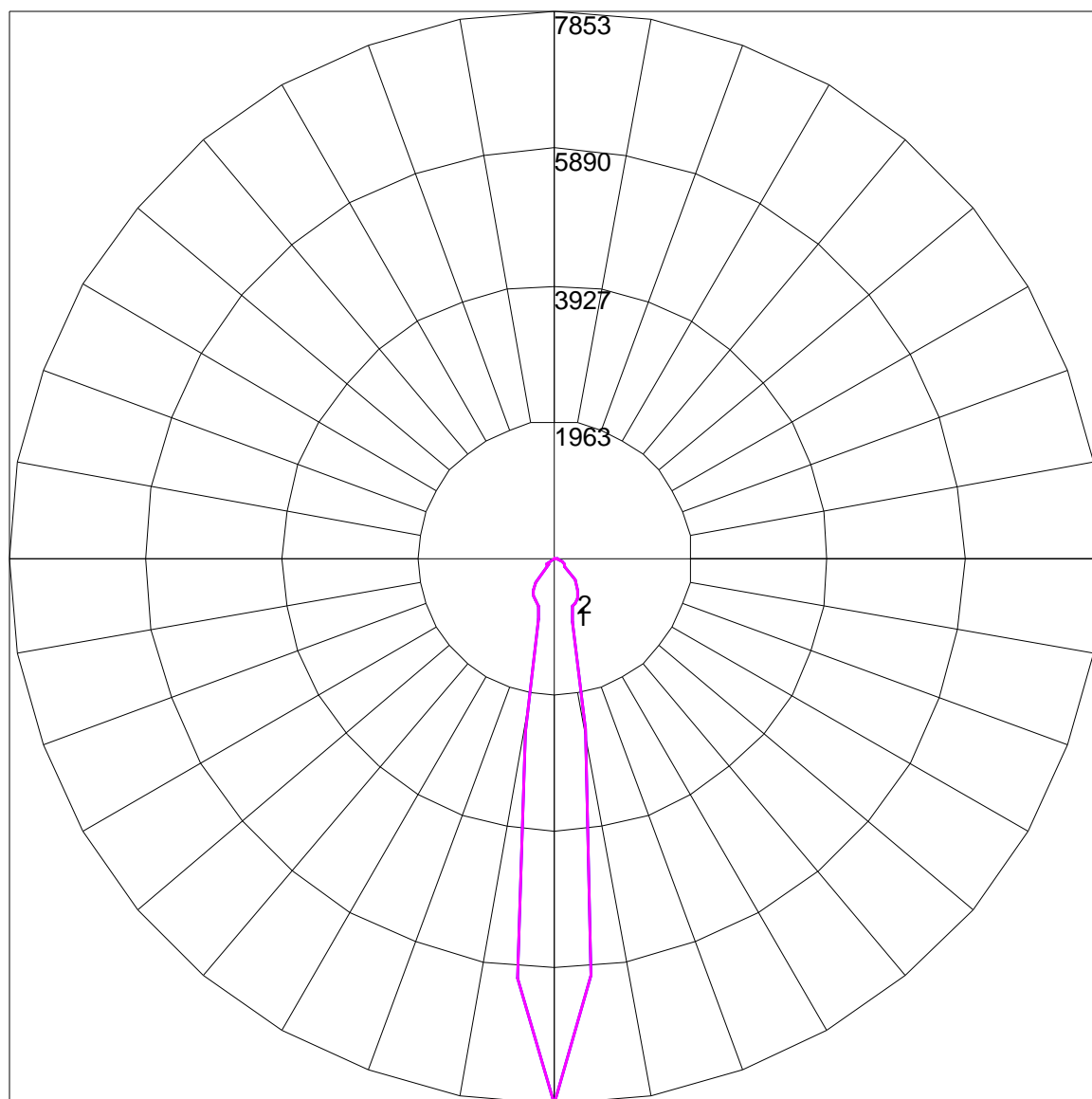
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 94 | 92 | 95 | 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 | 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 | 76 | 72 | 78 | 75 | 72 | 70 |
| 6 | 88 | 79 | 73 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 71 | 68 | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 64 | 71 | 67 | 64 | 63 |
| 8 | 81 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 59 |
| 9 | 77 | 68 | 62 | 59 | 76 | 68 | 62 | 58 | 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 = 7853.184 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)