



IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L40-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 14972499.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-10-24
[TEST DATE] 9/20/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] APC-22-L40-840-DIM-UNV
[LUMINAIRE] RECESSED 2X2 ARCH LED LUMINAIRE
[MORE] W/CENTER FIN
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Architectural, Direct-Indirect
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3856 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 107 |
| Total Luminaire Watts | 36.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.80 ft |
| Luminous Width (90-270) | 1.87 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4078 | 4027 | 4068 |
| 55 | 3952 | 3870 | 3938 |
| 65 | 3710 | 3595 | 3647 |
| 75 | 3250 | 3037 | 3087 |
| 85 | 1950 | 1772 | 1871 |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1385.007 | 1385.007 | 1385.007 | 1385.007 | 1385.007 |
| 0.5 | 1382.318 | 1385.007 | 1386.352 | 1386.352 | 1386.352 |
| 1.0 | 1382.318 | 1386.352 | 1386.352 | 1386.352 | 1386.352 |
| 1.5 | 1380.973 | 1385.007 | 1385.007 | 1385.007 | 1385.007 |
| 2.0 | 1379.628 | 1385.007 | 1385.007 | 1385.007 | 1383.662 |
| 2.5 | 1379.628 | 1383.662 | 1385.007 | 1385.007 | 1383.662 |
| 3.0 | 1378.284 | 1382.318 | 1383.662 | 1383.662 | 1383.662 |
| 3.5 | 1378.284 | 1382.318 | 1382.318 | 1382.318 | 1382.318 |
| 4.0 | 1376.939 | 1380.973 | 1380.973 | 1380.973 | 1382.318 |
| 4.5 | 1375.594 | 1379.628 | 1379.628 | 1380.973 | 1379.628 |
| 5.0 | 1374.250 | 1376.939 | 1378.284 | 1379.628 | 1379.628 |
| 5.5 | 1371.560 | 1375.594 | 1376.939 | 1378.284 | 1376.939 |
| 6.0 | 1368.871 | 1374.250 | 1375.594 | 1376.939 | 1375.594 |
| 6.5 | 1367.526 | 1371.560 | 1372.905 | 1374.250 | 1375.594 |
| 7.0 | 1366.182 | 1370.216 | 1371.560 | 1372.905 | 1372.905 |
| 7.5 | 1363.492 | 1366.182 | 1368.871 | 1370.216 | 1371.560 |
| 8.0 | 1360.803 | 1364.837 | 1367.526 | 1368.871 | 1368.871 |
| 8.5 | 1358.114 | 1362.148 | 1364.837 | 1366.182 | 1367.526 |
| 9.0 | 1355.424 | 1359.458 | 1362.148 | 1364.837 | 1364.837 |
| 9.5 | 1352.735 | 1358.114 | 1359.458 | 1362.148 | 1362.148 |
| 10.0 | 1350.046 | 1355.424 | 1356.769 | 1359.458 | 1359.458 |
| 10.5 | 1347.356 | 1351.390 | 1354.080 | 1356.769 | 1356.769 |
| 11.0 | 1344.264 | 1348.701 | 1351.390 | 1354.080 | 1355.424 |
| 11.5 | 1341.440 | 1346.012 | 1348.701 | 1351.390 | 1352.735 |
| 12.0 | 1338.213 | 1343.188 | 1344.667 | 1348.701 | 1350.046 |
| 12.5 | 1335.523 | 1339.557 | 1341.574 | 1346.012 | 1347.356 |
| 13.0 | 1332.565 | 1336.196 | 1338.885 | 1342.247 | 1343.726 |
| 13.5 | 1328.665 | 1331.758 | 1335.523 | 1339.019 | 1340.095 |
| 14.0 | 1324.497 | 1328.531 | 1331.489 | 1335.120 | 1336.599 |
| 14.5 | 1320.060 | 1325.169 | 1327.859 | 1331.355 | 1332.565 |
| 15.0 | 1316.698 | 1321.001 | 1323.825 | 1327.186 | 1328.531 |
| 15.5 | 1313.605 | 1316.429 | 1319.925 | 1323.287 | 1324.900 |
| 16.0 | 1309.168 | 1312.126 | 1315.891 | 1318.849 | 1320.328 |
| 16.5 | 1305.134 | 1308.092 | 1311.857 | 1314.277 | 1316.294 |
| 17.0 | 1299.755 | 1304.596 | 1307.016 | 1309.706 | 1311.319 |
| 17.5 | 1295.318 | 1300.158 | 1302.713 | 1304.596 | 1306.075 |
| 18.0 | 1291.149 | 1295.049 | 1297.738 | 1299.755 | 1301.100 |
| 18.5 | 1285.905 | 1290.208 | 1293.166 | 1294.107 | 1295.452 |
| 19.0 | 1281.333 | 1285.502 | 1288.056 | 1288.998 | 1290.342 |
| 19.5 | 1276.089 | 1280.526 | 1282.812 | 1283.485 | 1285.771 |
| 20.0 | 1271.786 | 1275.820 | 1277.837 | 1277.568 | 1280.123 |
| 20.5 | 1266.542 | 1270.441 | 1272.593 | 1272.055 | 1274.610 |
| 21.0 | 1261.432 | 1264.928 | 1267.080 | 1266.542 | 1268.828 |
| 21.5 | 1256.053 | 1259.281 | 1261.567 | 1261.163 | 1262.911 |
| 22.0 | 1250.002 | 1254.171 | 1255.516 | 1255.112 | 1257.129 |
| 22.5 | 1244.355 | 1248.658 | 1249.465 | 1249.061 | 1251.482 |
| 23.0 | 1238.842 | 1243.010 | 1243.548 | 1243.145 | 1245.834 |
| 23.5 | 1233.597 | 1236.690 | 1237.900 | 1236.690 | 1240.186 |
| 24.0 | 1227.815 | 1231.312 | 1231.177 | 1230.774 | 1234.270 |
| 24.5 | 1221.630 | 1225.664 | 1224.992 | 1224.992 | 1228.219 |
| 25.0 | 1215.713 | 1220.554 | 1218.403 | 1218.941 | 1222.302 |
| 25.5 | 1208.856 | 1214.369 | 1212.352 | 1212.083 | 1215.848 |
| 26.0 | 1203.477 | 1207.914 | 1206.166 | 1206.166 | 1209.797 |
| 26.5 | 1197.426 | 1201.594 | 1199.577 | 1199.846 | 1202.536 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1191.913 | 1195.947 | 1193.257 | 1193.123 | 1196.754 |
| 27.5 | 1185.055 | 1189.627 | 1186.131 | 1186.669 | 1190.972 |
| 28.0 | 1179.273 | 1183.441 | 1179.676 | 1179.945 | 1184.921 |
| 28.5 | 1172.684 | 1177.256 | 1173.087 | 1173.087 | 1178.466 |
| 29.0 | 1166.230 | 1170.533 | 1166.499 | 1166.768 | 1171.608 |
| 29.5 | 1159.372 | 1163.675 | 1159.372 | 1159.910 | 1164.616 |
| 30.0 | 1152.917 | 1157.489 | 1152.380 | 1153.321 | 1157.489 |
| 30.5 | 1145.656 | 1150.900 | 1145.522 | 1146.194 | 1151.438 |
| 31.0 | 1139.202 | 1144.312 | 1138.126 | 1138.798 | 1143.774 |
| 31.5 | 1132.479 | 1136.781 | 1131.134 | 1131.806 | 1136.109 |
| 32.0 | 1126.159 | 1129.520 | 1123.873 | 1124.276 | 1128.982 |
| 32.5 | 1118.763 | 1122.394 | 1116.343 | 1116.611 | 1122.394 |
| 33.0 | 1111.367 | 1114.863 | 1108.409 | 1109.619 | 1114.191 |
| 33.5 | 1103.703 | 1107.602 | 1100.879 | 1101.417 | 1106.930 |
| 34.0 | 1096.576 | 1099.400 | 1092.811 | 1093.618 | 1099.534 |
| 34.5 | 1088.911 | 1090.928 | 1084.877 | 1085.819 | 1090.928 |
| 35.0 | 1081.112 | 1082.995 | 1076.271 | 1077.482 | 1082.860 |
| 35.5 | 1073.582 | 1075.196 | 1067.397 | 1068.472 | 1074.658 |
| 36.0 | 1064.976 | 1066.590 | 1058.791 | 1059.732 | 1066.052 |
| 36.5 | 1055.967 | 1057.849 | 1049.916 | 1050.992 | 1057.849 |
| 37.0 | 1047.899 | 1048.975 | 1041.041 | 1041.982 | 1048.437 |
| 37.5 | 1039.159 | 1039.293 | 1032.032 | 1032.839 | 1039.428 |
| 38.0 | 1030.015 | 1030.284 | 1022.888 | 1023.829 | 1030.418 |
| 38.5 | 1021.006 | 1021.140 | 1013.341 | 1014.551 | 1020.468 |
| 39.0 | 1011.190 | 1011.593 | 1003.928 | 1005.407 | 1011.324 |
| 39.5 | 1002.584 | 1001.642 | 994.516 | 995.995 | 1000.970 |
| 40.0 | 993.709 | 992.230 | 984.969 | 986.448 | 991.961 |
| 40.5 | 983.355 | 982.683 | 975.421 | 977.035 | 982.952 |
| 41.0 | 974.077 | 973.539 | 965.874 | 967.353 | 973.539 |
| 41.5 | 964.261 | 963.992 | 956.327 | 957.672 | 964.664 |
| 42.0 | 954.714 | 953.907 | 946.511 | 948.528 | 954.579 |
| 42.5 | 946.108 | 944.225 | 936.695 | 939.115 | 945.301 |
| 43.0 | 936.426 | 934.544 | 927.417 | 929.434 | 936.023 |
| 43.5 | 927.551 | 925.534 | 917.870 | 919.887 | 927.013 |
| 44.0 | 919.214 | 915.853 | 908.457 | 910.474 | 918.273 |
| 44.5 | 910.205 | 905.768 | 899.179 | 901.061 | 908.323 |
| 45.0 | 901.061 | 896.758 | 889.901 | 891.918 | 898.910 |
| 45.5 | 892.187 | 886.942 | 880.622 | 882.102 | 889.901 |
| 46.0 | 883.312 | 877.799 | 870.941 | 873.227 | 880.622 |
| 46.5 | 873.630 | 868.520 | 860.990 | 863.276 | 871.075 |
| 47.0 | 863.949 | 859.108 | 852.384 | 853.998 | 861.259 |
| 47.5 | 854.536 | 849.292 | 842.299 | 844.720 | 851.712 |
| 48.0 | 845.661 | 839.745 | 834.097 | 836.921 | 843.510 |
| 48.5 | 837.728 | 833.559 | 827.508 | 829.794 | 835.307 |
| 49.0 | 829.928 | 824.953 | 817.423 | 820.112 | 827.239 |
| 49.5 | 820.516 | 815.003 | 807.607 | 810.027 | 818.095 |
| 50.0 | 810.431 | 804.783 | 797.656 | 800.211 | 808.145 |
| 50.5 | 800.480 | 794.833 | 787.437 | 790.126 | 797.522 |
| 51.0 | 789.992 | 784.882 | 777.218 | 779.907 | 787.303 |
| 51.5 | 779.907 | 774.663 | 766.864 | 769.687 | 777.352 |
| 52.0 | 769.418 | 764.309 | 756.375 | 759.333 | 767.670 |
| 52.5 | 759.602 | 753.686 | 746.156 | 748.979 | 757.451 |
| 53.0 | 749.786 | 742.928 | 735.936 | 738.894 | 746.694 |
| 53.5 | 739.432 | 732.575 | 725.448 | 728.406 | 736.474 |
| 54.0 | 729.213 | 722.086 | 714.959 | 718.187 | 726.389 |
| 54.5 | 718.456 | 711.463 | 704.337 | 707.564 | 716.304 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 708.371 | 700.571 | 693.714 | 696.941 | 705.816 |
| 55.5 | 698.151 | 689.949 | 683.091 | 686.184 | 694.789 |
| 56.0 | 687.797 | 679.057 | 672.602 | 675.695 | 684.435 |
| 56.5 | 677.712 | 668.299 | 661.442 | 664.938 | 673.678 |
| 57.0 | 666.955 | 657.542 | 650.684 | 653.777 | 662.786 |
| 57.5 | 655.929 | 646.785 | 639.927 | 643.020 | 652.298 |
| 58.0 | 644.902 | 635.624 | 629.304 | 632.262 | 641.003 |
| 58.5 | 634.145 | 624.598 | 618.412 | 621.505 | 629.708 |
| 59.0 | 623.119 | 613.975 | 607.521 | 610.748 | 617.740 |
| 59.5 | 612.227 | 603.218 | 596.360 | 599.856 | 606.848 |
| 60.0 | 601.201 | 592.460 | 585.468 | 589.099 | 595.419 |
| 60.5 | 590.040 | 581.703 | 574.711 | 578.072 | 583.989 |
| 61.0 | 579.283 | 570.542 | 563.684 | 566.777 | 572.425 |
| 61.5 | 567.987 | 559.650 | 552.793 | 555.347 | 561.130 |
| 62.0 | 556.692 | 548.893 | 541.766 | 543.918 | 549.834 |
| 62.5 | 545.262 | 538.001 | 530.875 | 532.488 | 538.539 |
| 63.0 | 533.833 | 526.706 | 519.579 | 521.058 | 527.244 |
| 63.5 | 523.075 | 515.411 | 508.688 | 509.629 | 515.814 |
| 64.0 | 512.184 | 503.981 | 497.527 | 498.199 | 504.385 |
| 64.5 | 501.157 | 492.686 | 486.097 | 486.635 | 493.089 |
| 65.0 | 489.997 | 481.256 | 474.802 | 475.071 | 481.660 |
| 65.5 | 478.701 | 469.827 | 463.641 | 463.238 | 470.096 |
| 66.0 | 467.541 | 458.397 | 452.480 | 451.539 | 458.666 |
| 66.5 | 456.380 | 446.833 | 441.051 | 439.975 | 447.102 |
| 67.0 | 444.950 | 435.403 | 429.352 | 428.411 | 435.403 |
| 67.5 | 433.790 | 424.108 | 417.788 | 416.712 | 423.705 |
| 68.0 | 422.225 | 412.813 | 406.089 | 404.745 | 412.006 |
| 68.5 | 410.930 | 401.114 | 394.525 | 393.181 | 400.307 |
| 69.0 | 399.904 | 389.550 | 382.827 | 381.482 | 388.340 |
| 69.5 | 388.609 | 378.389 | 371.128 | 369.918 | 376.641 |
| 70.0 | 377.045 | 366.960 | 359.429 | 358.488 | 365.212 |
| 70.5 | 365.480 | 355.799 | 347.865 | 346.924 | 353.513 |
| 71.0 | 353.782 | 344.504 | 336.301 | 335.360 | 341.814 |
| 71.5 | 342.083 | 333.343 | 324.737 | 323.930 | 329.847 |
| 72.0 | 330.923 | 322.182 | 313.442 | 312.501 | 318.283 |
| 72.5 | 319.224 | 310.887 | 301.743 | 301.205 | 306.853 |
| 73.0 | 307.525 | 299.861 | 290.448 | 289.641 | 295.558 |
| 73.5 | 296.365 | 288.700 | 279.153 | 278.346 | 284.128 |
| 74.0 | 285.069 | 277.539 | 267.992 | 267.320 | 272.430 |
| 74.5 | 274.043 | 266.513 | 256.697 | 256.294 | 261.134 |
| 75.0 | 262.882 | 255.487 | 245.671 | 245.133 | 249.705 |
| 75.5 | 251.856 | 244.595 | 234.644 | 233.972 | 238.678 |
| 76.0 | 240.964 | 233.703 | 223.618 | 222.811 | 226.980 |
| 76.5 | 230.207 | 222.677 | 212.726 | 211.516 | 215.416 |
| 77.0 | 219.450 | 211.785 | 201.969 | 200.086 | 203.583 |
| 77.5 | 208.558 | 200.893 | 191.212 | 188.791 | 191.615 |
| 78.0 | 198.069 | 190.270 | 180.454 | 177.496 | 179.916 |
| 78.5 | 187.178 | 179.379 | 169.831 | 166.201 | 167.546 |
| 79.0 | 176.555 | 168.487 | 159.209 | 154.771 | 154.637 |
| 79.5 | 165.663 | 157.998 | 148.720 | 143.073 | 140.652 |
| 80.0 | 155.175 | 147.510 | 138.366 | 130.702 | 128.281 |
| 80.5 | 144.552 | 137.022 | 127.878 | 118.331 | 119.541 |
| 81.0 | 134.063 | 126.802 | 117.658 | 108.515 | 111.607 |
| 81.5 | 123.440 | 116.717 | 107.304 | 100.581 | 103.674 |
| 82.0 | 112.952 | 106.767 | 97.219 | 92.916 | 95.875 |
| 82.5 | 102.733 | 96.950 | 87.000 | 85.386 | 88.210 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 83.0 | 92.379 | 87.269 | 77.587 | 77.856 | 80.680 |
| 83.5 | 82.159 | 77.722 | 69.654 | 70.461 | 73.150 |
| 84.0 | 72.074 | 68.444 | 62.393 | 63.199 | 65.485 |
| 84.5 | 62.393 | 59.569 | 55.266 | 56.073 | 58.224 |
| 85.0 | 53.114 | 51.232 | 48.274 | 48.946 | 50.963 |
| 85.5 | 44.912 | 43.567 | 41.416 | 41.954 | 43.836 |
| 86.0 | 37.516 | 36.575 | 34.827 | 35.230 | 36.709 |
| 86.5 | 30.927 | 30.121 | 28.372 | 28.507 | 29.583 |
| 87.0 | 25.145 | 23.935 | 22.321 | 22.053 | 22.725 |
| 87.5 | 19.901 | 18.422 | 16.405 | 15.598 | 15.733 |
| 88.0 | 15.329 | 13.447 | 11.161 | 9.144 | 8.202 |
| 88.5 | 11.161 | 9.413 | 6.858 | 4.437 | 3.362 |
| 89.0 | 7.261 | 6.051 | 3.631 | 2.420 | 2.151 |
| 89.5 | 4.034 | 3.496 | 1.883 | 1.479 | 1.479 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 111.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 111.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 113.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 114.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 116.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 118.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 119.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 121.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 123.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 124.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 126.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 128.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 129.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 131.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 133.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 134.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 136.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 138.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L40-840-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 139.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 139.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 141.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 143.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 144.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 146.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 148.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 149.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 151.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 153.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 154.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 156.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 158.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 159.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 161.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 163.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 164.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 166.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L40-840-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 167.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 168.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 169.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 171.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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 : APC-22-L40-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 504.17 | N.A. | 13.10 |
| 0-30 | 1066.16 | N.A. | 27.70 |
| 0-40 | 1740.49 | N.A. | 45.10 |
| 0-60 | 3056.6 | N.A. | 79.30 |
| 0-80 | 3794.92 | N.A. | 98.40 |
| 0-90 | 3855.9 | N.A. | 100.00 |
| 10-90 | 3725.06 | N.A. | 96.60 |
| 20-40 | 1236.32 | N.A. | 32.10 |
| 20-50 | 1927.5 | N.A. | 50.00 |
| 40-70 | 1789.71 | N.A. | 46.40 |
| 60-80 | 738.32 | N.A. | 19.10 |
| 70-80 | 264.72 | N.A. | 6.90 |
| 80-90 | 60.98 | N.A. | 1.60 |
| 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 | 3855.9 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 130.84 |
| 10-20 | 373.33 |
| 20-30 | 561.99 |
| 30-40 | 674.33 |
| 40-50 | 691.17 |
| 50-60 | 624.93 |
| 60-70 | 473.60 |
| 70-80 | 264.72 |
| 80-90 | 60.98 |
| 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 : APC-22-L40-840-DIM-UNV_.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 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 46 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 60 | 47 | 38 | 33 | 59 | 46 | 38 | 32 | 45 | 38 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L40-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

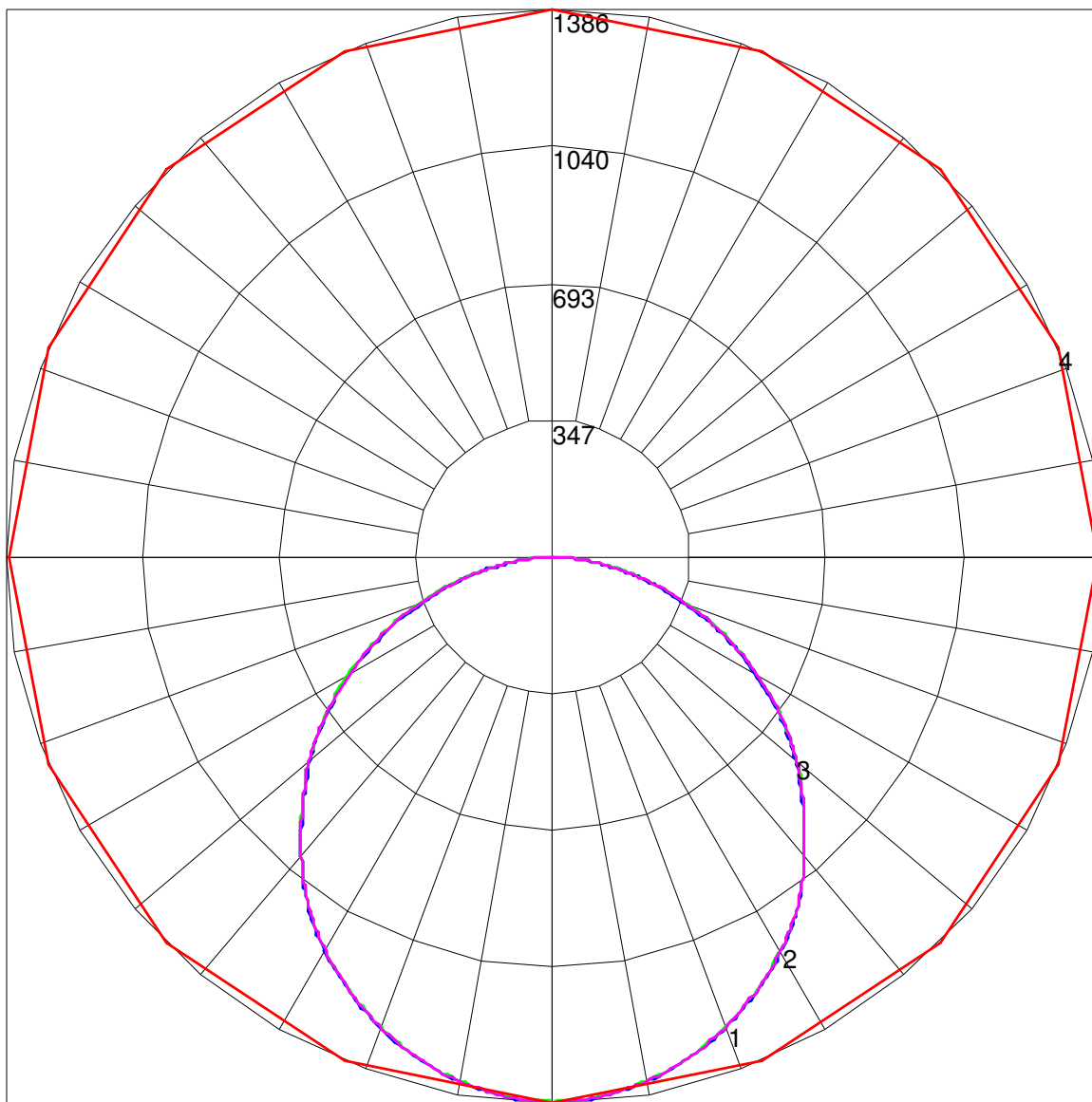
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 16.9 | 18.6 | 17.3 | 18.9 | 19.2 | 16.9 | 18.5 | 17.3 | 18.8 | 19.2 |
| | 3H | 18.8 | 20.3 | 19.2 | 20.6 | 20.9 | 18.7 | 20.2 | 19.1 | 20.5 | 20.9 |
| | 4H | 19.5 | 20.8 | 19.9 | 21.2 | 21.6 | 19.3 | 20.7 | 19.7 | 21.1 | 21.4 |
| | 6H | 19.9 | 21.2 | 20.4 | 21.6 | 22.0 | 19.7 | 21.0 | 20.1 | 21.4 | 21.8 |
| | 8H | 20.1 | 21.3 | 20.5 | 21.7 | 22.1 | 19.8 | 21.1 | 20.3 | 21.4 | 21.8 |
| | 12H | 20.1 | 21.3 | 20.6 | 21.7 | 22.1 | 19.9 | 21.1 | 20.3 | 21.4 | 21.9 |
| 4H | 2H | 17.6 | 18.9 | 17.9 | 19.3 | 19.7 | 17.5 | 18.9 | 17.9 | 19.3 | 19.6 |
| | 3H | 19.6 | 20.8 | 20.0 | 21.2 | 21.6 | 19.5 | 20.7 | 19.9 | 21.1 | 21.5 |
| | 4H | 20.4 | 21.5 | 20.8 | 21.9 | 22.3 | 20.3 | 21.3 | 20.7 | 21.7 | 22.2 |
| | 6H | 21.0 | 21.9 | 21.5 | 22.4 | 22.8 | 20.8 | 21.7 | 21.2 | 22.1 | 22.6 |
| | 8H | 21.2 | 22.1 | 21.6 | 22.5 | 23.0 | 20.9 | 21.8 | 21.4 | 22.2 | 22.7 |
| | 12H | 21.3 | 22.1 | 21.8 | 22.6 | 23.0 | 21.0 | 21.8 | 21.5 | 22.3 | 22.7 |
| 8H | 4H | 20.7 | 21.5 | 21.1 | 22.0 | 22.4 | 20.5 | 21.4 | 21.0 | 21.9 | 22.3 |
| | 6H | 21.4 | 22.1 | 21.9 | 22.6 | 23.1 | 21.2 | 21.9 | 21.7 | 22.4 | 22.8 |
| | 8H | 21.6 | 22.3 | 22.1 | 22.8 | 23.3 | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 |
| | 12H | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 |
| 12H | 4H | 20.7 | 21.5 | 21.2 | 21.9 | 22.4 | 20.6 | 21.4 | 21.1 | 21.8 | 22.3 |
| | 6H | 21.4 | 22.1 | 22.0 | 22.5 | 23.1 | 21.2 | 21.9 | 21.7 | 22.3 | 22.9 |
| | 8H | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 | 21.4 | 22.0 | 22.0 | 22.5 | 23.1 |

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1386.352 Located At Horizontal Angle = 22.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)