



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000657-016  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] 44-48LED35DMVFR30  
 [LUMINAIRE] Catalog Number: 44-48LED35DMVFR30  
 [MORE] Surface/pendant mounted, white formed steel housing and LED tray, frosted plastic lens  
 [MORE] enclosure with white steel endcaps. 128 white LEDs, four Universal Lighting Technologies  
 [MORE] Everline M10CC830D32N2S boards with 32 LED each. One Universal Lighting  
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 637mA.  
 [MORE] 120.0Vac, 60.0Hz, 0.29A, 35.0W, 0.998PF, 5.14%THD(i)  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 9.5m.  
 [MORE] This IES file was extrapolated from 44-48LED57DMVFR30  
 [DATE] The original file was created: Wednesday, October 12, 2016 2:57:52 PM  
 [ISSUE DATE] Wednesday, October 12, 2016 2:57:52 PM

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 4305                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 123                 |
| Total Luminaire Watts           | 35                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.22                |
| Spacing Criterion (90-270)      | 1.22                |
| Spacing Criterion (Diagonal)    | 1.32                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 1.22 m              |
| Luminous Width (90-270)         | 0.11 m              |
| Luminous Height                 | 0.03 m              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 9032             | 7935              | 7511              |
| 55                  | 7863             | 6709              | 6437              |
| 65                  | 6553             | 5498              | 5560              |
| 75                  | 5141             | 4406              | 4775              |
| 85                  | 3586             | 3510              | 4092              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION**

|      | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 1527.847   | 1527.847    | 1527.847    | 1527.847    | 1527.847    |
| 0.5  | 1520.995   | 1523.160    | 1532.827    | 1532.306    | 1524.558    |
| 1.0  | 1520.722   | 1522.932    | 1532.617    | 1532.014    | 1524.424    |
| 1.5  | 1520.487   | 1522.589    | 1532.166    | 1531.652    | 1524.164    |
| 2.0  | 1520.023   | 1522.138    | 1531.664    | 1531.055    | 1523.656    |
| 2.5  | 1519.248   | 1521.465    | 1531.029    | 1530.394    | 1523.078    |
| 3.0  | 1518.435   | 1520.607    | 1530.146    | 1529.613    | 1522.265    |
| 3.5  | 1517.470   | 1519.636    | 1529.175    | 1528.705    | 1521.300    |
| 4.0  | 1516.270   | 1518.492    | 1528.101    | 1527.568    | 1520.290    |
| 4.5  | 1514.993   | 1517.317    | 1526.793    | 1526.260    | 1519.096    |
| 5.0  | 1513.539   | 1515.825    | 1525.320    | 1524.843    | 1517.730    |
| 5.5  | 1511.995   | 1514.224    | 1523.681    | 1523.306    | 1516.219    |
| 6.0  | 1510.185   | 1512.548    | 1521.985    | 1521.547    | 1514.523    |
| 6.5  | 1508.375   | 1510.693    | 1520.029    | 1519.648    | 1512.796    |
| 7.0  | 1506.267   | 1508.699    | 1517.978    | 1517.591    | 1510.712    |
| 7.5  | 1503.999   | 1506.559    | 1515.831    | 1515.342    | 1508.559    |
| 8.0  | 1501.802   | 1504.190    | 1513.431    | 1512.891    | 1506.108    |
| 8.5  | 1499.223   | 1501.694    | 1510.846    | 1510.287    | 1503.536    |
| 9.0  | 1496.645   | 1499.135    | 1508.159    | 1507.607    | 1501.008    |
| 9.5  | 1493.876   | 1496.334    | 1505.339    | 1504.787    | 1498.150    |
| 10.0 | 1490.993   | 1493.361    | 1502.310    | 1501.650    | 1495.178    |
| 10.5 | 1487.849   | 1490.294    | 1499.185    | 1498.360    | 1491.977    |
| 11.0 | 1484.749   | 1487.118    | 1495.870    | 1495.089    | 1488.617    |
| 11.5 | 1481.225   | 1483.689    | 1492.320    | 1491.463    | 1485.048    |
| 12.0 | 1477.782   | 1480.145    | 1488.706    | 1487.658    | 1481.371    |
| 12.5 | 1474.112   | 1476.512    | 1484.972    | 1483.835    | 1477.586    |
| 13.0 | 1470.187   | 1472.625    | 1480.964    | 1479.777    | 1473.591    |
| 13.5 | 1466.255   | 1468.650    | 1476.957    | 1475.566    | 1469.456    |
| 14.0 | 1462.102   | 1464.496    | 1472.575    | 1471.114    | 1464.979    |
| 14.5 | 1457.821   | 1460.108    | 1468.142    | 1466.421    | 1460.330    |
| 15.0 | 1453.325   | 1455.795    | 1463.632    | 1461.695    | 1455.719    |
| 15.5 | 1448.784   | 1451.210    | 1458.920    | 1456.811    | 1450.905    |
| 16.0 | 1443.938   | 1446.440    | 1453.865    | 1451.540    | 1445.850    |
| 16.5 | 1439.010   | 1441.436    | 1448.816    | 1446.421    | 1440.616    |
| 17.0 | 1433.961   | 1436.368    | 1443.538    | 1440.947    | 1435.053    |
| 17.5 | 1428.778   | 1431.122    | 1438.216    | 1435.332    | 1429.642    |
| 18.0 | 1423.412   | 1425.730    | 1432.544    | 1429.547    | 1423.901    |
| 18.5 | 1417.867   | 1420.192    | 1426.816    | 1423.621    | 1418.013    |
| 19.0 | 1412.081   | 1414.495    | 1420.827    | 1417.429    | 1411.827    |
| 19.5 | 1406.372   | 1408.614    | 1414.736    | 1411.249    | 1405.610    |
| 20.0 | 1400.472   | 1402.612    | 1408.601    | 1404.689    | 1399.195    |
| 20.5 | 1394.368   | 1396.356    | 1402.091    | 1397.982    | 1392.520    |
| 21.0 | 1387.954   | 1389.986    | 1395.575    | 1391.256    | 1385.814    |
| 21.5 | 1381.673   | 1383.540    | 1388.875    | 1384.353    | 1379.063    |
| 22.0 | 1374.966   | 1376.763    | 1381.901    | 1377.151    | 1371.733    |
| 22.5 | 1368.298   | 1369.885    | 1374.877    | 1369.809    | 1364.411    |
| 23.0 | 1361.292   | 1362.944    | 1367.713    | 1362.404    | 1356.999    |
| 23.5 | 1354.135   | 1355.716    | 1360.340    | 1354.573    | 1349.429    |
| 24.0 | 1347.079   | 1348.432    | 1352.782    | 1346.901    | 1341.687    |
| 24.5 | 1339.674   | 1340.925    | 1345.110    | 1338.905    | 1333.710    |
| 25.0 | 1332.065   | 1333.215    | 1337.114    | 1330.655    | 1325.549    |
| 25.5 | 1324.469   | 1325.460    | 1329.150    | 1322.373    | 1317.299    |
| 26.0 | 1316.651   | 1317.451    | 1321.002    | 1314.003    | 1308.954    |
| 26.5 | 1308.408   | 1309.202    | 1312.618    | 1305.283    | 1300.336    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1300.285 | 1300.952 | 1304.044 | 1296.461 | 1291.565 |
| 27.5 | 1291.952 | 1292.517 | 1295.458 | 1287.570 | 1282.642 |
| 28.0 | 1283.232 | 1283.791 | 1286.554 | 1278.437 | 1273.572 |
| 28.5 | 1274.741 | 1275.052 | 1277.586 | 1269.158 | 1264.433 |
| 29.0 | 1265.843 | 1266.078 | 1268.542 | 1259.740 | 1255.116 |
| 29.5 | 1256.761 | 1256.857 | 1259.181 | 1250.213 | 1245.488 |
| 30.0 | 1247.737 | 1247.730 | 1249.807 | 1240.573 | 1235.917 |
| 30.5 | 1238.470 | 1238.343 | 1240.204 | 1230.665 | 1226.194 |
| 31.0 | 1228.804 | 1228.639 | 1230.392 | 1220.573 | 1216.153 |
| 31.5 | 1219.214 | 1218.941 | 1220.561 | 1210.526 | 1206.118 |
| 32.0 | 1209.484 | 1209.065 | 1210.628 | 1200.314 | 1195.982 |
| 32.5 | 1199.405 | 1198.993 | 1200.358 | 1189.873 | 1185.567 |
| 33.0 | 1189.358 | 1188.825 | 1190.127 | 1179.432 | 1175.138 |
| 33.5 | 1179.114 | 1178.619 | 1179.730 | 1168.819 | 1164.570 |
| 34.0 | 1168.603 | 1167.981 | 1169.117 | 1157.946 | 1153.920 |
| 34.5 | 1158.092 | 1157.425 | 1158.530 | 1147.200 | 1143.136 |
| 35.0 | 1147.391 | 1146.718 | 1147.784 | 1136.257 | 1132.263 |
| 35.5 | 1136.353 | 1135.699 | 1136.734 | 1125.054 | 1121.072 |
| 36.0 | 1125.289 | 1124.635 | 1125.689 | 1113.813 | 1110.009 |
| 36.5 | 1114.296 | 1113.667 | 1114.721 | 1102.654 | 1098.983 |
| 37.0 | 1102.769 | 1102.254 | 1103.378 | 1091.108 | 1087.513 |
| 37.5 | 1091.451 | 1090.873 | 1092.035 | 1079.695 | 1076.336 |
| 38.0 | 1079.848 | 1079.422 | 1080.635 | 1068.162 | 1064.936 |
| 38.5 | 1068.086 | 1067.686 | 1069.013 | 1056.368 | 1053.326 |
| 39.0 | 1056.273 | 1056.019 | 1057.492 | 1044.784 | 1041.831 |
| 39.5 | 1044.276 | 1044.212 | 1045.794 | 1033.041 | 1030.164 |
| 40.0 | 1031.936 | 1032.222 | 1033.765 | 1020.955 | 1018.377 |
| 40.5 | 1019.869 | 1020.307 | 1021.997 | 1009.276 | 1006.767 |
| 41.0 | 1007.573 | 1008.291 | 1010.177 | 997.374  | 995.081  |
| 41.5 | 994.897  | 996.072  | 998.009  | 985.326  | 983.160  |
| 42.0 | 982.506  | 983.929  | 986.031  | 973.323  | 971.455  |
| 42.5 | 970.058  | 971.709  | 973.939  | 961.351  | 959.655  |
| 43.0 | 957.254  | 959.236  | 961.522  | 949.240  | 947.684  |
| 43.5 | 944.622  | 946.915  | 949.455  | 937.154  | 936.029  |
| 44.0 | 931.844  | 934.543  | 937.077  | 925.099  | 924.198  |
| 44.5 | 918.875  | 921.918  | 924.560  | 912.817  | 912.023  |
| 45.0 | 906.084  | 909.431  | 912.302  | 900.845  | 900.318  |
| 45.5 | 893.319  | 896.907  | 900.000  | 888.842  | 888.651  |
| 46.0 | 880.077  | 884.142  | 887.444  | 876.667  | 876.679  |
| 46.5 | 867.096  | 871.560  | 875.079  | 864.676  | 864.962  |
| 47.0 | 854.146  | 858.973  | 862.593  | 852.711  | 853.327  |
| 47.5 | 840.980  | 846.087  | 850.075  | 840.580  | 841.603  |
| 48.0 | 827.885  | 833.518  | 837.621  | 828.653  | 829.930  |
| 48.5 | 814.897  | 820.848  | 825.077  | 816.739  | 818.345  |
| 49.0 | 801.642  | 808.044  | 812.496  | 804.723  | 806.641  |
| 49.5 | 788.591  | 795.444  | 800.074  | 793.018  | 795.317  |
| 50.0 | 775.603  | 782.761  | 787.676  | 781.294  | 784.044  |
| 50.5 | 762.209  | 769.906  | 775.108  | 769.366  | 772.504  |
| 51.0 | 749.285  | 757.369  | 762.742  | 757.808  | 761.396  |
| 51.5 | 736.348  | 744.756  | 750.415  | 746.293  | 750.225  |
| 52.0 | 723.138  | 732.061  | 737.954  | 734.734  | 738.983  |
| 52.5 | 710.201  | 719.422  | 725.659  | 723.296  | 728.009  |
| 53.0 | 697.213  | 706.885  | 713.395  | 711.884  | 717.060  |
| 53.5 | 684.054  | 694.279  | 700.979  | 700.490  | 706.123  |
| 54.0 | 671.269  | 681.831  | 688.925  | 689.382  | 695.422  |
| 54.5 | 658.389  | 669.376  | 676.807  | 678.306  | 684.752  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 645.351 | 656.751 | 664.575 | 667.134 | 674.044 |
| 55.5 | 632.680 | 644.525 | 652.699 | 656.242 | 663.629 |
| 56.0 | 620.023 | 632.280 | 640.797 | 645.503 | 653.327 |
| 56.5 | 607.213 | 619.839 | 628.762 | 634.643 | 642.861 |
| 57.0 | 594.530 | 607.670 | 617.012 | 623.992 | 632.744 |
| 57.5 | 581.948 | 595.489 | 605.314 | 613.437 | 622.550 |
| 58.0 | 569.266 | 583.219 | 593.545 | 602.875 | 612.421 |
| 58.5 | 556.830 | 571.253 | 582.114 | 592.529 | 602.570 |
| 59.0 | 544.433 | 559.282 | 570.644 | 582.266 | 592.688 |
| 59.5 | 532.061 | 547.202 | 559.167 | 572.054 | 582.819 |
| 60.0 | 519.861 | 535.485 | 547.920 | 562.025 | 573.171 |
| 60.5 | 507.775 | 523.735 | 536.799 | 552.061 | 563.658 |
| 61.0 | 495.416 | 511.859 | 525.501 | 541.975 | 553.922 |
| 61.5 | 483.444 | 500.249 | 514.571 | 532.246 | 544.522 |
| 62.0 | 471.663 | 488.684 | 503.647 | 522.535 | 535.161 |
| 62.5 | 459.603 | 477.081 | 492.806 | 512.869 | 525.768 |
| 63.0 | 447.961 | 465.789 | 482.149 | 503.336 | 516.559 |
| 63.5 | 436.333 | 454.471 | 471.600 | 493.892 | 507.388 |
| 64.0 | 424.622 | 443.141 | 460.981 | 484.454 | 498.153 |
| 64.5 | 413.285 | 432.071 | 450.724 | 475.201 | 489.268 |
| 65.0 | 401.942 | 420.976 | 440.467 | 465.979 | 480.294 |
| 65.5 | 390.574 | 409.773 | 430.242 | 456.745 | 471.193 |
| 66.0 | 379.485 | 398.944 | 420.201 | 447.758 | 462.429 |
| 66.5 | 368.479 | 388.224 | 410.344 | 438.822 | 453.665 |
| 67.0 | 357.409 | 377.357 | 400.462 | 429.829 | 444.786 |
| 67.5 | 346.625 | 366.866 | 390.745 | 421.020 | 436.155 |
| 68.0 | 335.911 | 356.355 | 381.162 | 412.332 | 427.568 |
| 68.5 | 325.222 | 345.818 | 371.584 | 403.612 | 418.969 |
| 69.0 | 314.844 | 335.631 | 362.306 | 395.020 | 410.465 |
| 69.5 | 304.499 | 325.413 | 353.097 | 386.547 | 401.980 |
| 70.0 | 294.058 | 315.270 | 343.856 | 377.954 | 393.425 |
| 70.5 | 283.960 | 305.331 | 334.856 | 369.628 | 385.144 |
| 71.0 | 274.109 | 295.614 | 326.022 | 361.353 | 376.779 |
| 71.5 | 264.081 | 285.820 | 317.112 | 353.008 | 368.568 |
| 72.0 | 254.396 | 276.313 | 308.468 | 344.878 | 360.343 |
| 72.5 | 244.907 | 266.945 | 299.958 | 336.832 | 352.258 |
| 73.0 | 235.374 | 257.800 | 291.441 | 328.715 | 344.142 |
| 73.5 | 226.178 | 248.604 | 283.166 | 320.840 | 336.133 |
| 74.0 | 216.925 | 239.591 | 274.897 | 312.876 | 328.124 |
| 74.5 | 207.938 | 230.719 | 266.793 | 305.070 | 320.198 |
| 75.0 | 199.136 | 222.152 | 258.886 | 297.386 | 312.444 |
| 75.5 | 190.498 | 213.648 | 251.055 | 289.809 | 304.702 |
| 76.0 | 181.861 | 205.201 | 243.269 | 282.143 | 296.935 |
| 76.5 | 173.471 | 197.033 | 235.692 | 274.744 | 289.434 |
| 77.0 | 165.342 | 189.038 | 228.274 | 267.428 | 281.895 |
| 77.5 | 157.175 | 181.118 | 220.862 | 260.073 | 274.420 |
| 78.0 | 149.293 | 173.376 | 213.616 | 252.846 | 267.072 |
| 78.5 | 141.437 | 165.793 | 206.522 | 245.815 | 259.750 |
| 79.0 | 133.746 | 158.273 | 199.428 | 238.702 | 252.548 |
| 79.5 | 126.398 | 151.084 | 192.645 | 231.805 | 245.453 |
| 80.0 | 119.043 | 143.958 | 185.894 | 225.003 | 238.518 |
| 80.5 | 111.765 | 136.966 | 179.225 | 218.163 | 231.519 |
| 81.0 | 104.849 | 130.145 | 172.804 | 211.615 | 224.806 |
| 81.5 | 98.002  | 123.508 | 166.434 | 205.125 | 218.074 |
| 82.0 | 91.219  | 116.916 | 160.140 | 198.615 | 211.425 |
| 82.5 | 84.640  | 110.533 | 154.012 | 192.302 | 204.890 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|       |        |         |         |         |         |
|-------|--------|---------|---------|---------|---------|
| 83.0  | 78.251 | 104.322 | 148.035 | 186.059 | 198.520 |
| 83.5  | 71.925 | 98.155  | 142.027 | 179.905 | 192.175 |
| 84.0  | 65.707 | 92.197  | 136.312 | 173.884 | 186.040 |
| 84.5  | 59.674 | 86.348  | 130.596 | 168.003 | 179.956 |
| 85.0  | 53.634 | 80.531  | 124.962 | 162.090 | 173.865 |
| 85.5  | 47.931 | 74.974  | 119.475 | 156.431 | 168.067 |
| 86.0  | 42.145 | 69.435  | 114.096 | 150.747 | 162.236 |
| 86.5  | 36.436 | 63.923  | 108.666 | 145.120 | 156.438 |
| 87.0  | 30.866 | 58.544  | 103.382 | 139.646 | 150.957 |
| 87.5  | 25.302 | 53.247  | 98.282  | 134.463 | 145.724 |
| 88.0  | 19.809 | 47.925  | 93.182  | 129.700 | 140.916 |
| 88.5  | 14.334 | 42.730  | 88.552  | 125.686 | 136.864 |
| 89.0  | 8.853  | 37.782  | 84.856  | 122.193 | 133.396 |
| 89.5  | 0.000  | 33.724  | 81.915  | 119.132 | 130.246 |
| 90.0  | 0.000  | 31.336  | 79.521  | 116.452 | 127.452 |
| 90.5  | 0.000  | 30.066  | 77.717  | 114.267 | 125.127 |
| 91.0  | 0.000  | 29.913  | 76.663  | 112.610 | 123.362 |
| 91.5  | 0.000  | 29.907  | 76.301  | 111.663 | 122.187 |
| 92.0  | 0.000  | 29.799  | 76.091  | 111.054 | 121.355 |
| 92.5  | 0.000  | 29.672  | 75.837  | 110.495 | 120.580 |
| 93.0  | 0.000  | 29.666  | 75.583  | 109.949 | 119.932 |
| 93.5  | 0.000  | 29.589  | 75.361  | 109.453 | 119.297 |
| 94.0  | 0.000  | 29.513  | 75.101  | 108.926 | 118.694 |
| 94.5  | 0.000  | 29.418  | 74.923  | 108.443 | 118.122 |
| 95.0  | 0.000  | 29.342  | 74.618  | 107.961 | 117.494 |
| 95.5  | 0.000  | 29.234  | 74.446  | 107.478 | 116.916 |
| 96.0  | 0.000  | 29.202  | 74.180  | 107.027 | 116.414 |
| 96.5  | 0.000  | 29.094  | 73.907  | 106.538 | 115.880 |
| 97.0  | 0.000  | 29.024  | 73.659  | 106.208 | 115.429 |
| 97.5  | 0.000  | 28.910  | 73.411  | 105.738 | 114.947 |
| 98.0  | 0.000  | 28.783  | 73.170  | 105.325 | 114.477 |
| 98.5  | 0.000  | 28.738  | 72.852  | 104.861 | 113.981 |
| 99.0  | 0.000  | 28.649  | 72.630  | 104.455 | 113.569 |
| 99.5  | 0.000  | 28.605  | 72.287  | 104.093 | 113.124 |
| 100.0 | 0.000  | 28.535  | 72.008  | 103.629 | 112.679 |
| 100.5 | 0.000  | 28.433  | 71.747  | 103.261 | 112.260 |
| 101.0 | 0.000  | 28.281  | 71.455  | 102.861 | 111.809 |
| 101.5 | 0.000  | 28.224  | 71.163  | 102.442 | 111.409 |
| 102.0 | 0.000  | 28.122  | 70.852  | 102.016 | 110.996 |
| 102.5 | 0.000  | 28.002  | 70.553  | 101.622 | 110.628 |
| 103.0 | 0.000  | 27.951  | 70.248  | 101.152 | 110.177 |
| 103.5 | 0.000  | 27.868  | 69.893  | 100.733 | 109.726 |
| 104.0 | 0.000  | 27.722  | 69.594  | 100.289 | 109.301 |
| 104.5 | 0.000  | 27.601  | 69.232  | 99.825  | 108.818 |
| 105.0 | 0.000  | 27.500  | 68.934  | 99.330  | 108.418 |
| 105.5 | 0.000  | 27.379  | 68.546  | 98.891  | 107.948 |
| 106.0 | 0.000  | 27.252  | 68.146  | 98.371  | 107.402 |
| 106.5 | 0.000  | 27.144  | 67.835  | 97.945  | 106.964 |
| 107.0 | 0.000  | 27.030  | 67.429  | 97.348  | 106.449 |
| 107.5 | 0.000  | 26.916  | 67.048  | 96.789  | 105.858 |
| 108.0 | 0.000  | 26.763  | 66.673  | 96.307  | 105.306 |
| 108.5 | 0.000  | 26.655  | 66.247  | 95.716  | 104.747 |
| 109.0 | 0.000  | 26.515  | 65.809  | 95.144  | 104.220 |
| 109.5 | 0.000  | 26.344  | 65.358  | 94.522  | 103.598 |
| 110.0 | 0.000  | 26.153  | 64.945  | 93.893  | 102.931 |
| 110.5 | 0.000  | 26.014  | 64.488  | 93.303  | 102.308 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |        |        |        |         |
|-------|-------|--------|--------|--------|---------|
| 111.0 | 0.000 | 25.855 | 64.031 | 92.680 | 101.584 |
| 111.5 | 0.000 | 25.702 | 63.650 | 92.051 | 100.975 |
| 112.0 | 0.000 | 25.448 | 63.084 | 91.334 | 100.263 |
| 112.5 | 0.000 | 25.252 | 62.640 | 90.661 | 99.571  |
| 113.0 | 0.000 | 25.099 | 62.113 | 89.968 | 98.822  |
| 113.5 | 0.000 | 24.940 | 61.643 | 89.270 | 98.047  |
| 114.0 | 0.000 | 24.731 | 61.097 | 88.565 | 97.278  |
| 114.5 | 0.000 | 24.553 | 60.550 | 87.790 | 96.516  |
| 115.0 | 0.000 | 24.299 | 60.055 | 87.060 | 95.735  |
| 115.5 | 0.000 | 24.077 | 59.515 | 86.272 | 94.941  |
| 116.0 | 0.000 | 23.950 | 58.944 | 85.510 | 94.103  |
| 116.5 | 0.000 | 23.721 | 58.391 | 84.672 | 93.277  |
| 117.0 | 0.000 | 23.499 | 57.832 | 83.871 | 92.401  |
| 117.5 | 0.000 | 23.257 | 57.299 | 83.122 | 91.556  |
| 118.0 | 0.000 | 23.073 | 56.683 | 82.309 | 90.629  |
| 118.5 | 0.000 | 22.832 | 56.041 | 81.509 | 89.746  |
| 119.0 | 0.000 | 22.578 | 55.489 | 80.670 | 88.755  |
| 119.5 | 0.000 | 22.394 | 54.930 | 79.838 | 87.860  |
| 120.0 | 0.000 | 22.152 | 54.295 | 78.956 | 86.901  |
| 120.5 | 0.000 | 21.994 | 53.723 | 78.111 | 85.980  |
| 121.0 | 0.000 | 21.790 | 53.139 | 77.228 | 84.945  |
| 121.5 | 0.000 | 21.587 | 52.618 | 76.276 | 84.011  |
| 122.0 | 0.000 | 21.371 | 52.034 | 75.418 | 83.020  |
| 122.5 | 0.000 | 21.162 | 51.373 | 74.465 | 82.061  |
| 123.0 | 0.000 | 20.958 | 50.764 | 73.602 | 81.064  |
| 123.5 | 0.000 | 20.761 | 50.141 | 72.694 | 80.086  |
| 124.0 | 0.000 | 20.577 | 49.519 | 71.792 | 79.121  |
| 124.5 | 0.000 | 20.393 | 48.915 | 70.890 | 78.092  |
| 125.0 | 0.000 | 20.203 | 48.287 | 70.013 | 77.114  |
| 125.5 | 0.000 | 19.987 | 47.709 | 69.118 | 76.091  |
| 126.0 | 0.000 | 19.847 | 47.080 | 68.203 | 75.113  |
| 126.5 | 0.000 | 19.675 | 46.496 | 67.314 | 74.142  |
| 127.0 | 0.000 | 19.415 | 45.880 | 66.374 | 73.087  |
| 127.5 | 0.000 | 19.282 | 45.257 | 65.492 | 72.128  |
| 128.0 | 0.000 | 19.059 | 44.679 | 64.577 | 71.131  |
| 128.5 | 0.000 | 18.850 | 44.076 | 63.694 | 70.134  |
| 129.0 | 0.000 | 18.672 | 43.485 | 62.773 | 69.118  |
| 129.5 | 0.000 | 18.494 | 42.901 | 61.948 | 68.121  |
| 130.0 | 0.000 | 18.297 | 42.241 | 61.020 | 67.067  |
| 130.5 | 0.000 | 18.056 | 41.707 | 60.157 | 66.095  |
| 131.0 | 0.000 | 17.853 | 41.072 | 59.236 | 65.098  |
| 131.5 | 0.000 | 17.681 | 40.475 | 58.372 | 64.183  |
| 132.0 | 0.000 | 17.491 | 39.922 | 57.477 | 63.142  |
| 132.5 | 0.000 | 17.256 | 39.306 | 56.606 | 62.157  |
| 133.0 | 0.000 | 17.059 | 38.722 | 55.730 | 61.230  |
| 133.5 | 0.000 | 16.811 | 38.163 | 54.790 | 60.252  |
| 134.0 | 0.000 | 16.633 | 37.566 | 53.971 | 59.229  |
| 134.5 | 0.000 | 16.417 | 36.976 | 53.050 | 58.207  |
| 135.0 | 0.000 | 16.208 | 36.429 | 52.180 | 57.229  |
| 135.5 | 0.000 | 15.935 | 35.813 | 51.335 | 56.270  |
| 136.0 | 0.000 | 15.795 | 35.204 | 50.471 | 55.273  |
| 136.5 | 0.000 | 15.585 | 34.651 | 49.608 | 54.352  |
| 137.0 | 0.000 | 15.325 | 34.041 | 48.706 | 53.361  |
| 137.5 | 0.000 | 15.084 | 33.482 | 47.861 | 52.402  |
| 138.0 | 0.000 | 14.842 | 32.924 | 46.953 | 51.424  |
| 138.5 | 0.000 | 14.626 | 32.339 | 46.140 | 50.541  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |        |        |        |        |
|-------|-------|--------|--------|--------|--------|
| 139.0 | 0.000 | 14.366 | 31.749 | 45.270 | 49.506 |
| 139.5 | 0.000 | 14.137 | 31.241 | 44.444 | 48.630 |
| 140.0 | 0.000 | 13.902 | 30.618 | 43.631 | 47.683 |
| 140.5 | 0.000 | 13.661 | 30.097 | 42.799 | 46.750 |
| 141.0 | 0.000 | 13.369 | 29.539 | 41.929 | 45.854 |
| 141.5 | 0.000 | 13.172 | 28.992 | 41.154 | 44.971 |
| 142.0 | 0.000 | 12.912 | 28.427 | 40.342 | 44.070 |
| 142.5 | 0.000 | 12.638 | 27.843 | 39.541 | 43.206 |
| 143.0 | 0.000 | 12.353 | 27.335 | 38.773 | 42.285 |
| 143.5 | 0.000 | 12.048 | 26.776 | 37.960 | 41.402 |
| 144.0 | 0.000 | 11.838 | 26.230 | 37.198 | 40.589 |
| 144.5 | 0.000 | 11.559 | 25.722 | 36.436 | 39.726 |
| 145.0 | 0.000 | 11.286 | 25.194 | 35.623 | 38.894 |
| 145.5 | 0.000 | 10.994 | 24.705 | 34.886 | 38.004 |
| 146.0 | 0.000 | 10.740 | 24.178 | 34.130 | 37.230 |
| 146.5 | 0.000 | 10.492 | 23.619 | 33.394 | 36.366 |
| 147.0 | 0.000 | 10.181 | 23.130 | 32.644 | 35.559 |
| 147.5 | 0.000 | 9.927  | 22.603 | 31.863 | 34.734 |
| 148.0 | 0.000 | 9.685  | 22.108 | 31.145 | 33.959 |
| 148.5 | 0.000 | 9.368  | 21.632 | 30.434 | 33.197 |
| 149.0 | 0.000 | 9.139  | 21.104 | 29.742 | 32.390 |
| 149.5 | 0.000 | 8.891  | 20.596 | 29.043 | 31.545 |
| 150.0 | 0.000 | 8.593  | 20.107 | 28.332 | 30.771 |
| 150.5 | 0.000 | 8.326  | 19.606 | 27.659 | 30.040 |
| 151.0 | 0.000 | 8.091  | 19.180 | 26.916 | 29.291 |
| 151.5 | 0.000 | 7.831  | 18.672 | 26.255 | 28.580 |
| 152.0 | 0.000 | 7.570  | 18.196 | 25.582 | 27.855 |
| 152.5 | 0.000 | 7.354  | 17.732 | 24.934 | 27.074 |
| 153.0 | 0.000 | 7.119  | 17.287 | 24.242 | 26.369 |
| 153.5 | 0.000 | 6.923  | 16.798 | 23.626 | 25.753 |
| 154.0 | 0.000 | 6.637  | 16.328 | 22.991 | 24.966 |
| 154.5 | 0.000 | 6.395  | 15.858 | 22.330 | 24.324 |
| 155.0 | 0.000 | 6.205  | 15.382 | 21.746 | 23.607 |
| 155.5 | 0.000 | 5.932  | 14.957 | 21.092 | 22.940 |
| 156.0 | 0.000 | 5.735  | 14.487 | 20.507 | 22.273 |
| 156.5 | 0.000 | 5.513  | 14.036 | 19.898 | 21.619 |
| 157.0 | 0.000 | 5.316  | 13.521 | 19.313 | 21.009 |
| 157.5 | 0.000 | 5.094  | 13.070 | 18.774 | 20.387 |
| 158.0 | 0.000 | 4.954  | 12.613 | 18.196 | 19.777 |
| 158.5 | 0.000 | 4.687  | 12.105 | 17.656 | 19.174 |
| 159.0 | 0.000 | 4.528  | 11.648 | 17.097 | 18.558 |
| 159.5 | 0.000 | 4.363  | 11.229 | 16.595 | 17.967 |
| 160.0 | 0.000 | 4.122  | 10.771 | 15.992 | 17.383 |
| 160.5 | 0.000 | 3.944  | 10.339 | 15.452 | 16.817 |
| 161.0 | 0.000 | 0.000  | 9.908  | 14.918 | 16.220 |
| 161.5 | 0.000 | 0.000  | 9.450  | 14.360 | 15.636 |
| 162.0 | 0.000 | 0.000  | 9.101  | 13.858 | 15.090 |
| 162.5 | 0.000 | 0.000  | 8.669  | 13.350 | 14.499 |
| 163.0 | 0.000 | 0.000  | 8.288  | 12.816 | 13.909 |
| 163.5 | 0.000 | 0.000  | 7.894  | 12.296 | 13.369 |
| 164.0 | 0.000 | 0.000  | 7.431  | 11.813 | 12.848 |
| 164.5 | 0.000 | 0.000  | 7.119  | 11.292 | 12.296 |
| 165.0 | 0.000 | 0.000  | 6.694  | 10.803 | 11.756 |
| 165.5 | 0.000 | 0.000  | 6.319  | 10.320 | 11.184 |
| 166.0 | 0.000 | 0.000  | 5.932  | 9.774  | 10.619 |
| 166.5 | 0.000 | 0.000  | 5.627  | 9.247  | 10.143 |



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.000 | 0.000 | 5.227 | 8.783 | 9.565 |
| 167.5 | 0.000 | 0.000 | 4.859 | 8.269 | 9.088 |
| 168.0 | 0.000 | 0.000 | 4.516 | 7.774 | 8.510 |
| 168.5 | 0.000 | 0.000 | 4.211 | 7.253 | 8.028 |
| 169.0 | 0.000 | 0.000 | 3.830 | 6.783 | 7.520 |
| 169.5 | 0.000 | 0.000 | 0.000 | 6.338 | 7.005 |
| 170.0 | 0.000 | 0.000 | 0.000 | 5.849 | 6.548 |
| 170.5 | 0.000 | 0.000 | 0.000 | 5.348 | 5.964 |
| 171.0 | 0.000 | 0.000 | 0.000 | 4.846 | 5.468 |
| 171.5 | 0.000 | 0.000 | 0.000 | 4.408 | 4.960 |
| 172.0 | 0.000 | 0.000 | 0.000 | 3.919 | 4.477 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 4.007 |
| 173.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 173.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 174.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 176.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 178.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 179.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 555.75  | N.A.  | 12.90  |
| 0-30    | 1168.97 | N.A.  | 27.20  |
| 0-40    | 1882.62 | N.A.  | 43.70  |
| 0-60    | 3174.5  | N.A.  | 73.70  |
| 0-80    | 3888.36 | N.A.  | 90.30  |
| 0-90    | 4021.8  | N.A.  | 93.40  |
| 10-90   | 3877.39 | N.A.  | 90.10  |
| 20-40   | 1326.88 | N.A.  | 30.80  |
| 20-50   | 2025.86 | N.A.  | 47.10  |
| 40-70   | 1730.83 | N.A.  | 40.20  |
| 60-80   | 713.86  | N.A.  | 16.60  |
| 70-80   | 274.90  | N.A.  | 6.40   |
| 80-90   | 133.44  | N.A.  | 3.10   |
| 90-110  | 140.05  | N.A.  | 3.30   |
| 90-120  | 194.40  | N.A.  | 4.50   |
| 90-130  | 234.21  | N.A.  | 5.40   |
| 90-150  | 274.72  | N.A.  | 6.40   |
| 90-180  | 283.09  | N.A.  | 6.60   |
| 110-180 | 143.04  | N.A.  | 3.30   |
| 0-180   | 4304.89 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 144.41 |
| 10-20   | 411.34 |
| 20-30   | 613.22 |
| 30-40   | 713.66 |
| 40-50   | 698.99 |
| 50-60   | 592.89 |
| 60-70   | 438.96 |
| 70-80   | 274.90 |
| 80-90   | 133.44 |
| 90-100  | 74.05  |
| 100-110 | 66.01  |
| 110-120 | 54.35  |
| 120-130 | 39.81  |
| 130-140 | 25.96  |
| 140-150 | 14.54  |
| 150-160 | 6.53   |
| 160-170 | 1.77   |
| 170-180 | 0.07   |

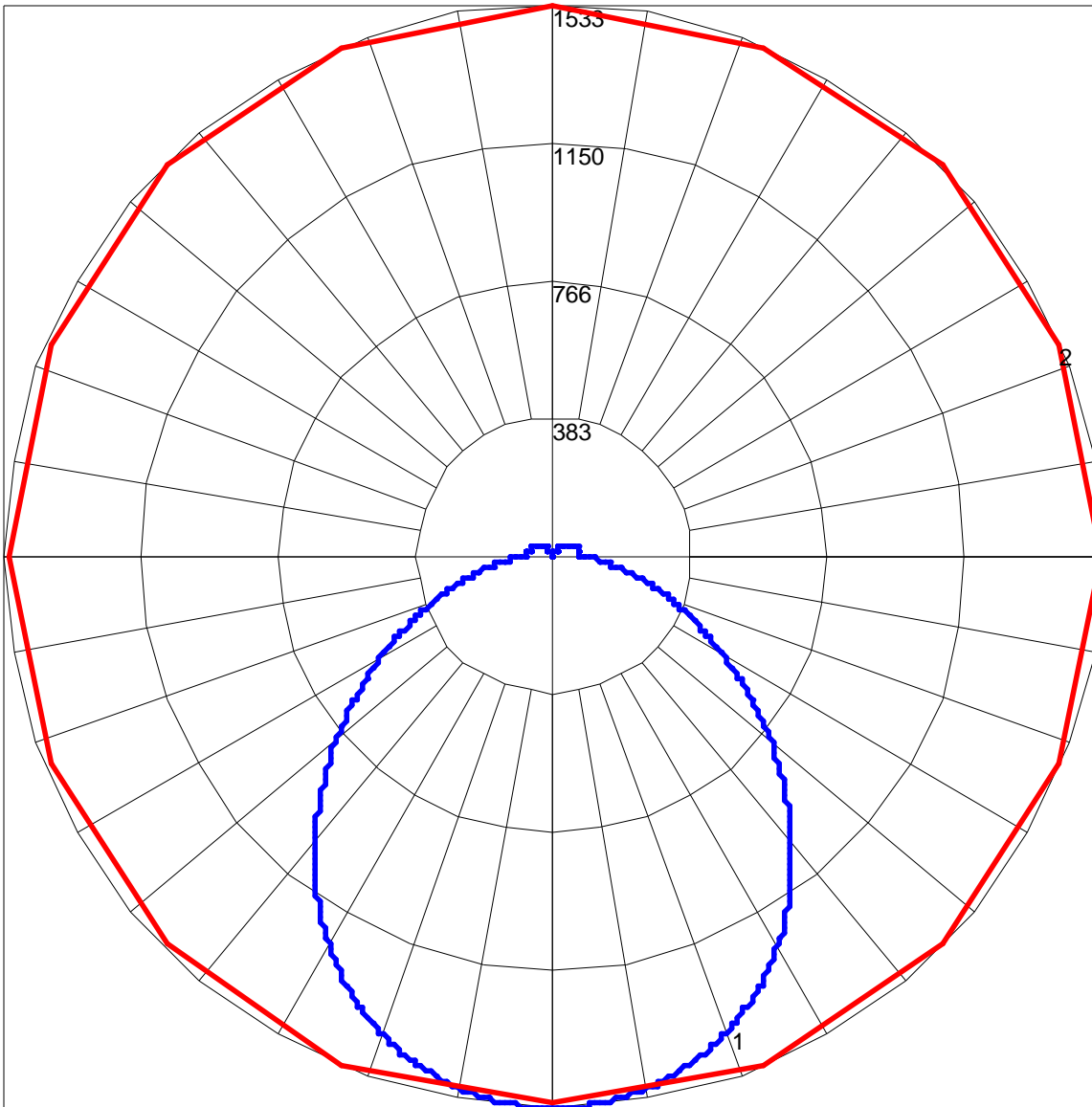
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED35DMVFR30.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC<br>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        | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1        | 107 | 102 | 98  | 94  | 104 | 99  | 95  | 92  | 94  | 90  | 88  | 89  | 86  | 84  | 84 | 82 | 80 | 78 |
| 2        | 97  | 89  | 82  | 77  | 94  | 87  | 81  | 75  | 82  | 77  | 72  | 78  | 74  | 70  | 74 | 70 | 67 | 65 |
| 3        | 89  | 79  | 70  | 64  | 86  | 76  | 69  | 63  | 73  | 66  | 61  | 69  | 64  | 59  | 66 | 61 | 57 | 55 |
| 4        | 82  | 70  | 61  | 55  | 79  | 68  | 60  | 54  | 65  | 58  | 52  | 62  | 56  | 51  | 59 | 54 | 50 | 47 |
| 5        | 75  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 58  | 51  | 45  | 55  | 49  | 44  | 53 | 48 | 43 | 41 |
| 6        | 69  | 56  | 48  | 41  | 67  | 55  | 47  | 41  | 53  | 45  | 40  | 50  | 44  | 39  | 48 | 43 | 38 | 36 |
| 7        | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 36  | 48  | 41  | 35  | 46  | 40  | 35  | 44 | 38 | 34 | 32 |
| 8        | 60  | 47  | 38  | 33  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 42  | 36  | 31  | 41 | 35 | 31 | 29 |
| 9        | 56  | 43  | 35  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  | 39  | 33  | 28  | 38 | 32 | 28 | 26 |
| 10       | 53  | 40  | 32  | 27  | 51  | 39  | 32  | 27  | 38  | 31  | 26  | 36  | 30  | 26  | 35 | 29 | 25 | 24 |

POLAR GRAPH



Maximum Candela = 1532.827 Located At Horizontal Angle = 45, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)