



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P43-LED35-SO-04-AWW-D1W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32273

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED WALL WASH

[LUMCAT]P43-LED35-SO-04-AWW-D1W

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3220 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 33.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 2.16 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.70 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.30 ft |
| Luminous Width (90-270) | 4.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 18071 | 20508 | 7287 |
| 55 | 14161 | 16249 | 6966 |
| 65 | 10306 | 12293 | 6154 |
| 75 | 6759 | 8584 | 4857 |
| 85 | 4200 | 4815 | 2818 |

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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> |
|-------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 |
| 2.5 | 911.505 | 908.880 | 888.825 | 854.700 | 827.715 | 779.310 | 752.430 | 730.905 | 721.245 | 730.905 |
| 5.0 | 1028.370 | 1017.660 | 966.420 | 892.185 | 825.405 | 743.820 | 693.525 | 659.505 | 645.855 | 659.505 |
| 7.5 | 1167.075 | 1141.455 | 1051.785 | 930.615 | 821.310 | 709.800 | 641.130 | 599.235 | 584.640 | 599.235 |
| 10.0 | 1330.455 | 1285.305 | 1147.545 | 969.465 | 816.585 | 678.300 | 595.350 | 548.625 | 533.715 | 548.625 |
| 12.5 | 1518.615 | 1449.735 | 1254.540 | 1012.095 | 811.860 | 646.695 | 554.505 | 506.310 | 491.505 | 506.310 |
| 15.0 | 1719.900 | 1625.610 | 1372.245 | 1050.000 | 800.940 | 614.670 | 518.280 | 471.135 | 456.855 | 471.135 |
| 17.5 | 1909.215 | 1800.750 | 1492.680 | 1088.850 | 790.230 | 585.060 | 486.675 | 441.840 | 428.820 | 441.840 |
| 20.0 | 2064.720 | 1956.150 | 1610.595 | 1127.910 | 778.785 | 557.235 | 459.270 | 417.480 | 404.880 | 417.480 |
| 22.5 | 2177.385 | 2081.625 | 1724.940 | 1166.865 | 767.760 | 531.195 | 436.590 | 397.950 | 387.030 | 397.950 |
| 25.0 | 2242.380 | 2168.250 | 1828.995 | 1204.035 | 751.065 | 507.045 | 414.855 | 380.310 | 370.440 | 380.310 |
| 27.5 | 2256.450 | 2210.985 | 1913.625 | 1237.110 | 734.790 | 483.945 | 396.795 | 364.875 | 356.895 | 364.875 |
| 30.0 | 2217.600 | 2203.005 | 1973.055 | 1268.610 | 716.835 | 461.580 | 379.680 | 350.700 | 344.715 | 350.700 |
| 32.5 | 2128.035 | 2143.470 | 1992.690 | 1295.910 | 696.885 | 440.580 | 362.880 | 339.045 | 332.850 | 339.045 |
| 35.0 | 2004.135 | 2042.880 | 1988.385 | 1315.230 | 675.885 | 420.630 | 348.600 | 327.600 | 321.405 | 327.600 |
| 37.5 | 1861.440 | 1909.635 | 1942.185 | 1327.305 | 653.940 | 402.150 | 335.055 | 315.840 | 309.645 | 315.840 |
| 40.0 | 1714.335 | 1763.055 | 1863.435 | 1330.875 | 629.685 | 383.565 | 320.565 | 303.450 | 297.255 | 303.450 |
| 42.5 | 1569.015 | 1616.265 | 1752.135 | 1322.265 | 603.225 | 365.820 | 307.125 | 290.745 | 284.025 | 290.745 |
| 45.0 | 1425.900 | 1470.000 | 1618.155 | 1300.110 | 574.980 | 347.865 | 293.370 | 276.780 | 270.690 | 276.780 |
| 47.5 | 1285.200 | 1330.455 | 1472.520 | 1262.415 | 545.580 | 328.965 | 278.250 | 262.710 | 255.465 | 262.710 |
| 50.0 | 1151.850 | 1192.380 | 1325.940 | 1208.655 | 514.500 | 309.960 | 263.340 | 247.905 | 239.610 | 247.905 |
| 52.5 | 1025.430 | 1060.080 | 1180.200 | 1137.570 | 481.320 | 289.800 | 247.275 | 232.365 | 224.280 | 232.365 |
| 55.0 | 906.360 | 934.920 | 1040.025 | 1050.210 | 445.830 | 268.905 | 230.790 | 216.300 | 208.740 | 216.300 |
| 57.5 | 791.700 | 818.895 | 909.510 | 950.040 | 408.030 | 247.380 | 213.255 | 199.920 | 192.465 | 199.920 |
| 60.0 | 683.655 | 713.370 | 788.550 | 841.785 | 368.655 | 225.225 | 194.985 | 182.805 | 176.400 | 182.805 |
| 62.5 | 580.650 | 610.890 | 679.560 | 732.795 | 329.385 | 202.440 | 176.715 | 165.795 | 159.390 | 165.795 |
| 65.0 | 486.045 | 515.340 | 579.705 | 626.850 | 290.220 | 179.445 | 158.235 | 148.365 | 142.695 | 148.365 |
| 67.5 | 400.785 | 425.460 | 486.465 | 526.260 | 251.580 | 156.450 | 139.650 | 130.935 | 126.000 | 130.935 |
| 70.0 | 323.925 | 343.455 | 399.420 | 431.865 | 213.570 | 133.455 | 120.750 | 113.190 | 108.885 | 113.190 |
| 72.5 | 254.835 | 270.690 | 319.515 | 347.025 | 176.085 | 110.355 | 101.745 | 95.130 | 92.190 | 95.130 |
| 75.0 | 195.195 | 208.425 | 247.905 | 270.900 | 140.280 | 88.095 | 82.635 | 77.280 | 75.180 | 77.280 |
| 77.5 | 144.480 | 155.085 | 184.590 | 204.330 | 107.205 | 66.990 | 64.365 | 60.585 | 59.010 | 60.585 |
| 80.0 | 102.480 | 109.515 | 129.780 | 145.635 | 76.860 | 47.775 | 46.830 | 44.520 | 43.680 | 44.520 |
| 82.5 | 67.830 | 71.295 | 83.580 | 94.605 | 49.770 | 30.450 | 30.975 | 30.450 | 29.925 | 30.450 |
| 85.0 | 40.845 | 41.475 | 46.830 | 52.080 | 27.405 | 16.275 | 17.220 | 17.850 | 17.745 | 17.850 |
| 87.5 | 21.210 | 21.000 | 21.630 | 21.525 | 10.395 | 5.145 | 6.720 | 7.875 | 8.190 | 7.875 |
| 90.0 | 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> |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 | 823.935 |
| 2.5 | 752.430 | 779.310 | 827.715 | 854.700 | 888.825 | 908.880 | 911.505 |
| 5.0 | 693.525 | 743.820 | 825.405 | 892.185 | 966.420 | 1017.660 | 1028.370 |
| 7.5 | 641.130 | 709.800 | 821.310 | 930.615 | 1051.785 | 1141.455 | 1167.075 |
| 10.0 | 595.350 | 678.300 | 816.585 | 969.465 | 1147.545 | 1285.305 | 1330.455 |
| 12.5 | 554.505 | 646.695 | 811.860 | 1012.095 | 1254.540 | 1449.735 | 1518.615 |
| 15.0 | 518.280 | 614.670 | 800.940 | 1050.000 | 1372.245 | 1625.610 | 1719.900 |
| 17.5 | 486.675 | 585.060 | 790.230 | 1088.850 | 1492.680 | 1800.750 | 1909.215 |
| 20.0 | 459.270 | 557.235 | 778.785 | 1127.910 | 1610.595 | 1956.150 | 2064.720 |
| 22.5 | 436.590 | 531.195 | 767.760 | 1166.865 | 1724.940 | 2081.625 | 2177.385 |
| 25.0 | 414.855 | 507.045 | 751.065 | 1204.035 | 1828.995 | 2168.250 | 2242.380 |
| 27.5 | 396.795 | 483.945 | 734.790 | 1237.110 | 1913.625 | 2210.985 | 2256.450 |
| 30.0 | 379.680 | 461.580 | 716.835 | 1268.610 | 1973.055 | 2203.005 | 2217.600 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------------|---------|---------|---------|----------|----------|----------|----------|
| 32.5 | 362.880 | 440.580 | 696.885 | 1295.910 | 1992.690 | 2143.470 | 2128.035 |
| 35.0 | 348.600 | 420.630 | 675.885 | 1315.230 | 1988.385 | 2042.880 | 2004.135 |
| 37.5 | 335.055 | 402.150 | 653.940 | 1327.305 | 1942.185 | 1909.635 | 1861.440 |
| 40.0 | 320.565 | 383.565 | 629.685 | 1330.875 | 1863.435 | 1763.055 | 1714.335 |
| 42.5 | 307.125 | 365.820 | 603.225 | 1322.265 | 1752.135 | 1616.265 | 1569.015 |
| 45.0 | 293.370 | 347.865 | 574.980 | 1300.110 | 1618.155 | 1470.000 | 1425.900 |
| 47.5 | 278.250 | 328.965 | 545.580 | 1262.415 | 1472.520 | 1330.455 | 1285.200 |
| 50.0 | 263.340 | 309.960 | 514.500 | 1208.655 | 1325.940 | 1192.380 | 1151.850 |
| 52.5 | 247.275 | 289.800 | 481.320 | 1137.570 | 1180.200 | 1060.080 | 1025.430 |
| 55.0 | 230.790 | 268.905 | 445.830 | 1050.210 | 1040.025 | 934.920 | 906.360 |
| 57.5 | 213.255 | 247.380 | 408.030 | 950.040 | 909.510 | 818.895 | 791.700 |
| 60.0 | 194.985 | 225.225 | 368.655 | 841.785 | 788.550 | 713.370 | 683.655 |
| 62.5 | 176.715 | 202.440 | 329.385 | 732.795 | 679.560 | 610.890 | 580.650 |
| 65.0 | 158.235 | 179.445 | 290.220 | 626.850 | 579.705 | 515.340 | 486.045 |
| 67.5 | 139.650 | 156.450 | 251.580 | 526.260 | 486.465 | 425.460 | 400.785 |
| 70.0 | 120.750 | 133.455 | 213.570 | 431.865 | 399.420 | 343.455 | 323.925 |
| 72.5 | 101.745 | 110.355 | 176.085 | 347.025 | 319.515 | 270.690 | 254.835 |
| 75.0 | 82.635 | 88.095 | 140.280 | 270.900 | 247.905 | 208.425 | 195.195 |
| 77.5 | 64.365 | 66.990 | 107.205 | 204.330 | 184.590 | 155.085 | 144.480 |
| 80.0 | 46.830 | 47.775 | 76.860 | 145.635 | 129.780 | 109.515 | 102.480 |
| 82.5 | 30.975 | 30.450 | 49.770 | 94.605 | 83.580 | 71.295 | 67.830 |
| 85.0 | 17.220 | 16.275 | 27.405 | 52.080 | 46.830 | 41.475 | 40.845 |
| 87.5 | 6.720 | 5.145 | 10.395 | 21.525 | 21.630 | 21.000 | 21.210 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 350.16 | N.A. | 10.90 |
| 0-30 | 842.62 | N.A. | 26.20 |
| 0-40 | 1486.37 | N.A. | 46.20 |
| 0-60 | 2663.81 | N.A. | 82.70 |
| 0-80 | 3181.91 | N.A. | 98.80 |
| 0-90 | 3220.48 | N.A. | 100.00 |
| 10-90 | 3139.95 | N.A. | 97.50 |
| 20-40 | 1136.21 | N.A. | 35.30 |
| 20-50 | 1783.43 | N.A. | 55.40 |
| 40-70 | 1527.15 | N.A. | 47.40 |
| 60-80 | 518.10 | N.A. | 16.10 |
| 70-80 | 168.40 | N.A. | 5.20 |
| 80-90 | 38.57 | N.A. | 1.20 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3220.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 80.53 |
| 10-20 | 269.63 |
| 20-30 | 492.46 |
| 30-40 | 643.74 |
| 40-50 | 647.23 |
| 50-60 | 530.22 |
| 60-70 | 349.71 |
| 70-80 | 168.40 |
| 80-90 | 38.57 |
| 90-100 | 0.00 |
| 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 |

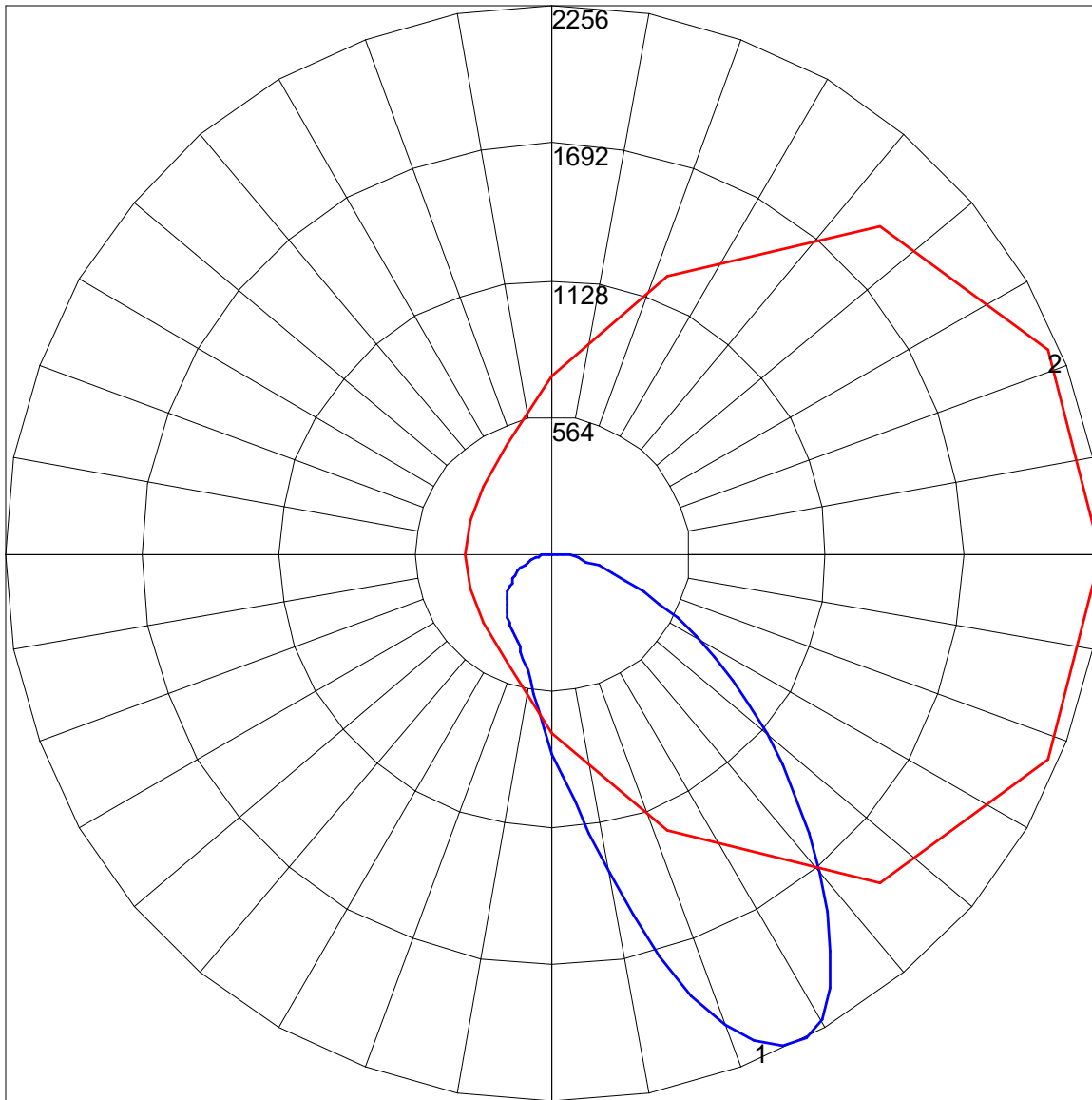
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 2256.45 Located At Horizontal Angle = 0, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)