



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CSDI-P12-835U-P12-835D-XXX-POE PR-LW-WHU-LN-WHD-WM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.13 & #13257153.22

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 20-APR-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 4CSDI-P12-835U-P12-835D-xxx-PoE PR-LW-WHU-LN-WND-WM

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, frosted lens enclosures

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

[BALLAST] (2) ERP PHB30W-0700-42 Drivers

[OTHER] 24.8 C, 120 V, 0.1986 A, 23.46 W, 0.983 PF, 60 Hz

[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                | 2728                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 119                 |
| Total Luminaire Watts           | 23                  |
| 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                  | 2797             | 2381              | 2753              |
| 55                  | 1515             | 1183              | 1464              |
| 65                  | 860              | 621               | 857               |
| 75                  | 391              | 267               | 379               |
| 85                  | 79               | 49                | 74                |

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**PHOTOMETRIC FILENAME : 4CSDI-P12-835U-P12-835D-XXX-POE PR-LW-WHU-LN-WHD-WM\_IES**

**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>   | 4517.023   | 4517.023    | 4517.023    | 4517.023    | 4517.023    | 4517.023     | 4517.023     | 4517.023     | 4517.023     |
| <b>2.5</b>   | 4353.641   | 4350.438    | 4354.442    | 4361.650    | 4362.451    | 4361.650     | 4354.442     | 4350.438     | 4353.641     |
| <b>5.0</b>   | 3926.767   | 3917.957    | 3919.559    | 3918.758    | 3915.554    | 3918.758     | 3919.559     | 3917.957     | 3926.767     |
| <b>7.5</b>   | 3275.643   | 3271.638    | 3263.629    | 3256.421    | 3252.417    | 3256.421     | 3263.629     | 3271.638     | 3275.643     |
| <b>10.0</b>  | 2539.624   | 2533.217    | 2523.606    | 2508.389    | 2505.186    | 2508.389     | 2523.606     | 2533.217     | 2539.624     |
| <b>12.5</b>  | 1851.659   | 1840.447    | 1830.836    | 1810.814    | 1805.207    | 1810.814     | 1830.836     | 1840.447     | 1851.659     |
| <b>15.0</b>  | 1299.845   | 1293.438    | 1284.629    | 1259.801    | 1245.385    | 1259.801     | 1284.629     | 1293.438     | 1299.845     |
| <b>17.5</b>  | 916.219    | 917.821     | 915.418     | 886.586     | 868.966     | 886.586      | 915.418      | 917.821      | 916.219      |
| <b>20.0</b>  | 676.833    | 687.885     | 695.733     | 664.899     | 646.399     | 664.899      | 695.733      | 687.885      | 676.833      |
| <b>22.5</b>  | 525.144    | 546.928     | 570.795     | 535.235     | 510.648     | 535.235      | 570.795      | 546.928      | 525.144      |
| <b>25.0</b>  | 418.625    | 449.219     | 491.666     | 443.373     | 409.175     | 443.373      | 491.666      | 449.219      | 418.625      |
| <b>27.5</b>  | 331.328    | 368.009     | 424.472     | 362.963     | 324.201     | 362.963      | 424.472      | 368.009      | 331.328      |
| <b>30.0</b>  | 268.379    | 297.611     | 357.838     | 292.325     | 261.410     | 292.325      | 357.838      | 297.611      | 268.379      |
| <b>32.5</b>  | 225.691    | 245.392     | 292.966     | 239.707     | 219.844     | 239.707      | 292.966      | 245.392      | 225.691      |
| <b>35.0</b>  | 194.135    | 208.472     | 237.064     | 204.468     | 191.894     | 204.468      | 237.064      | 208.472      | 194.135      |
| <b>37.5</b>  | 169.629    | 180.281     | 195.818     | 178.679     | 169.228     | 178.679      | 195.818      | 180.281      | 169.629      |
| <b>40.0</b>  | 147.204    | 156.894     | 165.544     | 156.574     | 146.643     | 156.574      | 165.544      | 156.894      | 147.204      |
| <b>42.5</b>  | 125.740    | 135.751     | 141.598     | 135.431     | 124.779     | 135.431      | 141.598      | 135.751      | 125.740      |
| <b>45.0</b>  | 107.159    | 116.610     | 121.816     | 115.809     | 105.477     | 115.809      | 121.816      | 116.610      | 107.159      |
| <b>47.5</b>  | 91.942     | 100.111     | 104.757     | 98.670      | 89.299      | 98.670       | 104.757      | 100.111      | 91.942       |
| <b>50.0</b>  | 80.009     | 86.496      | 89.860      | 84.494      | 77.045      | 84.494       | 89.860       | 86.496       | 80.009       |
| <b>52.5</b>  | 70.798     | 75.604      | 77.366      | 73.522      | 68.076      | 73.522       | 77.366       | 75.604       | 70.798       |
| <b>55.0</b>  | 63.430     | 66.714      | 67.115      | 64.953      | 61.268      | 64.953       | 67.115       | 66.714       | 63.430       |
| <b>57.5</b>  | 57.023     | 59.025      | 58.465      | 57.745      | 55.581      | 57.745       | 58.465       | 59.025       | 57.023       |
| <b>60.0</b>  | 50.697     | 51.977      | 50.937      | 51.257      | 49.736      | 51.257       | 50.937       | 51.977       | 50.697       |
| <b>62.5</b>  | 44.049     | 45.250      | 44.049      | 45.090      | 43.889      | 45.090       | 44.049       | 45.250       | 44.049       |
| <b>65.0</b>  | 37.962     | 38.763      | 37.642      | 38.843      | 37.802      | 38.843       | 37.642       | 38.763       | 37.962       |
| <b>67.5</b>  | 32.436     | 32.837      | 31.716      | 32.677      | 32.036      | 32.677       | 31.716       | 32.837       | 32.436       |
| <b>70.0</b>  | 27.070     | 27.311      | 26.349      | 27.070      | 26.670      | 27.070       | 26.349       | 27.311       | 27.070       |
| <b>72.5</b>  | 22.184     | 22.105      | 21.384      | 21.944      | 21.624      | 21.944       | 21.384       | 22.105       | 22.184       |
| <b>75.0</b>  | 17.620     | 17.379      | 16.738      | 17.219      | 17.059      | 17.219       | 16.738       | 17.379       | 17.620       |
| <b>77.5</b>  | 13.455     | 13.215      | 12.654      | 12.974      | 12.895      | 12.974       | 12.654       | 13.215       | 13.455       |
| <b>80.0</b>  | 9.691      | 9.451       | 9.050       | 9.291       | 9.291       | 9.291        | 9.050        | 9.451        | 9.691        |
| <b>82.5</b>  | 6.407      | 6.087       | 5.766       | 6.007       | 6.087       | 6.007        | 5.766        | 6.087        | 6.407        |
| <b>85.0</b>  | 3.524      | 3.204       | 3.044       | 3.204       | 3.284       | 3.204        | 3.044        | 3.204        | 3.524        |
| <b>87.5</b>  | 0.560      | 0.881       | 1.041       | 1.201       | 1.282       | 1.201        | 1.041        | 0.881        | 0.560        |
| <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>  | 0.737      | 1.474       | 2.272       | 3.868       | 3.868       | 3.868        | 2.272        | 1.474        | 0.737        |
| <b>95.0</b>  | 2.395      | 3.193       | 3.868       | 5.526       | 5.649       | 5.526        | 3.868        | 3.193        | 2.395        |
| <b>97.5</b>  | 5.465      | 5.833       | 6.263       | 7.982       | 8.166       | 7.982        | 6.263        | 5.833        | 5.465        |
| <b>100.0</b> | 8.596      | 9.087       | 9.456       | 11.236      | 11.482      | 11.236       | 9.456        | 9.087        | 8.596        |
| <b>102.5</b> | 12.280     | 12.894      | 13.078      | 14.982      | 15.289      | 14.982       | 13.078       | 12.894       | 12.280       |
| <b>105.0</b> | 16.210     | 16.885      | 17.008      | 19.157      | 19.280      | 19.157       | 17.008       | 16.885       | 16.210       |
| <b>107.5</b> | 20.323     | 21.183      | 21.367      | 23.639      | 23.578      | 23.639       | 21.367       | 21.183       | 20.323       |
| <b>110.0</b> | 24.683     | 25.727      | 25.911      | 28.305      | 28.244      | 28.305       | 25.911       | 25.727       | 24.683       |
| <b>112.5</b> | 29.349     | 30.516      | 30.639      | 33.340      | 33.156      | 33.340       | 30.639       | 30.516       | 29.349       |
| <b>115.0</b> | 34.016     | 35.612      | 35.796      | 38.375      | 37.945      | 38.375       | 35.796       | 35.612       | 34.016       |
| <b>117.5</b> | 38.436     | 40.524      | 40.892      | 43.410      | 42.612      | 43.410       | 40.892       | 40.524       | 38.436       |
| <b>120.0</b> | 43.041     | 45.313      | 45.866      | 48.015      | 46.971      | 48.015       | 45.866       | 45.313       | 43.041       |
| <b>122.5</b> | 47.217     | 49.980      | 50.716      | 52.190      | 50.655      | 52.190       | 50.716       | 49.980       | 47.217       |
| <b>125.0</b> | 50.716     | 54.155      | 55.444      | 56.120      | 53.971      | 56.120       | 54.155       | 50.716       | 50.716       |
| <b>127.5</b> | 54.400     | 58.698      | 60.847      | 60.356      | 57.777      | 60.356       | 58.698       | 54.400       | 54.400       |
| <b>130.0</b> | 58.944     | 64.654      | 67.479      | 65.944      | 62.382      | 65.944       | 64.654       | 58.944       | 58.944       |
| <b>132.5</b> | 65.821     | 72.820      | 76.382      | 73.496      | 69.382      | 73.496       | 72.820       | 65.821       | 65.821       |

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|              |          |          |          |          |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>135.0</b> | 76.443   | 84.425   | 89.521   | 84.548   | 80.373   | 84.548   | 89.521   | 84.425   | 76.443   |
| <b>137.5</b> | 92.223   | 101.433  | 110.766  | 100.205  | 96.214   | 100.205  | 110.766  | 101.433  | 92.223   |
| <b>140.0</b> | 114.572  | 127.282  | 146.193  | 122.800  | 117.765  | 122.800  | 146.193  | 127.282  | 114.572  |
| <b>142.5</b> | 146.992  | 167.315  | 207.348  | 158.473  | 149.263  | 158.473  | 207.348  | 167.315  | 146.992  |
| <b>145.0</b> | 195.436  | 230.004  | 302.825  | 215.944  | 195.436  | 215.944  | 302.825  | 230.004  | 195.436  |
| <b>147.5</b> | 269.669  | 325.297  | 437.414  | 308.228  | 264.941  | 308.228  | 437.414  | 325.297  | 269.669  |
| <b>150.0</b> | 382.031  | 464.307  | 605.097  | 447.053  | 376.566  | 447.053  | 605.097  | 464.307  | 382.031  |
| <b>152.5</b> | 551.925  | 652.682  | 791.446  | 632.420  | 544.864  | 632.420  | 791.446  | 652.682  | 551.925  |
| <b>155.0</b> | 785.920  | 879.248  | 992.224  | 863.898  | 777.938  | 863.898  | 992.224  | 879.248  | 785.920  |
| <b>157.5</b> | 1072.658 | 1138.970 | 1212.036 | 1130.374 | 1059.150 | 1130.374 | 1212.036 | 1138.970 | 1072.658 |
| <b>160.0</b> | 1377.816 | 1410.358 | 1457.636 | 1417.112 | 1371.062 | 1417.112 | 1457.636 | 1410.358 | 1377.816 |
| <b>162.5</b> | 1649.204 | 1668.238 | 1692.798 | 1679.904 | 1655.958 | 1679.904 | 1692.798 | 1668.238 | 1649.204 |
| <b>165.0</b> | 1881.296 | 1888.050 | 1900.330 | 1896.032 | 1884.366 | 1896.032 | 1900.330 | 1888.050 | 1881.296 |
| <b>167.5</b> | 2064.882 | 2059.970 | 2071.022 | 2069.180 | 2064.268 | 2069.180 | 2071.022 | 2059.970 | 2064.882 |
| <b>170.0</b> | 2199.348 | 2193.208 | 2192.594 | 2190.138 | 2188.296 | 2190.138 | 2192.594 | 2193.208 | 2199.348 |
| <b>172.5</b> | 2276.712 | 2273.028 | 2269.344 | 2263.818 | 2261.976 | 2263.818 | 2269.344 | 2273.028 | 2276.712 |
| <b>175.0</b> | 2312.938 | 2310.482 | 2308.026 | 2306.184 | 2304.956 | 2306.184 | 2308.026 | 2310.482 | 2312.938 |
| <b>177.5</b> | 2313.552 | 2318.464 | 2320.306 | 2323.376 | 2324.604 | 2323.376 | 2320.306 | 2318.464 | 2313.552 |
| <b>180.0</b> | 2322.000 | 2322.000 | 2322.000 | 2322.000 | 2322.000 | 2322.000 | 2322.000 | 2322.000 | 2322.000 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CSDI-P12-835U-P12-835D-XXX-POE PR-LW-WHU-LN-WHD-WM\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 699.31  | N.A.  | 25.60  |
| 0-30    | 908.87  | N.A.  | 33.30  |
| 0-40    | 1044.03 | N.A.  | 38.30  |
| 0-60    | 1193.23 | N.A.  | 43.70  |
| 0-80    | 1249.82 | N.A.  | 45.80  |
| 0-90    | 1253.88 | N.A.  | 46.00  |
| 10-90   | 925.33  | N.A.  | 33.90  |
| 20-40   | 344.73  | N.A.  | 12.60  |
| 20-50   | 434.74  | N.A.  | 15.90  |
| 40-70   | 187.32  | N.A.  | 6.90   |
| 60-80   | 56.60   | N.A.  | 2.10   |
| 70-80   | 18.48   | N.A.  | 0.70   |
| 80-90   | 4.05    | N.A.  | 0.10   |
| 90-110  | 23.89   | N.A.  | 0.90   |
| 90-120  | 59.88   | N.A.  | 2.20   |
| 90-130  | 108.92  | N.A.  | 4.00   |
| 90-150  | 336.45  | N.A.  | 12.30  |
| 90-180  | 1474.45 | N.A.  | 54.00  |
| 110-180 | 1450.57 | N.A.  | 53.20  |
| 0-180   | 2728.33 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 328.55 |
| 10-20   | 370.76 |
| 20-30   | 209.56 |
| 30-40   | 135.16 |
| 40-50   | 90.02  |
| 50-60   | 59.18  |
| 60-70   | 38.12  |
| 70-80   | 18.48  |
| 80-90   | 4.05   |
| 90-100  | 4.99   |
| 100-110 | 18.90  |
| 110-120 | 35.99  |
| 120-130 | 49.04  |
| 130-140 | 68.05  |
| 140-150 | 159.48 |
| 150-160 | 405.66 |
| 160-170 | 515.63 |
| 170-180 | 216.70 |

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC<br>RW | 80  |     |     |     | 70 |    |    |    | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|----------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0        | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |
| 1        | 99  | 95  | 92  | 90  | 91 | 88 | 85 | 83 | 74 | 72 | 71 | 61 | 60 | 59 | 49 | 49 | 48 | 43 |
| 2        | 92  | 86  | 81  | 77  | 85 | 80 | 76 | 72 | 68 | 65 | 63 | 57 | 55 | 53 | 47 | 45 | 44 | 40 |
| 3        | 86  | 78  | 72  | 68  | 79 | 73 | 68 | 64 | 62 | 59 | 56 | 53 | 51 | 49 | 44 | 43 | 41 | 37 |
| 4        | 80  | 72  | 65  | 60  | 74 | 67 | 61 | 57 | 58 | 54 | 51 | 49 | 47 | 45 | 42 | 40 | 39 | 35 |
| 5        | 75  | 66  | 59  | 55  | 70 | 62 | 56 | 52 | 54 | 50 | 47 | 46 | 44 | 41 | 40 | 38 | 36 | 33 |
| 6        | 71  | 61  | 54  | 50  | 66 | 57 | 52 | 47 | 50 | 46 | 43 | 44 | 41 | 39 | 38 | 36 | 34 | 32 |
| 7        | 67  | 57  | 50  | 46  | 62 | 54 | 48 | 44 | 47 | 43 | 40 | 42 | 38 | 36 | 36 | 34 | 32 | 30 |
| 8        | 63  | 53  | 47  | 42  | 59 | 50 | 45 | 41 | 45 | 40 | 37 | 39 | 36 | 34 | 35 | 32 | 31 | 29 |
| 9        | 60  | 50  | 44  | 40  | 56 | 47 | 42 | 38 | 42 | 38 | 35 | 38 | 35 | 32 | 33 | 31 | 30 | 28 |
| 10       | 57  | 47  | 41  | 37  | 53 | 45 | 39 | 36 | 40 | 36 | 33 | 36 | 33 | 31 | 32 | 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 | 4.1 | 4.8 | 5.1 | 5.8 | 7.1 | 3.9 | 4.6 | 5.0 | 5.6 | 7.0 |
|      | 3H   | 5.0 | 5.6 | 6.0 | 6.6 | 7.9 | 4.8 | 5.4 | 5.9 | 6.4 | 7.8 |
|      | 4H   | 5.1 | 5.7 | 6.2 | 6.7 | 8.1 | 5.0 | 5.6 | 6.1 | 6.6 | 8.0 |
|      | 6H   | 5.2 | 5.7 | 6.3 | 6.8 | 8.2 | 5.1 | 5.6 | 6.1 | 6.6 | 8.0 |
|      | 8H   | 5.2 | 5.7 | 6.3 | 6.7 | 8.1 | 5.1 | 5.6 | 6.1 | 6.6 | 8.0 |
|      | 12H  | 5.2 | 5.6 | 6.2 | 6.7 | 8.1 | 5.0 | 5.5 | 6.1 | 6.5 | 7.9 |

### UGR Viewed Endwise

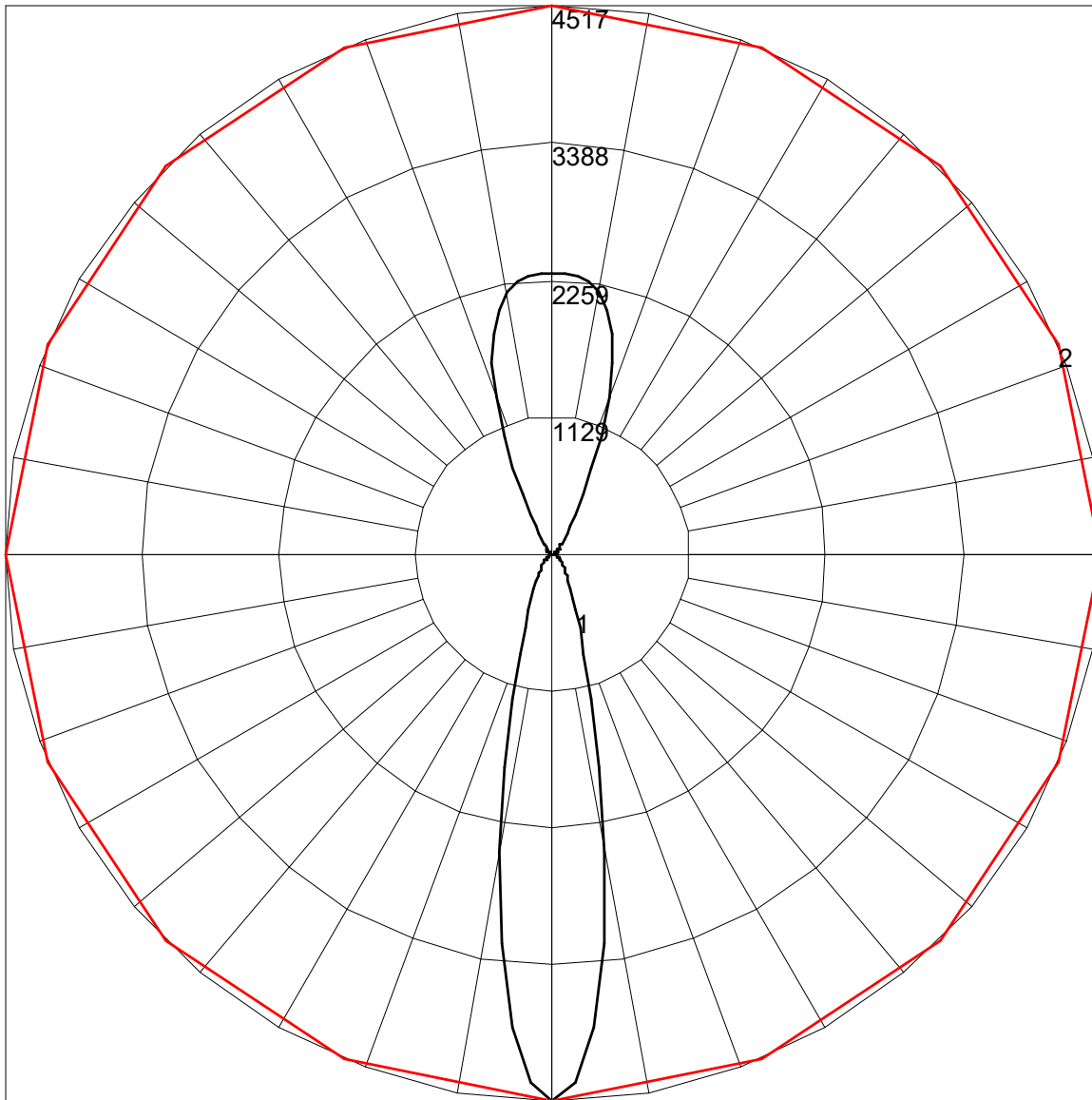
|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 4.2 | 4.8 | 5.3 | 5.8 | 7.2 | 4.1 | 4.7 | 5.1 | 5.7 | 7.1 |
|     | 3H  | 5.2 | 5.7 | 6.3 | 6.8 | 8.1 | 5.1 | 5.6 | 6.2 | 6.6 | 8.0 |
|     | 4H  | 5.5 | 5.9 | 6.6 | 7.0 | 8.4 | 5.4 | 5.8 | 6.5 | 6.9 | 8.3 |
|     | 6H  | 5.6 | 6.0 | 6.7 | 7.1 | 8.5 | 5.5 | 5.9 | 6.6 | 6.9 | 8.3 |
|     | 8H  | 5.6 | 6.0 | 6.7 | 7.0 | 8.4 | 5.5 | 5.8 | 6.6 | 6.9 | 8.3 |
|     | 12H | 5.6 | 5.9 | 6.7 | 6.9 | 8.4 | 5.4 | 5.7 | 6.5 | 6.8 | 8.2 |
| 8H  | 4H  | 5.5 | 5.8 | 6.5 | 6.9 | 8.3 | 5.4 | 5.7 | 6.4 | 6.8 | 8.2 |
|     | 6H  | 5.6 | 5.9 | 6.7 | 7.0 | 8.4 | 5.5 | 5.8 | 6.6 | 6.9 | 8.3 |
|     | 8H  | 5.6 | 5.9 | 6.7 | 7.0 | 8.4 | 5.5 | 5.8 | 6.6 | 6.9 | 8.3 |
|     | 12H | 5.6 | 5.8 | 6.7 | 6.9 | 8.4 | 5.5 | 5.7 | 6.6 | 6.8 | 8.3 |
| 12H | 4H  | 5.4 | 5.7 | 6.5 | 6.8 | 8.2 | 5.3 | 5.6 | 6.4 | 6.7 | 8.1 |
|     | 6H  | 5.6 | 5.8 | 6.7 | 6.9 | 8.4 | 5.5 | 5.7 | 6.6 | 6.8 | 8.2 |
|     | 8H  | 5.6 | 5.8 | 6.7 | 6.9 | 8.4 | 5.5 | 5.7 | 6.6 | 6.8 | 8.3 |

Maximum UGR = 8.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CSDI-P12-835U-P12-835D-XXX-POE PR-LW-WHU-LN-WHD-WM\_.IES

POLAR GRAPH



Maximum Candela = 4517.023 Located At Horizontal Angle = 0, Vertical Angle = 0

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

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)