



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CSDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-WHU-RM-WHD-WM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.13 and #13257153.20

[TESTLAB]

[ISSUE DATE] 8-FEB-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 4CSDI-L12-835U-L12-835D-xxx-DIM1-UNV-LW-WHU-RM-WHD-WM

[MORE]

[LUMINAIRE] White formed aluminum housing, wide distrib white painted flush prismatic lens trim up,

[MORE] medium distrib white painted regressed prismatic lens trim down

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

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

[OTHER]

[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                | 2757                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 98                  |
| Total Luminaire Watts           | 28.2                |
| 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                  | 2788             | 2429              | 2799              |
| 55                  | 1269             | 1062              | 1290              |
| 65                  | 684              | 461               | 679               |
| 75                  | 236              | 156               | 231               |
| 85                  | 36               | 26                | 38                |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0.0   | 3205.404   | 3205.404    | 3205.404    | 3205.404    | 3205.404    | 3205.404     | 3205.404     | 3205.404     | 3205.404     |
| 2.5   | 3161.826   | 3148.914    | 3153.756    | 3164.247    | 3169.896    | 3164.247     | 3153.756     | 3148.914     | 3161.826     |
| 5.0   | 3027.864   | 3015.759    | 3022.215    | 3030.285    | 3031.899    | 3030.285     | 3022.215     | 3015.759     | 3027.864     |
| 7.5   | 2825.307   | 2819.658    | 2826.921    | 2826.921    | 2825.307    | 2826.921     | 2826.921     | 2819.658     | 2825.307     |
| 10.0  | 2533.173   | 2533.980    | 2547.699    | 2538.822    | 2532.366    | 2538.822     | 2547.699     | 2533.980     | 2533.173     |
| 12.5  | 2119.182   | 2125.638    | 2145.813    | 2138.550    | 2124.831    | 2138.550     | 2145.813     | 2125.638     | 2119.182     |
| 15.0  | 1612.386   | 1632.561    | 1660.806    | 1655.157    | 1633.368    | 1655.157     | 1660.806     | 1632.561     | 1612.386     |
| 17.5  | 1128.993   | 1166.922    | 1204.851    | 1194.360    | 1163.694    | 1194.360     | 1204.851     | 1166.922     | 1128.993     |
| 20.0  | 776.011    | 819.105     | 865.104     | 843.315     | 811.035     | 843.315      | 865.104      | 819.105      | 776.011      |
| 22.5  | 572.566    | 606.218     | 653.186     | 620.260     | 592.499     | 620.260      | 653.186      | 606.218      | 572.566      |
| 25.0  | 457.165    | 484.039     | 525.841     | 488.961     | 461.443     | 488.961      | 525.841      | 484.039      | 457.165      |
| 27.5  | 374.125    | 401.725     | 441.913     | 402.532     | 372.995     | 402.532      | 441.913      | 401.725      | 374.125      |
| 30.0  | 301.737    | 331.354     | 374.367     | 331.919     | 303.593     | 331.919      | 374.367      | 331.354      | 301.737      |
| 32.5  | 243.149    | 268.892     | 312.955     | 271.071     | 246.619     | 271.071      | 312.955      | 268.892      | 243.149      |
| 35.0  | 197.473    | 218.616     | 257.756     | 221.925     | 202.476     | 221.925      | 257.756      | 218.616      | 197.473      |
| 37.5  | 168.824    | 180.768     | 210.708     | 184.884     | 170.761     | 184.884      | 210.708      | 180.768      | 168.824      |
| 40.0  | 146.632    | 154.460     | 173.828     | 156.477     | 146.955     | 156.477      | 173.828      | 154.460      | 146.632      |
| 42.5  | 125.973    | 133.558     | 145.583     | 134.204     | 126.134     | 134.204      | 145.583      | 133.558      | 125.973      |
| 45.0  | 106.847    | 114.917     | 124.278     | 115.078     | 107.250     | 115.078      | 124.278      | 114.917      | 106.847      |
| 47.5  | 89.658     | 97.566      | 105.556     | 97.808      | 90.142      | 97.808       | 105.556      | 97.566       | 89.658       |
| 50.0  | 74.567     | 81.830      | 88.366      | 82.233      | 75.374      | 82.233       | 88.366       | 81.830       | 74.567       |
| 52.5  | 62.381     | 68.353      | 73.195      | 68.918      | 63.349      | 68.918       | 73.195       | 68.353       | 62.381       |
| 55.0  | 53.101     | 57.136      | 60.283      | 57.862      | 53.988      | 57.862       | 60.283       | 57.136       | 53.101       |
| 57.5  | 46.080     | 48.339      | 49.711      | 48.823      | 46.725      | 48.823       | 49.711       | 48.339       | 46.080       |
| 60.0  | 40.592     | 41.318      | 41.076      | 41.560      | 40.592      | 41.560       | 41.076       | 41.318       | 40.592       |
| 62.5  | 35.347     | 35.347      | 33.975      | 35.266      | 35.185      | 35.266       | 33.975       | 35.347       | 35.347       |
| 65.0  | 30.182     | 29.778      | 27.922      | 29.617      | 29.940      | 29.617       | 27.922       | 29.778       | 30.182       |
| 67.5  | 25.098     | 24.613      | 22.677      | 24.371      | 24.856      | 24.371       | 22.677       | 24.613       | 25.098       |
| 70.0  | 20.175     | 19.691      | 17.996      | 19.449      | 19.933      | 19.449       | 17.996       | 19.691       | 20.175       |
| 72.5  | 15.414     | 15.010      | 13.719      | 14.768      | 15.252      | 14.768       | 13.719       | 15.010       | 15.414       |
| 75.0  | 10.652     | 10.652      | 9.765       | 10.330      | 10.410      | 10.330       | 9.765        | 10.652       | 10.652       |
| 77.5  | 5.084      | 6.295       | 6.456       | 6.133       | 5.972       | 6.133        | 6.456        | 6.295        | 5.084        |
| 80.0  | 3.712      | 3.793       | 4.035       | 3.874       | 3.874       | 3.874        | 4.035        | 3.793        | 3.712        |
| 82.5  | 2.582      | 2.663       | 2.663       | 2.663       | 2.663       | 2.663        | 2.663        | 2.663        | 2.582        |
| 85.0  | 1.614      | 1.695       | 1.614       | 1.614       | 1.695       | 1.614        | 1.614        | 1.695        | 1.614        |
| 87.5  | 0.726      | 0.726       | 0.726       | 0.807       | 0.807       | 0.807        | 0.726        | 0.726        | 0.726        |
| 90.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        |
| 92.5  | 0.737      | 1.474       | 2.272       | 3.868       | 3.868       | 3.868        | 2.272        | 1.474        | 0.737        |
| 95.0  | 2.395      | 3.193       | 3.868       | 5.526       | 5.649       | 5.526        | 3.868        | 3.193        | 2.395        |
| 97.5  | 5.465      | 5.833       | 6.263       | 7.982       | 8.166       | 7.982        | 6.263        | 5.833        | 5.465        |
| 100.0 | 8.596      | 9.087       | 9.456       | 11.236      | 11.482      | 11.236       | 9.456        | 9.087        | 8.596        |
| 102.5 | 12.280     | 12.894      | 13.078      | 14.982      | 15.289      | 14.982       | 13.078       | 12.894       | 12.280       |
| 105.0 | 16.210     | 16.885      | 17.008      | 19.157      | 19.280      | 19.157       | 17.008       | 16.885       | 16.210       |
| 107.5 | 20.323     | 21.183      | 21.367      | 23.639      | 23.578      | 23.639       | 21.367       | 21.183       | 20.323       |
| 110.0 | 24.683     | 25.727      | 25.911      | 28.305      | 28.244      | 28.305       | 25.911       | 25.727       | 24.683       |
| 112.5 | 29.349     | 30.516      | 30.639      | 33.340      | 33.156      | 33.340       | 30.639       | 30.516       | 29.349       |
| 115.0 | 34.016     | 35.612      | 35.796      | 38.375      | 37.945      | 38.375       | 35.796       | 35.612       | 34.016       |
| 117.5 | 38.436     | 40.524      | 40.892      | 43.410      | 42.612      | 43.410       | 40.892       | 40.524       | 38.436       |
| 120.0 | 43.041     | 45.313      | 45.866      | 48.015      | 46.971      | 48.015       | 45.866       | 45.313       | 43.041       |
| 122.5 | 47.217     | 49.980      | 50.716      | 52.190      | 50.655      | 52.190       | 50.716       | 49.980       | 47.217       |
| 125.0 | 50.716     | 54.155      | 55.444      | 56.120      | 53.971      | 56.120       | 54.155       | 50.716       | 50.716       |
| 127.5 | 54.400     | 58.698      | 60.847      | 60.356      | 57.777      | 60.356       | 58.698       | 54.400       | 54.400       |
| 130.0 | 58.944     | 64.654      | 67.479      | 65.944      | 62.382      | 65.944       | 64.654       | 58.944       | 58.944       |
| 132.5 | 65.821     | 72.820      | 76.382      | 73.496      | 69.382      | 73.496       | 72.820       | 65.821       | 65.821       |

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CSDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-WHU-RM-WHD-WM\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 718.17  | N.A.  | 26.00  |
| 0-30    | 954.02  | N.A.  | 34.60  |
| 0-40    | 1098.23 | N.A.  | 39.80  |
| 0-60    | 1240.43 | N.A.  | 45.00  |
| 0-80    | 1280.98 | N.A.  | 46.50  |
| 0-90    | 1282.88 | N.A.  | 46.50  |
| 10-90   | 1009.32 | N.A.  | 36.60  |
| 20-40   | 380.05  | N.A.  | 13.80  |
| 20-50   | 469.82  | N.A.  | 17.00  |
| 40-70   | 171.52  | N.A.  | 6.20   |
| 60-80   | 40.55   | N.A.  | 1.50   |
| 70-80   | 11.23   | N.A.  | 0.40   |
| 80-90   | 1.90    | 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.  | 12.20  |
| 90-180  | 1474.45 | N.A.  | 53.50  |
| 110-180 | 1450.57 | N.A.  | 52.60  |
| 0-180   | 2757.33 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 273.56 |
| 10-20   | 444.61 |
| 20-30   | 235.84 |
| 30-40   | 144.21 |
| 40-50   | 89.77  |
| 50-60   | 52.44  |
| 60-70   | 29.31  |
| 70-80   | 11.23  |
| 80-90   | 1.90   |
| 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 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1        | 99  | 96  | 93  | 90  | 91 | 88 | 86 | 83 | 75 | 73 | 71 | 62 | 61 | 60 | 50 | 49 | 49 | 44 |
| 2        | 92  | 87  | 82  | 78  | 85 | 80 | 76 | 73 | 68 | 66 | 63 | 57 | 56 | 54 | 47 | 46 | 45 | 41 |
| 3        | 86  | 79  | 73  | 68  | 80 | 73 | 68 | 64 | 63 | 60 | 57 | 53 | 51 | 49 | 45 | 43 | 42 | 38 |
| 4        | 81  | 72  | 66  | 61  | 75 | 67 | 62 | 58 | 58 | 54 | 51 | 50 | 47 | 45 | 42 | 41 | 39 | 36 |
| 5        | 76  | 66  | 60  | 55  | 70 | 62 | 57 | 52 | 54 | 50 | 47 | 47 | 44 | 42 | 40 | 38 | 37 | 34 |
| 6        | 71  | 61  | 55  | 50  | 66 | 58 | 52 | 48 | 51 | 47 | 43 | 44 | 41 | 39 | 38 | 36 | 35 | 32 |
| 7        | 67  | 57  | 51  | 46  | 62 | 54 | 48 | 44 | 48 | 43 | 40 | 42 | 39 | 36 | 36 | 34 | 33 | 30 |
| 8        | 63  | 53  | 47  | 43  | 59 | 50 | 45 | 41 | 45 | 41 | 38 | 40 | 37 | 34 | 35 | 33 | 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 | 3.6 | 3.6 | 3.8 | 4.4 | 5.8 | 3.6 | 3.6 | 3.8 | 4.5 | 5.8 |
|      | 3H   | 3.6 | 4.1 | 4.5 | 5.1 | 6.4 | 3.6 | 4.1 | 4.5 | 5.1 | 6.5 |
|      | 4H   | 3.6 | 4.1 | 4.6 | 5.2 | 6.5 | 3.6 | 4.2 | 4.6 | 5.2 | 6.5 |
|      | 6H   | 3.6 | 4.0 | 4.5 | 5.0 | 6.4 | 3.6 | 4.1 | 4.6 | 5.1 | 6.5 |
|      | 8H   | 3.6 | 3.9 | 4.5 | 5.0 | 6.4 | 3.6 | 4.0 | 4.5 | 5.0 | 6.4 |
|      | 12H  | 3.6 | 3.9 | 4.4 | 4.9 | 6.3 | 3.6 | 3.9 | 4.5 | 4.9 | 6.3 |

### UGR Viewed Endwise

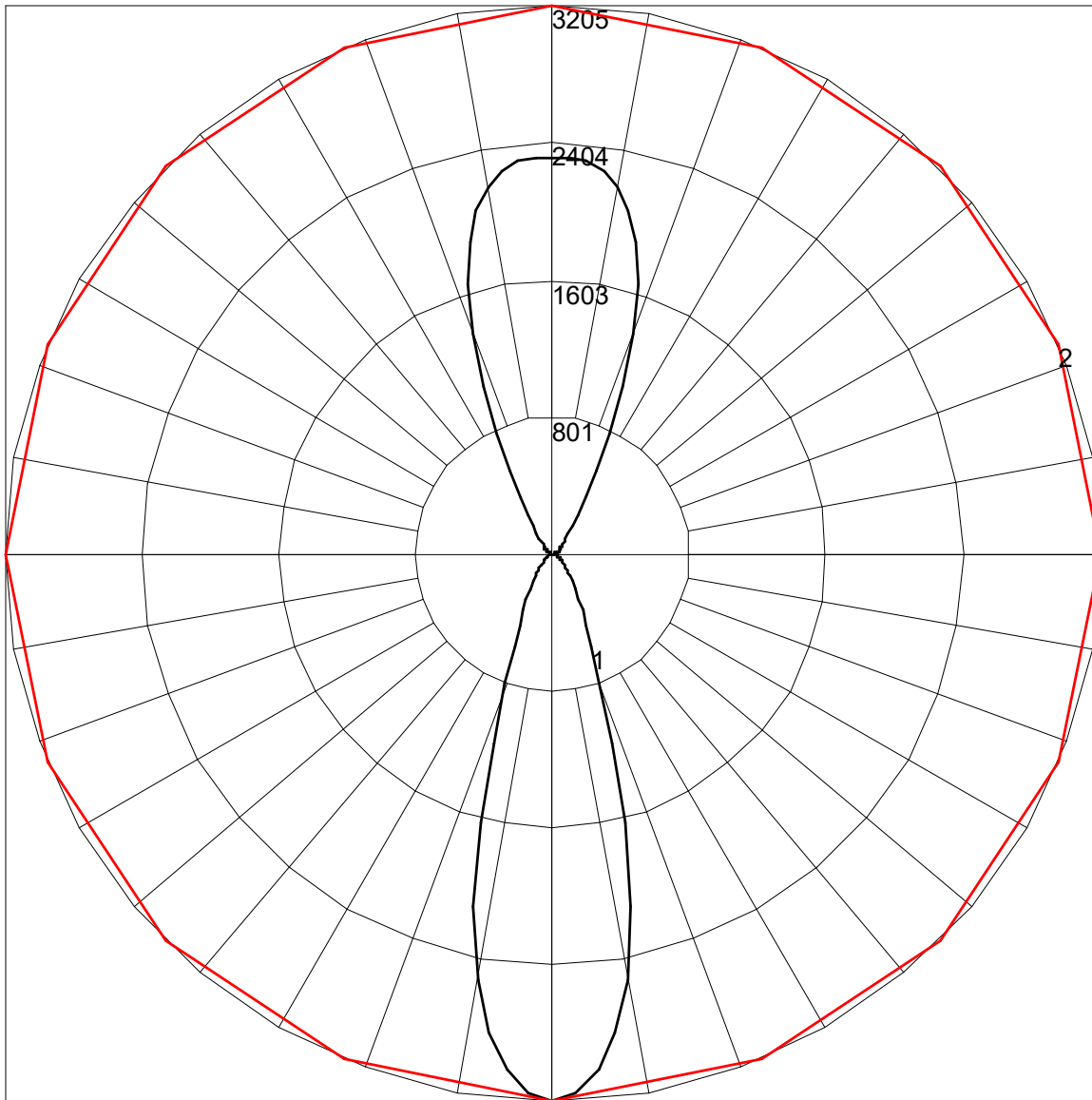
|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 3.6 | 3.6 | 3.9 | 4.4 | 5.8 | 3.6 | 3.6 | 3.9 | 4.5 | 5.8 |
|     | 3H  | 3.6 | 4.1 | 4.7 | 5.2 | 6.5 | 3.7 | 4.1 | 4.7 | 5.2 | 6.6 |
|     | 4H  | 3.8 | 4.2 | 4.8 | 5.2 | 6.6 | 3.8 | 4.2 | 4.9 | 5.3 | 6.7 |
|     | 6H  | 3.7 | 4.1 | 4.8 | 5.2 | 6.6 | 3.8 | 4.1 | 4.8 | 5.2 | 6.6 |
|     | 8H  | 3.7 | 4.0 | 4.8 | 5.1 | 6.5 | 3.7 | 4.1 | 4.8 | 5.1 | 6.5 |
|     | 12H | 3.6 | 3.9 | 4.7 | 5.0 | 6.4 | 3.7 | 4.0 | 4.7 | 5.0 | 6.4 |
| 8H  | 4H  | 3.7 | 4.0 | 4.8 | 5.1 | 6.5 | 3.7 | 4.1 | 4.8 | 5.1 | 6.5 |
|     | 6H  | 3.7 | 3.9 | 4.8 | 5.0 | 6.4 | 3.7 | 4.0 | 4.8 | 5.1 | 6.5 |
|     | 8H  | 3.6 | 3.9 | 4.7 | 4.9 | 6.4 | 3.6 | 3.9 | 4.7 | 5.0 | 6.4 |
|     | 12H | 3.6 | 3.8 | 4.7 | 4.9 | 6.3 | 3.6 | 3.8 | 4.7 | 4.9 | 6.4 |
| 12H | 4H  | 3.6 | 3.9 | 4.7 | 5.0 | 6.4 | 3.6 | 4.0 | 4.7 | 5.0 | 6.4 |
|     | 6H  | 3.6 | 3.8 | 4.7 | 4.9 | 6.4 | 3.6 | 3.9 | 4.7 | 4.9 | 6.4 |
|     | 8H  | 3.6 | 3.8 | 4.7 | 4.9 | 6.3 | 3.6 | 3.8 | 4.7 | 4.9 | 6.3 |

Maximum UGR = 6.7

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## POLAR GRAPH



Maximum Candela = 3205.404 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.)