



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13131414.06 and #13255206.01

[TESTLAB]

[ISSUE DATE] 11-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4CRDI-L12-835U-L12-835D-xxx-DIM1-UNV-OM-CSU-OS-CSD-WM

[MORE]

[LUMINAIRE] White formed aluminum housing, medium distrib anodized aluminum reflector trim w/clear cover glass up,

[MORE] narrow spot distrib anodized alum open reflector trim down

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

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] INDOOR, DIRECT, INDIRECT

[\_SEARCH\_MOUNTING] WALL

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2115               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 61                 |
| Total Luminaire Watts           | 34.62              |
| 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            | Circular           |
| Luminous Length (0-180)         | 0.21 ft (Diameter) |
| Luminous Width (90-270)         | 0.21 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4476             | 4476              | 4476              |
| 55                  | 1655             | 1655              | 1655              |
| 65                  | 749              | 749               | 749               |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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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> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>   | 20880.000  | 20880.000   | 20880.000   | 20880.000   | 20880.000   | 20880.000    | 20880.000    | 20880.000    | 20880.000    | 20880.000    |
| <b>2.5</b>   | 16270.000  | 16270.000   | 16270.000   | 16270.000   | 16270.000   | 16270.000    | 16270.000    | 16270.000    | 16270.000    | 16270.000    |
| <b>5.0</b>   | 7108.000   | 7108.000    | 7108.000    | 7108.000    | 7108.000    | 7108.000     | 7108.000     | 7108.000     | 7108.000     | 7108.000     |
| <b>7.5</b>   | 2980.000   | 2980.000    | 2980.000    | 2980.000    | 2980.000    | 2980.000     | 2980.000     | 2980.000     | 2980.000     | 2980.000     |
| <b>10.0</b>  | 1683.000   | 1683.000    | 1683.000    | 1683.000    | 1683.000    | 1683.000     | 1683.000     | 1683.000     | 1683.000     | 1683.000     |
| <b>12.5</b>  | 1188.000   | 1188.000    | 1188.000    | 1188.000    | 1188.000    | 1188.000     | 1188.000     | 1188.000     | 1188.000     | 1188.000     |
| <b>15.0</b>  | 936.000    | 936.000     | 936.000     | 936.000     | 936.000     | 936.000      | 936.000      | 936.000      | 936.000      | 936.000      |
| <b>17.5</b>  | 798.000    | 798.000     | 798.000     | 798.000     | 798.000     | 798.000      | 798.000      | 798.000      | 798.000      | 798.000      |
| <b>20.0</b>  | 726.000    | 726.000     | 726.000     | 726.000     | 726.000     | 726.000      | 726.000      | 726.000      | 726.000      | 726.000      |
| <b>22.5</b>  | 686.000    | 686.000     | 686.000     | 686.000     | 686.000     | 686.000      | 686.000      | 686.000      | 686.000      | 686.000      |
| <b>25.0</b>  | 618.000    | 618.000     | 618.000     | 618.000     | 618.000     | 618.000      | 618.000      | 618.000      | 618.000      | 618.000      |
| <b>27.5</b>  | 358.000    | 358.000     | 358.000     | 358.000     | 358.000     | 358.000      | 358.000      | 358.000      | 358.000      | 358.000      |
| <b>30.0</b>  | 90.000     | 90.000      | 90.000      | 90.000      | 90.000      | 90.000       | 90.000       | 90.000       | 90.000       | 90.000       |
| <b>32.5</b>  | 31.000     | 31.000      | 31.000      | 31.000      | 31.000      | 31.000       | 31.000       | 31.000       | 31.000       | 31.000       |
| <b>35.0</b>  | 23.000     | 23.000      | 23.000      | 23.000      | 23.000      | 23.000       | 23.000       | 23.000       | 23.000       | 23.000       |
| <b>37.5</b>  | 19.000     | 19.000      | 19.000      | 19.000      | 19.000      | 19.000       | 19.000       | 19.000       | 19.000       | 19.000       |
| <b>40.0</b>  | 15.000     | 15.000      | 15.000      | 15.000      | 15.000      | 15.000       | 15.000       | 15.000       | 15.000       | 15.000       |
| <b>42.5</b>  | 12.000     | 12.000      | 12.000      | 12.000      | 12.000      | 12.000       | 12.000       | 12.000       | 12.000       | 12.000       |
| <b>45.0</b>  | 10.000     | 10.000      | 10.000      | 10.000      | 10.000      | 10.000       | 10.000       | 10.000       | 10.000       | 10.000       |
| <b>47.5</b>  | 7.000      | 7.000       | 7.000       | 7.000       | 7.000       | 7.000        | 7.000        | 7.000        | 7.000        | 7.000        |
| <b>50.0</b>  | 5.000      | 5.000       | 5.000       | 5.000       | 5.000       | 5.000        | 5.000        | 5.000        | 5.000        | 5.000        |
| <b>52.5</b>  | 4.000      | 4.000       | 4.000       | 4.000       | 4.000       | 4.000        | 4.000        | 4.000        | 4.000        | 4.000        |
| <b>55.0</b>  | 3.000      | 3.000       | 3.000       | 3.000       | 3.000       | 3.000        | 3.000        | 3.000        | 3.000        | 3.000        |
| <b>57.5</b>  | 2.000      | 2.000       | 2.000       | 2.000       | 2.000       | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        |
| <b>60.0</b>  | 2.000      | 2.000       | 2.000       | 2.000       | 2.000       | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        |
| <b>62.5</b>  | 1.000      | 1.000       | 1.000       | 1.000       | 1.000       | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| <b>65.0</b>  | 1.000      | 1.000       | 1.000       | 1.000       | 1.000       | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| <b>67.5</b>  | 1.000      | 1.000       | 1.000       | 1.000       | 1.000       | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| <b>70.0</b>  | 1.000      | 1.000       | 1.000       | 1.000       | 1.000       | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| <b>72.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>75.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>77.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>80.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>82.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>85.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>87.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>90.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>92.5</b>  | 0.042      | 0.042       | 0.042       | 0.042       | 0.042       | 0.042        | 0.042        | 0.042        | 0.042        | 0.042        |
| <b>95.0</b>  | 0.042      | 0.042       | 0.042       | 0.042       | 0.042       | 0.042        | 0.042        | 0.042        | 0.042        | 0.042        |
| <b>97.5</b>  | 0.084      | 0.084       | 0.084       | 0.084       | 0.084       | 0.084        | 0.084        | 0.084        | 0.084        | 0.084        |
| <b>100.0</b> | 0.125      | 0.125       | 0.125       | 0.125       | 0.125       | 0.125        | 0.125        | 0.125        | 0.125        | 0.125        |
| <b>102.5</b> | 0.167      | 0.167       | 0.167       | 0.167       | 0.167       | 0.167        | 0.167        | 0.167        | 0.167        | 0.167        |
| <b>105.0</b> | 0.251      | 0.251       | 0.251       | 0.251       | 0.251       | 0.251        | 0.251        | 0.251        | 0.251        | 0.251        |
| <b>107.5</b> | 0.376      | 0.376       | 0.376       | 0.376       | 0.376       | 0.376        | 0.376        | 0.376        | 0.376        | 0.376        |
| <b>110.0</b> | 0.502      | 0.502       | 0.502       | 0.502       | 0.502       | 0.502        | 0.502        | 0.502        | 0.502        | 0.502        |
| <b>112.5</b> | 0.669      | 0.669       | 0.669       | 0.669       | 0.669       | 0.669        | 0.669        | 0.669        | 0.669        | 0.669        |
| <b>115.0</b> | 0.920      | 0.920       | 0.920       | 0.920       | 0.920       | 0.920        | 0.920        | 0.920        | 0.920        | 0.920        |
| <b>117.5</b> | 1.296      | 1.296       | 1.296       | 1.296       | 1.296       | 1.296        | 1.296        | 1.296        | 1.296        | 1.296        |
| <b>120.0</b> | 1.756      | 1.756       | 1.756       | 1.756       | 1.756       | 1.756        | 1.756        | 1.756        | 1.756        | 1.756        |
| <b>122.5</b> | 2.508      | 2.508       | 2.508       | 2.508       | 2.508       | 2.508        | 2.508        | 2.508        | 2.508        | 2.508        |
| <b>125.0</b> | 3.762      | 3.762       | 3.762       | 3.762       | 3.762       | 3.762        | 3.762        | 3.762        | 3.762        | 3.762        |
| <b>127.5</b> | 5.518      | 5.518       | 5.518       | 5.518       | 5.518       | 5.518        | 5.518        | 5.518        | 5.518        | 5.518        |
| <b>130.0</b> | 8.235      | 8.235       | 8.235       | 8.235       | 8.235       | 8.235        | 8.235        | 8.235        | 8.235        | 8.235        |
| <b>132.5</b> | 11.411     | 11.411      | 11.411      | 11.411      | 11.411      | 11.411       | 11.411       | 11.411       | 11.411       | 11.411       |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_IES

## CANDELA TABULATION - (Cont.)

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   |
| 137.5 | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   |
| 140.0 | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   |
| 142.5 | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   |
| 145.0 | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   |
| 147.5 | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  |
| 150.0 | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  |
| 152.5 | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  |
| 155.0 | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  |
| 157.5 | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  |
| 160.0 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 |
| 162.5 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 |
| 165.0 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 |
| 167.5 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 |
| 170.0 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 |
| 172.5 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 |
| 175.0 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 |
| 177.5 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 |
| 180.0 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 |

## Vert. Angles

## Horizontal Angles

|      | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 20880.000    | 20880.000    | 20880.000    | 20880.000    | 20880.000    | 20880.000    | 20880.000    |
| 2.5  | 16270.000    | 16270.000    | 16270.000    | 16270.000    | 16270.000    | 16270.000    | 16270.000    |
| 5.0  | 7108.000     | 7108.000     | 7108.000     | 7108.000     | 7108.000     | 7108.000     | 7108.000     |
| 7.5  | 2980.000     | 2980.000     | 2980.000     | 2980.000     | 2980.000     | 2980.000     | 2980.000     |
| 10.0 | 1683.000     | 1683.000     | 1683.000     | 1683.000     | 1683.000     | 1683.000     | 1683.000     |
| 12.5 | 1188.000     | 1188.000     | 1188.000     | 1188.000     | 1188.000     | 1188.000     | 1188.000     |
| 15.0 | 936.000      | 936.000      | 936.000      | 936.000      | 936.000      | 936.000      | 936.000      |
| 17.5 | 798.000      | 798.000      | 798.000      | 798.000      | 798.000      | 798.000      | 798.000      |
| 20.0 | 726.000      | 726.000      | 726.000      | 726.000      | 726.000      | 726.000      | 726.000      |
| 22.5 | 686.000      | 686.000      | 686.000      | 686.000      | 686.000      | 686.000      | 686.000      |
| 25.0 | 618.000      | 618.000      | 618.000      | 618.000      | 618.000      | 618.000      | 618.000      |
| 27.5 | 358.000      | 358.000      | 358.000      | 358.000      | 358.000      | 358.000      | 358.000      |
| 30.0 | 90.000       | 90.000       | 90.000       | 90.000       | 90.000       | 90.000       | 90.000       |
| 32.5 | 31.000       | 31.000       | 31.000       | 31.000       | 31.000       | 31.000       | 31.000       |
| 35.0 | 23.000       | 23.000       | 23.000       | 23.000       | 23.000       | 23.000       | 23.000       |
| 37.5 | 19.000       | 19.000       | 19.000       | 19.000       | 19.000       | 19.000       | 19.000       |
| 40.0 | 15.000       | 15.000       | 15.000       | 15.000       | 15.000       | 15.000       | 15.000       |
| 42.5 | 12.000       | 12.000       | 12.000       | 12.000       | 12.000       | 12.000       | 12.000       |
| 45.0 | 10.000       | 10.000       | 10.000       | 10.000       | 10.000       | 10.000       | 10.000       |
| 47.5 | 7.000        | 7.000        | 7.000        | 7.000        | 7.000        | 7.000        | 7.000        |
| 50.0 | 5.000        | 5.000        | 5.000        | 5.000        | 5.000        | 5.000        | 5.000        |
| 52.5 | 4.000        | 4.000        | 4.000        | 4.000        | 4.000        | 4.000        | 4.000        |
| 55.0 | 3.000        | 3.000        | 3.000        | 3.000        | 3.000        | 3.000        | 3.000        |
| 57.5 | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        |
| 60.0 | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        | 2.000        |
| 62.5 | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| 65.0 | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| 67.5 | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| 70.0 | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        | 1.000        |
| 72.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 75.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 77.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 80.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

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|              |          |          |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|----------|----------|
| <b>82.5</b>  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>85.0</b>  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>87.5</b>  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>90.0</b>  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>92.5</b>  | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    |
| <b>95.0</b>  | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    | 0.042    |
| <b>97.5</b>  | 0.084    | 0.084    | 0.084    | 0.084    | 0.084    | 0.084    | 0.084    |
| <b>100.0</b> | 0.125    | 0.125    | 0.125    | 0.125    | 0.125    | 0.125    | 0.125    |
| <b>102.5</b> | 0.167    | 0.167    | 0.167    | 0.167    | 0.167    | 0.167    | 0.167    |
| <b>105.0</b> | 0.251    | 0.251    | 0.251    | 0.251    | 0.251    | 0.251    | 0.251    |
| <b>107.5</b> | 0.376    | 0.376    | 0.376    | 0.376    | 0.376    | 0.376    | 0.376    |
| <b>110.0</b> | 0.502    | 0.502    | 0.502    | 0.502    | 0.502    | 0.502    | 0.502    |
| <b>112.5</b> | 0.669    | 0.669    | 0.669    | 0.669    | 0.669    | 0.669    | 0.669    |
| <b>115.0</b> | 0.920    | 0.920    | 0.920    | 0.920    | 0.920    | 0.920    | 0.920    |
| <b>117.5</b> | 1.296    | 1.296    | 1.296    | 1.296    | 1.296    | 1.296    | 1.296    |
| <b>120.0</b> | 1.756    | 1.756    | 1.756    | 1.756    | 1.756    | 1.756    | 1.756    |
| <b>122.5</b> | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    |
| <b>125.0</b> | 3.762    | 3.762    | 3.762    | 3.762    | 3.762    | 3.762    | 3.762    |
| <b>127.5</b> | 5.518    | 5.518    | 5.518    | 5.518    | 5.518    | 5.518    | 5.518    |
| <b>130.0</b> | 8.235    | 8.235    | 8.235    | 8.235    | 8.235    | 8.235    | 8.235    |
| <b>132.5</b> | 11.411   | 11.411   | 11.411   | 11.411   | 11.411   | 11.411   | 11.411   |
| <b>135.0</b> | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   | 15.424   |
| <b>137.5</b> | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   | 19.939   |
| <b>140.0</b> | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   | 25.707   |
| <b>142.5</b> | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   | 34.485   |
| <b>145.0</b> | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   | 51.665   |
| <b>147.5</b> | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  | 105.545  |
| <b>150.0</b> | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  | 233.077  |
| <b>152.5</b> | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  | 442.662  |
| <b>155.0</b> | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  | 700.150  |
| <b>157.5</b> | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  | 944.680  |
| <b>160.0</b> | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 | 1157.024 |
| <b>162.5</b> | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 | 1349.304 |
| <b>165.0</b> | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 | 1542.420 |
| <b>167.5</b> | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 | 1745.986 |
| <b>170.0</b> | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 | 1952.478 |
| <b>172.5</b> | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 | 2120.932 |
| <b>175.0</b> | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 | 2220.834 |
| <b>177.5</b> | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 | 2255.110 |
| <b>180.0</b> | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 | 2259.000 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 848.04  | N.A.  | 40.10  |
| 0-30    | 1078.88 | N.A.  | 51.00  |
| 0-40    | 1097.91 | N.A.  | 51.90  |
| 0-60    | 1108.13 | N.A.  | 52.40  |
| 0-80    | 1109.38 | N.A.  | 52.50  |
| 0-90    | 1109.38 | N.A.  | 52.50  |
| 10-90   | 540.96  | N.A.  | 25.60  |
| 20-40   | 249.87  | N.A.  | 11.80  |
| 20-50   | 257.32  | N.A.  | 12.20  |
| 40-70   | 11.33   | N.A.  | 0.50   |
| 60-80   | 1.24    | N.A.  | 0.10   |
| 70-80   | 0.13    | N.A.  | 0.00   |
| 80-90   | 0.00    | N.A.  | 0.00   |
| 90-110  | 0.35    | N.A.  | 0.00   |
| 90-120  | 1.34    | N.A.  | 0.10   |
| 90-130  | 5.05    | N.A.  | 0.20   |
| 90-150  | 65.41   | N.A.  | 3.10   |
| 90-180  | 1005.16 | N.A.  | 47.50  |
| 110-180 | 1004.81 | N.A.  | 47.50  |
| 0-180   | 2114.54 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 568.42 |
| 10-20   | 279.62 |
| 20-30   | 230.83 |
| 30-40   | 19.04  |
| 40-50   | 7.45   |
| 50-60   | 2.77   |
| 60-70   | 1.11   |
| 70-80   | 0.13   |
| 80-90   | 0.00   |
| 90-100  | 0.06   |
| 100-110 | 0.29   |
| 110-120 | 0.99   |
| 120-130 | 3.71   |
| 130-140 | 12.16  |
| 140-150 | 48.20  |
| 150-160 | 309.04 |
| 160-170 | 427.37 |
| 170-180 | 203.35 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_.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  | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1  | 102 | 99  | 96  | 94  | 94  | 92  | 90  | 88  | 79 | 78 | 76 | 68 | 67 | 66 | 57 | 56 | 56 | 51 |
| 2  | 96  | 91  | 87  | 84  | 90  | 85  | 82  | 79  | 75 | 72 | 70 | 65 | 63 | 62 | 55 | 54 | 54 | 50 |
| 3  | 91  | 85  | 80  | 76  | 85  | 80  | 76  | 72  | 70 | 68 | 65 | 62 | 60 | 58 | 54 | 53 | 52 | 48 |
| 4  | 87  | 79  | 74  | 70  | 81  | 75  | 70  | 67  | 67 | 64 | 61 | 59 | 57 | 56 | 52 | 51 | 50 | 47 |
| 5  | 82  | 75  | 69  | 65  | 77  | 71  | 66  | 63  | 64 | 60 | 58 | 57 | 55 | 53 | 51 | 50 | 48 | 46 |
| 6  | 79  | 71  | 65  | 61  | 74  | 67  | 62  | 59  | 61 | 58 | 55 | 55 | 53 | 51 | 50 | 48 | 47 | 45 |
| 7  | 75  | 67  | 62  | 58  | 71  | 64  | 59  | 56  | 59 | 55 | 53 | 53 | 51 | 49 | 49 | 47 | 46 | 44 |
| 8  | 72  | 64  | 59  | 55  | 69  | 61  | 57  | 53  | 56 | 53 | 50 | 52 | 49 | 48 | 47 | 46 | 45 | 43 |
| 9  | 70  | 61  | 56  | 53  | 66  | 59  | 54  | 51  | 54 | 51 | 49 | 50 | 48 | 46 | 46 | 45 | 44 | 42 |
| 10 | 67  | 59  | 54  | 50  | 64  | 57  | 52  | 49  | 53 | 49 | 47 | 49 | 47 | 45 | 45 | 44 | 43 | 41 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_.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 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | 3H   | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|      | 4H   | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|      | 6H   | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|      | 8H   | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|      | 12H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |

### UGR Viewed Endwise

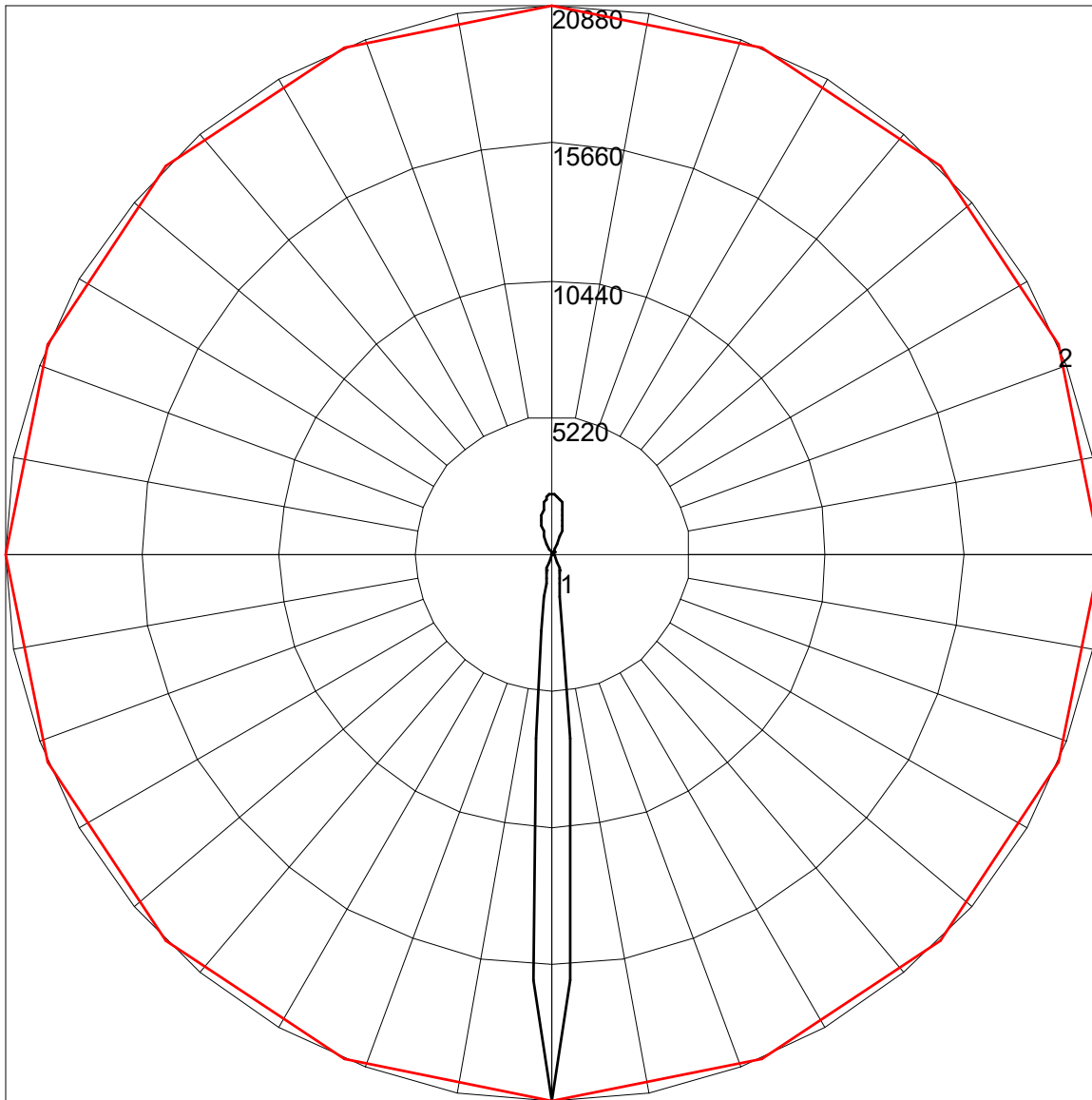
|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 3H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 4H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 6H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 8H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 12H | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 8H  | 4H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 6H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 8H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 12H | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 12H | 4H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 6H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|     | 8H  | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |

Maximum UGR = 2.8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-OS-CSD-WM\_.IES

POLAR GRAPH



Maximum Candela = 20880 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.)