



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-AWL-D1R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]32273

[TESTLAB]

[ISSUE DATE]

[MANUFAC]PRUDENTIAL LIGHTING - LED WALL WASH

[LUMCAT] BIO-LIN-STD-FLSH-LED3HO-04-AWL-D1W

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3681 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| Total Luminaire Watts | 40 |
| 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 | 20653 | 23437 | 8328 |
| 55 | 16184 | 18571 | 7961 |
| 65 | 11779 | 14049 | 7033 |
| 75 | 7724 | 9810 | 5551 |
| 85 | 4800 | 5503 | 3220 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-AWL-D1R.IES

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 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 |
| 2.5 | 1041.72 | 1038.72 | 1015.80 | 976.80 | 945.96 | 890.64 | 859.92 | 835.32 | 824.28 | 835.32 |
| 5.0 | 1175.28 | 1163.04 | 1104.48 | 1019.64 | 943.32 | 850.08 | 792.60 | 753.72 | 738.12 | 753.72 |
| 7.5 | 1333.80 | 1304.52 | 1202.04 | 1063.56 | 938.64 | 811.20 | 732.72 | 684.84 | 668.16 | 684.84 |
| 10.0 | 1520.52 | 1468.92 | 1311.48 | 1107.96 | 933.24 | 775.20 | 680.40 | 627.00 | 609.96 | 627.00 |
| 12.5 | 1735.56 | 1656.84 | 1433.76 | 1156.68 | 927.84 | 739.08 | 633.72 | 578.64 | 561.72 | 578.64 |
| 15.0 | 1965.60 | 1857.84 | 1568.28 | 1200.00 | 915.36 | 702.48 | 592.32 | 538.44 | 522.12 | 538.44 |
| 17.5 | 2181.96 | 2058.00 | 1705.92 | 1244.40 | 903.12 | 668.64 | 556.20 | 504.96 | 490.08 | 504.96 |
| 20.0 | 2359.68 | 2235.60 | 1840.68 | 1289.04 | 890.04 | 636.84 | 524.88 | 477.12 | 462.72 | 477.12 |
| 22.5 | 2488.44 | 2379.00 | 1971.36 | 1333.56 | 877.44 | 607.08 | 498.96 | 454.80 | 442.32 | 454.80 |
| 25.0 | 2562.72 | 2478.00 | 2090.28 | 1376.04 | 858.36 | 579.48 | 474.12 | 434.64 | 423.36 | 434.64 |
| 27.5 | 2578.80 | 2526.84 | 2187.00 | 1413.84 | 839.76 | 553.08 | 453.48 | 417.00 | 407.88 | 417.00 |
| 30.0 | 2534.40 | 2517.72 | 2254.92 | 1449.84 | 819.24 | 527.52 | 433.92 | 400.80 | 393.96 | 400.80 |
| 32.5 | 2432.04 | 2449.68 | 2277.36 | 1481.04 | 796.44 | 503.52 | 414.72 | 387.48 | 380.40 | 387.48 |
| 35.0 | 2290.44 | 2334.72 | 2272.44 | 1503.12 | 772.44 | 480.72 | 398.40 | 374.40 | 367.32 | 374.40 |
| 37.5 | 2127.36 | 2182.44 | 2219.64 | 1516.92 | 747.36 | 459.60 | 382.92 | 360.96 | 353.88 | 360.96 |
| 40.0 | 1959.24 | 2014.92 | 2129.64 | 1521.00 | 719.64 | 438.36 | 366.36 | 346.80 | 339.72 | 346.80 |
| 42.5 | 1793.16 | 1847.16 | 2002.44 | 1511.16 | 689.40 | 418.08 | 351.00 | 332.28 | 324.60 | 332.28 |
| 45.0 | 1629.60 | 1680.00 | 1849.32 | 1485.84 | 657.12 | 397.56 | 335.28 | 316.32 | 309.36 | 316.32 |
| 47.5 | 1468.80 | 1520.52 | 1682.88 | 1442.76 | 623.52 | 375.96 | 318.00 | 300.24 | 291.96 | 300.24 |
| 50.0 | 1316.40 | 1362.72 | 1515.36 | 1381.32 | 588.00 | 354.24 | 300.96 | 283.32 | 273.84 | 283.32 |
| 52.5 | 1171.92 | 1211.52 | 1348.80 | 1300.08 | 550.08 | 331.20 | 282.60 | 265.56 | 256.32 | 265.56 |
| 55.0 | 1035.84 | 1068.48 | 1188.60 | 1200.24 | 509.52 | 307.32 | 263.76 | 247.20 | 238.56 | 247.20 |
| 57.5 | 904.80 | 935.88 | 1039.44 | 1085.76 | 466.32 | 282.72 | 243.72 | 228.48 | 219.96 | 228.48 |
| 60.0 | 781.32 | 815.28 | 901.20 | 962.04 | 421.32 | 257.40 | 222.84 | 208.92 | 201.60 | 208.92 |
| 62.5 | 663.60 | 698.16 | 776.64 | 837.48 | 376.44 | 231.36 | 201.96 | 189.48 | 182.16 | 189.48 |
| 65.0 | 555.48 | 588.96 | 662.52 | 716.40 | 331.68 | 205.08 | 180.84 | 169.56 | 163.08 | 169.56 |
| 67.5 | 458.04 | 486.24 | 555.96 | 601.44 | 287.52 | 178.80 | 159.60 | 149.64 | 144.00 | 149.64 |
| 70.0 | 370.20 | 392.52 | 456.48 | 493.56 | 244.08 | 152.52 | 138.00 | 129.36 | 124.44 | 129.36 |
| 72.5 | 291.24 | 309.36 | 365.16 | 396.60 | 201.24 | 126.12 | 116.28 | 108.72 | 105.36 | 108.72 |
| 75.0 | 223.08 | 238.20 | 283.32 | 309.60 | 160.32 | 100.68 | 94.44 | 88.32 | 85.92 | 88.32 |
| 77.5 | 165.12 | 177.24 | 210.96 | 233.52 | 122.52 | 76.56 | 73.56 | 69.24 | 67.44 | 69.24 |
| 80.0 | 117.12 | 125.16 | 148.32 | 166.44 | 87.84 | 54.60 | 53.52 | 50.88 | 49.92 | 50.88 |
| 82.5 | 77.52 | 81.48 | 95.52 | 108.12 | 56.88 | 34.80 | 35.40 | 34.80 | 34.20 | 34.80 |
| 85.0 | 46.68 | 47.40 | 53.52 | 59.52 | 31.32 | 18.60 | 19.68 | 20.40 | 20.28 | 20.40 |
| 87.5 | 24.24 | 24.00 | 24.72 | 24.60 | 11.88 | 5.88 | 7.68 | 9.00 | 9.36 | 9.00 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 | 941.64 |
| 2.5 | 859.92 | 890.64 | 945.96 | 976.80 | 1015.80 | 1038.72 | 1041.72 |
| 5.0 | 792.60 | 850.08 | 943.32 | 1019.64 | 1104.48 | 1163.04 | 1175.28 |
| 7.5 | 732.72 | 811.20 | 938.64 | 1063.56 | 1202.04 | 1304.52 | 1333.80 |
| 10.0 | 680.40 | 775.20 | 933.24 | 1107.96 | 1311.48 | 1468.92 | 1520.52 |
| 12.5 | 633.72 | 739.08 | 927.84 | 1156.68 | 1433.76 | 1656.84 | 1735.56 |
| 15.0 | 592.32 | 702.48 | 915.36 | 1200.00 | 1568.28 | 1857.84 | 1965.60 |
| 17.5 | 556.20 | 668.64 | 903.12 | 1244.40 | 1705.92 | 2058.00 | 2181.96 |
| 20.0 | 524.88 | 636.84 | 890.04 | 1289.04 | 1840.68 | 2235.60 | 2359.68 |
| 22.5 | 498.96 | 607.08 | 877.44 | 1333.56 | 1971.36 | 2379.00 | 2488.44 |
| 25.0 | 474.12 | 579.48 | 858.36 | 1376.04 | 2090.28 | 2478.00 | 2562.72 |
| 27.5 | 453.48 | 553.08 | 839.76 | 1413.84 | 2187.00 | 2526.84 | 2578.80 |
| 30.0 | 433.92 | 527.52 | 819.24 | 1449.84 | 2254.92 | 2517.72 | 2534.40 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-AWL-D1R.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------------|--------|--------|--------|---------|---------|---------|---------|
| 32.5 | 414.72 | 503.52 | 796.44 | 1481.04 | 2277.36 | 2449.68 | 2432.04 |
| 35.0 | 398.40 | 480.72 | 772.44 | 1503.12 | 2272.44 | 2334.72 | 2290.44 |
| 37.5 | 382.92 | 459.60 | 747.36 | 1516.92 | 2219.64 | 2182.44 | 2127.36 |
| 40.0 | 366.36 | 438.36 | 719.64 | 1521.00 | 2129.64 | 2014.92 | 1959.24 |
| 42.5 | 351.00 | 418.08 | 689.40 | 1511.16 | 2002.44 | 1847.16 | 1793.16 |
| 45.0 | 335.28 | 397.56 | 657.12 | 1485.84 | 1849.32 | 1680.00 | 1629.60 |
| 47.5 | 318.00 | 375.96 | 623.52 | 1442.76 | 1682.88 | 1520.52 | 1468.80 |
| 50.0 | 300.96 | 354.24 | 588.00 | 1381.32 | 1515.36 | 1362.72 | 1316.40 |
| 52.5 | 282.60 | 331.20 | 550.08 | 1300.08 | 1348.80 | 1211.52 | 1171.92 |
| 55.0 | 263.76 | 307.32 | 509.52 | 1200.24 | 1188.60 | 1068.48 | 1035.84 |
| 57.5 | 243.72 | 282.72 | 466.32 | 1085.76 | 1039.44 | 935.88 | 904.80 |
| 60.0 | 222.84 | 257.40 | 421.32 | 962.04 | 901.20 | 815.28 | 781.32 |
| 62.5 | 201.96 | 231.36 | 376.44 | 837.48 | 776.64 | 698.16 | 663.60 |
| 65.0 | 180.84 | 205.08 | 331.68 | 716.40 | 662.52 | 588.96 | 555.48 |
| 67.5 | 159.60 | 178.80 | 287.52 | 601.44 | 555.96 | 486.24 | 458.04 |
| 70.0 | 138.00 | 152.52 | 244.08 | 493.56 | 456.48 | 392.52 | 370.20 |
| 72.5 | 116.28 | 126.12 | 201.24 | 396.60 | 365.16 | 309.36 | 291.24 |
| 75.0 | 94.44 | 100.68 | 160.32 | 309.60 | 283.32 | 238.20 | 223.08 |
| 77.5 | 73.56 | 76.56 | 122.52 | 233.52 | 210.96 | 177.24 | 165.12 |
| 80.0 | 53.52 | 54.60 | 87.84 | 166.44 | 148.32 | 125.16 | 117.12 |
| 82.5 | 35.40 | 34.80 | 56.88 | 108.12 | 95.52 | 81.48 | 77.52 |
| 85.0 | 19.68 | 18.60 | 31.32 | 59.52 | 53.52 | 47.40 | 46.68 |
| 87.5 | 7.68 | 5.88 | 11.88 | 24.60 | 24.72 | 24.00 | 24.24 |
| 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-AWL-D1R.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 400.18 | N.A. | 10.90 |
| 0-30 | 963.00 | N.A. | 26.20 |
| 0-40 | 1698.71 | N.A. | 46.20 |
| 0-60 | 3044.36 | N.A. | 82.70 |
| 0-80 | 3636.47 | N.A. | 98.80 |
| 0-90 | 3680.55 | N.A. | 100.00 |
| 10-90 | 3588.51 | N.A. | 97.50 |
| 20-40 | 1298.52 | N.A. | 35.30 |
| 20-50 | 2038.21 | N.A. | 55.40 |
| 40-70 | 1745.32 | N.A. | 47.40 |
| 60-80 | 592.12 | N.A. | 16.10 |
| 70-80 | 192.45 | N.A. | 5.20 |
| 80-90 | 44.08 | 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 | 3680.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 92.04 |
| 10-20 | 308.15 |
| 20-30 | 562.82 |
| 30-40 | 735.71 |
| 40-50 | 739.69 |
| 50-60 | 605.96 |
| 60-70 | 399.67 |
| 70-80 | 192.45 |
| 80-90 | 44.08 |
| 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 |

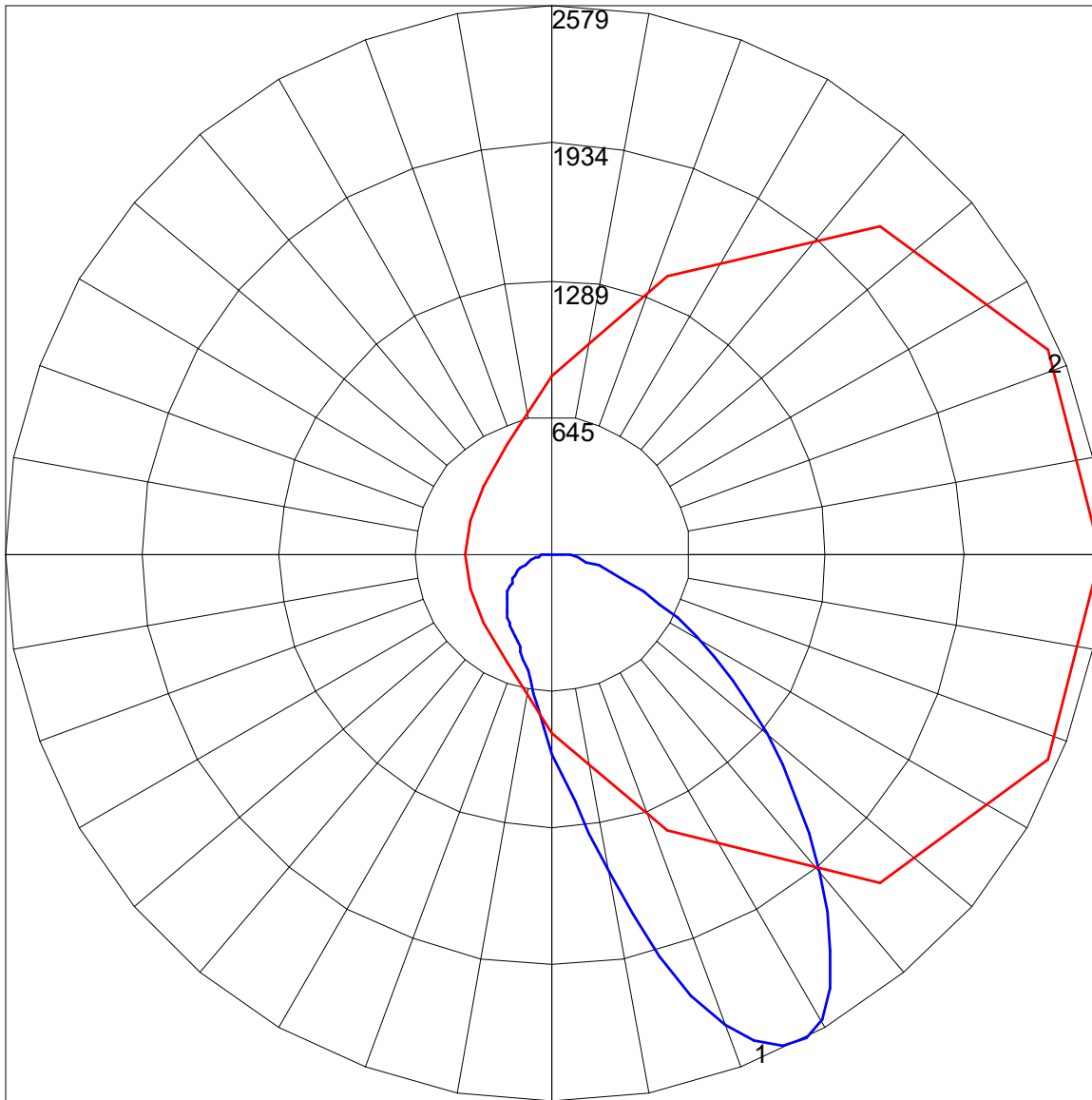
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-LIN-LED35-HO-04-AWL-D1R.IES

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 | 102 | 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 | 56 | 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 | 36 | 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 = 2578.8 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.)