



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED4HO-WFA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L091407201  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 9/30/2014  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] Wal14-LED4HO-WFA  
 [LUMINAIRE] 48-1/8"L. X 7-1/8"W. X 4-1/8"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 5112                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 106                 |
| Total Luminaire Watts           | 48                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Semi-Direct         |
| Spacing Criterion (0-180)       | 1.20                |
| Spacing Criterion (90-270)      | 1.26                |
| Spacing Criterion (Diagonal)    | 1.36                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 3.92 ft             |
| Luminous Width (90-270)         | 0.59 ft             |
| Luminous Height                 | 0.17 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 5344             | 4767              | 4832              |
| 55                  | 4886             | 4230              | 4351              |
| 65                  | 4290             | 3627              | 3871              |
| 75                  | 3290             | 3025              | 3567              |
| 85                  | 1544             | 3231              | 3674              |

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**CANDELA TABULATION**

|            | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b> | <b>20</b> | <b>25</b> | <b>30</b> | <b>35</b> | <b>40</b> | <b>45</b> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 1411.720 | 1411.720 | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  |
| <b>5</b>   | 1401.373 | 1400.955 | 1400.746  | 1400.839  | 1401.164  | 1401.466  | 1401.930  | 1402.278  | 1402.185  | 1402.394  |
| <b>10</b>  | 1374.878 | 1374.159 | 1374.206  | 1374.182  | 1375.296  | 1376.270  | 1377.198  | 1378.034  | 1378.521  | 1379.310  |
| <b>15</b>  | 1332.028 | 1331.889 | 1332.167  | 1332.654  | 1334.255  | 1336.297  | 1338.060  | 1339.336  | 1340.844  | 1342.282  |
| <b>20</b>  | 1276.882 | 1276.580 | 1277.137  | 1277.717  | 1280.408  | 1283.610  | 1286.022  | 1288.389  | 1290.755  | 1292.982  |
| <b>25</b>  | 1208.395 | 1208.256 | 1208.998  | 1210.390  | 1214.265  | 1218.418  | 1221.828  | 1225.122  | 1228.138  | 1231.479  |
| <b>30</b>  | 1128.726 | 1129.167 | 1130.304  | 1132.090  | 1137.032  | 1142.252  | 1147.101  | 1150.279  | 1154.270  | 1158.956  |
| <b>35</b>  | 1040.845 | 1041.912 | 1043.466  | 1046.065  | 1051.517  | 1057.897  | 1063.326  | 1067.386  | 1072.698  | 1078.197  |
| <b>40</b>  | 946.305  | 947.998  | 950.272   | 953.682   | 959.413   | 966.303   | 972.358   | 976.790   | 982.566   | 989.086   |
| <b>45</b>  | 847.890  | 849.120  | 851.486   | 855.384   | 861.834   | 869.466   | 875.266   | 880.278   | 887.307   | 894.963   |
| <b>50</b>  | 745.370  | 745.625  | 747.782   | 752.376   | 760.241   | 768.082   | 773.975   | 780.541   | 788.290   | 796.665   |
| <b>55</b>  | 640.065  | 640.274  | 642.014   | 646.862   | 654.913   | 663.242   | 669.900   | 677.394   | 687.114   | 696.557   |
| <b>60</b>  | 533.461  | 533.345  | 534.853   | 539.748   | 548.378   | 556.591   | 564.850   | 574.223   | 585.220   | 596.008   |
| <b>65</b>  | 426.207  | 426.068  | 427.901   | 432.866   | 441.635   | 451.101   | 460.984   | 471.934   | 483.627   | 495.343   |
| <b>70</b>  | 318.095  | 318.698  | 321.714   | 328.002   | 337.467   | 348.209   | 359.368   | 372.105   | 385.050   | 398.437   |
| <b>75</b>  | 212.790  | 214.322  | 218.730   | 226.478   | 237.406   | 249.632   | 262.694   | 280.210   | 298.561   | 315.659   |
| <b>80</b>  | 118.018  | 120.060  | 125.651   | 135.279   | 148.434   | 166.901   | 185.275   | 203.093   | 231.026   | 371.502   |
| <b>85</b>  | 43.291   | 45.611   | 53.847    | 68.834    | 129.363   | 152.563   | 170.868   | 189.382   | 206.178   | 222.813   |
| <b>90</b>  | 2.575    | 21.182   | 30.206    | 37.862    | 48.581    | 61.086    | 73.242    | 87.070    | 99.226    | 112.427   |
| <b>95</b>  | 21.530   | 41.969   | 51.272    | 54.845    | 57.745    | 61.851    | 67.860    | 74.101    | 80.922    | 88.346    |
| <b>100</b> | 49.973   | 60.366   | 61.480    | 69.159    | 80.249    | 90.828    | 93.334    | 94.470    | 96.442    | 98.948    |
| <b>105</b> | 75.818   | 82.314   | 84.378    | 90.016    | 99.319    | 107.950   | 116.882   | 123.958   | 126.950   | 128.041   |
| <b>110</b> | 99.714   | 101.129  | 106.743   | 106.790   | 114.817   | 124.862   | 134.954   | 141.334   | 146.438   | 150.614   |
| <b>115</b> | 115.652  | 114.701  | 123.610   | 123.238   | 126.881   | 136.509   | 146.137   | 153.886   | 159.291   | 164.395   |
| <b>120</b> | 129.224  | 125.558  | 135.859   | 138.086   | 137.437   | 143.399   | 153.445   | 162.470   | 170.961   | 178.315   |
| <b>125</b> | 142.355  | 135.349  | 146.508   | 150.777   | 153.074   | 153.306   | 160.544   | 167.922   | 175.670   | 183.976   |
| <b>130</b> | 149.895  | 140.847  | 152.749   | 159.918   | 163.073   | 165.161   | 166.228   | 172.747   | 180.148   | 188.686   |
| <b>135</b> | 157.226  | 144.606  | 158.224   | 167.759   | 172.979   | 176.274   | 178.385   | 179.939   | 183.906   | 190.936   |
| <b>140</b> | 164.743  | 149.362  | 164.024   | 173.466   | 180.426   | 184.672   | 186.250   | 188.732   | 190.333   | 192.537   |
| <b>145</b> | 163.676  | 152.146  | 158.665   | 175.299   | 184.301   | 190.472   | 193.233   | 194.625   | 196.968   | 199.381   |
| <b>150</b> | 157.644  | 151.403  | 147.390   | 168.223   | 179.893   | 188.546   | 194.091   | 197.942   | 200.703   | 202.582   |
| <b>155</b> | 148.178  | 150.011  | 138.156   | 153.816   | 170.218   | 179.800   | 186.969   | 191.284   | 196.202   | 201.515   |
| <b>160</b> | 155.278  | 156.159  | 142.680   | 141.126   | 157.830   | 171.193   | 178.663   | 182.909   | 186.783   | 191.238   |
| <b>165</b> | 159.593  | 161.101  | 153.955   | 138.875   | 138.875   | 152.772   | 165.346   | 172.515   | 177.898   | 181.192   |
| <b>170</b> | 164.534  | 164.836  | 164.581   | 157.899   | 145.742   | 138.968   | 137.599   | 143.237   | 152.215   | 160.219   |
| <b>175</b> | 168.641  | 168.594  | 168.455   | 169.383   | 169.221   | 167.434   | 163.954   | 158.688   | 152.099   | 146.531   |
| <b>180</b> | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**Vert. Angles**      **Horizontal Angles**

|           | <b>50</b> | <b>55</b> | <b>60</b> | <b>65</b> | <b>70</b> | <b>75</b> | <b>80</b> | <b>85</b> | <b>90</b> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  | 1411.720  |
| <b>5</b>  | 1402.718  | 1402.927  | 1403.345  | 1403.461  | 1403.878  | 1403.693  | 1403.994  | 1403.670  | 1403.786  |
| <b>10</b> | 1379.727  | 1380.655  | 1381.815  | 1382.326  | 1383.323  | 1383.555  | 1383.973  | 1383.648  | 1384.274  |
| <b>15</b> | 1343.558  | 1345.206  | 1347.317  | 1348.662  | 1350.217  | 1350.611  | 1351.446  | 1351.516  | 1352.096  |
| <b>20</b> | 1295.210  | 1297.994  | 1300.801  | 1303.538  | 1305.974  | 1306.717  | 1307.761  | 1308.248  | 1309.222  |
| <b>25</b> | 1234.658  | 1238.578  | 1243.172  | 1247.255  | 1250.155  | 1251.710  | 1253.287  | 1253.751  | 1254.749  |
| <b>30</b> | 1163.503  | 1169.721  | 1174.686  | 1180.138  | 1183.942  | 1185.798  | 1187.446  | 1188.745  | 1189.580  |
| <b>35</b> | 1083.695  | 1090.794  | 1097.546  | 1104.042  | 1108.426  | 1110.886  | 1113.252  | 1114.737  | 1115.595  |
| <b>40</b> | 996.278   | 1004.815  | 1013.446  | 1020.638  | 1025.394  | 1028.270  | 1031.263  | 1033.026  | 1034.117  |
| <b>45</b> | 903.617   | 913.918   | 923.012   | 930.575   | 935.610   | 939.786   | 942.964   | 944.890   | 946.630   |
| <b>50</b> | 806.896   | 818.728   | 827.962   | 836.035   | 841.766   | 846.568   | 850.048   | 852.252   | 854.433   |
| <b>55</b> | 708.041   | 720.430   | 729.918   | 738.247   | 743.954   | 749.406   | 753.814   | 755.972   | 757.526   |
| <b>60</b> | 607.794   | 619.672   | 629.416   | 638.557   | 645.818   | 651.502   | 656.073   | 658.950   | 660.388   |

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**CANDELA TABULATION - (Cont.)**

|            |         |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>65</b>  | 507.245 | 519.332 | 530.839 | 541.534 | 550.466 | 558.610 | 564.340 | 567.704 | 569.282 |
| <b>70</b>  | 413.610 | 429.594 | 444.048 | 456.947 | 467.434 | 474.927 | 481.586 | 485.251 | 487.571 |
| <b>75</b>  | 332.734 | 349.926 | 364.101 | 375.562 | 385.050 | 393.054 | 401.105 | 408.343 | 412.102 |
| <b>80</b>  | 431.706 | 451.774 | 468.895 | 481.818 | 489.938 | 497.385 | 503.858 | 504.623 | 503.881 |
| <b>85</b>  | 238.264 | 252.068 | 264.573 | 274.688 | 282.622 | 288.608 | 292.761 | 294.826 | 295.684 |
| <b>90</b>  | 124.213 | 135.882 | 146.485 | 155.138 | 162.307 | 167.272 | 170.845 | 172.214 | 172.399 |
| <b>95</b>  | 96.187  | 103.658 | 110.478 | 116.766 | 121.498 | 124.561 | 126.858 | 127.438 | 127.577 |
| <b>100</b> | 101.523 | 104.725 | 107.370 | 110.432 | 112.914 | 114.399 | 114.863 | 114.701 | 114.724 |
| <b>105</b> | 128.180 | 127.855 | 127.414 | 127.043 | 126.417 | 125.628 | 125.025 | 124.004 | 123.934 |
| <b>110</b> | 153.422 | 156.554 | 157.412 | 156.855 | 155.765 | 154.303 | 152.633 | 151.867 | 151.380 |
| <b>115</b> | 169.360 | 173.466 | 174.557 | 179.034 | 180.937 | 180.844 | 180.682 | 181.099 | 180.960 |
| <b>120</b> | 182.630 | 187.062 | 191.377 | 195.228 | 196.690 | 197.223 | 198.128 | 200.146 | 200.680 |
| <b>125</b> | 191.725 | 199.381 | 204.670 | 208.313 | 210.842 | 212.210 | 213.881 | 216.015 | 217.407 |
| <b>130</b> | 196.968 | 204.090 | 210.447 | 215.064 | 218.242 | 220.122 | 222.117 | 224.994 | 226.432 |
| <b>135</b> | 197.919 | 204.740 | 210.656 | 216.247 | 219.634 | 221.931 | 224.483 | 227.360 | 228.775 |
| <b>140</b> | 197.177 | 202.814 | 208.197 | 213.556 | 216.943 | 219.170 | 221.908 | 224.135 | 225.342 |
| <b>145</b> | 200.935 | 202.281 | 204.879 | 209.380 | 212.558 | 214.670 | 216.549 | 218.567 | 219.565 |
| <b>150</b> | 204.879 | 206.457 | 208.614 | 210.447 | 211.816 | 212.419 | 212.906 | 214.090 | 214.855 |
| <b>155</b> | 205.738 | 207.199 | 209.380 | 211.306 | 212.976 | 213.486 | 213.881 | 214.623 | 215.482 |
| <b>160</b> | 196.527 | 202.791 | 207.756 | 210.238 | 212.651 | 212.953 | 213.115 | 213.765 | 214.414 |
| <b>165</b> | 183.999 | 188.964 | 193.790 | 202.165 | 207.292 | 208.893 | 210.656 | 211.190 | 211.630 |
| <b>170</b> | 166.785 | 169.058 | 170.938 | 176.482 | 181.540 | 189.846 | 193.001 | 198.244 | 201.330 |
| <b>175</b> | 141.543 | 136.625 | 132.402 | 127.925 | 125.837 | 130.036 | 136.277 | 138.690 | 137.646 |
| <b>180</b> | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 511.75  | N.A.  | 10.00  |
| 0-30    | 1079.17 | N.A.  | 21.10  |
| 0-40    | 1754.27 | N.A.  | 34.30  |
| 0-60    | 3072.15 | N.A.  | 60.10  |
| 0-80    | 3921.9  | N.A.  | 76.70  |
| 0-90    | 4147.7  | N.A.  | 81.10  |
| 10-90   | 4014.54 | N.A.  | 78.50  |
| 20-40   | 1242.53 | N.A.  | 24.30  |
| 20-50   | 1935.21 | N.A.  | 37.90  |
| 40-70   | 1810.74 | N.A.  | 35.40  |
| 60-80   | 849.75  | N.A.  | 16.60  |
| 70-80   | 356.89  | N.A.  | 7.00   |
| 80-90   | 225.80  | N.A.  | 4.40   |
| 90-110  | 224.95  | N.A.  | 4.40   |
| 90-120  | 378.99  | N.A.  | 7.40   |
| 90-130  | 540.56  | N.A.  | 10.60  |
| 90-150  | 811.84  | N.A.  | 15.90  |
| 90-180  | 964.06  | N.A.  | 18.90  |
| 110-180 | 739.11  | N.A.  | 14.50  |
| 0-180   | 5111.75 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 133.15 |
| 10-20   | 378.59 |
| 20-30   | 567.43 |
| 30-40   | 675.10 |
| 40-50   | 692.68 |
| 50-60   | 625.19 |
| 60-70   | 492.87 |
| 70-80   | 356.89 |
| 80-90   | 225.80 |
| 90-100  | 102.50 |
| 100-110 | 122.45 |
| 110-120 | 154.04 |
| 120-130 | 161.57 |
| 130-140 | 148.77 |
| 140-150 | 122.51 |
| 150-160 | 88.40  |
| 160-170 | 50.74  |
| 170-180 | 13.07  |

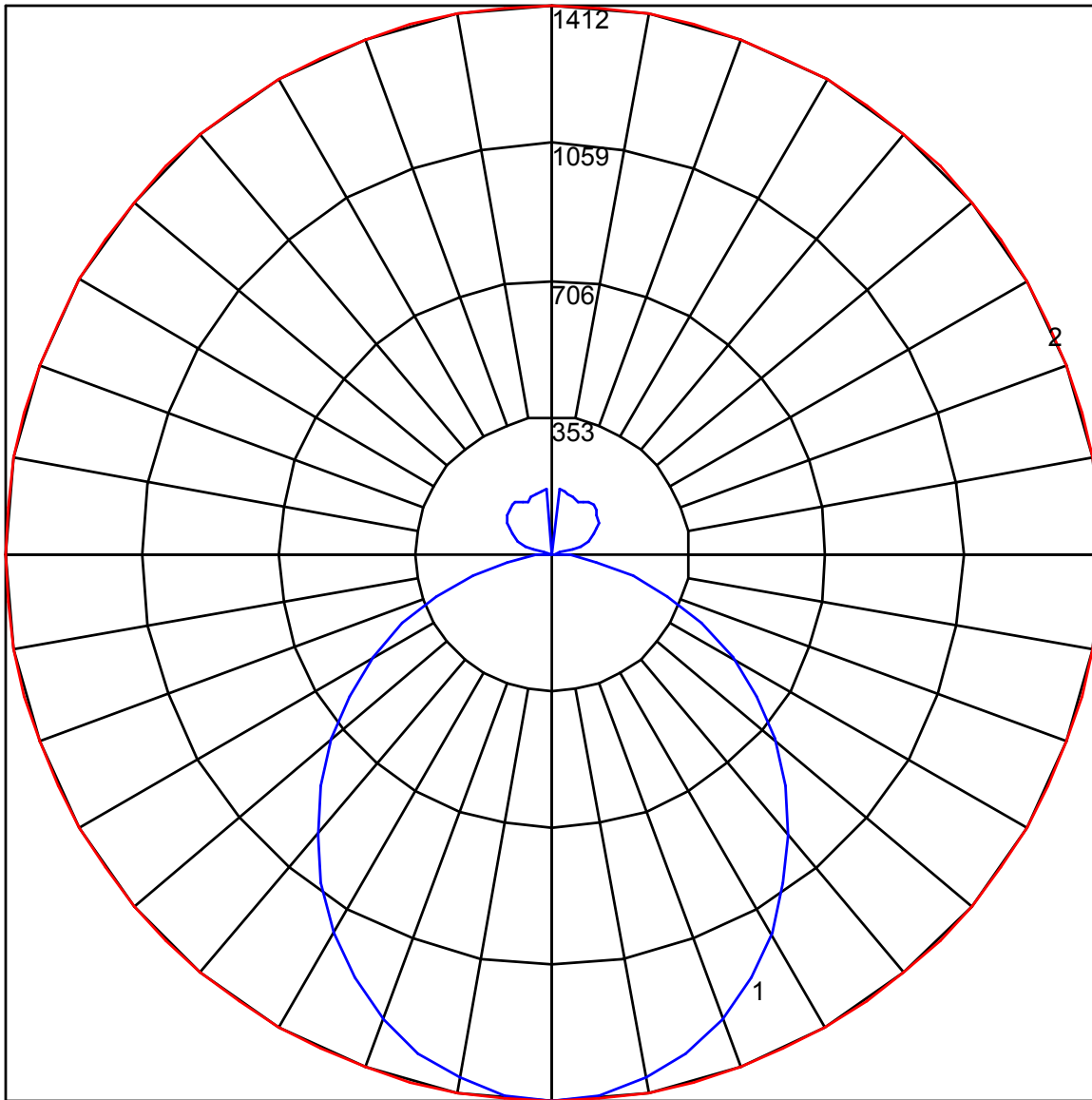
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 92 | 92 | 92 | 85 | 85 | 85 | 81 |
| 1  | 103 | 98  | 93  | 89  | 99  | 94  | 90  | 86  | 86  | 83  | 80  | 79 | 76 | 74 | 73 | 71 | 69 | 65 |
| 2  | 94  | 85  | 78  | 72  | 89  | 81  | 75  | 70  | 75  | 70  | 65  | 69 | 65 | 61 | 63 | 60 | 57 | 54 |
| 3  | 85  | 74  | 66  | 60  | 81  | 71  | 64  | 58  | 66  | 59  | 54  | 60 | 55 | 51 | 56 | 51 | 48 | 45 |
| 4  | 78  | 66  | 57  | 50  | 74  | 63  | 55  | 49  | 58  | 52  | 46  | 54 | 48 | 44 | 50 | 45 | 41 | 38 |
| 5  | 72  | 59  | 50  | 43  | 68  | 56  | 48  | 42  | 52  | 45  | 40  | 48 | 42 | 38 | 45 | 40 | 36 | 33 |
| 6  | 66  | 53  | 44  | 38  | 63  | 51  | 43  | 37  | 47  | 40  | 35  | 44 | 38 | 33 | 40 | 35 | 31 | 29 |
| 7  | 61  | 48  | 39  | 33  | 58  | 46  | 38  | 32  | 43  | 36  | 31  | 40 | 34 | 29 | 37 | 32 | 28 | 26 |
| 8  | 57  | 43  | 35  | 29  | 54  | 42  | 34  | 29  | 39  | 32  | 27  | 36 | 30 | 26 | 34 | 29 | 25 | 23 |
| 9  | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 36  | 29  | 25  | 34 | 28 | 24 | 31 | 26 | 22 | 20 |
| 10 | 50  | 37  | 29  | 24  | 47  | 36  | 28  | 23  | 33  | 27  | 22  | 31 | 25 | 21 | 29 | 24 | 20 | 19 |

POLAR GRAPH



Maximum Candela = 1411.72 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)