



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CSDI-L12-9DWU-L12-9DWD-XXX-DIM-UNV-OW-CSU-LW-WHD-WM-3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.12 & #13257153.14

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 19-APR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 4CSDI-L12-9DWU-L12-9DWD-xxx-DIM-UNV-OW-CSU-LW-WHD-WM-3000k

[LUMINAIRE] 4" Square White formed aluminum housing, wide distribution reflector

[MORE] trims, frosted lens enclosures

[LAMP] Two white LEDs (one up/one down)

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

[MORE] hod of absolute photometry.

[\_ CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 2347                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 50                  |
| Total Luminaire Watts           | 46.6                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | General Diffuse     |
| Spacing Criterion (0-180)       | N.A.                |
| Spacing Criterion (90-270)      | N.A.                |
| Spacing Criterion (Diagonal)    | N.A.                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 0.33 ft             |
| Luminous Width (90-270)         | 0.33 ft             |
| Luminous Height                 | 1.42 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2242             | 2066              | 2281              |
| 55                  | 1347             | 1075              | 1369              |
| 65                  | 823              | 608               | 831               |
| 75                  | 388              | 274               | 402               |
| 85                  | 79               | 49                | 85                |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>   | 1458.078   | 1458.078    | 1458.078    | 1458.078    | 1458.078    | 1458.078     | 1458.078     | 1458.078     | 1458.078     |
| <b>2.5</b>   | 1484.059   | 1462.802    | 1450.205    | 1446.269    | 1444.694    | 1446.269     | 1450.205     | 1462.802     | 1484.059     |
| <b>5.0</b>   | 1471.462   | 1450.205    | 1438.396    | 1434.459    | 1432.885    | 1434.459     | 1438.396     | 1450.205     | 1471.462     |
| <b>7.5</b>   | 1450.205   | 1428.948    | 1418.713    | 1415.564    | 1417.139    | 1415.564     | 1418.713     | 1428.948     | 1450.205     |
| <b>10.0</b>  | 1422.650   | 1402.180    | 1394.307    | 1391.945    | 1391.158    | 1391.945     | 1394.307     | 1402.180     | 1422.650     |
| <b>12.5</b>  | 1384.072   | 1365.964    | 1359.666    | 1358.091    | 1355.729    | 1358.091     | 1359.666     | 1365.964     | 1384.072     |
| <b>15.0</b>  | 1330.536   | 1314.790    | 1312.428    | 1309.279    | 1304.555    | 1309.279     | 1312.428     | 1314.790     | 1330.536     |
| <b>17.5</b>  | 1258.892   | 1246.295    | 1245.507    | 1240.784    | 1232.123    | 1240.784     | 1245.507     | 1246.295     | 1258.892     |
| <b>20.0</b>  | 1158.117   | 1154.968    | 1161.266    | 1150.244    | 1128.987    | 1150.244     | 1161.266     | 1154.968     | 1158.117     |
| <b>22.5</b>  | 1015.616   | 1032.937    | 1054.194    | 1027.426    | 988.061     | 1027.426     | 1054.194     | 1032.937     | 1015.616     |
| <b>25.0</b>  | 838.474    | 877.051     | 925.864     | 874.689     | 817.217     | 874.689      | 925.864      | 877.051      | 838.474      |
| <b>27.5</b>  | 643.460    | 700.382     | 774.702     | 701.247     | 635.665     | 701.247      | 774.702      | 700.382      | 643.460      |
| <b>30.0</b>  | 460.570    | 525.601     | 612.755     | 532.057     | 462.538     | 532.057      | 612.755      | 525.601      | 460.570      |
| <b>32.5</b>  | 312.401    | 372.156     | 458.916     | 382.942     | 320.745     | 382.942      | 458.916      | 372.156      | 312.401      |
| <b>35.0</b>  | 212.020    | 257.998     | 329.878     | 269.729     | 222.255     | 269.729      | 329.878      | 257.998      | 212.020      |
| <b>37.5</b>  | 152.106    | 182.968     | 235.088     | 192.416     | 160.688     | 192.416      | 235.088      | 182.968      | 152.106      |
| <b>40.0</b>  | 118.174    | 137.147     | 171.080     | 143.839     | 123.921     | 143.839      | 171.080      | 137.147      | 118.174      |
| <b>42.5</b>  | 98.492     | 110.143     | 130.692     | 114.709     | 101.562     | 114.709      | 130.692      | 110.143      | 98.492       |
| <b>45.0</b>  | 85.895     | 93.846      | 105.734     | 96.444      | 87.390      | 96.444       | 105.734      | 93.846       | 85.895       |
| <b>47.5</b>  | 76.368     | 82.430      | 89.358      | 83.847      | 77.155      | 83.847       | 89.358       | 82.430       | 76.368       |
| <b>50.0</b>  | 68.574     | 73.455      | 77.706      | 74.243      | 69.282      | 74.243       | 77.706       | 73.455       | 68.574       |
| <b>52.5</b>  | 61.960     | 65.976      | 68.495      | 66.841      | 62.905      | 66.841       | 68.495       | 65.976       | 61.960       |
| <b>55.0</b>  | 56.371     | 59.598      | 61.016      | 60.465      | 57.316      | 60.465       | 61.016       | 59.598       | 56.371       |
| <b>57.5</b>  | 51.411     | 53.851      | 54.324      | 54.560      | 52.276      | 54.560       | 54.324       | 53.851       | 51.411       |
| <b>60.0</b>  | 46.765     | 48.340      | 48.262      | 48.970      | 47.238      | 48.970       | 48.262       | 48.340       | 46.765       |
| <b>62.5</b>  | 41.727     | 43.144      | 42.514      | 43.301      | 41.884      | 43.301       | 42.514       | 43.144       | 41.727       |
| <b>65.0</b>  | 36.295     | 37.633      | 36.846      | 37.711      | 36.689      | 37.711       | 36.846       | 37.633       | 36.295       |
| <b>67.5</b>  | 31.335     | 32.200      | 31.413      | 32.437      | 31.806      | 32.437       | 31.413       | 32.200       | 31.335       |
| <b>70.0</b>  | 26.532     | 27.083      | 26.375      | 27.398      | 27.083      | 27.398       | 26.375       | 27.083       | 26.532       |
| <b>72.5</b>  | 21.887     | 22.202      | 21.651      | 22.517      | 22.517      | 22.517       | 21.651       | 22.202       | 21.887       |
| <b>75.0</b>  | 17.478     | 17.714      | 17.163      | 17.951      | 18.108      | 17.951       | 17.163       | 17.714       | 17.478       |
| <b>77.5</b>  | 13.463     | 13.541      | 13.070      | 13.699      | 14.014      | 13.699       | 13.070       | 13.541       | 13.463       |
| <b>80.0</b>  | 9.762      | 9.762       | 9.368       | 9.841       | 10.235      | 9.841        | 9.368        | 9.762        | 9.762        |
| <b>82.5</b>  | 6.456      | 6.298       | 5.984       | 6.378       | 6.849       | 6.378        | 5.984        | 6.298        | 6.456        |
| <b>85.0</b>  | 3.543      | 3.306       | 3.070       | 3.386       | 3.779       | 3.386        | 3.070        | 3.306        | 3.543        |
| <b>87.5</b>  | 0.551      | 0.708       | 0.708       | 0.551       | 0.551       | 0.551        | 0.708        | 0.708        | 0.551        |
| <b>90.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>92.5</b>  | 0.719      | 0.958       | 1.557       | 2.935       | 2.816       | 2.935        | 1.557        | 0.958        | 0.719        |
| <b>95.0</b>  | 0.839      | 1.139       | 1.677       | 2.995       | 2.935       | 2.995        | 1.677        | 1.139        | 0.839        |
| <b>97.5</b>  | 0.958      | 1.258       | 1.857       | 3.115       | 2.995       | 3.115        | 1.857        | 1.258        | 0.958        |
| <b>100.0</b> | 1.078      | 1.438       | 2.037       | 3.234       | 3.115       | 3.234        | 2.037        | 1.438        | 1.078        |
| <b>102.5</b> | 1.198      | 1.557       | 2.217       | 3.354       | 3.295       | 3.354        | 2.217        | 1.557        | 1.198        |
| <b>105.0</b> | 1.378      | 1.797       | 2.396       | 3.534       | 3.415       | 3.534        | 2.396        | 1.797        | 1.378        |
| <b>107.5</b> | 1.618      | 2.037       | 2.635       | 3.714       | 3.654       | 3.714        | 2.635        | 2.037        | 1.618        |
| <b>110.0</b> | 1.857      | 2.336       | 3.055       | 3.894       | 3.894       | 3.894        | 3.055        | 2.336        | 1.857        |
| <b>112.5</b> | 2.217      | 2.696       | 4.193       | 4.193       | 4.193       | 4.193        | 2.696        | 2.217        | 2.217        |
| <b>115.0</b> | 2.635      | 4.313       | 7.547       | 6.889       | 4.672       | 6.889        | 4.313        | 2.635        | 2.635        |
| <b>117.5</b> | 4.253      | 8.505       | 14.375      | 12.459      | 9.764       | 12.459       | 8.505        | 4.253        | 4.253        |
| <b>120.0</b> | 12.160     | 18.030      | 24.438      | 22.042      | 16.472      | 22.042       | 18.030       | 12.160       | 12.160       |
| <b>122.5</b> | 22.702     | 31.866      | 37.796      | 34.442      | 28.751      | 34.442       | 31.866       | 22.702       | 22.702       |
| <b>125.0</b> | 39.413     | 48.817      | 52.470      | 49.595      | 43.546      | 49.595       | 52.470       | 48.817       | 39.413       |
| <b>127.5</b> | 59.479     | 66.846      | 67.864      | 66.247      | 61.575      | 66.247       | 67.864       | 66.846       | 59.479       |
| <b>130.0</b> | 79.964     | 84.575      | 84.575      | 83.857      | 81.580      | 83.857       | 84.575       | 84.575       | 79.964       |
| <b>132.5</b> | 102.845    | 103.383     | 103.084     | 102.964     | 104.402     | 102.964      | 103.084      | 103.383      | 102.845      |

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|              |          |          |          |          |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>135.0</b> | 127.043  | 124.048  | 123.929  | 124.168  | 128.720  | 124.168  | 123.929  | 124.048  | 127.043  |
| <b>137.5</b> | 153.159  | 148.127  | 149.025  | 148.846  | 155.075  | 148.846  | 149.025  | 148.127  | 153.159  |
| <b>140.0</b> | 182.748  | 178.255  | 182.927  | 180.292  | 185.264  | 180.292  | 182.927  | 178.255  | 182.748  |
| <b>142.5</b> | 219.824  | 217.728  | 229.408  | 222.400  | 224.796  | 222.400  | 229.408  | 217.728  | 219.824  |
| <b>145.0</b> | 267.683  | 272.834  | 291.222  | 277.506  | 275.289  | 277.506  | 291.222  | 272.834  | 267.683  |
| <b>147.5</b> | 333.629  | 347.107  | 367.352  | 350.581  | 342.794  | 350.581  | 367.352  | 347.107  | 333.629  |
| <b>150.0</b> | 423.476  | 440.247  | 456.419  | 441.565  | 429.646  | 441.565  | 456.419  | 440.247  | 423.476  |
| <b>152.5</b> | 540.336  | 548.782  | 554.113  | 540.995  | 531.411  | 540.995  | 554.113  | 548.782  | 540.336  |
| <b>155.0</b> | 667.858  | 668.457  | 660.071  | 647.493  | 638.508  | 647.493  | 660.071  | 668.457  | 667.858  |
| <b>157.5</b> | 794.841  | 793.643  | 776.272  | 763.694  | 755.308  | 763.694  | 776.272  | 793.643  | 794.841  |
| <b>160.0</b> | 916.433  | 914.636  | 899.063  | 887.083  | 879.296  | 887.083  | 899.063  | 914.636  | 916.433  |
| <b>162.5</b> | 1036.827 | 1032.634 | 1018.858 | 1006.279 | 997.893  | 1006.279 | 1018.858 | 1032.634 | 1036.827 |
| <b>165.0</b> | 1147.038 | 1147.637 | 1137.455 | 1123.678 | 1116.491 | 1123.678 | 1137.455 | 1147.637 | 1147.038 |
| <b>167.5</b> | 1247.666 | 1247.666 | 1241.677 | 1232.093 | 1226.103 | 1232.093 | 1241.677 | 1247.666 | 1247.666 |
| <b>170.0</b> | 1345.898 | 1342.903 | 1338.711 | 1332.721 | 1329.127 | 1332.721 | 1338.711 | 1342.903 | 1345.898 |
| <b>172.5</b> | 1424.364 | 1420.770 | 1418.374 | 1414.781 | 1412.984 | 1414.781 | 1418.374 | 1420.770 | 1424.364 |
| <b>175.0</b> | 1481.866 | 1478.871 | 1476.475 | 1474.678 | 1474.678 | 1474.678 | 1476.475 | 1478.871 | 1481.866 |
| <b>177.5</b> | 1515.408 | 1513.013 | 1510.617 | 1511.815 | 1511.216 | 1511.815 | 1510.617 | 1513.013 | 1515.408 |
| <b>180.0</b> | 1522.275 | 1522.275 | 1522.275 | 1522.275 | 1522.275 | 1522.275 | 1522.275 | 1522.275 | 1522.275 |

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| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 501.17  | N.A.  | 21.40  |
| 0-30    | 892.09  | N.A.  | 38.00  |
| 0-40    | 1072.85 | N.A.  | 45.70  |
| 0-60    | 1203.4  | N.A.  | 51.30  |
| 0-80    | 1259.19 | N.A.  | 53.70  |
| 0-90    | 1263.32 | N.A.  | 53.80  |
| 10-90   | 1126.95 | N.A.  | 48.00  |
| 20-40   | 571.68  | N.A.  | 24.40  |
| 20-50   | 648.64  | N.A.  | 27.60  |
| 40-70   | 167.46  | N.A.  | 7.10   |
| 60-80   | 55.79   | N.A.  | 2.40   |
| 70-80   | 18.88   | N.A.  | 0.80   |
| 80-90   | 4.13    | N.A.  | 0.20   |
| 90-110  | 4.58    | N.A.  | 0.20   |
| 90-120  | 12.21   | N.A.  | 0.50   |
| 90-130  | 55.95   | N.A.  | 2.40   |
| 90-150  | 333.35  | N.A.  | 14.20  |
| 90-180  | 1083.7  | N.A.  | 46.20  |
| 110-180 | 1079.12 | N.A.  | 46.00  |
| 0-180   | 2347.03 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 136.37 |
| 10-20   | 364.80 |
| 20-30   | 390.92 |
| 30-40   | 180.76 |
| 40-50   | 76.95  |
| 50-60   | 53.60  |
| 60-70   | 36.91  |
| 70-80   | 18.88  |
| 80-90   | 4.13   |
| 90-100  | 1.88   |
| 100-110 | 2.71   |
| 110-120 | 7.63   |
| 120-130 | 43.74  |
| 130-140 | 97.86  |
| 140-150 | 179.53 |
| 150-160 | 300.39 |
| 160-170 | 313.43 |
| 170-180 | 136.54 |

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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  | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |
| 1  | 101 | 97  | 94  | 91  | 93  | 91  | 88  | 86  | 78 | 76 | 75 | 67 | 65 | 64 | 56 | 55 | 54 | 50 |
| 2  | 94  | 88  | 83  | 79  | 87  | 82  | 78  | 74  | 71 | 68 | 66 | 61 | 59 | 58 | 52 | 51 | 50 | 46 |
| 3  | 87  | 80  | 74  | 69  | 81  | 75  | 70  | 65  | 66 | 62 | 59 | 57 | 54 | 52 | 49 | 47 | 46 | 42 |
| 4  | 82  | 73  | 66  | 61  | 76  | 69  | 63  | 58  | 60 | 56 | 53 | 53 | 50 | 47 | 46 | 44 | 42 | 39 |
| 5  | 76  | 67  | 60  | 55  | 71  | 63  | 57  | 53  | 56 | 51 | 48 | 49 | 46 | 44 | 43 | 41 | 39 | 36 |
| 6  | 72  | 62  | 55  | 50  | 67  | 58  | 52  | 48  | 52 | 47 | 44 | 46 | 43 | 40 | 41 | 38 | 36 | 34 |
| 7  | 67  | 57  | 50  | 46  | 63  | 54  | 48  | 44  | 49 | 44 | 40 | 43 | 40 | 37 | 39 | 36 | 34 | 32 |
| 8  | 63  | 53  | 46  | 42  | 60  | 50  | 44  | 40  | 45 | 41 | 37 | 41 | 37 | 35 | 36 | 34 | 32 | 30 |
| 9  | 60  | 49  | 43  | 39  | 56  | 47  | 41  | 37  | 43 | 38 | 35 | 38 | 35 | 32 | 35 | 32 | 30 | 28 |
| 10 | 57  | 46  | 40  | 36  | 53  | 44  | 39  | 35  | 40 | 36 | 33 | 36 | 33 | 30 | 33 | 30 | 28 | 27 |

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## 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 | 4.3 | 5.0 | 5.2 | 5.9 | 7.2 | 4.4 | 5.1 | 5.3 | 6.0 | 7.3 |
|      | 3H   | 5.3 | 5.9 | 6.3 | 6.9 | 8.1 | 5.4 | 6.0 | 6.3 | 7.0 | 8.2 |
|      | 4H   | 5.5 | 6.1 | 6.5 | 7.1 | 8.4 | 5.6 | 6.2 | 6.6 | 7.2 | 8.5 |
|      | 6H   | 5.6 | 6.2 | 6.6 | 7.1 | 8.4 | 5.7 | 6.3 | 6.7 | 7.2 | 8.5 |
|      | 8H   | 5.6 | 6.1 | 6.6 | 7.1 | 8.4 | 5.7 | 6.2 | 6.7 | 7.2 | 8.5 |
|      | 12H  | 5.6 | 6.1 | 6.6 | 7.0 | 8.3 | 5.7 | 6.2 | 6.7 | 7.2 | 8.4 |

### UGR Viewed Endwise

|    |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H  | 4.5 | 5.1 | 5.5 | 6.1 | 7.3 | 4.6 | 5.2 | 5.6 | 6.1 | 7.4 |
|    | 3H  | 5.6 | 6.1 | 6.6 | 7.1 | 8.4 | 5.7 | 6.2 | 6.7 | 7.2 | 8.5 |
|    | 4H  | 6.0 | 6.4 | 7.0 | 7.4 | 8.7 | 6.0 | 6.5 | 7.0 | 7.5 | 8.8 |
|    | 6H  | 6.1 | 6.5 | 7.1 | 7.5 | 8.8 | 6.2 | 6.6 | 7.2 | 7.6 | 8.9 |
|    | 8H  | 6.1 | 6.5 | 7.1 | 7.5 | 8.8 | 6.2 | 6.6 | 7.2 | 7.6 | 8.9 |
|    | 12H | 6.1 | 6.4 | 7.1 | 7.4 | 8.7 | 6.2 | 6.5 | 7.2 | 7.5 | 8.8 |

|    |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8H | 4H  | 6.0 | 6.3 | 7.0 | 7.3 | 8.6 | 6.0 | 6.4 | 7.1 | 7.4 | 8.7 |
|    | 6H  | 6.1 | 6.4 | 7.2 | 7.5 | 8.8 | 6.2 | 6.5 | 7.3 | 7.6 | 8.9 |
|    | 8H  | 6.2 | 6.4 | 7.2 | 7.5 | 8.8 | 6.3 | 6.5 | 7.3 | 7.6 | 8.9 |
|    | 12H | 6.2 | 6.4 | 7.2 | 7.4 | 8.8 | 6.3 | 6.5 | 7.3 | 7.5 | 8.9 |

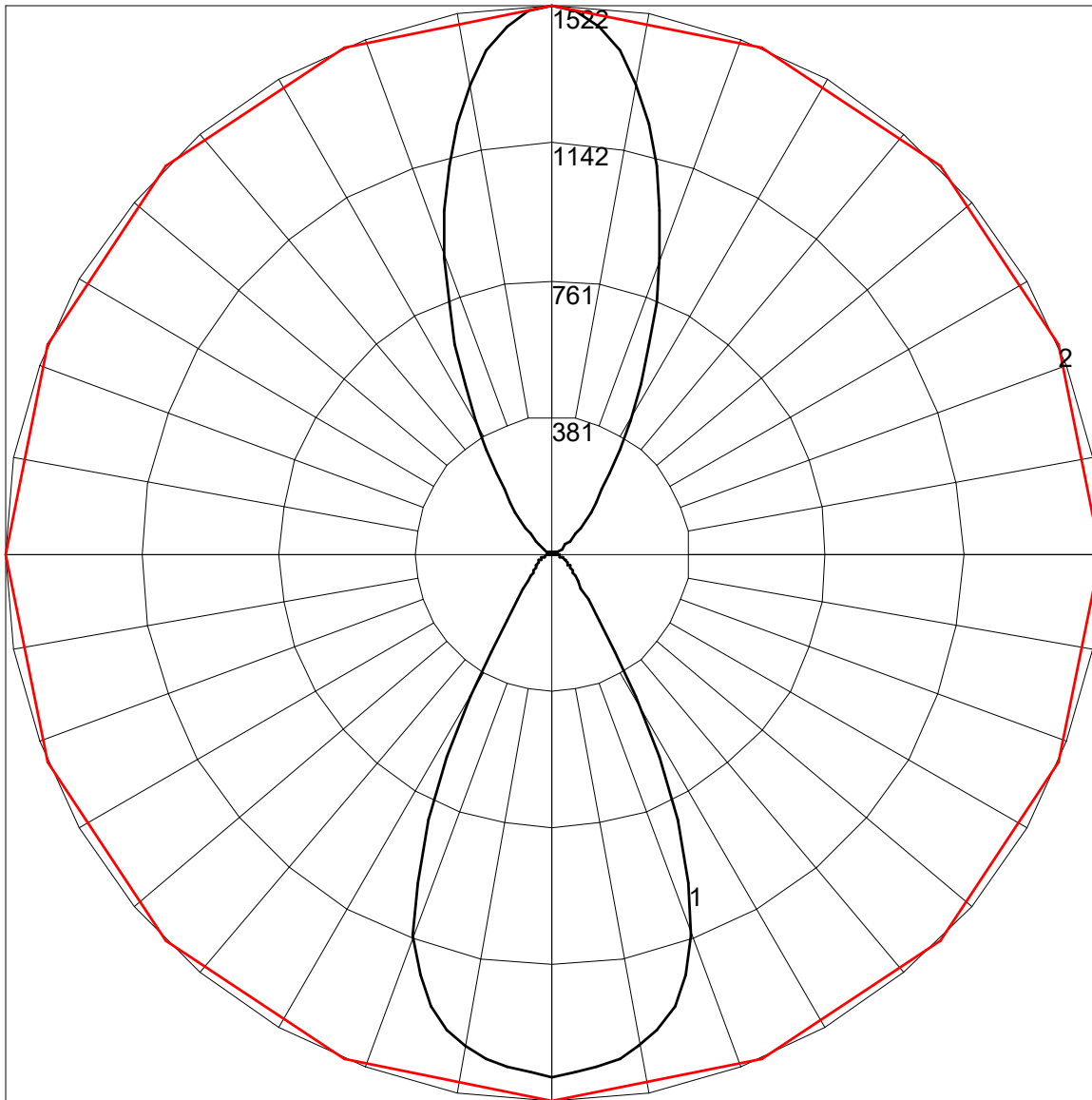
|     |    |     |     |     |     |     |     |     |     |     |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 12H | 4H | 5.9 | 6.2 | 6.9 | 7.2 | 8.6 | 6.0 | 6.3 | 7.0 | 7.3 | 8.6 |
|     | 6H | 6.1 | 6.4 | 7.2 | 7.4 | 8.7 | 6.2 | 6.4 | 7.2 | 7.5 | 8.8 |
|     | 8H | 6.2 | 6.4 | 7.2 | 7.4 | 8.8 | 6.2 | 6.5 | 7.3 | 7.5 | 8.9 |

Maximum UGR = 8.9

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CSDI-L12-9DWU-L12-9DWD-XXX-DIM-UNV-OW-CSU-LW-WHD-WM-3000K\_.IES

## POLAR GRAPH



Maximum Candela = 1522.275 Located At Horizontal Angle = 0, Vertical Angle = 180

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)