



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-FLSH-LED3-MO-04-AWL-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32216

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING

[LUMCAT]BIO-PSTD-FLSH-LED35-MO-04-AWL-D1R

[LUMINAIRE]WITH WHITE INTERIOR AND PRISMATIC PLASTIC FLAT LENS

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2327 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 97 |
| Total Luminaire Watts | 24 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.96 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.58 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.33 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 | 10323 | 12280 | 5466 |
| 55 | 8129 | 9161 | 5178 |
| 65 | 6331 | 6867 | 4462 |
| 75 | 4488 | 4883 | 3339 |
| 85 | 1979 | 2334 | 1679 |

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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 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 |
| 2.5 | 733.723 | 730.949 | 718.612 | 696.128 | 673.717 | 644.079 | 624.223 | 607.579 | 600.571 | 607.579 |
| 5.0 | 805.263 | 796.357 | 766.938 | 720.510 | 672.111 | 617.653 | 579.401 | 551.807 | 541.368 | 551.807 |
| 7.5 | 887.607 | 868.554 | 817.454 | 744.454 | 669.118 | 591.957 | 537.864 | 503.116 | 491.290 | 503.116 |
| 10.0 | 993.384 | 958.855 | 873.591 | 768.252 | 665.322 | 566.845 | 501.072 | 460.922 | 447.417 | 460.922 |
| 12.5 | 1135.953 | 1077.261 | 940.532 | 791.393 | 659.920 | 541.660 | 466.105 | 423.035 | 408.070 | 423.035 |
| 15.0 | 1318.234 | 1229.101 | 1018.423 | 814.461 | 653.496 | 516.694 | 433.620 | 388.141 | 372.592 | 388.141 |
| 17.5 | 1518.692 | 1404.009 | 1112.958 | 836.799 | 646.926 | 493.042 | 402.814 | 356.021 | 341.056 | 356.021 |
| 20.0 | 1689.877 | 1576.581 | 1223.407 | 861.619 | 637.801 | 467.492 | 374.052 | 327.770 | 314.192 | 327.770 |
| 22.5 | 1790.471 | 1710.244 | 1346.120 | 884.614 | 627.435 | 443.621 | 348.064 | 303.826 | 291.927 | 303.826 |
| 25.0 | 1776.966 | 1769.593 | 1468.833 | 911.551 | 616.120 | 420.553 | 324.777 | 283.897 | 273.823 | 283.897 |
| 27.5 | 1707.470 | 1745.138 | 1561.032 | 939.948 | 604.294 | 398.288 | 303.461 | 267.253 | 258.931 | 267.253 |
| 30.0 | 1578.844 | 1647.537 | 1609.285 | 968.856 | 589.767 | 376.096 | 284.408 | 253.456 | 246.740 | 253.456 |
| 32.5 | 1439.925 | 1513.801 | 1606.073 | 996.523 | 574.510 | 354.488 | 267.253 | 241.484 | 235.644 | 241.484 |
| 35.0 | 1313.197 | 1377.802 | 1552.783 | 1022.511 | 557.866 | 333.464 | 252.507 | 230.607 | 224.913 | 230.607 |
| 37.5 | 1197.346 | 1250.490 | 1452.189 | 1043.316 | 539.470 | 314.119 | 239.148 | 220.241 | 213.598 | 220.241 |
| 40.0 | 1090.547 | 1133.982 | 1324.877 | 1054.047 | 519.541 | 295.723 | 227.103 | 209.948 | 201.626 | 209.948 |
| 42.5 | 990.464 | 1027.694 | 1192.820 | 1050.689 | 497.787 | 278.203 | 215.496 | 198.706 | 188.851 | 198.706 |
| 45.0 | 896.002 | 927.465 | 1065.873 | 1028.716 | 474.427 | 261.121 | 204.546 | 186.807 | 175.565 | 186.807 |
| 47.5 | 807.234 | 834.244 | 949.073 | 993.311 | 449.534 | 244.550 | 193.523 | 174.543 | 162.717 | 174.543 |
| 50.0 | 724.525 | 746.133 | 840.595 | 938.999 | 422.743 | 228.125 | 182.865 | 161.914 | 150.234 | 161.914 |
| 52.5 | 646.342 | 664.081 | 739.271 | 868.116 | 394.638 | 212.357 | 171.331 | 149.431 | 138.773 | 149.431 |
| 55.0 | 572.320 | 586.920 | 644.955 | 784.896 | 364.562 | 196.370 | 159.505 | 137.240 | 127.969 | 137.240 |
| 57.5 | 502.897 | 516.183 | 560.713 | 697.296 | 332.515 | 180.237 | 147.168 | 125.633 | 117.165 | 125.633 |
| 60.0 | 439.606 | 451.578 | 486.107 | 608.674 | 299.154 | 163.739 | 134.101 | 113.953 | 106.507 | 113.953 |
| 62.5 | 382.228 | 392.083 | 418.071 | 522.242 | 265.209 | 146.803 | 120.742 | 102.273 | 95.703 | 102.273 |
| 65.0 | 328.427 | 336.457 | 356.240 | 439.606 | 231.483 | 129.940 | 107.821 | 90.739 | 85.118 | 90.739 |
| 67.5 | 276.670 | 283.386 | 298.424 | 362.226 | 198.487 | 113.661 | 94.754 | 79.424 | 74.752 | 79.424 |
| 70.0 | 227.541 | 234.184 | 245.645 | 292.730 | 166.294 | 97.382 | 81.541 | 68.328 | 64.386 | 68.328 |
| 72.5 | 182.865 | 189.070 | 198.049 | 232.140 | 135.196 | 81.030 | 68.036 | 57.451 | 54.239 | 57.451 |
| 75.0 | 142.569 | 147.898 | 155.125 | 179.069 | 106.069 | 64.751 | 54.604 | 46.501 | 43.946 | 46.501 |
| 77.5 | 105.996 | 110.376 | 116.143 | 132.860 | 79.570 | 49.056 | 41.756 | 35.770 | 33.945 | 35.770 |
| 80.0 | 73.292 | 76.577 | 80.811 | 92.126 | 55.918 | 34.529 | 29.857 | 25.696 | 24.601 | 25.696 |
| 82.5 | 44.311 | 46.647 | 50.005 | 57.086 | 35.113 | 21.827 | 19.272 | 16.790 | 16.206 | 16.790 |
| 85.0 | 21.170 | 22.703 | 24.966 | 29.200 | 17.958 | 11.388 | 10.439 | 9.344 | 8.979 | 9.344 |
| 87.5 | 6.059 | 6.789 | 7.884 | 10.074 | 5.986 | 3.723 | 3.650 | 3.723 | 3.650 | 3.723 |
| 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 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 | 673.571 |
| 2.5 | 624.223 | 644.079 | 673.717 | 696.128 | 718.612 | 730.949 | 733.723 |
| 5.0 | 579.401 | 617.653 | 672.111 | 720.510 | 766.938 | 796.357 | 805.263 |
| 7.5 | 537.864 | 591.957 | 669.118 | 744.454 | 817.454 | 868.554 | 887.607 |
| 10.0 | 501.072 | 566.845 | 665.322 | 768.252 | 873.591 | 958.855 | 993.384 |
| 12.5 | 466.105 | 541.660 | 659.920 | 791.393 | 940.532 | 1077.261 | 1135.953 |
| 15.0 | 433.620 | 516.694 | 653.496 | 814.461 | 1018.423 | 1229.101 | 1318.234 |
| 17.5 | 402.814 | 493.042 | 646.926 | 836.799 | 1112.958 | 1404.009 | 1518.692 |
| 20.0 | 374.052 | 467.492 | 637.801 | 861.619 | 1223.407 | 1576.581 | 1689.877 |
| 22.5 | 348.064 | 443.621 | 627.435 | 884.614 | 1346.120 | 1710.244 | 1790.471 |
| 25.0 | 324.777 | 420.553 | 616.120 | 911.551 | 1468.833 | 1769.593 | 1776.966 |
| 27.5 | 303.461 | 398.288 | 604.294 | 939.948 | 1561.032 | 1745.138 | 1707.470 |
| 30.0 | 284.408 | 376.096 | 589.767 | 968.856 | 1609.285 | 1647.537 | 1578.844 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------------|---------|---------|---------|----------|----------|----------|----------|
| 32.5 | 267.253 | 354.488 | 574.510 | 996.523 | 1606.073 | 1513.801 | 1439.925 |
| 35.0 | 252.507 | 333.464 | 557.866 | 1022.511 | 1552.783 | 1377.802 | 1313.197 |
| 37.5 | 239.148 | 314.119 | 539.470 | 1043.316 | 1452.189 | 1250.490 | 1197.346 |
| 40.0 | 227.103 | 295.723 | 519.541 | 1054.047 | 1324.877 | 1133.982 | 1090.547 |
| 42.5 | 215.496 | 278.203 | 497.787 | 1050.689 | 1192.820 | 1027.694 | 990.464 |
| 45.0 | 204.546 | 261.121 | 474.427 | 1028.716 | 1065.873 | 927.465 | 896.002 |
| 47.5 | 193.523 | 244.550 | 449.534 | 993.311 | 949.073 | 834.244 | 807.234 |
| 50.0 | 182.865 | 228.125 | 422.743 | 938.999 | 840.595 | 746.133 | 724.525 |
| 52.5 | 171.331 | 212.357 | 394.638 | 868.116 | 739.271 | 664.081 | 646.342 |
| 55.0 | 159.505 | 196.370 | 364.562 | 784.896 | 644.955 | 586.920 | 572.320 |
| 57.5 | 147.168 | 180.237 | 332.515 | 697.296 | 560.713 | 516.183 | 502.897 |
| 60.0 | 134.101 | 163.739 | 299.154 | 608.674 | 486.107 | 451.578 | 439.606 |
| 62.5 | 120.742 | 146.803 | 265.209 | 522.242 | 418.071 | 392.083 | 382.228 |
| 65.0 | 107.821 | 129.940 | 231.483 | 439.606 | 356.240 | 336.457 | 328.427 |
| 67.5 | 94.754 | 113.661 | 198.487 | 362.226 | 298.424 | 283.386 | 276.670 |
| 70.0 | 81.541 | 97.382 | 166.294 | 292.730 | 245.645 | 234.184 | 227.541 |
| 72.5 | 68.036 | 81.030 | 135.196 | 232.140 | 198.049 | 189.070 | 182.865 |
| 75.0 | 54.604 | 64.751 | 106.069 | 179.069 | 155.125 | 147.898 | 142.569 |
| 77.5 | 41.756 | 49.056 | 79.570 | 132.860 | 116.143 | 110.376 | 105.996 |
| 80.0 | 29.857 | 34.529 | 55.918 | 92.126 | 80.811 | 76.577 | 73.292 |
| 82.5 | 19.272 | 21.827 | 35.113 | 57.086 | 50.005 | 46.647 | 44.311 |
| 85.0 | 10.439 | 11.388 | 17.958 | 29.200 | 24.966 | 22.703 | 21.170 |
| 87.5 | 3.650 | 3.723 | 5.986 | 10.074 | 7.884 | 6.789 | 6.059 |
| 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 | 276.83 | N.A. | 11.90 |
| 0-30 | 666.02 | N.A. | 28.60 |
| 0-40 | 1140.76 | N.A. | 49.00 |
| 0-60 | 1953.48 | N.A. | 84.00 |
| 0-80 | 2303.25 | N.A. | 99.00 |
| 0-90 | 2326.6 | N.A. | 100.00 |
| 10-90 | 2261.89 | N.A. | 97.20 |
| 20-40 | 863.93 | N.A. | 37.10 |
| 20-50 | 1315.66 | N.A. | 56.50 |
| 40-70 | 1048.84 | N.A. | 45.10 |
| 60-80 | 349.77 | N.A. | 15.00 |
| 70-80 | 113.64 | N.A. | 4.90 |
| 80-90 | 23.35 | N.A. | 1.00 |
| 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 | 2326.6 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 64.71 |
| 10-20 | 212.13 |
| 20-30 | 389.19 |
| 30-40 | 474.74 |
| 40-50 | 451.73 |
| 50-60 | 360.99 |
| 60-70 | 236.12 |
| 70-80 | 113.64 |
| 80-90 | 23.35 |
| 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 |

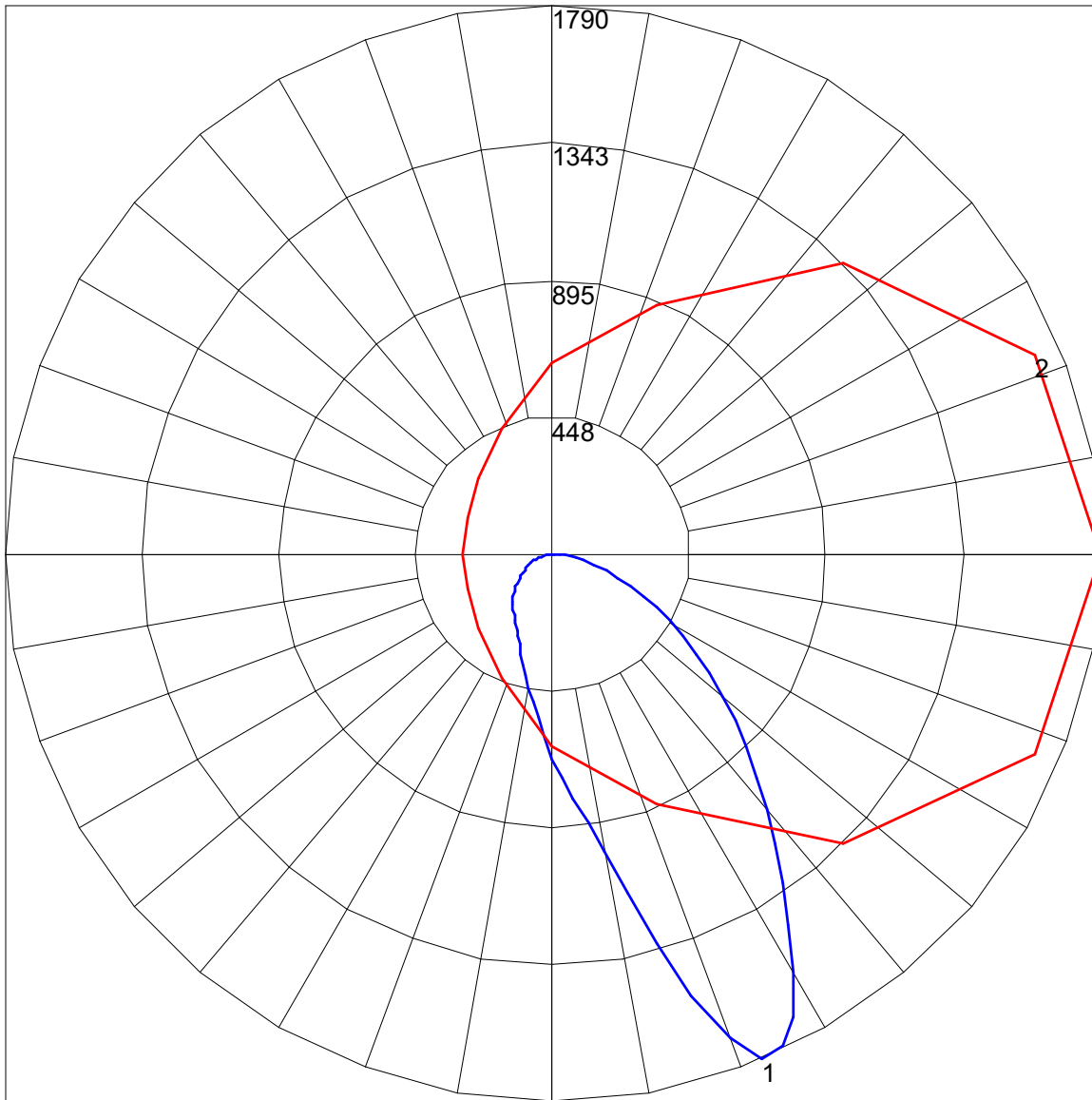
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 55 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 1790.471 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)