



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LRX4-2-L15-835-DMA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13638856.02

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 1-SEP-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] LRX4-2-L15-835-DMA-DIM-UNV

[LUMINAIRE] White steel housing, frosted lens enclosure

[LAMP] white LEDs

[BALLAST] (1) Everline Driver

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector method

[MORE] of absolute photometry.

[\_SEARCH\_SOURCE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct, Linear

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 3011            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 115             |
| Total Luminaire Watts           | 26.1            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.24            |
| Spacing Criterion (90-270)      | 1.10            |
| Spacing Criterion (Diagonal)    | 1.22            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.94 ft         |
| Luminous Width (90-270)         | 0.35 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 17691            | 14960             | 12918             |
| 55                  | 15331            | 12375             | 10619             |
| 65                  | 12911            | 10302             | 9087              |
| 75                  | 10293            | 8529              | 7964              |
| 85                  | 7614             | 7204              | 7241              |

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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  | 1346.617   | 1346.617    | 1346.617    | 1346.617    | 1346.617    |
| 0.5  | 1366.284   | 1347.135    | 1340.407    | 1345.065    | 1340.407    |
| 1.0  | 1366.284   | 1346.617    | 1340.407    | 1345.065    | 1340.407    |
| 1.5  | 1365.766   | 1346.617    | 1339.890    | 1345.065    | 1339.890    |
| 2.0  | 1365.766   | 1346.100    | 1339.372    | 1344.547    | 1339.372    |
| 2.5  | 1364.731   | 1345.065    | 1338.854    | 1344.030    | 1338.854    |
| 3.0  | 1364.214   | 1344.547    | 1338.337    | 1343.512    | 1337.819    |
| 3.5  | 1363.178   | 1343.512    | 1337.302    | 1342.477    | 1336.784    |
| 4.0  | 1362.661   | 1342.477    | 1336.267    | 1341.442    | 1335.749    |
| 4.5  | 1361.108   | 1340.925    | 1335.232    | 1340.407    | 1334.714    |
| 5.0  | 1359.556   | 1339.890    | 1333.679    | 1339.372    | 1332.644    |
| 5.5  | 1358.521   | 1338.337    | 1332.127    | 1337.302    | 1331.092    |
| 6.0  | 1357.486   | 1336.784    | 1330.574    | 1335.749    | 1329.539    |
| 6.5  | 1355.416   | 1335.232    | 1329.021    | 1333.679    | 1326.951    |
| 7.0  | 1353.863   | 1333.162    | 1326.951    | 1331.092    | 1324.881    |
| 7.5  | 1352.310   | 1331.092    | 1324.881    | 1329.021    | 1322.811    |
| 8.0  | 1350.240   | 1329.539    | 1322.293    | 1326.434    | 1320.741    |
| 8.5  | 1348.170   | 1326.951    | 1320.223    | 1323.329    | 1317.636    |
| 9.0  | 1345.582   | 1324.881    | 1317.118    | 1320.223    | 1314.531    |
| 9.5  | 1343.512   | 1322.293    | 1314.531    | 1317.118    | 1311.425    |
| 10.0 | 1340.925   | 1319.706    | 1311.425    | 1314.013    | 1307.803    |
| 10.5 | 1338.337   | 1316.601    | 1308.320    | 1309.873    | 1303.662    |
| 11.0 | 1335.749   | 1314.013    | 1304.697    | 1306.250    | 1299.522    |
| 11.5 | 1332.644   | 1310.908    | 1301.075    | 1302.110    | 1294.864    |
| 12.0 | 1329.539   | 1307.285    | 1297.452    | 1297.452    | 1290.724    |
| 12.5 | 1326.434   | 1304.180    | 1293.312    | 1293.312    | 1285.549    |
| 13.0 | 1322.811   | 1300.557    | 1289.689    | 1288.654    | 1280.891    |
| 13.5 | 1319.706   | 1296.934    | 1285.031    | 1283.479    | 1275.716    |
| 14.0 | 1315.566   | 1292.794    | 1280.891    | 1278.303    | 1270.540    |
| 14.5 | 1311.943   | 1288.654    | 1276.233    | 1272.610    | 1265.365    |
| 15.0 | 1307.803   | 1284.514    | 1271.058    | 1267.435    | 1259.155    |
| 15.5 | 1303.662   | 1280.373    | 1265.883    | 1261.742    | 1253.462    |
| 16.0 | 1299.005   | 1275.716    | 1260.707    | 1255.532    | 1247.251    |
| 16.5 | 1294.347   | 1271.058    | 1255.532    | 1249.322    | 1240.523    |
| 17.0 | 1290.207   | 1266.400    | 1249.839    | 1242.594    | 1233.796    |
| 17.5 | 1285.031   | 1261.225    | 1244.146    | 1235.866    | 1226.550    |
| 18.0 | 1280.373   | 1256.049    | 1237.936    | 1228.620    | 1218.787    |
| 18.5 | 1275.198   | 1250.874    | 1231.725    | 1221.375    | 1211.024    |
| 19.0 | 1270.023   | 1245.181    | 1225.515    | 1213.094    | 1202.744    |
| 19.5 | 1264.847   | 1239.488    | 1218.787    | 1204.814    | 1193.428    |
| 20.0 | 1259.672   | 1233.796    | 1211.542    | 1196.533    | 1184.630    |
| 20.5 | 1253.979   | 1227.585    | 1204.814    | 1187.735    | 1175.314    |
| 21.0 | 1248.286   | 1221.892    | 1197.051    | 1178.420    | 1165.481    |
| 21.5 | 1242.076   | 1215.682    | 1189.805    | 1169.104    | 1156.166    |
| 22.0 | 1235.866   | 1208.954    | 1182.042    | 1159.271    | 1145.298    |
| 22.5 | 1229.655   | 1202.226    | 1173.762    | 1149.438    | 1135.465    |
| 23.0 | 1223.445   | 1195.498    | 1165.999    | 1139.087    | 1124.596    |
| 23.5 | 1216.717   | 1188.253    | 1157.201    | 1129.254    | 1113.728    |
| 24.0 | 1209.989   | 1181.525    | 1148.920    | 1118.904    | 1102.860    |
| 24.5 | 1202.744   | 1173.762    | 1139.605    | 1108.553    | 1091.474    |
| 25.0 | 1195.498   | 1166.516    | 1130.807    | 1097.685    | 1080.089    |
| 25.5 | 1187.735   | 1158.753    | 1121.491    | 1086.817    | 1068.703    |
| 26.0 | 1180.490   | 1150.473    | 1112.176    | 1075.948    | 1057.317    |
| 26.5 | 1172.727   | 1142.710    | 1102.860    | 1065.598    | 1045.414    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 1164.964 | 1134.429 | 1093.027 | 1054.212 | 1033.511 |
| 27.5 | 1157.201 | 1126.149 | 1083.194 | 1042.826 | 1021.090 |
| 28.0 | 1148.920 | 1117.351 | 1073.361 | 1031.441 | 1009.704 |
| 28.5 | 1140.640 | 1108.553 | 1063.528 | 1019.537 | 997.284  |
| 29.0 | 1132.877 | 1099.755 | 1053.177 | 1007.634 | 985.380  |
| 29.5 | 1124.079 | 1090.439 | 1042.826 | 995.731  | 972.960  |
| 30.0 | 1115.798 | 1081.641 | 1031.958 | 983.310  | 960.539  |
| 30.5 | 1106.483 | 1072.326 | 1021.090 | 971.407  | 947.601  |
| 31.0 | 1097.685 | 1062.493 | 1010.222 | 958.469  | 935.180  |
| 31.5 | 1088.887 | 1053.177 | 999.354  | 946.048  | 922.241  |
| 32.0 | 1079.571 | 1043.344 | 987.968  | 933.110  | 909.303  |
| 32.5 | 1070.256 | 1033.511 | 976.582  | 920.171  | 896.365  |
| 33.0 | 1060.940 | 1023.678 | 964.679  | 907.751  | 883.427  |
| 33.5 | 1051.107 | 1013.327 | 953.293  | 894.812  | 869.971  |
| 34.0 | 1041.274 | 1003.494 | 941.390  | 881.356  | 857.032  |
| 34.5 | 1031.441 | 992.626  | 928.969  | 868.418  | 843.577  |
| 35.0 | 1021.090 | 982.275  | 917.066  | 855.480  | 830.638  |
| 35.5 | 1010.739 | 971.407  | 905.163  | 842.542  | 817.700  |
| 36.0 | 1000.389 | 961.056  | 892.742  | 829.603  | 805.279  |
| 36.5 | 989.521  | 950.188  | 880.839  | 817.183  | 792.341  |
| 37.0 | 979.170  | 938.802  | 868.418  | 804.244  | 780.438  |
| 37.5 | 968.302  | 927.417  | 855.997  | 792.341  | 767.500  |
| 38.0 | 957.434  | 916.549  | 843.577  | 779.920  | 754.561  |
| 38.5 | 946.565  | 905.163  | 831.673  | 767.500  | 741.623  |
| 39.0 | 935.697  | 893.777  | 819.253  | 755.079  | 728.685  |
| 39.5 | 924.312  | 882.392  | 806.832  | 743.176  | 715.746  |
| 40.0 | 912.926  | 870.488  | 794.929  | 730.755  | 702.808  |
| 40.5 | 902.058  | 859.103  | 782.508  | 718.334  | 689.870  |
| 41.0 | 890.672  | 847.199  | 770.087  | 705.396  | 677.449  |
| 41.5 | 879.286  | 835.814  | 758.184  | 692.457  | 665.028  |
| 42.0 | 867.383  | 824.428  | 745.763  | 680.037  | 652.607  |
| 42.5 | 856.515  | 812.525  | 733.860  | 667.098  | 640.704  |
| 43.0 | 845.129  | 800.622  | 721.957  | 654.678  | 627.766  |
| 43.5 | 833.226  | 789.236  | 709.536  | 642.774  | 616.380  |
| 44.0 | 821.840  | 777.333  | 697.633  | 630.871  | 604.995  |
| 44.5 | 809.937  | 765.429  | 685.729  | 618.450  | 593.609  |
| 45.0 | 798.034  | 754.044  | 674.861  | 606.547  | 582.741  |
| 45.5 | 786.648  | 742.140  | 663.476  | 595.161  | 571.355  |
| 46.0 | 774.227  | 730.237  | 652.090  | 583.776  | 561.004  |
| 46.5 | 762.324  | 718.334  | 640.704  | 572.390  | 550.136  |
| 47.0 | 750.421  | 706.431  | 629.319  | 561.522  | 539.786  |
| 47.5 | 738.518  | 694.528  | 617.933  | 550.654  | 529.435  |
| 48.0 | 726.614  | 682.624  | 607.065  | 540.303  | 519.084  |
| 48.5 | 714.194  | 670.721  | 595.161  | 529.952  | 509.148  |
| 49.0 | 702.291  | 658.818  | 583.258  | 519.602  | 499.159  |
| 49.5 | 689.870  | 646.915  | 571.873  | 509.665  | 489.274  |
| 50.0 | 677.967  | 635.011  | 559.969  | 499.366  | 479.390  |
| 50.5 | 666.063  | 623.108  | 549.101  | 489.274  | 469.608  |
| 51.0 | 654.160  | 611.722  | 537.715  | 479.545  | 460.344  |
| 51.5 | 642.257  | 599.819  | 526.330  | 469.919  | 450.925  |
| 52.0 | 630.354  | 587.916  | 515.410  | 460.189  | 441.610  |
| 52.5 | 618.450  | 576.530  | 504.283  | 450.460  | 432.605  |
| 53.0 | 606.547  | 565.145  | 493.466  | 441.248  | 423.341  |
| 53.5 | 595.161  | 553.759  | 482.961  | 432.346  | 414.129  |
| 54.0 | 583.776  | 542.891  | 472.662  | 422.979  | 405.331  |
| 54.5 | 571.873  | 532.023  | 462.673  | 413.870  | 396.740  |

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**CANDELA TABULATION - (Cont.)**

|      |         |         |         |         |         |
|------|---------|---------|---------|---------|---------|
| 55.0 | 561.004 | 520.637 | 452.840 | 404.865 | 388.563 |
| 55.5 | 549.619 | 510.027 | 443.162 | 395.860 | 380.231 |
| 56.0 | 538.233 | 499.315 | 433.485 | 387.114 | 372.054 |
| 56.5 | 526.847 | 488.757 | 424.014 | 378.574 | 364.135 |
| 57.0 | 515.876 | 478.148 | 414.543 | 370.294 | 356.269 |
| 57.5 | 504.904 | 467.693 | 405.227 | 362.169 | 348.609 |
| 58.0 | 493.829 | 457.446 | 396.326 | 354.199 | 341.053 |
| 58.5 | 483.116 | 447.303 | 387.372 | 346.229 | 333.601 |
| 59.0 | 472.196 | 437.004 | 378.160 | 338.362 | 326.200 |
| 59.5 | 461.535 | 427.015 | 369.104 | 330.703 | 319.007 |
| 60.0 | 450.718 | 417.286 | 360.306 | 323.095 | 311.761 |
| 60.5 | 440.161 | 407.815 | 351.611 | 315.591 | 304.671 |
| 61.0 | 429.396 | 398.551 | 342.916 | 308.242 | 297.632 |
| 61.5 | 418.890 | 389.598 | 334.481 | 300.945 | 290.594 |
| 62.0 | 408.591 | 380.645 | 325.890 | 293.751 | 283.711 |
| 62.5 | 398.448 | 371.795 | 317.402 | 286.609 | 276.879 |
| 63.0 | 388.149 | 363.048 | 309.122 | 279.571 | 270.203 |
| 63.5 | 378.057 | 354.199 | 301.048 | 272.687 | 263.786 |
| 64.0 | 368.069 | 344.883 | 293.130 | 265.960 | 257.369 |
| 64.5 | 357.977 | 335.154 | 285.419 | 259.335 | 251.158 |
| 65.0 | 348.092 | 325.527 | 277.759 | 252.814 | 245.000 |
| 65.5 | 338.259 | 315.953 | 270.100 | 246.345 | 238.893 |
| 66.0 | 328.477 | 306.741 | 262.544 | 239.876 | 232.889 |
| 66.5 | 318.955 | 297.425 | 255.091 | 233.510 | 226.989 |
| 67.0 | 309.484 | 288.110 | 247.742 | 227.145 | 221.038 |
| 67.5 | 300.117 | 278.898 | 240.549 | 220.883 | 215.190 |
| 68.0 | 290.801 | 269.893 | 233.355 | 214.569 | 209.083 |
| 68.5 | 281.485 | 260.991 | 226.161 | 208.255 | 203.131 |
| 69.0 | 272.222 | 252.504 | 218.968 | 201.941 | 197.231 |
| 69.5 | 262.958 | 244.378 | 211.929 | 195.679 | 191.280 |
| 70.0 | 253.798 | 236.305 | 204.943 | 189.572 | 185.432 |
| 70.5 | 244.792 | 228.283 | 198.059 | 183.568 | 179.739 |
| 71.0 | 235.943 | 220.469 | 191.280 | 177.669 | 174.149 |
| 71.5 | 227.248 | 212.499 | 184.604 | 171.821 | 168.560 |
| 72.0 | 218.657 | 204.477 | 177.979 | 166.024 | 163.126 |
| 72.5 | 210.170 | 196.403 | 171.510 | 160.383 | 157.640 |
| 73.0 | 201.837 | 188.640 | 165.093 | 154.794 | 152.258 |
| 73.5 | 193.660 | 181.033 | 158.830 | 149.308 | 146.979 |
| 74.0 | 185.535 | 173.425 | 152.775 | 143.926 | 141.752 |
| 74.5 | 177.669 | 165.921 | 146.772 | 138.595 | 136.680 |
| 75.0 | 169.957 | 158.572 | 140.820 | 133.316 | 131.505 |
| 75.5 | 162.194 | 151.482 | 134.869 | 128.089 | 126.381 |
| 76.0 | 154.742 | 144.598 | 129.021 | 122.914 | 121.361 |
| 76.5 | 147.393 | 137.819 | 123.276 | 117.842 | 116.445 |
| 77.0 | 140.199 | 131.194 | 117.738 | 112.822 | 111.528 |
| 77.5 | 133.213 | 124.622 | 112.253 | 107.854 | 106.663 |
| 78.0 | 126.226 | 118.256 | 106.819 | 102.937 | 101.850 |
| 78.5 | 119.395 | 111.994 | 101.488 | 98.021  | 97.089  |
| 79.0 | 112.718 | 105.783 | 96.261  | 93.207  | 92.379  |
| 79.5 | 106.042 | 99.728  | 91.189  | 88.394  | 87.722  |
| 80.0 | 99.573  | 93.828  | 86.221  | 83.685  | 83.116  |
| 80.5 | 93.259  | 88.084  | 81.304  | 79.027  | 78.561  |
| 81.0 | 87.101  | 82.391  | 76.491  | 74.473  | 74.111  |
| 81.5 | 81.045  | 76.853  | 71.678  | 69.919  | 69.608  |
| 82.0 | 75.042  | 71.419  | 66.969  | 65.364  | 65.157  |
| 82.5 | 69.142  | 66.037  | 62.311  | 60.913  | 60.810  |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 83.0  | 63.501 | 60.862 | 57.757 | 56.514 | 56.514 |
| 83.5  | 58.067 | 55.790 | 53.254 | 52.271 | 52.374 |
| 84.0  | 52.685 | 50.873 | 48.803 | 48.130 | 48.286 |
| 84.5  | 47.509 | 46.060 | 44.352 | 43.990 | 44.301 |
| 85.0  | 42.334 | 41.299 | 40.057 | 39.953 | 40.264 |
| 85.5  | 37.262 | 36.693 | 35.761 | 35.968 | 36.382 |
| 86.0  | 32.346 | 32.190 | 31.621 | 32.087 | 32.501 |
| 86.5  | 27.584 | 27.791 | 27.533 | 28.257 | 28.671 |
| 87.0  | 22.978 | 23.444 | 23.548 | 24.427 | 24.893 |
| 87.5  | 18.528 | 19.304 | 19.666 | 20.650 | 21.115 |
| 88.0  | 14.232 | 15.164 | 15.785 | 16.872 | 17.234 |
| 88.5  | 10.195 | 11.179 | 11.903 | 12.887 | 12.887 |
| 89.0  | 6.521  | 7.401  | 7.763  | 8.177  | 8.229  |
| 89.5  | 3.364  | 4.089  | 4.710  | 5.124  | 5.279  |
| 90.0  | 1.553  | 2.122  | 2.122  | 2.018  | 2.174  |
| 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  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LRX4-2-L15-835-DMA-DIM-UNV\_.IES

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 : LRX4-2-L15-835-DMA-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 : LRX4-2-L15-835-DMA-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 : LRX4-2-L15-835-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 486.59  | N.A.  | 16.20  |
| 0-30    | 1007.21 | N.A.  | 33.50  |
| 0-40    | 1581.72 | N.A.  | 52.50  |
| 0-60    | 2523.48 | N.A.  | 83.80  |
| 0-80    | 2965.06 | N.A.  | 98.50  |
| 0-90    | 3010.83 | N.A.  | 100.00 |
| 10-90   | 2883.65 | N.A.  | 95.80  |
| 20-40   | 1095.13 | N.A.  | 36.40  |
| 20-50   | 1621.17 | N.A.  | 53.80  |
| 40-70   | 1227.8  | N.A.  | 40.80  |
| 60-80   | 441.58  | N.A.  | 14.70  |
| 70-80   | 155.54  | N.A.  | 5.20   |
| 80-90   | 45.77   | N.A.  | 1.50   |
| 90-110  | 0.06    | N.A.  | 0.00   |
| 90-120  | 0.06    | N.A.  | 0.00   |
| 90-130  | 0.06    | N.A.  | 0.00   |
| 90-150  | 0.06    | N.A.  | 0.00   |
| 90-180  | 0.06    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 3010.88 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 127.18 |
| 10-20   | 359.41 |
| 20-30   | 520.62 |
| 30-40   | 574.51 |
| 40-50   | 526.04 |
| 50-60   | 415.72 |
| 60-70   | 286.04 |
| 70-80   | 155.54 |
| 80-90   | 45.77  |
| 90-100  | 0.06   |
| 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 : LRX4-2-L15-835-DMA-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  | 220 | 220 | 220 | 220 | 215 | 215 | 215 | 215 | 205 | 205 | 205 | 197 | 197 | 197 | 188 | 188 | 188 | 185 |
| 1  | 203 | 194 | 187 | 181 | 198 | 190 | 184 | 178 | 182 | 177 | 172 | 175 | 171 | 167 | 169 | 165 | 162 | 158 |
| 2  | 186 | 172 | 160 | 150 | 181 | 168 | 157 | 148 | 162 | 153 | 145 | 156 | 148 | 142 | 150 | 144 | 138 | 135 |
| 3  | 171 | 152 | 138 | 127 | 166 | 149 | 136 | 126 | 144 | 133 | 124 | 139 | 130 | 122 | 134 | 126 | 120 | 116 |
| 4  | 157 | 136 | 121 | 109 | 153 | 134 | 120 | 109 | 129 | 117 | 107 | 125 | 114 | 106 | 121 | 112 | 104 | 101 |
| 5  | 145 | 123 | 107 | 95  | 141 | 121 | 106 | 95  | 117 | 104 | 94  | 113 | 102 | 93  | 110 | 100 | 92  | 88  |
| 6  | 135 | 111 | 96  | 84  | 131 | 110 | 95  | 84  | 106 | 93  | 83  | 103 | 92  | 83  | 100 | 90  | 82  | 78  |
| 7  | 125 | 102 | 86  | 75  | 122 | 100 | 85  | 75  | 97  | 84  | 74  | 95  | 83  | 74  | 92  | 82  | 73  | 70  |
| 8  | 117 | 93  | 78  | 68  | 114 | 92  | 78  | 68  | 89  | 76  | 67  | 87  | 75  | 67  | 85  | 74  | 66  | 63  |
| 9  | 110 | 86  | 71  | 61  | 107 | 85  | 71  | 61  | 83  | 70  | 61  | 81  | 69  | 61  | 79  | 68  | 60  | 57  |
| 10 | 103 | 80  | 65  | 56  | 101 | 79  | 65  | 56  | 77  | 64  | 56  | 75  | 64  | 56  | 73  | 63  | 55  | 52  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LRX4-2-L15-835-DMA-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

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 19.1 | 20.6 | 19.5 | 21.0 | 21.3 | 17.2 | 18.7 | 17.5 | 19.0 | 19.4 |
|      | 3H   | 20.7 | 22.1 | 21.1 | 22.4 | 22.8 | 18.8 | 20.2 | 19.1 | 20.5 | 20.8 |
|      | 4H   | 21.2 | 22.5 | 21.6 | 22.9 | 23.3 | 19.4 | 20.7 | 19.8 | 21.0 | 21.4 |
|      | 6H   | 21.7 | 22.9 | 22.1 | 23.2 | 23.6 | 19.9 | 21.1 | 20.3 | 21.4 | 21.8 |
|      | 8H   | 21.8 | 22.9 | 22.2 | 23.3 | 23.7 | 20.0 | 21.2 | 20.4 | 21.6 | 22.0 |
|      | 12H  | 21.9 | 23.0 | 22.3 | 23.3 | 23.8 | 20.1 | 21.2 | 20.6 | 21.6 | 22.1 |

UGR Viewed Endwise

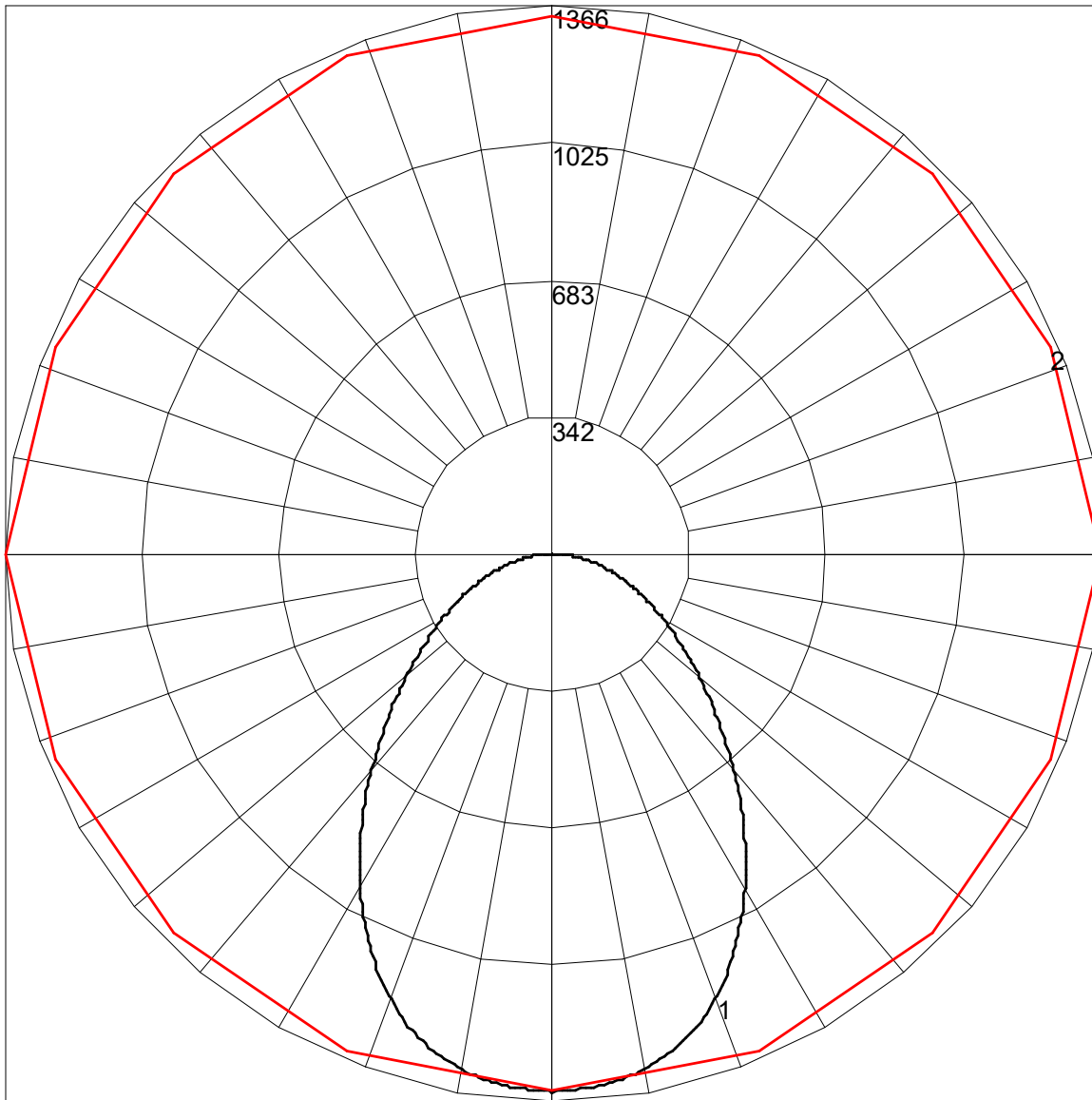
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 19.5 | 20.7 | 19.8 | 21.1 | 21.5 | 17.9 | 19.2 | 18.3 | 19.5 | 19.9 |
|    | 3H  | 21.2 | 22.3 | 21.7 | 22.7 | 23.1 | 19.7 | 20.7 | 20.1 | 21.1 | 21.5 |
|    | 4H  | 21.9 | 22.9 | 22.4 | 23.3 | 23.8 | 20.4 | 21.4 | 20.8 | 21.8 | 22.2 |
|    | 6H  | 22.5 | 23.3 | 22.9 | 23.8 | 24.2 | 21.0 | 21.8 | 21.4 | 22.3 | 22.7 |
|    | 8H  | 22.7 | 23.5 | 23.1 | 23.9 | 24.4 | 21.2 | 22.0 | 21.7 | 22.4 | 22.9 |
|    | 12H | 22.8 | 23.5 | 23.3 | 24.0 | 24.4 | 21.4 | 22.1 | 21.9 | 22.6 | 23.0 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 22.1 | 22.9 | 22.6 | 23.4 | 23.8 | 20.7 | 21.5 | 21.2 | 21.9 | 22.4 |
|    | 6H  | 22.8 | 23.4 | 23.3 | 23.9 | 24.4 | 21.4 | 22.1 | 21.9 | 22.6 | 23.1 |
|    | 8H  | 23.0 | 23.6 | 23.5 | 24.1 | 24.6 | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 |
|    | 12H | 23.2 | 23.7 | 23.7 | 24.2 | 24.8 | 22.0 | 22.5 | 22.5 | 23.0 | 23.6 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 22.1 | 22.8 | 22.6 | 23.3 | 23.8 | 20.8 | 21.5 | 21.2 | 21.9 | 22.4 |
|     | 6H | 22.8 | 23.4 | 23.3 | 23.9 | 24.4 | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 |
|     | 8H | 23.1 | 23.6 | 23.6 | 24.1 | 24.7 | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 |

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 1366.284 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)