



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-SO-SAL-D1-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 11476049.13
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 10/12/2016
 [MANUFAC] Prudential Lighting Corp
 [LUMCAT] Bio2-LIN-LED35-SO-SO-SAL-D1-CW
 [LUMINAIRE] Rectangular formed grey aluminum up/down housing with sing
 [MORE] le down sided internal aluminum reflectors and a single down sided fro
 [MORE] sted plastic lens
 [LAMP] 120 white LEDs Up & 120 white LEDs Down with four (4) rectangul
 [MORE] ar optics
 [BALLAST] One (1) OSRAM Optotronic OT50W/PRG1400C/UNV/DIM/L
 [OTHER] 25.9 C, 120.083 V, 0.4703 A, 56.2789 W, 0.9964 PF, 59.99 Hz
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7394 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| Total Luminaire Watts | 80 |
| 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 | Rectangular w/Sides |
| Luminous Length (0-180) | 0.23 ft |
| Luminous Width (90-270) | 4.00 ft |
| Luminous Height | 0.40 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3973 | 5417 | 13114 |
| 55 | 2644 | 3742 | 11112 |
| 65 | 1669 | 2410 | 8983 |
| 75 | 883 | 1288 | 6417 |
| 85 | 265 | 384 | 3054 |

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CANDELA TABULATION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|-------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1614.600 | 1614.600 | 1614.600 | 1614.600 | 1614.600 |
| 0.5 | 1628.100 | 1609.200 | 1610.550 | 1613.250 | 1603.800 |
| 1.0 | 1628.100 | 1611.900 | 1610.550 | 1609.200 | 1601.100 |
| 1.5 | 1628.100 | 1609.200 | 1609.200 | 1611.900 | 1601.100 |
| 2.0 | 1628.100 | 1609.200 | 1609.200 | 1610.550 | 1599.750 |
| 2.5 | 1624.050 | 1607.850 | 1605.150 | 1607.850 | 1598.400 |
| 3.0 | 1621.350 | 1605.150 | 1603.800 | 1607.850 | 1601.100 |
| 3.5 | 1618.650 | 1602.450 | 1603.800 | 1603.800 | 1598.400 |
| 4.0 | 1618.650 | 1601.100 | 1601.100 | 1601.100 | 1597.050 |
| 4.5 | 1614.600 | 1597.050 | 1598.400 | 1599.750 | 1597.050 |
| 5.0 | 1609.200 | 1594.350 | 1595.700 | 1602.450 | 1598.400 |
| 5.5 | 1609.200 | 1588.950 | 1593.000 | 1601.100 | 1593.000 |
| 6.0 | 1602.450 | 1583.550 | 1588.950 | 1598.400 | 1591.650 |
| 6.5 | 1597.050 | 1582.200 | 1587.600 | 1594.350 | 1583.550 |
| 7.0 | 1593.000 | 1575.450 | 1584.900 | 1587.600 | 1578.150 |
| 7.5 | 1586.250 | 1572.750 | 1580.850 | 1586.250 | 1576.800 |
| 8.0 | 1582.200 | 1567.350 | 1578.150 | 1579.500 | 1570.050 |
| 8.5 | 1576.800 | 1559.250 | 1571.400 | 1575.450 | 1571.400 |
| 9.0 | 1570.050 | 1552.500 | 1564.650 | 1570.050 | 1567.350 |
| 9.5 | 1563.300 | 1545.750 | 1559.250 | 1566.000 | 1563.300 |
| 10.0 | 1553.850 | 1540.350 | 1551.150 | 1561.950 | 1560.600 |
| 10.5 | 1545.750 | 1533.600 | 1541.700 | 1556.550 | 1552.500 |
| 11.0 | 1540.350 | 1525.500 | 1537.650 | 1552.500 | 1548.450 |
| 11.5 | 1528.200 | 1516.050 | 1530.900 | 1545.750 | 1541.700 |
| 12.0 | 1520.100 | 1509.300 | 1524.150 | 1540.350 | 1540.350 |
| 12.5 | 1510.650 | 1499.850 | 1514.700 | 1533.600 | 1533.600 |
| 13.0 | 1497.150 | 1491.750 | 1507.950 | 1526.850 | 1532.250 |
| 13.5 | 1489.050 | 1486.350 | 1501.200 | 1524.150 | 1528.200 |
| 14.0 | 1479.600 | 1474.200 | 1494.450 | 1518.750 | 1522.800 |
| 14.5 | 1471.500 | 1468.800 | 1482.300 | 1513.350 | 1513.350 |
| 15.0 | 1458.000 | 1458.000 | 1475.550 | 1507.950 | 1505.250 |
| 15.5 | 1449.900 | 1448.550 | 1468.800 | 1497.150 | 1498.500 |
| 16.0 | 1433.700 | 1437.750 | 1458.000 | 1490.400 | 1489.050 |
| 16.5 | 1426.950 | 1428.300 | 1448.550 | 1479.600 | 1483.650 |
| 17.0 | 1414.800 | 1416.150 | 1440.450 | 1472.850 | 1476.900 |
| 17.5 | 1402.650 | 1406.700 | 1432.350 | 1463.400 | 1471.500 |
| 18.0 | 1389.150 | 1393.200 | 1421.550 | 1456.650 | 1462.050 |
| 18.5 | 1381.050 | 1381.050 | 1413.450 | 1447.200 | 1453.950 |
| 19.0 | 1367.550 | 1370.250 | 1406.700 | 1439.100 | 1445.850 |
| 19.5 | 1354.050 | 1358.100 | 1398.600 | 1432.350 | 1436.400 |
| 20.0 | 1340.955 | 1345.410 | 1387.800 | 1422.900 | 1432.350 |
| 20.5 | 1327.590 | 1332.585 | 1377.000 | 1413.450 | 1425.600 |
| 21.0 | 1313.685 | 1319.760 | 1364.850 | 1405.350 | 1418.850 |
| 21.5 | 1300.050 | 1307.205 | 1351.350 | 1397.250 | 1414.800 |
| 22.0 | 1288.710 | 1294.110 | 1338.660 | 1389.150 | 1405.350 |
| 22.5 | 1273.995 | 1280.880 | 1326.645 | 1381.050 | 1391.850 |
| 23.0 | 1260.090 | 1268.055 | 1315.170 | 1375.650 | 1381.050 |
| 23.5 | 1245.375 | 1255.230 | 1303.560 | 1366.200 | 1372.950 |
| 24.0 | 1230.255 | 1241.325 | 1291.545 | 1354.050 | 1363.500 |
| 24.5 | 1215.135 | 1227.420 | 1279.530 | 1340.280 | 1354.050 |
| 25.0 | 1200.420 | 1213.515 | 1266.975 | 1327.860 | 1346.220 |
| 25.5 | 1184.760 | 1199.745 | 1254.015 | 1316.925 | 1337.040 |
| 26.0 | 1169.505 | 1185.975 | 1241.190 | 1306.395 | 1324.755 |
| 26.5 | 1155.195 | 1171.665 | 1228.365 | 1295.865 | 1313.685 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1140.345 | 1157.895 | 1215.810 | 1286.145 | 1303.290 |
| 27.5 | 1125.495 | 1143.585 | 1202.985 | 1274.670 | 1293.705 |
| 28.0 | 1111.050 | 1129.410 | 1190.835 | 1262.385 | 1286.415 |
| 28.5 | 1096.200 | 1115.505 | 1179.090 | 1250.235 | 1276.695 |
| 29.0 | 1081.350 | 1101.465 | 1168.425 | 1238.355 | 1264.680 |
| 29.5 | 1067.310 | 1087.020 | 1156.680 | 1227.690 | 1250.370 |
| 30.0 | 1052.730 | 1072.845 | 1144.260 | 1218.645 | 1236.735 |
| 30.5 | 1038.285 | 1058.805 | 1130.490 | 1208.520 | 1225.125 |
| 31.0 | 1023.840 | 1044.630 | 1115.100 | 1196.640 | 1213.515 |
| 31.5 | 1009.395 | 1030.725 | 1099.845 | 1182.195 | 1202.715 |
| 32.0 | 994.815 | 1016.145 | 1085.805 | 1167.075 | 1192.995 |
| 32.5 | 981.315 | 1002.510 | 1072.845 | 1153.980 | 1181.250 |
| 33.0 | 967.005 | 988.740 | 1059.480 | 1141.830 | 1167.615 |
| 33.5 | 952.965 | 974.700 | 1046.115 | 1129.815 | 1155.735 |
| 34.0 | 937.980 | 960.660 | 1032.750 | 1118.475 | 1146.690 |
| 34.5 | 924.345 | 946.620 | 1019.385 | 1106.595 | 1136.565 |
| 35.0 | 910.305 | 933.255 | 1006.425 | 1093.635 | 1123.335 |
| 35.5 | 896.265 | 919.890 | 993.060 | 1080.135 | 1108.890 |
| 36.0 | 882.225 | 905.985 | 979.695 | 1068.390 | 1094.445 |
| 36.5 | 867.915 | 892.620 | 966.060 | 1058.535 | 1081.215 |
| 37.0 | 853.875 | 879.525 | 953.235 | 1046.655 | 1067.985 |
| 37.5 | 840.780 | 865.620 | 939.870 | 1032.480 | 1055.970 |
| 38.0 | 827.685 | 852.525 | 927.180 | 1017.495 | 1045.845 |
| 38.5 | 814.725 | 839.430 | 913.680 | 1002.780 | 1034.775 |
| 39.0 | 801.090 | 827.010 | 900.315 | 989.820 | 1021.140 |
| 39.5 | 787.455 | 813.915 | 887.220 | 977.670 | 1009.665 |
| 40.0 | 773.820 | 801.225 | 874.395 | 965.925 | 998.055 |
| 40.5 | 761.130 | 787.860 | 861.165 | 953.775 | 984.285 |
| 41.0 | 747.630 | 775.575 | 847.935 | 941.490 | 968.085 |
| 41.5 | 735.750 | 762.885 | 835.380 | 928.395 | 954.450 |
| 42.0 | 723.195 | 750.060 | 822.825 | 918.270 | 940.950 |
| 42.5 | 710.910 | 738.855 | 810.000 | 905.445 | 928.665 |
| 43.0 | 699.570 | 725.895 | 797.715 | 890.730 | 915.840 |
| 43.5 | 687.285 | 713.610 | 784.890 | 875.475 | 906.255 |
| 44.0 | 675.405 | 701.730 | 772.605 | 861.165 | 895.725 |
| 44.5 | 664.065 | 689.580 | 760.320 | 848.745 | 882.765 |
| 45.0 | 653.130 | 678.240 | 748.035 | 836.190 | 868.050 |
| 45.5 | 642.465 | 666.090 | 735.750 | 824.580 | 851.310 |
| 46.0 | 630.045 | 654.750 | 723.195 | 813.915 | 838.485 |
| 46.5 | 620.460 | 643.005 | 711.720 | 803.790 | 824.715 |
| 47.0 | 609.120 | 631.665 | 699.165 | 789.885 | 812.835 |
| 47.5 | 597.510 | 621.000 | 687.690 | 774.900 | 800.550 |
| 48.0 | 587.655 | 609.660 | 676.080 | 760.725 | 794.070 |
| 48.5 | 577.125 | 598.320 | 664.605 | 747.360 | 782.190 |
| 49.0 | 567.675 | 587.790 | 652.590 | 735.210 | 765.315 |
| 49.5 | 556.335 | 576.855 | 640.980 | 723.600 | 749.655 |
| 50.0 | 546.885 | 565.110 | 630.450 | 710.775 | 737.505 |
| 50.5 | 536.085 | 555.795 | 618.705 | 698.625 | 725.760 |
| 51.0 | 527.310 | 546.075 | 606.555 | 685.935 | 712.665 |
| 51.5 | 517.185 | 535.815 | 595.350 | 674.325 | 704.970 |
| 52.0 | 506.250 | 524.610 | 584.415 | 662.445 | 694.710 |
| 52.5 | 497.070 | 515.430 | 574.155 | 649.755 | 678.645 |
| 53.0 | 486.675 | 505.710 | 563.490 | 637.875 | 664.875 |
| 53.5 | 476.550 | 495.855 | 551.880 | 626.265 | 652.455 |
| 54.0 | 466.290 | 484.920 | 541.485 | 614.520 | 640.575 |
| 54.5 | 458.325 | 475.605 | 530.550 | 602.640 | 631.260 |

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| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 448.200 | 465.480 | 520.425 | 590.760 | 619.650 |
| 55.5 | 440.100 | 456.165 | 509.895 | 578.610 | 606.285 |
| 56.0 | 429.705 | 447.120 | 499.095 | 567.810 | 592.245 |
| 56.5 | 421.470 | 438.750 | 488.430 | 556.470 | 580.770 |
| 57.0 | 411.885 | 428.220 | 478.980 | 544.455 | 571.185 |
| 57.5 | 404.325 | 419.445 | 468.585 | 533.115 | 559.170 |
| 58.0 | 395.685 | 410.670 | 458.055 | 522.180 | 545.535 |
| 58.5 | 387.315 | 401.760 | 448.605 | 511.515 | 535.680 |
| 59.0 | 378.270 | 393.255 | 438.345 | 500.040 | 523.260 |
| 59.5 | 370.710 | 384.210 | 429.435 | 488.700 | 513.810 |
| 60.0 | 361.935 | 375.840 | 419.175 | 477.900 | 499.635 |
| 60.5 | 352.620 | 366.390 | 409.455 | 466.560 | 488.700 |
| 61.0 | 344.385 | 358.155 | 400.275 | 455.220 | 477.900 |
| 61.5 | 337.230 | 350.190 | 391.365 | 446.040 | 468.450 |
| 62.0 | 329.670 | 341.820 | 381.780 | 434.700 | 455.085 |
| 62.5 | 321.840 | 332.640 | 372.330 | 424.845 | 444.150 |
| 63.0 | 314.010 | 324.405 | 363.285 | 412.830 | 435.375 |
| 63.5 | 305.775 | 316.305 | 353.835 | 403.110 | 423.900 |
| 64.0 | 298.350 | 309.150 | 343.845 | 392.580 | 410.535 |
| 64.5 | 290.520 | 300.240 | 335.475 | 382.455 | 402.300 |
| 65.0 | 282.825 | 293.355 | 327.240 | 371.790 | 392.040 |
| 65.5 | 277.155 | 284.850 | 318.060 | 362.070 | 380.565 |
| 66.0 | 269.460 | 277.560 | 309.420 | 352.485 | 370.035 |
| 66.5 | 261.900 | 270.135 | 300.780 | 341.820 | 359.370 |
| 67.0 | 254.475 | 263.115 | 292.815 | 331.560 | 350.460 |
| 67.5 | 247.995 | 255.015 | 283.635 | 321.840 | 339.390 |
| 68.0 | 240.705 | 247.050 | 274.320 | 311.985 | 329.130 |
| 68.5 | 233.145 | 239.760 | 266.490 | 302.535 | 319.950 |
| 69.0 | 225.990 | 233.685 | 259.200 | 293.355 | 307.935 |
| 69.5 | 219.240 | 225.045 | 249.345 | 283.365 | 299.160 |
| 70.0 | 211.545 | 218.430 | 242.190 | 273.375 | 287.955 |
| 70.5 | 205.065 | 210.735 | 233.685 | 264.465 | 278.235 |
| 71.0 | 197.775 | 203.715 | 226.260 | 255.825 | 269.325 |
| 71.5 | 191.970 | 197.235 | 218.160 | 246.510 | 260.280 |
| 72.0 | 184.950 | 189.810 | 210.060 | 237.195 | 250.560 |
| 72.5 | 177.930 | 183.195 | 201.960 | 228.555 | 240.435 |
| 73.0 | 171.180 | 176.715 | 194.805 | 219.915 | 230.715 |
| 73.5 | 164.565 | 169.830 | 187.650 | 211.005 | 221.535 |
| 74.0 | 157.950 | 163.080 | 179.550 | 203.040 | 212.220 |
| 74.5 | 151.605 | 156.330 | 172.260 | 193.995 | 203.175 |
| 75.0 | 145.125 | 150.120 | 165.375 | 185.625 | 193.725 |
| 75.5 | 139.050 | 143.775 | 158.355 | 176.715 | 185.490 |
| 76.0 | 133.110 | 136.890 | 150.930 | 168.750 | 176.580 |
| 76.5 | 127.035 | 131.085 | 144.045 | 161.325 | 168.075 |
| 77.0 | 121.095 | 125.010 | 137.295 | 153.090 | 159.570 |
| 77.5 | 115.290 | 119.070 | 130.680 | 145.665 | 150.930 |
| 78.0 | 109.755 | 113.130 | 124.065 | 138.105 | 143.100 |
| 78.5 | 104.085 | 107.325 | 117.585 | 130.275 | 135.000 |
| 79.0 | 98.685 | 101.655 | 111.240 | 122.985 | 127.035 |
| 79.5 | 93.285 | 96.120 | 105.030 | 115.695 | 119.205 |
| 80.0 | 87.885 | 90.450 | 98.820 | 108.540 | 111.915 |
| 80.5 | 82.755 | 85.050 | 92.880 | 101.790 | 104.625 |
| 81.0 | 77.760 | 79.785 | 86.940 | 95.040 | 97.605 |
| 81.5 | 72.765 | 74.655 | 81.270 | 88.425 | 90.585 |
| 82.0 | 67.905 | 69.525 | 75.735 | 81.945 | 83.970 |
| 82.5 | 63.180 | 64.530 | 70.200 | 75.735 | 77.490 |

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| | | | | | |
|-------|----------|----------|---------|---------|---------|
| 83.0 | 58.590 | 59.535 | 64.800 | 69.660 | 71.145 |
| 83.5 | 53.865 | 54.810 | 59.670 | 63.855 | 65.070 |
| 84.0 | 49.410 | 50.220 | 54.675 | 58.320 | 59.400 |
| 84.5 | 45.090 | 45.630 | 49.680 | 52.920 | 53.730 |
| 85.0 | 40.905 | 41.310 | 44.955 | 47.385 | 48.330 |
| 85.5 | 36.720 | 36.990 | 40.365 | 42.255 | 43.200 |
| 86.0 | 32.670 | 32.805 | 35.775 | 37.395 | 38.070 |
| 86.5 | 28.755 | 28.755 | 31.455 | 32.805 | 33.210 |
| 87.0 | 24.975 | 24.840 | 27.270 | 28.215 | 28.620 |
| 87.5 | 21.330 | 21.330 | 23.490 | 24.165 | 24.165 |
| 88.0 | 17.820 | 18.225 | 20.250 | 20.790 | 20.655 |
| 88.5 | 14.445 | 15.660 | 18.225 | 18.360 | 18.630 |
| 89.0 | 11.475 | 15.120 | 20.925 | 16.875 | 16.740 |
| 89.5 | 9.990 | 17.550 | 30.375 | 16.200 | 15.255 |
| 90.0 | 10.530 | 24.840 | 44.820 | 16.065 | 13.905 |
| 90.5 | 8.235 | 31.590 | 55.350 | 15.660 | 10.800 |
| 91.0 | 14.985 | 45.495 | 78.840 | 18.090 | 10.935 |
| 91.5 | 26.865 | 63.990 | 106.650 | 20.925 | 11.880 |
| 92.0 | 41.445 | 86.940 | 139.320 | 24.435 | 13.095 |
| 92.5 | 57.780 | 115.560 | 176.310 | 29.160 | 14.985 |
| 93.0 | 75.195 | 149.445 | 213.840 | 34.830 | 17.685 |
| 93.5 | 93.690 | 188.460 | 249.750 | 40.905 | 20.385 |
| 94.0 | 114.480 | 232.740 | 282.555 | 46.845 | 23.490 |
| 94.5 | 137.700 | 282.015 | 312.120 | 52.380 | 26.730 |
| 95.0 | 164.700 | 336.960 | 337.230 | 57.645 | 30.240 |
| 95.5 | 195.480 | 400.005 | 357.615 | 62.775 | 33.750 |
| 96.0 | 232.200 | 471.555 | 374.355 | 68.445 | 37.530 |
| 96.5 | 274.050 | 551.880 | 387.585 | 74.250 | 41.445 |
| 97.0 | 322.650 | 640.845 | 397.440 | 79.920 | 45.360 |
| 97.5 | 378.945 | 738.180 | 402.705 | 85.455 | 49.410 |
| 98.0 | 446.445 | 842.265 | 404.460 | 91.125 | 53.595 |
| 98.5 | 527.715 | 953.235 | 403.515 | 96.930 | 57.780 |
| 99.0 | 623.970 | 1063.530 | 401.085 | 103.275 | 62.235 |
| 99.5 | 736.155 | 1173.420 | 397.575 | 109.755 | 66.690 |
| 100.0 | 862.920 | 1278.180 | 393.120 | 116.100 | 71.280 |
| 100.5 | 1001.295 | 1367.550 | 387.720 | 123.120 | 75.870 |
| 101.0 | 1145.880 | 1441.800 | 382.320 | 129.735 | 80.460 |
| 101.5 | 1293.570 | 1494.450 | 377.190 | 136.215 | 85.320 |
| 102.0 | 1435.050 | 1525.500 | 373.275 | 142.560 | 90.045 |
| 102.5 | 1557.900 | 1537.650 | 370.575 | 149.850 | 94.905 |
| 103.0 | 1649.700 | 1529.550 | 368.955 | 156.735 | 99.765 |
| 103.5 | 1707.750 | 1507.950 | 368.550 | 163.080 | 104.490 |
| 104.0 | 1732.050 | 1476.900 | 369.630 | 169.425 | 109.620 |
| 104.5 | 1736.100 | 1437.750 | 372.060 | 175.500 | 114.480 |
| 105.0 | 1723.950 | 1401.300 | 374.895 | 181.575 | 119.340 |
| 105.5 | 1703.700 | 1366.200 | 378.405 | 187.785 | 124.470 |
| 106.0 | 1678.050 | 1334.205 | 382.590 | 194.130 | 129.465 |
| 106.5 | 1652.400 | 1303.560 | 387.045 | 200.205 | 134.595 |
| 107.0 | 1628.100 | 1274.400 | 392.580 | 206.415 | 139.725 |
| 107.5 | 1601.100 | 1249.965 | 398.925 | 212.490 | 144.720 |
| 108.0 | 1576.800 | 1228.365 | 406.215 | 218.835 | 149.715 |
| 108.5 | 1552.500 | 1209.060 | 412.560 | 225.180 | 154.845 |
| 109.0 | 1530.900 | 1192.320 | 419.715 | 231.525 | 160.110 |
| 109.5 | 1507.950 | 1177.470 | 426.870 | 237.870 | 165.240 |
| 110.0 | 1489.050 | 1164.645 | 434.295 | 244.350 | 170.505 |
| 110.5 | 1468.800 | 1153.845 | 443.205 | 250.695 | 175.635 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|----------|----------|---------|---------|---------|
| 111.0 | 1451.250 | 1144.125 | 451.845 | 256.905 | 180.900 |
| 111.5 | 1436.400 | 1136.025 | 459.810 | 263.520 | 186.435 |
| 112.0 | 1421.550 | 1128.870 | 466.965 | 270.135 | 191.565 |
| 112.5 | 1409.400 | 1122.795 | 474.255 | 276.615 | 197.100 |
| 113.0 | 1399.950 | 1118.205 | 481.410 | 283.365 | 202.365 |
| 113.5 | 1387.800 | 1114.425 | 488.700 | 289.980 | 207.900 |
| 114.0 | 1377.000 | 1110.915 | 495.315 | 296.730 | 213.435 |
| 114.5 | 1367.550 | 1108.215 | 502.065 | 303.345 | 218.835 |
| 115.0 | 1359.450 | 1106.325 | 508.545 | 310.095 | 224.505 |
| 115.5 | 1352.700 | 1105.110 | 515.295 | 316.845 | 229.770 |
| 116.0 | 1346.490 | 1104.435 | 522.180 | 323.460 | 235.710 |
| 116.5 | 1342.440 | 1103.895 | 528.930 | 329.940 | 241.245 |
| 117.0 | 1339.470 | 1102.275 | 535.545 | 336.420 | 246.915 |
| 117.5 | 1336.095 | 1100.385 | 542.430 | 342.765 | 252.315 |
| 118.0 | 1332.990 | 1098.900 | 548.910 | 349.245 | 257.850 |
| 118.5 | 1329.480 | 1097.415 | 555.390 | 355.590 | 263.790 |
| 119.0 | 1325.970 | 1096.065 | 562.005 | 361.800 | 269.595 |
| 119.5 | 1322.595 | 1094.580 | 568.485 | 367.875 | 275.130 |
| 120.0 | 1319.220 | 1093.095 | 574.830 | 373.950 | 280.935 |
| 120.5 | 1315.845 | 1091.610 | 581.175 | 379.755 | 286.740 |
| 121.0 | 1312.065 | 1089.585 | 587.115 | 385.560 | 292.275 |
| 121.5 | 1308.285 | 1087.830 | 593.190 | 391.500 | 298.215 |
| 122.0 | 1304.235 | 1085.805 | 598.995 | 397.170 | 303.885 |
| 122.5 | 1299.915 | 1083.645 | 604.665 | 402.705 | 309.690 |
| 123.0 | 1295.325 | 1082.025 | 610.200 | 408.105 | 315.360 |
| 123.5 | 1291.005 | 1080.405 | 615.735 | 413.505 | 321.030 |
| 124.0 | 1286.280 | 1078.650 | 621.270 | 418.770 | 327.105 |
| 124.5 | 1281.420 | 1076.895 | 626.130 | 424.170 | 332.775 |
| 125.0 | 1276.560 | 1075.005 | 630.990 | 429.300 | 338.445 |
| 125.5 | 1271.700 | 1072.980 | 635.580 | 434.565 | 344.250 |
| 126.0 | 1266.840 | 1070.955 | 640.170 | 439.695 | 349.920 |
| 126.5 | 1261.845 | 1068.660 | 644.760 | 444.960 | 355.590 |
| 127.0 | 1256.715 | 1066.230 | 648.945 | 450.225 | 361.395 |
| 127.5 | 1251.720 | 1063.530 | 652.995 | 455.085 | 367.065 |
| 128.0 | 1246.725 | 1060.830 | 657.045 | 460.080 | 372.735 |
| 128.5 | 1241.595 | 1058.265 | 660.960 | 465.075 | 378.405 |
| 129.0 | 1236.330 | 1055.700 | 664.740 | 470.070 | 384.075 |
| 129.5 | 1231.065 | 1052.595 | 668.385 | 475.065 | 389.880 |
| 130.0 | 1225.395 | 1049.355 | 672.030 | 479.925 | 395.685 |
| 130.5 | 1219.860 | 1045.845 | 675.405 | 484.785 | 401.085 |
| 131.0 | 1213.920 | 1042.065 | 678.645 | 489.510 | 407.295 |
| 131.5 | 1208.115 | 1038.150 | 681.615 | 494.100 | 413.100 |
| 132.0 | 1201.635 | 1033.965 | 684.585 | 498.825 | 418.635 |
| 132.5 | 1195.560 | 1029.645 | 687.285 | 503.415 | 424.440 |
| 133.0 | 1189.215 | 1024.920 | 690.255 | 507.735 | 429.840 |
| 133.5 | 1182.735 | 1020.060 | 692.955 | 512.190 | 435.105 |
| 134.0 | 1176.255 | 1015.065 | 695.520 | 516.510 | 439.965 |
| 134.5 | 1169.235 | 1010.070 | 697.950 | 520.695 | 445.095 |
| 135.0 | 1162.485 | 1004.940 | 700.245 | 524.880 | 450.360 |
| 135.5 | 1155.195 | 999.945 | 702.675 | 528.795 | 455.085 |
| 136.0 | 1147.635 | 994.545 | 704.970 | 532.980 | 460.080 |
| 136.5 | 1140.075 | 989.010 | 707.130 | 537.030 | 464.940 |
| 137.0 | 1131.840 | 983.610 | 709.020 | 540.945 | 469.800 |
| 137.5 | 1123.875 | 977.940 | 711.045 | 544.860 | 474.660 |
| 138.0 | 1115.235 | 972.135 | 712.800 | 548.370 | 479.520 |
| 138.5 | 1106.595 | 966.465 | 714.825 | 552.285 | 484.245 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-SO-SAL-D1-CW.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|----------|---------|---------|---------|---------|
| 139.0 | 1097.685 | 960.525 | 716.445 | 556.065 | 488.970 |
| 139.5 | 1088.640 | 954.720 | 718.065 | 559.710 | 493.290 |
| 140.0 | 1079.460 | 948.780 | 719.955 | 563.490 | 497.880 |
| 140.5 | 1070.145 | 942.975 | 721.440 | 566.865 | 502.335 |
| 141.0 | 1060.830 | 937.305 | 723.060 | 570.375 | 506.385 |
| 141.5 | 1051.650 | 931.635 | 724.275 | 574.155 | 510.705 |
| 142.0 | 1042.065 | 926.100 | 725.220 | 577.665 | 515.430 |
| 142.5 | 1032.615 | 920.700 | 726.570 | 580.770 | 519.480 |
| 143.0 | 1023.435 | 915.435 | 727.650 | 584.415 | 524.070 |
| 143.5 | 1014.255 | 910.305 | 728.730 | 587.655 | 528.390 |
| 144.0 | 1005.210 | 905.175 | 729.675 | 591.030 | 532.440 |
| 144.5 | 995.895 | 900.045 | 730.620 | 594.270 | 537.165 |
| 145.0 | 986.850 | 895.050 | 731.025 | 597.240 | 541.755 |
| 145.5 | 978.075 | 890.055 | 731.700 | 600.345 | 545.940 |
| 146.0 | 969.300 | 885.465 | 732.375 | 603.450 | 550.395 |
| 146.5 | 961.065 | 880.605 | 732.915 | 606.690 | 554.580 |
| 147.0 | 952.830 | 875.880 | 733.320 | 609.660 | 559.305 |
| 147.5 | 944.730 | 871.560 | 733.590 | 612.360 | 563.490 |
| 148.0 | 936.900 | 867.105 | 733.860 | 615.195 | 567.135 |
| 148.5 | 929.340 | 862.650 | 733.995 | 617.895 | 571.455 |
| 149.0 | 922.185 | 858.330 | 734.130 | 620.730 | 575.640 |
| 149.5 | 915.300 | 854.280 | 734.265 | 623.295 | 579.825 |
| 150.0 | 908.685 | 850.230 | 734.130 | 625.995 | 583.470 |
| 150.5 | 902.070 | 846.180 | 734.130 | 628.560 | 587.520 |
| 151.0 | 895.995 | 842.400 | 733.995 | 631.125 | 591.165 |
| 151.5 | 889.785 | 838.890 | 733.995 | 633.825 | 594.810 |
| 152.0 | 884.250 | 835.380 | 733.995 | 636.390 | 598.725 |
| 152.5 | 878.580 | 831.600 | 733.725 | 638.955 | 602.775 |
| 153.0 | 873.450 | 828.360 | 733.320 | 641.655 | 606.555 |
| 153.5 | 868.320 | 825.120 | 733.320 | 644.220 | 610.065 |
| 154.0 | 863.460 | 822.015 | 733.185 | 646.785 | 613.710 |
| 154.5 | 859.005 | 818.910 | 733.050 | 649.215 | 617.355 |
| 155.0 | 854.955 | 815.670 | 732.780 | 651.915 | 621.000 |
| 155.5 | 850.770 | 812.565 | 732.645 | 654.345 | 624.375 |
| 156.0 | 846.855 | 809.865 | 732.240 | 656.910 | 628.020 |
| 156.5 | 843.075 | 806.895 | 731.970 | 659.610 | 631.800 |
| 157.0 | 839.700 | 804.060 | 731.700 | 662.310 | 635.310 |
| 157.5 | 836.055 | 801.225 | 731.295 | 664.740 | 638.550 |
| 158.0 | 832.680 | 798.255 | 730.890 | 667.035 | 641.790 |
| 158.5 | 829.305 | 795.420 | 730.890 | 669.735 | 644.895 |
| 159.0 | 825.930 | 792.585 | 730.620 | 672.300 | 648.270 |
| 159.5 | 822.825 | 790.020 | 729.945 | 674.730 | 651.375 |
| 160.0 | 819.855 | 787.590 | 729.810 | 677.160 | 654.345 |
| 160.5 | 816.345 | 784.890 | 729.540 | 679.455 | 657.450 |
| 161.0 | 813.105 | 782.460 | 729.405 | 681.615 | 660.420 |
| 161.5 | 810.135 | 779.895 | 729.135 | 683.775 | 663.390 |
| 162.0 | 807.030 | 777.330 | 728.865 | 686.070 | 666.360 |
| 162.5 | 803.655 | 774.765 | 728.730 | 688.230 | 668.925 |
| 163.0 | 800.685 | 772.200 | 728.460 | 690.255 | 671.760 |
| 163.5 | 797.175 | 769.770 | 728.190 | 692.280 | 674.865 |
| 164.0 | 794.070 | 767.205 | 727.785 | 694.305 | 677.565 |
| 164.5 | 790.695 | 764.775 | 727.515 | 696.195 | 680.265 |
| 165.0 | 787.590 | 762.345 | 727.380 | 697.950 | 682.695 |
| 165.5 | 784.620 | 760.050 | 727.110 | 699.705 | 685.125 |
| 166.0 | 781.380 | 757.755 | 726.840 | 701.190 | 687.420 |
| 166.5 | 778.545 | 755.460 | 726.705 | 702.945 | 689.715 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-SO-SAL-D1-CW.IES****CANDELA TABULATION - (Cont.)**

| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 167.0 | 775.575 | 753.165 | 726.570 | 704.700 | 692.010 |
| 167.5 | 772.740 | 751.275 | 726.300 | 706.185 | 694.035 |
| 168.0 | 770.175 | 748.980 | 726.300 | 707.670 | 696.060 |
| 168.5 | 767.610 | 747.090 | 725.895 | 709.425 | 698.355 |
| 169.0 | 765.450 | 745.200 | 725.760 | 710.910 | 700.245 |
| 169.5 | 763.290 | 743.580 | 725.760 | 712.260 | 702.270 |
| 170.0 | 761.400 | 742.095 | 725.760 | 713.745 | 704.025 |
| 170.5 | 759.510 | 740.745 | 725.760 | 715.095 | 705.780 |
| 171.0 | 757.620 | 739.530 | 725.895 | 716.310 | 707.400 |
| 171.5 | 755.865 | 738.180 | 725.760 | 717.390 | 709.020 |
| 172.0 | 754.380 | 737.100 | 725.760 | 718.470 | 710.505 |
| 172.5 | 752.895 | 736.020 | 725.760 | 719.415 | 711.720 |
| 173.0 | 751.275 | 735.075 | 726.030 | 720.225 | 712.935 |
| 173.5 | 749.655 | 734.400 | 726.300 | 721.305 | 714.285 |
| 174.0 | 748.440 | 733.455 | 726.435 | 722.115 | 715.635 |
| 174.5 | 747.090 | 732.915 | 726.705 | 722.925 | 716.850 |
| 175.0 | 746.145 | 732.510 | 726.840 | 723.735 | 717.930 |
| 175.5 | 744.930 | 732.105 | 726.975 | 724.410 | 719.145 |
| 176.0 | 743.850 | 731.565 | 727.110 | 724.950 | 720.090 |
| 176.5 | 742.635 | 731.295 | 727.110 | 725.490 | 720.765 |
| 177.0 | 741.825 | 731.025 | 727.380 | 726.030 | 721.440 |
| 177.5 | 741.150 | 731.025 | 727.515 | 726.570 | 721.575 |
| 178.0 | 740.205 | 731.025 | 727.650 | 726.975 | 722.250 |
| 178.5 | 739.665 | 730.890 | 727.785 | 727.380 | 722.520 |
| 179.0 | 739.395 | 730.755 | 728.055 | 727.515 | 722.655 |
| 179.5 | 739.260 | 730.890 | 728.055 | 727.650 | 722.655 |
| 180.0 | 729.405 | 729.405 | 729.405 | 729.405 | 729.405 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-SO-SAL-D1-CW.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 566.94 | N.A. | 7.70 |
| 0-30 | 1150.76 | N.A. | 15.60 |
| 0-40 | 1783.36 | N.A. | 24.10 |
| 0-60 | 2839.66 | N.A. | 38.40 |
| 0-80 | 3348.17 | N.A. | 45.30 |
| 0-90 | 3401.04 | N.A. | 46.00 |
| 10-90 | 3249.91 | N.A. | 44.00 |
| 20-40 | 1216.42 | N.A. | 16.50 |
| 20-50 | 1800.06 | N.A. | 24.30 |
| 40-70 | 1386.23 | N.A. | 18.70 |
| 60-80 | 508.51 | N.A. | 6.90 |
| 70-80 | 178.59 | N.A. | 2.40 |
| 80-90 | 52.87 | N.A. | 0.70 |
| 90-110 | 983.42 | N.A. | 13.30 |
| 90-120 | 1660.94 | N.A. | 22.50 |
| 90-130 | 2319.39 | N.A. | 31.40 |
| 90-150 | 3375.46 | N.A. | 45.70 |
| 90-180 | 3992.51 | N.A. | 54.00 |
| 110-180 | 3009.09 | N.A. | 40.70 |
| 0-180 | 7393.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 151.12 |
| 10-20 | 415.81 |
| 20-30 | 583.82 |
| 30-40 | 632.60 |
| 40-50 | 583.63 |
| 50-60 | 472.67 |
| 60-70 | 329.92 |
| 70-80 | 178.59 |
| 80-90 | 52.87 |
| 90-100 | 254.06 |
| 100-110 | 729.36 |
| 110-120 | 677.52 |
| 120-130 | 658.45 |
| 130-140 | 586.58 |
| 140-150 | 469.49 |
| 150-160 | 340.31 |
| 160-170 | 207.19 |
| 170-180 | 69.55 |

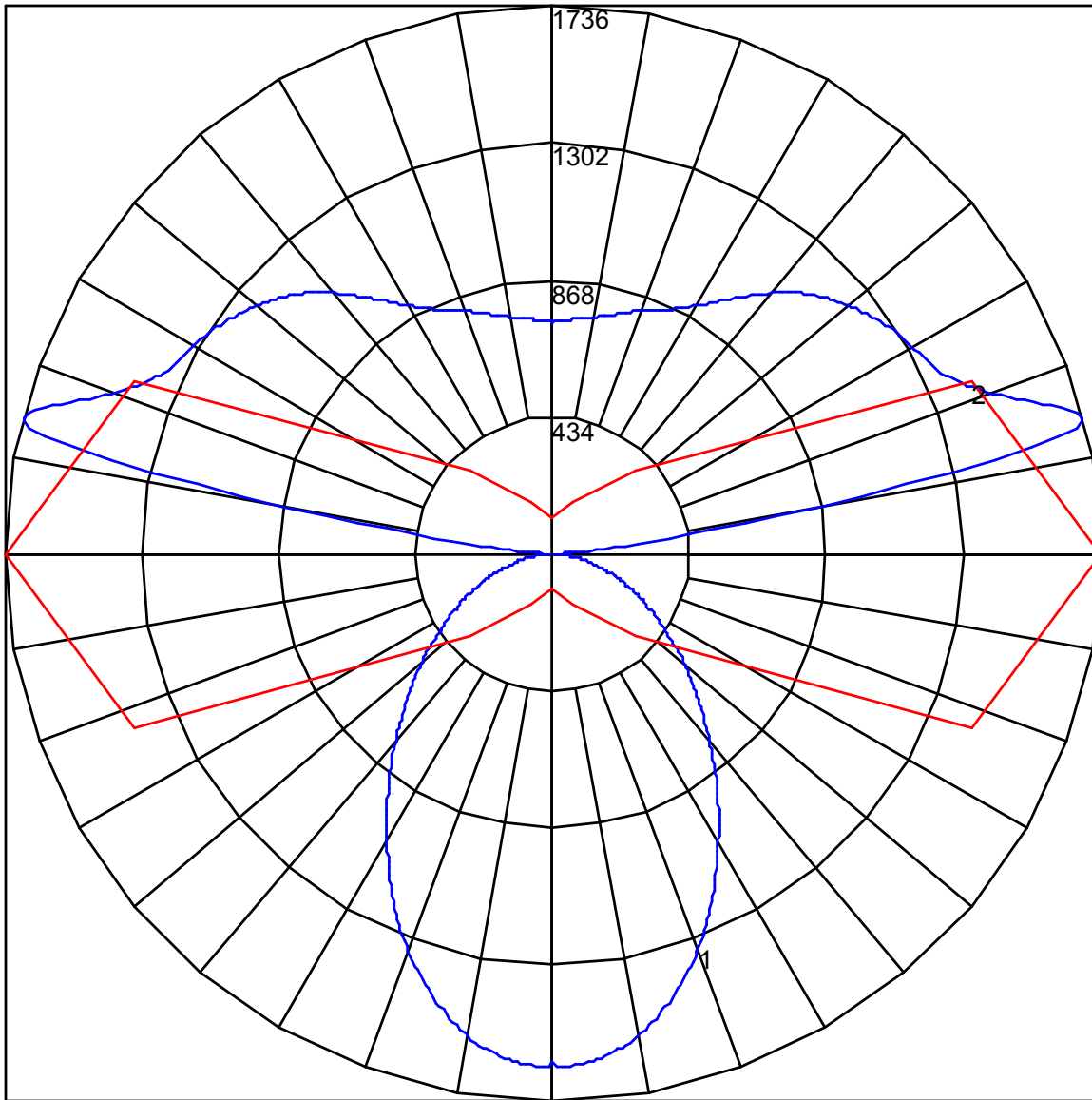
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO2-LIN-LED35-SO-SO-SAL-D1-CW.IES

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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 79 | 72 | 69 | 67 | 59 | 57 | 56 | 47 | 46 | 45 | 39 |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | 33 |
| 3 | 81 | 72 | 65 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 | 25 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 41 | 45 | 40 | 35 | 37 | 33 | 30 | 30 | 28 | 25 | 22 |
| 6 | 63 | 51 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 22 | 20 |
| 7 | 58 | 47 | 39 | 33 | 54 | 43 | 36 | 31 | 37 | 31 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 35 | 30 | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 | 16 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47 | 36 | 28 | 24 | 44 | 33 | 27 | 23 | 29 | 23 | 20 | 24 | 20 | 18 | 20 | 17 | 15 | 13 |

POLAR GRAPH



Maximum Candela = 1736.1 Located At Horizontal Angle = 0, Vertical Angle = 104.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (104.5) (Through Max. Cd.)