

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00624_15 ~ C0824UDXT-20LXWGL-20LXW-XXKEX-TSG-SOXXX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00624_15
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 10/13/2017
 [UPDATE] 12/14/2017
 [LUMCAT] C0824UDXT-20L-XW-GL-20L-XW-xxK-EX-TSG-DO-xxx (Up/Down)
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder
 [OTHER] Uplight: Xtra Wide Beam, Flush Clear Glass lens
 [OTHER] Uplight: 58.1 Degree Beam Angle
 [OTHER] Downlight: Xtra Wide Beam, Regressed Solite lens
 [OTHER] Downlight: 58.7 Degree Beam Angle
 [OTHER] Trim: Semi-diffuse clear anodized alum.
 [LAMP] N/A
 [LAMPCAT] N/A, 19mm LES - indirect
 [OTHER] N/A, 19mm LES - direct
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] See Catalog cut sheet for different source lumen multipliers
 [OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3076 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 71 |
| Total Luminaire Watts | 43.4 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.67 ft (Diameter) |
| Luminous Width (90-270) | 0.67 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_15 ~ C0824UDXT-20LXWGL-20LXW-XXKEX-TSG-SOXXX.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4240 | 4460 | 4232 |
| 55 | 676 | 708 | 718 |
| 65 | 68 | 61 | 64 |
| 75 | 103 | 154 | 146 |
| 85 | 296 | 362 | 332 |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1865.003 | 1865.003 | 1865.003 | 1865.003 | 1865.003 |
| 2.5 | 1846.326 | 1847.940 | 1844.936 | 1845.318 | 1838.987 |
| 5.0 | 1827.649 | 1830.876 | 1824.869 | 1825.633 | 1812.971 |
| 7.5 | 1781.016 | 1786.214 | 1777.780 | 1779.785 | 1760.790 |
| 10.0 | 1734.383 | 1741.552 | 1730.691 | 1733.937 | 1708.609 |
| 12.5 | 1657.776 | 1667.827 | 1654.779 | 1657.430 | 1628.348 |
| 15.0 | 1581.169 | 1594.102 | 1578.867 | 1580.923 | 1548.086 |
| 17.5 | 1481.490 | 1497.826 | 1482.859 | 1486.477 | 1451.268 |
| 20.0 | 1381.810 | 1401.550 | 1386.851 | 1392.030 | 1354.450 |
| 22.5 | 1263.466 | 1290.679 | 1274.510 | 1285.196 | 1242.362 |
| 25.0 | 1145.122 | 1179.808 | 1162.169 | 1178.361 | 1130.273 |
| 27.5 | 999.993 | 1035.458 | 1019.158 | 1036.412 | 986.251 |
| 30.0 | 854.863 | 891.107 | 876.147 | 894.463 | 842.229 |
| 32.5 | 695.416 | 724.736 | 713.745 | 730.710 | 680.735 |
| 35.0 | 535.969 | 558.364 | 551.343 | 566.956 | 519.240 |
| 37.5 | 400.367 | 420.145 | 413.759 | 426.951 | 386.610 |
| 40.0 | 264.765 | 281.925 | 276.174 | 286.946 | 253.980 |
| 42.5 | 181.093 | 187.332 | 189.323 | 195.459 | 175.609 |
| 45.0 | 97.420 | 92.739 | 102.471 | 103.972 | 97.238 |
| 47.5 | 67.192 | 64.803 | 70.851 | 72.406 | 67.712 |
| 50.0 | 36.963 | 36.867 | 39.230 | 40.839 | 38.185 |
| 52.5 | 24.777 | 24.890 | 26.211 | 27.208 | 25.779 |
| 55.0 | 12.590 | 12.913 | 13.191 | 13.576 | 13.373 |
| 57.5 | 7.296 | 7.250 | 7.691 | 7.880 | 7.818 |
| 60.0 | 2.001 | 1.587 | 2.191 | 2.183 | 2.263 |
| 62.5 | 1.466 | 1.158 | 1.517 | 1.589 | 1.573 |
| 65.0 | 0.931 | 0.729 | 0.843 | 0.994 | 0.883 |
| 67.5 | 0.813 | 0.827 | 0.962 | 1.059 | 0.906 |
| 70.0 | 0.694 | 0.924 | 1.080 | 1.123 | 0.929 |
| 72.5 | 0.779 | 0.976 | 1.190 | 1.025 | 1.078 |
| 75.0 | 0.863 | 1.027 | 1.299 | 0.926 | 1.227 |
| 77.5 | 0.813 | 0.834 | 1.251 | 1.015 | 1.078 |
| 80.0 | 0.763 | 0.640 | 1.203 | 1.103 | 0.928 |
| 82.5 | 0.800 | 0.864 | 1.114 | 0.938 | 0.934 |
| 85.0 | 0.837 | 1.088 | 1.024 | 0.773 | 0.939 |
| 87.5 | 0.794 | 0.756 | 1.016 | 0.628 | 0.916 |
| 90.0 | 0.751 | 0.423 | 1.008 | 0.483 | 0.893 |
| 92.5 | 8.207 | 7.604 | 7.085 | 7.847 | 0.000 |
| 95.0 | 7.026 | 7.210 | 6.271 | 6.128 | 6.547 |
| 97.5 | 7.029 | 7.115 | 5.358 | 6.334 | 6.836 |
| 100.0 | 7.121 | 6.742 | 6.196 | 4.889 | 5.789 |
| 102.5 | 7.334 | 7.321 | 5.791 | 4.782 | 5.271 |
| 105.0 | 7.547 | 6.539 | 5.748 | 5.134 | 4.968 |
| 107.5 | 7.201 | 5.496 | 5.935 | 5.422 | 4.399 |
| 110.0 | 6.800 | 5.557 | 6.038 | 5.639 | 3.594 |
| 112.5 | 6.325 | 5.603 | 5.970 | 5.655 | 4.464 |
| 115.0 | 7.106 | 5.630 | 5.747 | 5.601 | 5.186 |
| 117.5 | 8.817 | 6.679 | 6.299 | 5.375 | 5.633 |
| 120.0 | 11.339 | 8.668 | 7.200 | 6.215 | 6.240 |
| 122.5 | 14.338 | 15.066 | 12.545 | 8.660 | 7.006 |
| 125.0 | 31.725 | 24.758 | 19.333 | 23.723 | 19.294 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_15 ~ C0824UDXT-20LXWGL-20LXW-XXKEX-TSG-SOXXX.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|----------|----------|----------|----------|----------|
| 127.5 | 55.947 | 60.104 | 58.661 | 54.133 | 40.710 |
| 130.0 | 114.251 | 110.937 | 105.986 | 108.124 | 103.069 |
| 132.5 | 185.209 | 182.224 | 182.063 | 186.126 | 192.080 |
| 135.0 | 268.865 | 263.684 | 263.194 | 268.377 | 279.113 |
| 137.5 | 356.163 | 344.216 | 347.063 | 354.147 | 365.098 |
| 140.0 | 424.493 | 424.385 | 431.231 | 426.984 | 433.293 |
| 142.5 | 488.795 | 495.134 | 495.873 | 491.005 | 494.039 |
| 145.0 | 572.943 | 563.021 | 559.480 | 568.619 | 572.984 |
| 147.5 | 659.894 | 648.602 | 647.678 | 653.800 | 657.907 |
| 150.0 | 741.324 | 738.206 | 735.408 | 733.595 | 740.440 |
| 152.5 | 822.278 | 815.552 | 812.805 | 811.013 | 822.376 |
| 155.0 | 899.322 | 891.005 | 889.507 | 891.814 | 903.578 |
| 157.5 | 975.627 | 957.672 | 959.438 | 973.794 | 984.653 |
| 160.0 | 1025.615 | 1023.511 | 1027.339 | 1037.187 | 1044.933 |
| 162.5 | 1077.706 | 1085.771 | 1083.217 | 1095.621 | 1102.803 |
| 165.0 | 1158.871 | 1148.181 | 1143.684 | 1160.903 | 1169.401 |
| 167.5 | 1241.765 | 1232.622 | 1223.001 | 1227.483 | 1236.484 |
| 170.0 | 1337.475 | 1316.659 | 1301.976 | 1306.625 | 1317.429 |
| 172.5 | 1426.183 | 1394.054 | 1379.871 | 1387.399 | 1397.512 |
| 175.0 | 1479.868 | 1466.746 | 1447.438 | 1445.944 | 1458.071 |
| 177.5 | 1524.140 | 1500.889 | 1489.900 | 1502.979 | 1514.035 |
| 180.0 | 1535.000 | 1535.000 | 1535.000 | 1535.000 | 1535.000 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 610.93 | N.A. | 19.90 |
| 0-30 | 1135.6 | N.A. | 36.90 |
| 0-40 | 1482.51 | N.A. | 48.20 |
| 0-60 | 1594.02 | N.A. | 51.80 |
| 0-80 | 1596.27 | N.A. | 51.90 |
| 0-90 | 1597.23 | N.A. | 51.90 |
| 10-90 | 1426.25 | N.A. | 46.40 |
| 20-40 | 871.58 | N.A. | 28.30 |
| 20-50 | 968.38 | N.A. | 31.50 |
| 40-70 | 112.68 | N.A. | 3.70 |
| 60-80 | 2.25 | N.A. | 0.10 |
| 70-80 | 1.08 | N.A. | 0.00 |
| 80-90 | 0.96 | N.A. | 0.00 |
| 90-110 | 12.50 | N.A. | 0.40 |
| 90-120 | 18.57 | N.A. | 0.60 |
| 90-130 | 51.04 | N.A. | 1.70 |
| 90-150 | 611.56 | N.A. | 19.90 |
| 90-180 | 1479.26 | N.A. | 48.10 |
| 110-180 | 1466.76 | N.A. | 47.70 |
| 0-180 | 3076.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 170.98 |
| 10-20 | 439.95 |
| 20-30 | 524.67 |
| 30-40 | 346.91 |
| 40-50 | 96.80 |
| 50-60 | 14.71 |
| 60-70 | 1.17 |
| 70-80 | 1.08 |
| 80-90 | 0.96 |
| 90-100 | 6.29 |
| 100-110 | 6.21 |
| 110-120 | 6.07 |
| 120-130 | 32.47 |
| 130-140 | 204.07 |
| 140-150 | 356.45 |
| 150-160 | 407.98 |
| 160-170 | 325.13 |
| 170-180 | 134.59 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

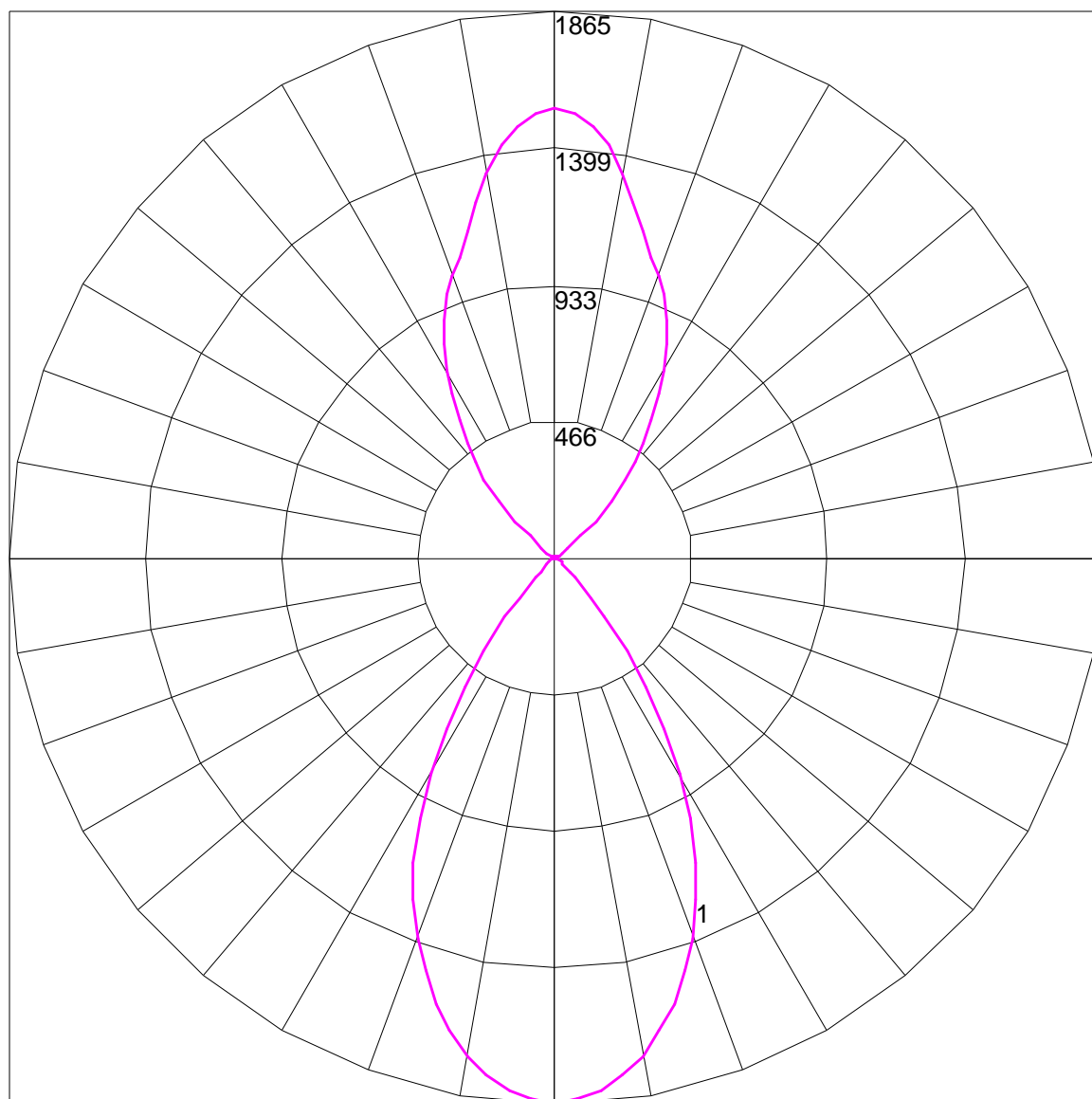
Effective Floor Cavity Reflectance 0.20

| 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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 84 | 84 | 84 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1 | 101 | 97 | 94 | 92 | 93 | 90 | 88 | 86 | 78 | 76 | 74 | 66 | 65 | 64 | 55 | 54 | 54 | 49 |
| 2 | 94 | 88 | 83 | 79 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 58 | 52 | 51 | 50 | 45 |
| 3 | 88 | 80 | 75 | 70 | 82 | 75 | 70 | 66 | 66 | 62 | 59 | 57 | 54 | 52 | 49 | 47 | 46 | 42 |
| 4 | 82 | 73 | 67 | 62 | 76 | 69 | 64 | 59 | 61 | 57 | 54 | 53 | 50 | 48 | 46 | 44 | 42 | 39 |
| 5 | 77 | 67 | 61 | 56 | 72 | 64 | 58 | 54 | 56 | 52 | 49 | 50 | 46 | 44 | 43 | 41 | 39 | 37 |
| 6 | 72 | 62 | 55 | 51 | 67 | 59 | 53 | 49 | 52 | 48 | 45 | 46 | 43 | 41 | 41 | 38 | 37 | 34 |
| 7 | 68 | 57 | 51 | 46 | 63 | 54 | 49 | 44 | 49 | 44 | 41 | 43 | 40 | 38 | 38 | 36 | 34 | 32 |
| 8 | 64 | 53 | 47 | 42 | 60 | 51 | 45 | 41 | 46 | 41 | 38 | 41 | 37 | 35 | 36 | 34 | 32 | 30 |
| 9 | 60 | 50 | 43 | 39 | 56 | 47 | 42 | 38 | 43 | 38 | 35 | 38 | 35 | 33 | 34 | 32 | 30 | 28 |
| 10 | 57 | 46 | 40 | 36 | 53 | 44 | 39 | 35 | 40 | 36 | 33 | 36 | 33 | 30 | 33 | 30 | 28 | 26 |

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POLAR GRAPH



Maximum Candela = 1865.003 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)