

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ARLV250418L35XX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST]
 [DATE]
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

| | |
|---------------------------------|------------------|
| Lumens Per Lamp | 2214.98 (1 lamp) |
| Total Lamp Lumens | 2214.98 |
| Luminaire Lumens | 2333 |
| Total Luminaire Efficiency | 105 % |
| Luminaire Efficacy Rating (LER) | 78 |
| Total Luminaire Watts | 30 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.08 |
| Spacing Criterion (90-270) | 1.18 |
| Spacing Criterion (Diagonal) | 1.24 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 m |
| Luminous Width (90-270) | 0.00 m |
| Luminous Height | 0.00 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 |
| 5 | 876.553 | 870.498 | 888.455 | 867.783 | 916.434 | 907.038 | 932.721 | 913.929 | 907.456 | 889.708 |
| 10 | 831.452 | 835.628 | 872.168 | 867.366 | 919.775 | 921.028 | 932.721 | 894.927 | 883.235 | 871.333 |
| 15 | 779.877 | 790.317 | 828.111 | 828.111 | 891.378 | 895.554 | 901.609 | 875.300 | 848.573 | 851.288 |
| 20 | 699.280 | 710.555 | 767.349 | 772.778 | 838.968 | 840.430 | 854.629 | 795.955 | 758.371 | 778.833 |
| 25 | 659.816 | 655.640 | 680.696 | 702.620 | 769.437 | 771.943 | 765.470 | 727.050 | 708.885 | 713.478 |
| 30 | 633.298 | 622.231 | 611.583 | 631.001 | 692.389 | 699.071 | 675.894 | 675.059 | 648.332 | 664.618 |
| 35 | 610.330 | 594.461 | 559.173 | 556.250 | 606.989 | 618.055 | 608.450 | 565.855 | 511.775 | 555.623 |
| 40 | 573.998 | 564.811 | 514.489 | 484.422 | 521.797 | 533.282 | 529.732 | 441.200 | 399.439 | 438.068 |
| 45 | 524.721 | 524.512 | 477.740 | 414.682 | 441.617 | 455.398 | 418.231 | 339.722 | 306.731 | 341.810 |
| 50 | 467.091 | 475.652 | 438.903 | 352.876 | 360.811 | 383.361 | 321.973 | 259.542 | 236.573 | 259.124 |
| 55 | 403.824 | 421.990 | 398.813 | 306.313 | 286.895 | 322.600 | 245.134 | 198.154 | 180.197 | 196.692 |
| 60 | 334.084 | 360.602 | 356.843 | 267.685 | 221.539 | 256.618 | 180.405 | 146.162 | 132.172 | 147.623 |
| 65 | 273.949 | 306.522 | 316.336 | 237.200 | 163.910 | 193.351 | 129.666 | 103.775 | 94.379 | 105.654 |
| 70 | 226.551 | 259.542 | 277.290 | 210.682 | 116.721 | 138.645 | 85.191 | 66.817 | 57.838 | 67.443 |
| 75 | 188.757 | 223.628 | 245.969 | 185.834 | 78.301 | 94.796 | 46.563 | 18.166 | 10.023 | 22.133 |
| 80 | 154.931 | 188.340 | 219.034 | 158.899 | 50.739 | 58.882 | 2.088 | 0.209 | 0.418 | 0.209 |
| 85 | 121.314 | 154.514 | 186.878 | 135.095 | 29.024 | 24.221 | 0.209 | 0.209 | 0.209 | 0.209 |
| 90 | 95.632 | 131.546 | 162.448 | 110.665 | 11.484 | 21.507 | 0.418 | 0.209 | 0.209 | 0.209 |
| 95 | 77.883 | 102.522 | 134.260 | 98.555 | 12.111 | 21.507 | 0.209 | 0.418 | 0.209 | 0.000 |
| 100 | 43.222 | 63.476 | 100.016 | 72.872 | 13.155 | 21.715 | 0.418 | 0.418 | 0.418 | 0.418 |
| 105 | 75.587 | 88.532 | 95.214 | 68.696 | 14.616 | 22.342 | 0.418 | 0.209 | 0.418 | 0.418 |
| 110 | 76.631 | 87.279 | 119.226 | 67.861 | 17.539 | 23.177 | 0.418 | 0.418 | 0.418 | 0.209 |
| 115 | 77.675 | 93.544 | 117.765 | 85.400 | 22.968 | 24.430 | 0.626 | 0.418 | 0.418 | 0.418 |
| 120 | 78.927 | 98.972 | 108.995 | 88.950 | 31.320 | 27.144 | 0.835 | 0.626 | 0.418 | 0.626 |
| 125 | 78.927 | 95.840 | 106.281 | 75.795 | 37.793 | 31.529 | 1.879 | 0.626 | 0.835 | 0.626 |
| 130 | 78.092 | 92.500 | 103.566 | 67.026 | 37.793 | 36.958 | 3.550 | 0.835 | 0.626 | 1.044 |
| 135 | 78.092 | 88.323 | 95.423 | 61.806 | 35.914 | 38.002 | 6.473 | 1.253 | 0.835 | 1.462 |
| 140 | 76.213 | 83.103 | 81.642 | 56.168 | 32.991 | 33.826 | 11.067 | 1.879 | 0.835 | 2.088 |
| 145 | 68.487 | 72.663 | 63.476 | 49.904 | 29.232 | 25.683 | 15.869 | 2.714 | 1.044 | 2.923 |
| 150 | 57.421 | 58.882 | 44.057 | 37.376 | 27.771 | 18.166 | 16.078 | 4.176 | 1.044 | 4.385 |
| 155 | 41.761 | 40.090 | 34.661 | 26.936 | 15.660 | 11.067 | 11.484 | 5.220 | 1.253 | 5.220 |
| 160 | 26.727 | 27.562 | 25.892 | 18.375 | 6.890 | 6.473 | 6.055 | 4.802 | 0.835 | 4.802 |
| 165 | 19.210 | 19.210 | 16.704 | 10.858 | 6.682 | 4.385 | 5.638 | 3.132 | 1.253 | 2.714 |
| 170 | 11.693 | 10.858 | 7.726 | 2.923 | 3.341 | 2.506 | 1.462 | 1.253 | 1.253 | 2.088 |
| 175 | 4.385 | 3.758 | 1.670 | 1.462 | 1.462 | 1.462 | 1.253 | 1.044 | 1.462 | 1.462 |
| 180 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 |

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 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 | 881.933 |
| 5 | 901.192 | 874.256 | 914.973 | 899.312 | 912.049 | 887.619 | 876.553 |
| 10 | 905.159 | 892.004 | 917.687 | 904.741 | 894.510 | 853.585 | 831.452 |
| 15 | 879.059 | 870.915 | 888.037 | 872.377 | 853.794 | 810.571 | 779.877 |
| 20 | 833.540 | 817.462 | 835.419 | 815.165 | 792.197 | 731.435 | 699.280 |
| 25 | 747.722 | 755.447 | 768.811 | 742.919 | 708.467 | 676.311 | 659.816 |
| 30 | 669.421 | 683.411 | 691.763 | 666.706 | 635.804 | 642.276 | 633.298 |
| 35 | 606.571 | 607.406 | 610.330 | 591.120 | 580.471 | 612.627 | 610.330 |
| 40 | 527.853 | 530.567 | 527.644 | 510.105 | 534.743 | 582.141 | 573.998 |
| 45 | 418.440 | 454.145 | 444.332 | 439.947 | 495.906 | 541.007 | 524.721 |
| 50 | 324.062 | 386.493 | 366.031 | 377.724 | 457.069 | 490.686 | 467.091 |
| 55 | 246.596 | 328.238 | 289.609 | 329.282 | 415.935 | 433.474 | 403.824 |
| 60 | 181.241 | 262.882 | 221.957 | 286.895 | 373.756 | 371.042 | 334.084 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|
| 65 | 128.831 | 200.450 | 166.624 | 254.113 | 332.831 | 312.995 | 273.949 |
| 70 | 88.532 | 144.283 | 119.226 | 226.968 | 292.950 | 266.432 | 226.551 |
| 75 | 51.365 | 99.599 | 79.554 | 201.912 | 258.289 | 226.968 | 188.757 |
| 80 | 5.846 | 63.267 | 51.365 | 172.471 | 229.474 | 191.263 | 154.931 |
| 85 | 0.418 | 25.265 | 29.859 | 147.415 | 197.736 | 156.602 | 121.314 |
| 90 | 0.209 | 20.880 | 12.737 | 118.391 | 169.548 | 128.831 | 95.632 |
| 95 | 0.209 | 20.045 | 13.363 | 108.786 | 144.491 | 108.369 | 77.883 |
| 100 | 0.418 | 20.045 | 14.199 | 81.224 | 95.840 | 62.641 | 43.222 |
| 105 | 0.418 | 20.880 | 15.451 | 72.663 | 92.082 | 83.521 | 75.587 |
| 110 | 0.626 | 21.924 | 18.375 | 69.740 | 117.765 | 85.818 | 76.631 |
| 115 | 0.626 | 22.342 | 23.177 | 88.532 | 115.677 | 92.917 | 77.675 |
| 120 | 1.044 | 24.012 | 32.364 | 91.873 | 108.577 | 93.752 | 78.927 |
| 125 | 1.879 | 26.936 | 38.420 | 79.136 | 107.533 | 91.664 | 78.927 |
| 130 | 3.132 | 30.694 | 38.211 | 70.575 | 105.445 | 91.247 | 78.092 |
| 135 | 5.846 | 31.947 | 38.002 | 63.685 | 95.840 | 88.950 | 78.092 |
| 140 | 10.023 | 29.650 | 31.320 | 58.465 | 78.927 | 82.686 | 76.213 |
| 145 | 14.616 | 21.507 | 28.397 | 46.563 | 61.806 | 71.410 | 68.487 |
| 150 | 17.122 | 12.111 | 20.254 | 34.661 | 45.310 | 57.212 | 57.421 |
| 155 | 14.199 | 8.770 | 9.814 | 27.144 | 34.452 | 38.628 | 41.761 |
| 160 | 10.023 | 6.473 | 9.187 | 19.627 | 25.683 | 26.100 | 26.727 |
| 165 | 6.890 | 4.176 | 5.429 | 12.946 | 17.331 | 18.166 | 19.210 |
| 170 | 3.758 | 2.714 | 2.923 | 6.890 | 9.396 | 10.440 | 11.693 |
| 175 | 1.462 | 1.253 | 1.253 | 1.462 | 3.341 | 3.967 | 4.385 |
| 180 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 | 1.302 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|--------|
| 0-20 | 323.92 | 14.60 | 13.90 |
| 0-30 | 657.32 | 29.70 | 28.20 |
| 0-40 | 1024.45 | 46.30 | 43.90 |
| 0-60 | 1645.61 | 74.30 | 70.50 |
| 0-80 | 1989.05 | 89.80 | 85.30 |
| 0-90 | 2073.42 | 93.60 | 88.90 |
| 10-90 | 1988.29 | 89.80 | 85.20 |
| 20-40 | 700.53 | 31.60 | 30.00 |
| 20-50 | 1041.18 | 47.00 | 44.60 |
| 40-70 | 828.34 | 37.40 | 35.50 |
| 60-80 | 343.44 | 15.50 | 14.70 |
| 70-80 | 136.26 | 6.20 | 5.80 |
| 80-90 | 84.36 | 3.80 | 3.60 |
| 90-110 | 98.59 | 4.50 | 4.20 |
| 90-120 | 145.56 | 6.60 | 6.20 |
| 90-130 | 189.04 | 8.50 | 8.10 |
| 90-150 | 246.64 | 11.10 | 10.60 |
| 90-180 | 259.57 | 11.70 | 11.10 |
| 110-180 | 160.98 | 7.30 | 6.90 |
| 0-180 | 2332.99 | 105.30 | 100.00 |

Total Luminaire Efficiency = 105.30%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 85.12 |
| 10-20 | 238.80 |
| 20-30 | 333.39 |
| 30-40 | 367.13 |
| 40-50 | 340.65 |
| 50-60 | 280.51 |
| 60-70 | 207.18 |
| 70-80 | 136.26 |
| 80-90 | 84.36 |
| 90-100 | 55.62 |
| 100-110 | 42.97 |
| 110-120 | 46.96 |
| 120-130 | 43.48 |
| 130-140 | 35.09 |
| 140-150 | 22.51 |
| 150-160 | 9.81 |
| 160-170 | 2.83 |
| 170-180 | 0.29 |

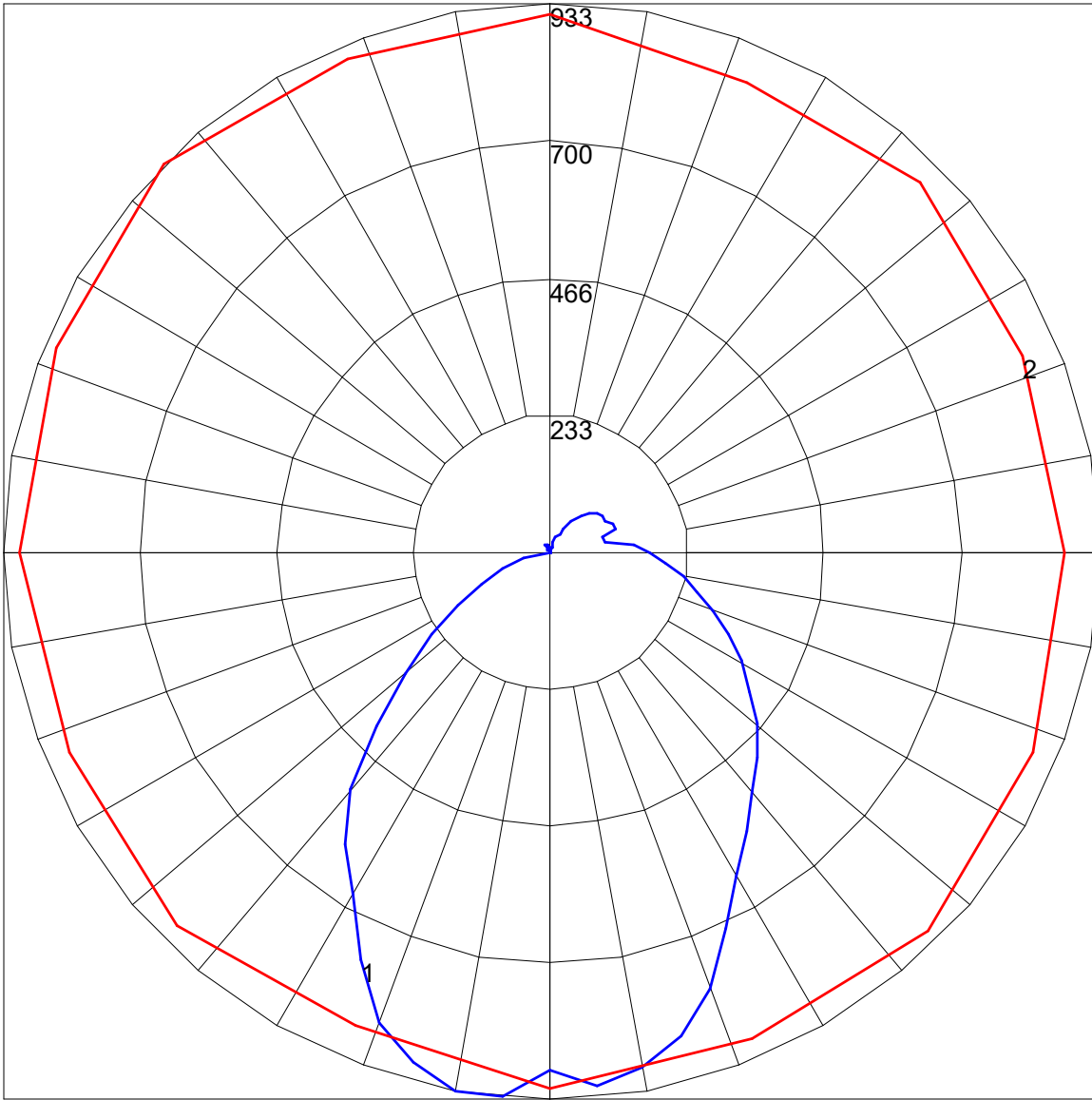
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 123 | 123 | 123 | 123 | 118 | 118 | 118 | 118 | 111 | 111 | 111 | 103 | 103 | 103 | 97 | 97 | 97 | 94 |
| 1 | 112 | 106 | 102 | 98 | 108 | 103 | 99 | 95 | 96 | 93 | 90 | 90 | 88 | 85 | 85 | 83 | 81 | 78 |
| 2 | 102 | 93 | 86 | 80 | 98 | 90 | 84 | 79 | 85 | 80 | 75 | 80 | 75 | 72 | 75 | 71 | 68 | 65 |
| 3 | 93 | 83 | 74 | 68 | 90 | 80 | 72 | 66 | 75 | 69 | 64 | 71 | 66 | 61 | 67 | 62 | 59 | 56 |
| 4 | 86 | 74 | 65 | 58 | 82 | 71 | 63 | 57 | 67 | 60 | 55 | 64 | 58 | 53 | 60 | 55 | 51 | 48 |
| 5 | 79 | 66 | 57 | 50 | 76 | 64 | 56 | 50 | 61 | 54 | 48 | 57 | 51 | 46 | 54 | 49 | 45 | 42 |
| 6 | 73 | 60 | 51 | 44 | 71 | 58 | 50 | 44 | 55 | 48 | 42 | 52 | 46 | 41 | 50 | 44 | 40 | 38 |
| 7 | 68 | 54 | 46 | 39 | 66 | 53 | 45 | 39 | 50 | 43 | 38 | 48 | 42 | 37 | 46 | 40 | 36 | 34 |
| 8 | 64 | 50 | 41 | 35 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 42 | 37 | 32 | 30 |
| 9 | 60 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 10 | 56 | 43 | 35 | 29 | 54 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 28 | 36 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 932.721 Located At Horizontal Angle = 135, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)