



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13131414.06 and #13257153.08

[TESTLAB]

[ISSUE DATE] 18-DEC-2024

[MANUFAC] WILLIAMS INDOOR

[MORE] H E Williams Inc. - Carthage, MO

[LUMCAT] 4CRDI-xx-L12-835U-L12-835D-xxx-DIM1-UNV-OM-CSU-LN-WHD-WM

[MORE]

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

[MORE] narrow distrib white painted flush prismatic lens trim down

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

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2308               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 81                 |
| Total Luminaire Watts           | 28.5               |
| 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                  | 61470            | 61470             | 61470             |
| 55                  | 47408            | 47408             | 47408             |
| 65                  | 37181            | 37181             | 37181             |
| 75                  | 27892            | 27892             | 27892             |
| 85                  | 15218            | 15218             | 15218             |

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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>   | 4492.644   | 4492.644    | 4492.644    | 4492.644    | 4492.644    | 4492.644     | 4492.644     | 4492.644     | 4492.644     | 4492.644     |
| <b>2.5</b>   | 4327.414   | 4327.414    | 4327.414    | 4327.414    | 4327.414    | 4327.414     | 4327.414     | 4327.414     | 4327.414     | 4327.414     |
| <b>5.0</b>   | 3880.890   | 3880.890    | 3880.890    | 3880.890    | 3880.890    | 3880.890     | 3880.890     | 3880.890     | 3880.890     | 3880.890     |
| <b>7.5</b>   | 3224.000   | 3224.000    | 3224.000    | 3224.000    | 3224.000    | 3224.000     | 3224.000     | 3224.000     | 3224.000     | 3224.000     |
| <b>10.0</b>  | 2485.704   | 2485.704    | 2485.704    | 2485.704    | 2485.704    | 2485.704     | 2485.704     | 2485.704     | 2485.704     | 2485.704     |
| <b>12.5</b>  | 1801.410   | 1801.410    | 1801.410    | 1801.410    | 1801.410    | 1801.410     | 1801.410     | 1801.410     | 1801.410     | 1801.410     |
| <b>15.0</b>  | 1263.808   | 1263.808    | 1263.808    | 1263.808    | 1263.808    | 1263.808     | 1263.808     | 1263.808     | 1263.808     | 1263.808     |
| <b>17.5</b>  | 900.302    | 900.302     | 900.302     | 900.302     | 900.302     | 900.302      | 900.302      | 900.302      | 900.302      | 900.302      |
| <b>20.0</b>  | 678.813    | 678.813     | 678.813     | 678.813     | 678.813     | 678.813      | 678.813      | 678.813      | 678.813      | 678.813      |
| <b>22.5</b>  | 541.793    | 541.793     | 541.793     | 541.793     | 541.793     | 541.793      | 541.793      | 541.793      | 541.793      | 541.793      |
| <b>25.0</b>  | 440.882    | 440.882     | 440.882     | 440.882     | 440.882     | 440.882      | 440.882      | 440.882      | 440.882      | 440.882      |
| <b>27.5</b>  | 358.186    | 358.186     | 358.186     | 358.186     | 358.186     | 358.186      | 358.186      | 358.186      | 358.186      | 358.186      |
| <b>30.0</b>  | 295.721    | 295.721     | 295.721     | 295.721     | 295.721     | 295.721      | 295.721      | 295.721      | 295.721      | 295.721      |
| <b>32.5</b>  | 252.520    | 252.520     | 252.520     | 252.520     | 252.520     | 252.520      | 252.520      | 252.520      | 252.520      | 252.520      |
| <b>35.0</b>  | 221.731    | 221.731     | 221.731     | 221.731     | 221.731     | 221.731      | 221.731      | 221.731      | 221.731      | 221.731      |
| <b>37.5</b>  | 197.631    | 197.631     | 197.631     | 197.631     | 197.631     | 197.631      | 197.631      | 197.631      | 197.631      | 197.631      |
| <b>40.0</b>  | 175.950    | 175.950     | 175.950     | 175.950     | 175.950     | 175.950      | 175.950      | 175.950      | 175.950      | 175.950      |
| <b>42.5</b>  | 155.558    | 155.558     | 155.558     | 155.558     | 155.558     | 155.558      | 155.558      | 155.558      | 155.558      | 155.558      |
| <b>45.0</b>  | 137.342    | 137.342     | 137.342     | 137.342     | 137.342     | 137.342      | 137.342      | 137.342      | 137.342      | 137.342      |
| <b>47.5</b>  | 121.545    | 121.545     | 121.545     | 121.545     | 121.545     | 121.545      | 121.545      | 121.545      | 121.545      | 121.545      |
| <b>50.0</b>  | 107.843    | 107.843     | 107.843     | 107.843     | 107.843     | 107.843      | 107.843      | 107.843      | 107.843      | 107.843      |
| <b>52.5</b>  | 96.236     | 96.236      | 96.236      | 96.236      | 96.236      | 96.236       | 96.236       | 96.236       | 96.236       | 96.236       |
| <b>55.0</b>  | 85.920     | 85.920      | 85.920      | 85.920      | 85.920      | 85.920       | 85.920       | 85.920       | 85.920       | 85.920       |
| <b>57.5</b>  | 76.167     | 76.167      | 76.167      | 76.167      | 76.167      | 76.167       | 76.167       | 76.167       | 76.167       | 76.167       |
| <b>60.0</b>  | 66.898     | 66.898      | 66.898      | 66.898      | 66.898      | 66.898       | 66.898       | 66.898       | 66.898       | 66.898       |
| <b>62.5</b>  | 58.032     | 58.032      | 58.032      | 58.032      | 58.032      | 58.032       | 58.032       | 58.032       | 58.032       | 58.032       |
| <b>65.0</b>  | 49.650     | 49.650      | 49.650      | 49.650      | 49.650      | 49.650       | 49.650       | 49.650       | 49.650       | 49.650       |
| <b>67.5</b>  | 41.993     | 41.993      | 41.993      | 41.993      | 41.993      | 41.993       | 41.993       | 41.993       | 41.993       | 41.993       |
| <b>70.0</b>  | 34.980     | 34.980      | 34.980      | 34.980      | 34.980      | 34.980       | 34.980       | 34.980       | 34.980       | 34.980       |
| <b>72.5</b>  | 28.613     | 28.613      | 28.613      | 28.613      | 28.613      | 28.613       | 28.613       | 28.613       | 28.613       | 28.613       |
| <b>75.0</b>  | 22.810     | 22.810      | 22.810      | 22.810      | 22.810      | 22.810       | 22.810       | 22.810       | 22.810       | 22.810       |
| <b>77.5</b>  | 17.490     | 17.490      | 17.490      | 17.490      | 17.490      | 17.490       | 17.490       | 17.490       | 17.490       | 17.490       |
| <b>80.0</b>  | 12.654     | 12.654      | 12.654      | 12.654      | 12.654      | 12.654       | 12.654       | 12.654       | 12.654       | 12.654       |
| <b>82.5</b>  | 8.221      | 8.221       | 8.221       | 8.221       | 8.221       | 8.221        | 8.221        | 8.221        | 8.221        | 8.221        |
| <b>85.0</b>  | 4.191      | 4.191       | 4.191       | 4.191       | 4.191       | 4.191        | 4.191        | 4.191        | 4.191        | 4.191        |
| <b>87.5</b>  | 0.806      | 0.806       | 0.806       | 0.806       | 0.806       | 0.806        | 0.806        | 0.806        | 0.806        | 0.806        |
| <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       |

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**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. 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  | 4492.644     | 4492.644     | 4492.644     | 4492.644     | 4492.644     | 4492.644     | 4492.644     |
| 2.5  | 4327.414     | 4327.414     | 4327.414     | 4327.414     | 4327.414     | 4327.414     | 4327.414     |
| 5.0  | 3880.890     | 3880.890     | 3880.890     | 3880.890     | 3880.890     | 3880.890     | 3880.890     |
| 7.5  | 3224.000     | 3224.000     | 3224.000     | 3224.000     | 3224.000     | 3224.000     | 3224.000     |
| 10.0 | 2485.704     | 2485.704     | 2485.704     | 2485.704     | 2485.704     | 2485.704     | 2485.704     |
| 12.5 | 1801.410     | 1801.410     | 1801.410     | 1801.410     | 1801.410     | 1801.410     | 1801.410     |
| 15.0 | 1263.808     | 1263.808     | 1263.808     | 1263.808     | 1263.808     | 1263.808     | 1263.808     |
| 17.5 | 900.302      | 900.302      | 900.302      | 900.302      | 900.302      | 900.302      | 900.302      |
| 20.0 | 678.813      | 678.813      | 678.813      | 678.813      | 678.813      | 678.813      | 678.813      |
| 22.5 | 541.793      | 541.793      | 541.793      | 541.793      | 541.793      | 541.793      | 541.793      |
| 25.0 | 440.882      | 440.882      | 440.882      | 440.882      | 440.882      | 440.882      | 440.882      |
| 27.5 | 358.186      | 358.186      | 358.186      | 358.186      | 358.186      | 358.186      | 358.186      |
| 30.0 | 295.721      | 295.721      | 295.721      | 295.721      | 295.721      | 295.721      | 295.721      |
| 32.5 | 252.520      | 252.520      | 252.520      | 252.520      | 252.520      | 252.520      | 252.520      |
| 35.0 | 221.731      | 221.731      | 221.731      | 221.731      | 221.731      | 221.731      | 221.731      |
| 37.5 | 197.631      | 197.631      | 197.631      | 197.631      | 197.631      | 197.631      | 197.631      |
| 40.0 | 175.950      | 175.950      | 175.950      | 175.950      | 175.950      | 175.950      | 175.950      |
| 42.5 | 155.558      | 155.558      | 155.558      | 155.558      | 155.558      | 155.558      | 155.558      |
| 45.0 | 137.342      | 137.342      | 137.342      | 137.342      | 137.342      | 137.342      | 137.342      |
| 47.5 | 121.545      | 121.545      | 121.545      | 121.545      | 121.545      | 121.545      | 121.545      |
| 50.0 | 107.843      | 107.843      | 107.843      | 107.843      | 107.843      | 107.843      | 107.843      |
| 52.5 | 96.236       | 96.236       | 96.236       | 96.236       | 96.236       | 96.236       | 96.236       |
| 55.0 | 85.920       | 85.920       | 85.920       | 85.920       | 85.920       | 85.920       | 85.920       |
| 57.5 | 76.167       | 76.167       | 76.167       | 76.167       | 76.167       | 76.167       | 76.167       |
| 60.0 | 66.898       | 66.898       | 66.898       | 66.898       | 66.898       | 66.898       | 66.898       |
| 62.5 | 58.032       | 58.032       | 58.032       | 58.032       | 58.032       | 58.032       | 58.032       |
| 65.0 | 49.650       | 49.650       | 49.650       | 49.650       | 49.650       | 49.650       | 49.650       |
| 67.5 | 41.993       | 41.993       | 41.993       | 41.993       | 41.993       | 41.993       | 41.993       |
| 70.0 | 34.980       | 34.980       | 34.980       | 34.980       | 34.980       | 34.980       | 34.980       |
| 72.5 | 28.613       | 28.613       | 28.613       | 28.613       | 28.613       | 28.613       | 28.613       |
| 75.0 | 22.810       | 22.810       | 22.810       | 22.810       | 22.810       | 22.810       | 22.810       |
| 77.5 | 17.490       | 17.490       | 17.490       | 17.490       | 17.490       | 17.490       | 17.490       |
| 80.0 | 12.654       | 12.654       | 12.654       | 12.654       | 12.654       | 12.654       | 12.654       |

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|              |          |          |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|----------|----------|
| <b>82.5</b>  | 8.221    | 8.221    | 8.221    | 8.221    | 8.221    | 8.221    | 8.221    |
| <b>85.0</b>  | 4.191    | 4.191    | 4.191    | 4.191    | 4.191    | 4.191    | 4.191    |
| <b>87.5</b>  | 0.806    | 0.806    | 0.806    | 0.806    | 0.806    | 0.806    | 0.806    |
| <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-XX-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-LN-WHD-WM\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 692.11  | N.A.  | 30.00  |
| 0-30    | 898.55  | N.A.  | 38.90  |
| 0-40    | 1039.68 | N.A.  | 45.00  |
| 0-60    | 1223.87 | N.A.  | 53.00  |
| 0-80    | 1297.89 | N.A.  | 56.20  |
| 0-90    | 1303.2  | N.A.  | 56.50  |
| 10-90   | 978.17  | N.A.  | 42.40  |
| 20-40   | 347.57  | N.A.  | 15.10  |
| 20-50   | 454.57  | N.A.  | 19.70  |
| 40-70   | 233.76  | N.A.  | 10.10  |
| 60-80   | 74.02   | N.A.  | 3.20   |
| 70-80   | 24.44   | N.A.  | 1.10   |
| 80-90   | 5.31    | N.A.  | 0.20   |
| 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.  | 2.80   |
| 90-180  | 1005.16 | N.A.  | 43.50  |
| 110-180 | 1004.81 | N.A.  | 43.50  |
| 0-180   | 2308.36 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 325.03 |
| 10-20   | 367.08 |
| 20-30   | 206.44 |
| 30-40   | 141.14 |
| 40-50   | 106.99 |
| 50-60   | 77.19  |
| 60-70   | 49.58  |
| 70-80   | 24.44  |
| 80-90   | 5.31   |
| 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-XX-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-LN-WHD-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  | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 |
| 1  | 102 | 98  | 95  | 92  | 95  | 92  | 89  | 87  | 80 | 78 | 76 | 69 | 67 | 66 | 58 | 58 | 57 | 52 |
| 2  | 95  | 89  | 84  | 80  | 88  | 83  | 79  | 76  | 73 | 70 | 68 | 64 | 62 | 60 | 55 | 53 | 52 | 48 |
| 3  | 89  | 81  | 75  | 71  | 83  | 76  | 71  | 67  | 68 | 64 | 61 | 59 | 57 | 54 | 52 | 50 | 48 | 45 |
| 4  | 83  | 74  | 68  | 63  | 78  | 70  | 65  | 61  | 63 | 59 | 55 | 56 | 53 | 50 | 49 | 47 | 45 | 42 |
| 5  | 78  | 69  | 62  | 57  | 73  | 65  | 60  | 55  | 59 | 54 | 51 | 52 | 49 | 46 | 46 | 44 | 42 | 40 |
| 6  | 74  | 64  | 57  | 53  | 69  | 61  | 55  | 51  | 55 | 50 | 47 | 49 | 46 | 43 | 44 | 42 | 40 | 37 |
| 7  | 70  | 60  | 53  | 49  | 66  | 57  | 51  | 47  | 52 | 47 | 44 | 47 | 43 | 41 | 42 | 40 | 38 | 36 |
| 8  | 66  | 56  | 50  | 45  | 62  | 54  | 48  | 44  | 49 | 44 | 41 | 45 | 41 | 39 | 40 | 38 | 36 | 34 |
| 9  | 63  | 53  | 47  | 43  | 59  | 51  | 45  | 41  | 46 | 42 | 39 | 43 | 39 | 37 | 39 | 36 | 34 | 33 |
| 10 | 60  | 50  | 44  | 40  | 57  | 48  | 43  | 39  | 44 | 40 | 37 | 41 | 37 | 35 | 37 | 35 | 33 | 31 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-XX-L12-835U-L12-835D-XXX-DIM1-UNV-OM-CSU-LN-WHD-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 | 18.0 | 18.7 | 18.9 | 19.7 | 20.8 | 18.0 | 18.7 | 18.9 | 19.7 | 20.8 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 19.2 | 19.9 | 20.2 | 20.8 | 22.0 | 19.2 | 19.9 | 20.2 | 20.8 | 22.0 |
|      | 4H   | 19.6 | 20.3 | 20.6 | 21.2 | 22.4 | 19.6 | 20.3 | 20.6 | 21.2 | 22.4 |
|      | 6H   | 19.9 | 20.5 | 20.8 | 21.4 | 22.6 | 19.9 | 20.5 | 20.8 | 21.4 | 22.6 |
|      | 8H   | 19.9 | 20.5 | 20.9 | 21.4 | 22.7 | 19.9 | 20.5 | 20.9 | 21.4 | 22.7 |
|      | 12H  | 19.9 | 20.5 | 20.9 | 21.4 | 22.7 | 19.9 | 20.5 | 20.9 | 21.4 | 22.7 |

### UGR Viewed Endwise

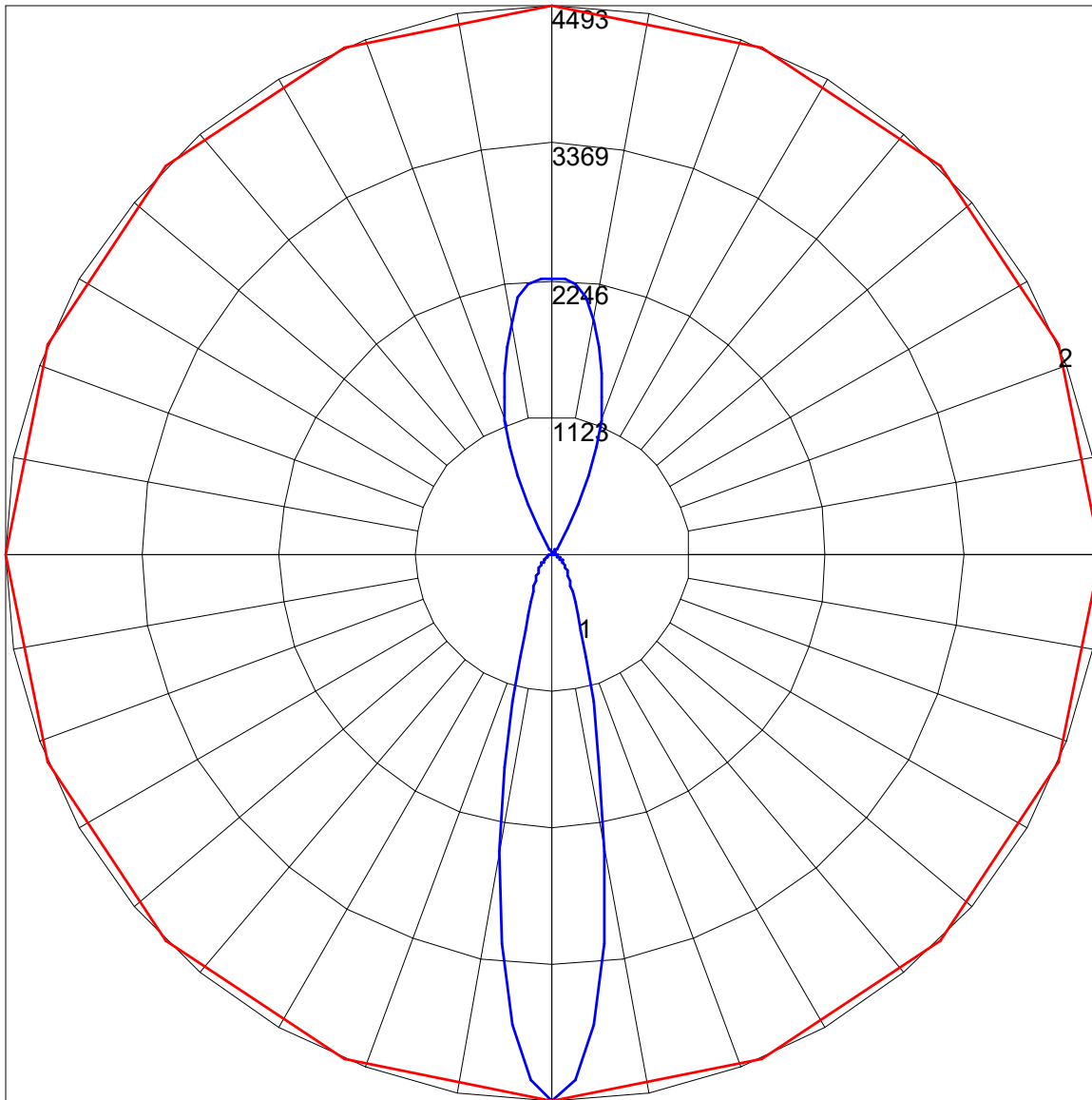
|     |     |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H  | 2H  | 18.3 | 19.0 | 19.3 | 19.9 | 21.1 | 18.3 | 19.0 | 19.3 | 19.9 | 21.1 |
|     | 3H  | 19.8 | 20.3 | 20.7 | 21.3 | 22.5 | 19.8 | 20.3 | 20.7 | 21.3 | 22.5 |
|     | 4H  | 20.3 | 20.8 | 21.3 | 21.7 | 23.0 | 20.3 | 20.8 | 21.3 | 21.7 | 23.0 |
|     | 6H  | 20.6 | 21.1 | 21.6 | 22.0 | 23.3 | 20.6 | 21.1 | 21.6 | 22.0 | 23.3 |
|     | 8H  | 20.7 | 21.1 | 21.7 | 22.1 | 23.4 | 20.7 | 21.1 | 21.7 | 22.1 | 23.4 |
|     | 12H | 20.8 | 21.1 | 21.8 | 22.1 | 23.4 | 20.8 | 21.1 | 21.8 | 22.1 | 23.4 |
| 8H  | 4H  | 20.4 | 20.8 | 21.4 | 21.8 | 23.0 | 20.4 | 20.8 | 21.4 | 21.8 | 23.0 |
|     | 6H  | 20.9 | 21.2 | 21.9 | 22.2 | 23.5 | 20.9 | 21.2 | 21.9 | 22.2 | 23.5 |
|     | 8H  | 21.0 | 21.3 | 22.0 | 22.3 | 23.6 | 21.0 | 21.3 | 22.0 | 22.3 | 23.6 |
|     | 12H | 21.1 | 21.3 | 22.1 | 22.3 | 23.7 | 21.1 | 21.3 | 22.1 | 22.3 | 23.7 |
| 12H | 4H  | 20.4 | 20.7 | 21.4 | 21.7 | 23.0 | 20.4 | 20.7 | 21.4 | 21.7 | 23.0 |
|     | 6H  | 20.9 | 21.2 | 21.9 | 22.2 | 23.5 | 20.9 | 21.2 | 21.9 | 22.2 | 23.5 |
|     | 8H  | 21.0 | 21.3 | 22.1 | 22.3 | 23.6 | 21.0 | 21.3 | 22.1 | 22.3 | 23.6 |

Maximum UGR = 23.7

# IES INDOOR REPORT

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

## POLAR GRAPH



Maximum Candela = 4492.644 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.)