

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00624_14 ~ C0824UDXT-10LWDGL-10LWD-XXKEX-TSG-SOXXX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00624_14_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 10/13/2017
 [UPDATE] 12/15/2017
 [LUMCAT] C0824UDXT-10L-WD-GL-10L-WD-xxK-EX-TSG-SO-xxx (Up/Down)
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder
 [OTHER] Uplight: Wide Beam, Flush Clear Glass lens
 [OTHER] Uplight: 42.1 Degree Beam Angle
 [OTHER] Downlight: Wide Beam, Regressed Solite lens
 [OTHER] Downlight: 46 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, scaled from 20L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1497 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 82 |
| Total Luminaire Watts | 18.2 |
| 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_14 ~ C0824UDXT-10LWDGL-10LWD-XXKEX-TSG-SOXXX.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1432 | 1489 | 1267 |
| 55 | 159 | 173 | 160 |
| 65 | 40 | 34 | 34 |
| 75 | 49 | 49 | 53 |
| 85 | 169 | 212 | 203 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_14 ~ C0824UDXT-10LWDGL-10LWD-XXKEX-TSG-SOXXX.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|--------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1184.652 | 1184.652 | 1184.652 | 1184.652 | 1184.652 |
| 2.5 | 1164.468 | 1167.281 | 1162.408 | 1163.069 | 1156.500 |
| 5.0 | 1144.284 | 1149.911 | 1140.163 | 1141.486 | 1128.348 |
| 7.5 | 1088.839 | 1095.625 | 1084.445 | 1086.502 | 1068.392 |
| 10.0 | 1033.394 | 1041.339 | 1028.727 | 1031.518 | 1008.437 |
| 12.5 | 948.962 | 958.917 | 945.338 | 948.962 | 922.008 |
| 15.0 | 864.530 | 876.494 | 861.949 | 866.406 | 835.579 |
| 17.5 | 773.886 | 784.517 | 771.279 | 774.599 | 745.471 |
| 20.0 | 683.241 | 692.540 | 680.609 | 682.792 | 655.363 |
| 22.5 | 601.714 | 610.958 | 599.924 | 602.059 | 576.479 |
| 25.0 | 520.187 | 529.376 | 519.239 | 521.325 | 497.595 |
| 27.5 | 445.784 | 455.021 | 444.284 | 447.679 | 424.358 |
| 30.0 | 371.380 | 380.666 | 369.329 | 374.034 | 351.120 |
| 32.5 | 299.323 | 307.409 | 297.507 | 300.063 | 279.519 |
| 35.0 | 227.266 | 234.151 | 225.685 | 226.093 | 207.919 |
| 37.5 | 167.168 | 173.598 | 166.043 | 166.721 | 150.944 |
| 40.0 | 107.071 | 113.044 | 106.401 | 107.349 | 93.970 |
| 42.5 | 69.987 | 71.806 | 70.303 | 67.849 | 61.539 |
| 45.0 | 32.904 | 30.568 | 34.205 | 28.348 | 29.107 |
| 47.5 | 21.560 | 20.042 | 21.906 | 18.829 | 19.319 |
| 50.0 | 10.215 | 9.516 | 9.608 | 9.309 | 9.530 |
| 52.5 | 6.588 | 6.001 | 6.411 | 6.058 | 6.255 |
| 55.0 | 2.961 | 2.487 | 3.215 | 2.806 | 2.979 |
| 57.5 | 1.843 | 1.531 | 1.993 | 1.741 | 1.815 |
| 60.0 | 0.725 | 0.575 | 0.770 | 0.676 | 0.649 |
| 62.5 | 0.640 | 0.501 | 0.620 | 0.529 | 0.557 |
| 65.0 | 0.554 | 0.427 | 0.470 | 0.382 | 0.465 |
| 67.5 | 0.538 | 0.391 | 0.469 | 0.424 | 0.413 |
| 70.0 | 0.522 | 0.354 | 0.466 | 0.466 | 0.361 |
| 72.5 | 0.465 | 0.385 | 0.439 | 0.480 | 0.404 |
| 75.0 | 0.408 | 0.414 | 0.411 | 0.495 | 0.446 |
| 77.5 | 0.465 | 0.361 | 0.444 | 0.417 | 0.426 |
| 80.0 | 0.522 | 0.308 | 0.478 | 0.340 | 0.405 |
| 82.5 | 0.501 | 0.459 | 0.539 | 0.544 | 0.490 |
| 85.0 | 0.480 | 0.610 | 0.600 | 0.748 | 0.574 |
| 87.5 | 0.467 | 0.386 | 0.493 | 0.469 | 0.489 |
| 90.0 | 0.453 | 0.162 | 0.386 | 0.190 | 0.403 |
| 92.5 | 3.976 | 3.556 | 3.353 | 3.364 | 3.509 |
| 95.0 | 3.832 | 3.267 | 2.775 | 3.171 | 3.602 |
| 97.5 | 3.283 | 3.119 | 2.811 | 2.929 | 2.776 |
| 100.0 | 3.154 | 2.909 | 3.172 | 2.420 | 2.749 |
| 102.5 | 3.533 | 2.565 | 2.557 | 1.743 | 2.756 |
| 105.0 | 3.607 | 2.734 | 2.553 | 2.532 | 2.239 |
| 107.5 | 3.051 | 2.737 | 2.598 | 2.528 | 2.245 |
| 110.0 | 2.969 | 2.435 | 2.590 | 2.327 | 2.357 |
| 112.5 | 3.047 | 2.587 | 2.529 | 2.329 | 2.550 |
| 115.0 | 3.447 | 2.964 | 2.452 | 2.323 | 2.623 |
| 117.5 | 3.873 | 3.499 | 2.887 | 2.307 | 2.687 |
| 120.0 | 4.731 | 4.079 | 3.364 | 2.635 | 2.943 |
| 122.5 | 5.820 | 7.388 | 5.915 | 3.225 | 3.523 |
| 125.0 | 16.748 | 11.327 | 8.774 | 13.790 | 6.948 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_14 ~ C0824UDXT-10LWDGL-10LWD-XXKEX-TSG-SOXXX.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|--------------|---------|---------|---------|---------|---------|
| 127.5 | 29.179 | 36.466 | 36.913 | 30.818 | 15.966 |
| 130.0 | 65.372 | 65.352 | 65.741 | 63.623 | 59.638 |
| 132.5 | 101.904 | 105.454 | 108.294 | 105.280 | 103.086 |
| 135.0 | 141.888 | 147.033 | 150.126 | 144.536 | 145.429 |
| 137.5 | 179.913 | 180.270 | 184.204 | 182.632 | 184.629 |
| 140.0 | 204.480 | 212.755 | 216.116 | 209.503 | 211.745 |
| 142.5 | 227.536 | 227.815 | 231.394 | 231.826 | 235.609 |
| 145.0 | 242.703 | 242.047 | 246.691 | 248.828 | 249.384 |
| 147.5 | 258.189 | 257.681 | 262.081 | 263.978 | 263.696 |
| 150.0 | 274.994 | 273.592 | 278.848 | 280.067 | 279.432 |
| 152.5 | 298.296 | 300.782 | 301.626 | 296.422 | 303.827 |
| 155.0 | 343.131 | 331.119 | 336.185 | 347.373 | 347.390 |
| 157.5 | 402.318 | 411.287 | 412.517 | 406.103 | 411.388 |
| 160.0 | 501.205 | 494.205 | 498.135 | 508.677 | 514.195 |
| 162.5 | 602.674 | 605.087 | 610.554 | 619.195 | 621.005 |
| 165.0 | 710.192 | 713.128 | 716.716 | 722.065 | 734.381 |
| 167.5 | 803.773 | 801.611 | 807.637 | 823.930 | 829.417 |
| 170.0 | 869.878 | 879.621 | 878.798 | 880.226 | 898.699 |
| 172.5 | 906.054 | 902.891 | 908.878 | 932.432 | 930.506 |
| 175.0 | 890.544 | 915.782 | 919.567 | 916.430 | 915.786 |
| 177.5 | 873.811 | 885.641 | 896.096 | 896.941 | 896.003 |
| 180.0 | 861.745 | 861.745 | 861.745 | 861.745 | 861.745 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_14 ~ C0824UDXT-10LWDGL-10LWD-XXKEX-TSG-SOXXX.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 343.77 | N.A. | 23.00 |
| 0-30 | 581.66 | N.A. | 38.90 |
| 0-40 | 724.46 | N.A. | 48.40 |
| 0-60 | 761.49 | N.A. | 50.90 |
| 0-80 | 762.44 | N.A. | 50.90 |
| 0-90 | 762.97 | N.A. | 51.00 |
| 10-90 | 657.89 | N.A. | 43.90 |
| 20-40 | 380.69 | N.A. | 25.40 |
| 20-50 | 414.21 | N.A. | 27.70 |
| 40-70 | 37.53 | N.A. | 2.50 |
| 60-80 | 0.95 | N.A. | 0.10 |
| 70-80 | 0.45 | N.A. | 0.00 |
| 80-90 | 0.53 | N.A. | 0.00 |
| 90-110 | 5.85 | N.A. | 0.40 |
| 90-120 | 8.64 | N.A. | 0.60 |
| 90-130 | 26.60 | N.A. | 1.80 |
| 90-150 | 289.25 | N.A. | 19.30 |
| 90-180 | 734.17 | N.A. | 49.00 |
| 110-180 | 728.31 | N.A. | 48.60 |
| 0-180 | 1497.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 105.08 |
| 10-20 | 238.70 |
| 20-30 | 237.88 |
| 30-40 | 142.80 |
| 40-50 | 33.52 |
| 50-60 | 3.51 |
| 60-70 | 0.50 |
| 70-80 | 0.45 |
| 80-90 | 0.53 |
| 90-100 | 3.08 |
| 100-110 | 2.78 |
| 110-120 | 2.78 |
| 120-130 | 17.96 |
| 130-140 | 109.17 |
| 140-150 | 153.48 |
| 150-160 | 163.50 |
| 160-170 | 195.25 |
| 170-180 | 86.17 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

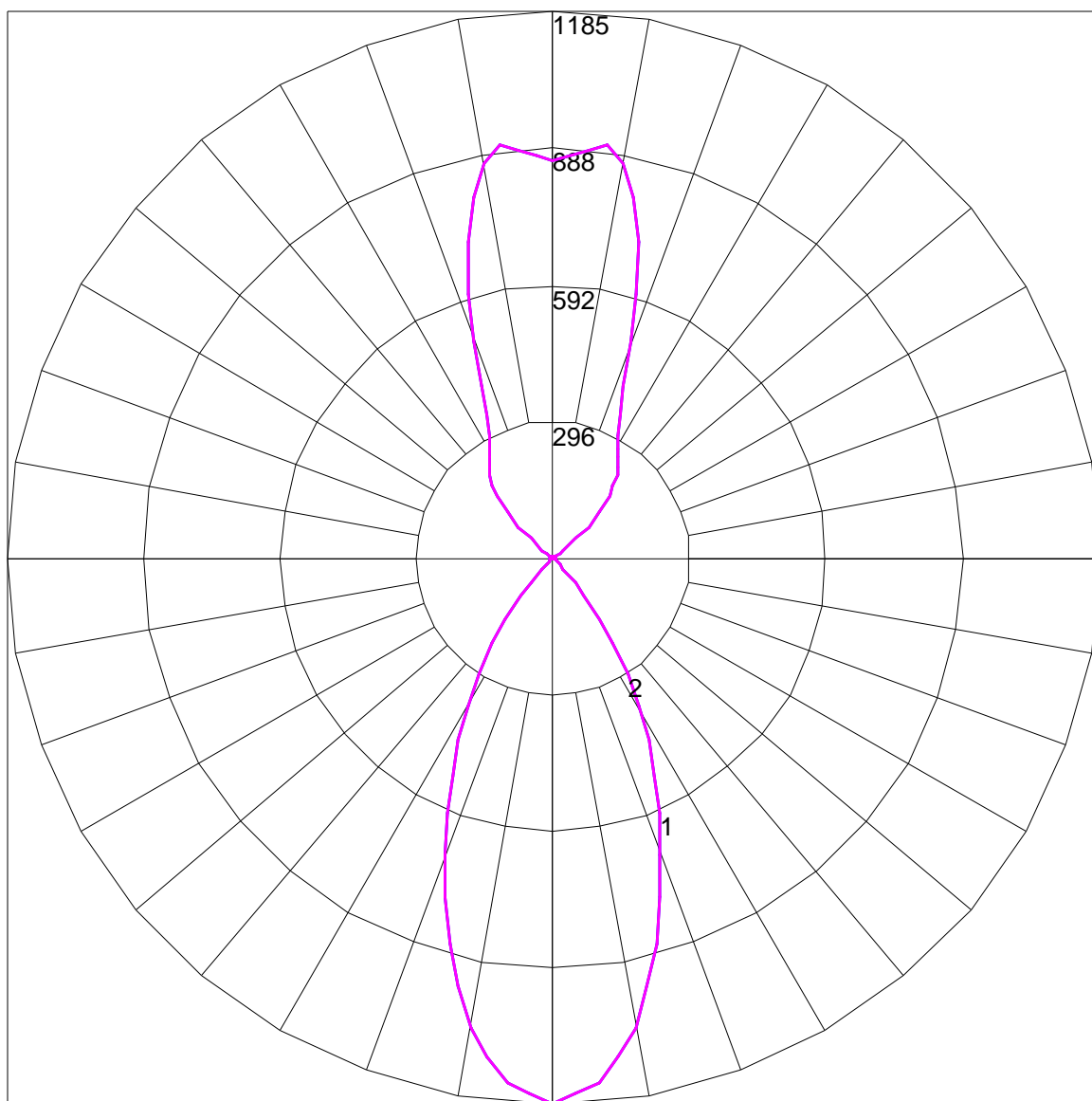
Effective Floor Cavity Reflectance 0.20

| 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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 100 | 97 | 94 | 92 | 93 | 90 | 88 | 86 | 77 | 76 | 74 | 65 | 64 | 63 | 54 | 54 | 53 | 48 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 57 | 51 | 50 | 49 | 45 |
| 3 | 88 | 81 | 75 | 70 | 82 | 76 | 71 | 67 | 66 | 62 | 60 | 57 | 55 | 53 | 49 | 47 | 46 | 42 |
| 4 | 82 | 74 | 68 | 63 | 77 | 69 | 64 | 60 | 61 | 57 | 54 | 53 | 51 | 48 | 46 | 44 | 43 | 40 |
| 5 | 77 | 68 | 62 | 57 | 72 | 64 | 59 | 54 | 57 | 53 | 50 | 50 | 47 | 45 | 44 | 42 | 40 | 37 |
| 6 | 73 | 63 | 56 | 52 | 68 | 60 | 54 | 50 | 53 | 49 | 46 | 47 | 44 | 41 | 41 | 39 | 38 | 35 |
| 7 | 68 | 58 | 52 | 47 | 64 | 55 | 50 | 46 | 50 | 45 | 42 | 44 | 41 | 39 | 39 | 37 | 35 | 33 |
| 8 | 65 | 54 | 48 | 44 | 60 | 52 | 46 | 42 | 47 | 42 | 39 | 42 | 39 | 36 | 37 | 35 | 33 | 31 |
| 9 | 61 | 51 | 45 | 40 | 57 | 48 | 43 | 39 | 44 | 40 | 37 | 39 | 36 | 34 | 35 | 33 | 31 | 29 |
| 10 | 58 | 48 | 42 | 38 | 54 | 46 | 40 | 36 | 41 | 37 | 34 | 37 | 34 | 32 | 34 | 31 | 30 | 28 |

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POLAR GRAPH



Maximum Candela = 1184.652 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)