



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN from UL #13537338.10 and #13131414.06  
 [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-LW-CSU-OM-CSD-WM  
 [MORE]  
 [LUMINAIRE] White formed aluminum housing, wide distrib white painted flush prismatic lens trim up,  
 [MORE] medium distrib anodized alum open reflector 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                | 2622               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 92                 |
| 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 w/ Sides  |
| Luminous Length (0-180)         | 0.31 ft (Diameter) |
| Luminous Width (90-270)         | 0.31 ft (Diameter) |
| Luminous Height                 | 1.44 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 544              | 544               | 544               |
| 55                  | 120              | 120               | 120               |
| 65                  | 27               | 27                | 27                |
| 75                  | 7                | 7                 | 7                 |
| 85                  | 1                | 1                 | 1                 |

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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>   | 2761.955   | 2761.955    | 2761.955    | 2761.955    | 2761.955    | 2761.955     | 2761.955     | 2761.955     | 2761.955     | 2761.955     |
| <b>2.5</b>   | 2756.845   | 2756.845    | 2756.845    | 2756.845    | 2756.845    | 2756.845     | 2756.845     | 2756.845     | 2756.845     | 2756.845     |
| <b>5.0</b>   | 2714.943   | 2714.943    | 2714.943    | 2714.943    | 2714.943    | 2714.943     | 2714.943     | 2714.943     | 2714.943     | 2714.943     |
| <b>7.5</b>   | 2592.814   | 2592.814    | 2592.814    | 2592.814    | 2592.814    | 2592.814     | 2592.814     | 2592.814     | 2592.814     | 2592.814     |
| <b>10.0</b>  | 2386.881   | 2386.881    | 2386.881    | 2386.881    | 2386.881    | 2386.881     | 2386.881     | 2386.881     | 2386.881     | 2386.881     |
| <b>12.5</b>  | 2134.447   | 2134.447    | 2134.447    | 2134.447    | 2134.447    | 2134.447     | 2134.447     | 2134.447     | 2134.447     | 2134.447     |
| <b>15.0</b>  | 1885.590   | 1885.590    | 1885.590    | 1885.590    | 1885.590    | 1885.590     | 1885.590     | 1885.590     | 1885.590     | 1885.590     |
| <b>17.5</b>  | 1649.508   | 1649.508    | 1649.508    | 1649.508    | 1649.508    | 1649.508     | 1649.508     | 1649.508     | 1649.508     | 1649.508     |
| <b>20.0</b>  | 1414.448   | 1414.448    | 1414.448    | 1414.448    | 1414.448    | 1414.448     | 1414.448     | 1414.448     | 1414.448     | 1414.448     |
| <b>22.5</b>  | 1154.860   | 1154.860    | 1154.860    | 1154.860    | 1154.860    | 1154.860     | 1154.860     | 1154.860     | 1154.860     | 1154.860     |
| <b>25.0</b>  | 855.925    | 855.925     | 855.925     | 855.925     | 855.925     | 855.925      | 855.925      | 855.925      | 855.925      | 855.925      |
| <b>27.5</b>  | 541.149    | 541.149     | 541.149     | 541.149     | 541.149     | 541.149      | 541.149      | 541.149      | 541.149      | 541.149      |
| <b>30.0</b>  | 284.934    | 284.934     | 284.934     | 284.934     | 284.934     | 284.934      | 284.934      | 284.934      | 284.934      | 284.934      |
| <b>32.5</b>  | 129.027    | 129.027     | 129.027     | 129.027     | 129.027     | 129.027      | 129.027      | 129.027      | 129.027      | 129.027      |
| <b>35.0</b>  | 63.160     | 63.160      | 63.160      | 63.160      | 63.160      | 63.160       | 63.160       | 63.160       | 63.160       | 63.160       |
| <b>37.5</b>  | 42.157     | 42.157      | 42.157      | 42.157      | 42.157      | 42.157       | 42.157       | 42.157       | 42.157       | 42.157       |
| <b>40.0</b>  | 31.426     | 31.426      | 31.426      | 31.426      | 31.426      | 31.426       | 31.426       | 31.426       | 31.426       | 31.426       |
| <b>42.5</b>  | 24.375     | 24.375      | 24.375      | 24.375      | 24.375      | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       |
| <b>45.0</b>  | 18.856     | 18.856      | 18.856      | 18.856      | 18.856      | 18.856       | 18.856       | 18.856       | 18.856       | 18.856       |
| <b>47.5</b>  | 13.950     | 13.950      | 13.950      | 13.950      | 13.950      | 13.950       | 13.950       | 13.950       | 13.950       | 13.950       |
| <b>50.0</b>  | 10.067     | 10.067      | 10.067      | 10.067      | 10.067      | 10.067       | 10.067       | 10.067       | 10.067       | 10.067       |
| <b>52.5</b>  | 6.745      | 6.745       | 6.745       | 6.745       | 6.745       | 6.745        | 6.745        | 6.745        | 6.745        | 6.745        |
| <b>55.0</b>  | 4.599      | 4.599       | 4.599       | 4.599       | 4.599       | 4.599        | 4.599        | 4.599        | 4.599        | 4.599        |
| <b>57.5</b>  | 3.066      | 3.066       | 3.066       | 3.066       | 3.066       | 3.066        | 3.066        | 3.066        | 3.066        | 3.066        |
| <b>60.0</b>  | 2.146      | 2.146       | 2.146       | 2.146       | 2.146       | 2.146        | 2.146        | 2.146        | 2.146        | 2.146        |
| <b>62.5</b>  | 1.584      | 1.584       | 1.584       | 1.584       | 1.584       | 1.584        | 1.584        | 1.584        | 1.584        | 1.584        |
| <b>65.0</b>  | 1.124      | 1.124       | 1.124       | 1.124       | 1.124       | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        |
| <b>67.5</b>  | 0.818      | 0.818       | 0.818       | 0.818       | 0.818       | 0.818        | 0.818        | 0.818        | 0.818        | 0.818        |
| <b>70.0</b>  | 0.613      | 0.613       | 0.613       | 0.613       | 0.613       | 0.613        | 0.613        | 0.613        | 0.613        | 0.613        |
| <b>72.5</b>  | 0.460      | 0.460       | 0.460       | 0.460       | 0.460       | 0.460        | 0.460        | 0.460        | 0.460        | 0.460        |
| <b>75.0</b>  | 0.307      | 0.307       | 0.307       | 0.307       | 0.307       | 0.307        | 0.307        | 0.307        | 0.307        | 0.307        |
| <b>77.5</b>  | 0.204      | 0.204       | 0.204       | 0.204       | 0.204       | 0.204        | 0.204        | 0.204        | 0.204        | 0.204        |
| <b>80.0</b>  | 0.153      | 0.153       | 0.153       | 0.153       | 0.153       | 0.153        | 0.153        | 0.153        | 0.153        | 0.153        |
| <b>82.5</b>  | 0.102      | 0.102       | 0.102       | 0.102       | 0.102       | 0.102        | 0.102        | 0.102        | 0.102        | 0.102        |
| <b>85.0</b>  | 0.051      | 0.051       | 0.051       | 0.051       | 0.051       | 0.051        | 0.051        | 0.051        | 0.051        | 0.051        |
| <b>87.5</b>  | 0.051      | 0.051       | 0.051       | 0.051       | 0.051       | 0.051        | 0.051        | 0.051        | 0.051        | 0.051        |
| <b>90.0</b>  | 2.395      | 2.395       | 2.395       | 2.395       | 2.395       | 2.395        | 2.395        | 2.395        | 2.395        | 2.395        |
| <b>92.5</b>  | 2.824      | 2.824       | 2.824       | 2.824       | 2.824       | 2.824        | 2.824        | 2.824        | 2.824        | 2.824        |
| <b>95.0</b>  | 4.789      | 4.789       | 4.789       | 4.789       | 4.789       | 4.789        | 4.789        | 4.789        | 4.789        | 4.789        |
| <b>97.5</b>  | 7.798      | 7.798       | 7.798       | 7.798       | 7.798       | 7.798        | 7.798        | 7.798        | 7.798        | 7.798        |
| <b>100.0</b> | 11.850     | 11.850      | 11.850      | 11.850      | 11.850      | 11.850       | 11.850       | 11.850       | 11.850       | 11.850       |
| <b>102.5</b> | 16.332     | 16.332      | 16.332      | 16.332      | 16.332      | 16.332       | 16.332       | 16.332       | 16.332       | 16.332       |
| <b>105.0</b> | 21.244     | 21.244      | 21.244      | 21.244      | 21.244      | 21.244       | 21.244       | 21.244       | 21.244       | 21.244       |
| <b>107.5</b> | 26.525     | 26.525      | 26.525      | 26.525      | 26.525      | 26.525       | 26.525       | 26.525       | 26.525       | 26.525       |
| <b>110.0</b> | 32.296     | 32.296      | 32.296      | 32.296      | 32.296      | 32.296       | 32.296       | 32.296       | 32.296       | 32.296       |
| <b>112.5</b> | 38.498     | 38.498      | 38.498      | 38.498      | 38.498      | 38.498       | 38.498       | 38.498       | 38.498       | 38.498       |
| <b>115.0</b> | 45.129     | 45.129      | 45.129      | 45.129      | 45.129      | 45.129       | 45.129       | 45.129       | 45.129       | 45.129       |
| <b>117.5</b> | 52.129     | 52.129      | 52.129      | 52.129      | 52.129      | 52.129       | 52.129       | 52.129       | 52.129       | 52.129       |
| <b>120.0</b> | 59.128     | 59.128      | 59.128      | 59.128      | 59.128      | 59.128       | 59.128       | 59.128       | 59.128       | 59.128       |
| <b>122.5</b> | 65.882     | 65.882      | 65.882      | 65.882      | 65.882      | 65.882       | 65.882       | 65.882       | 65.882       | 65.882       |
| <b>125.0</b> | 72.145     | 72.145      | 72.145      | 72.145      | 72.145      | 72.145       | 72.145       | 72.145       | 72.145       | 72.145       |
| <b>127.5</b> | 78.285     | 78.285      | 78.285      | 78.285      | 78.285      | 78.285       | 78.285       | 78.285       | 78.285       | 78.285       |
| <b>130.0</b> | 84.978     | 84.978      | 84.978      | 84.978      | 84.978      | 84.978       | 84.978       | 84.978       | 84.978       | 84.978       |
| <b>132.5</b> | 93.267     | 93.267      | 93.267      | 93.267      | 93.267      | 93.267       | 93.267       | 93.267       | 93.267       | 93.267       |

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**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  |
| 137.5 | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  |
| 140.0 | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  |
| 142.5 | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  |
| 145.0 | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  |
| 147.5 | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  |
| 150.0 | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  |
| 152.5 | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  |
| 155.0 | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  |
| 157.5 | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  |
| 160.0 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 |
| 162.5 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 |
| 165.0 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 |
| 167.5 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 |
| 170.0 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 |
| 172.5 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 |
| 175.0 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 |
| 177.5 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 |
| 180.0 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 |

**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  | 2761.955     | 2761.955     | 2761.955     | 2761.955     | 2761.955     | 2761.955     | 2761.955     |
| 2.5  | 2756.845     | 2756.845     | 2756.845     | 2756.845     | 2756.845     | 2756.845     | 2756.845     |
| 5.0  | 2714.943     | 2714.943     | 2714.943     | 2714.943     | 2714.943     | 2714.943     | 2714.943     |
| 7.5  | 2592.814     | 2592.814     | 2592.814     | 2592.814     | 2592.814     | 2592.814     | 2592.814     |
| 10.0 | 2386.881     | 2386.881     | 2386.881     | 2386.881     | 2386.881     | 2386.881     | 2386.881     |
| 12.5 | 2134.447     | 2134.447     | 2134.447     | 2134.447     | 2134.447     | 2134.447     | 2134.447     |
| 15.0 | 1885.590     | 1885.590     | 1885.590     | 1885.590     | 1885.590     | 1885.590     | 1885.590     |
| 17.5 | 1649.508     | 1649.508     | 1649.508     | 1649.508     | 1649.508     | 1649.508     | 1649.508     |
| 20.0 | 1414.448     | 1414.448     | 1414.448     | 1414.448     | 1414.448     | 1414.448     | 1414.448     |
| 22.5 | 1154.860     | 1154.860     | 1154.860     | 1154.860     | 1154.860     | 1154.860     | 1154.860     |
| 25.0 | 855.925      | 855.925      | 855.925      | 855.925      | 855.925      | 855.925      | 855.925      |
| 27.5 | 541.149      | 541.149      | 541.149      | 541.149      | 541.149      | 541.149      | 541.149      |
| 30.0 | 284.934      | 284.934      | 284.934      | 284.934      | 284.934      | 284.934      | 284.934      |
| 32.5 | 129.027      | 129.027      | 129.027      | 129.027      | 129.027      | 129.027      | 129.027      |
| 35.0 | 63.160       | 63.160       | 63.160       | 63.160       | 63.160       | 63.160       | 63.160       |
| 37.5 | 42.157       | 42.157       | 42.157       | 42.157       | 42.157       | 42.157       | 42.157       |
| 40.0 | 31.426       | 31.426       | 31.426       | 31.426       | 31.426       | 31.426       | 31.426       |
| 42.5 | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       |
| 45.0 | 18.856       | 18.856       | 18.856       | 18.856       | 18.856       | 18.856       | 18.856       |
| 47.5 | 13.950       | 13.950       | 13.950       | 13.950       | 13.950       | 13.950       | 13.950       |
| 50.0 | 10.067       | 10.067       | 10.067       | 10.067       | 10.067       | 10.067       | 10.067       |
| 52.5 | 6.745        | 6.745        | 6.745        | 6.745        | 6.745        | 6.745        | 6.745        |
| 55.0 | 4.599        | 4.599        | 4.599        | 4.599        | 4.599        | 4.599        | 4.599        |
| 57.5 | 3.066        | 3.066        | 3.066        | 3.066        | 3.066        | 3.066        | 3.066        |
| 60.0 | 2.146        | 2.146        | 2.146        | 2.146        | 2.146        | 2.146        | 2.146        |
| 62.5 | 1.584        | 1.584        | 1.584        | 1.584        | 1.584        | 1.584        | 1.584        |
| 65.0 | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        |
| 67.5 | 0.818        | 0.818        | 0.818        | 0.818        | 0.818        | 0.818        | 0.818        |
| 70.0 | 0.613        | 0.613        | 0.613        | 0.613        | 0.613        | 0.613        | 0.613        |
| 72.5 | 0.460        | 0.460        | 0.460        | 0.460        | 0.460        | 0.460        | 0.460        |
| 75.0 | 0.307        | 0.307        | 0.307        | 0.307        | 0.307        | 0.307        | 0.307        |
| 77.5 | 0.204        | 0.204        | 0.204        | 0.204        | 0.204        | 0.204        | 0.204        |
| 80.0 | 0.153        | 0.153        | 0.153        | 0.153        | 0.153        | 0.153        | 0.153        |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CRDI-XX-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OM-CSD-WM\_.IES****CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5  | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    |
| 85.0  | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    |
| 87.5  | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    |
| 90.0  | 2.395    | 2.395    | 2.395    | 2.395    | 2.395    | 2.395    | 2.395    |
| 92.5  | 2.824    | 2.824    | 2.824    | 2.824    | 2.824    | 2.824    | 2.824    |
| 95.0  | 4.789    | 4.789    | 4.789    | 4.789    | 4.789    | 4.789    | 4.789    |
| 97.5  | 7.798    | 7.798    | 7.798    | 7.798    | 7.798    | 7.798    | 7.798    |
| 100.0 | 11.850   | 11.850   | 11.850   | 11.850   | 11.850   | 11.850   | 11.850   |
| 102.5 | 16.332   | 16.332   | 16.332   | 16.332   | 16.332   | 16.332   | 16.332   |
| 105.0 | 21.244   | 21.244   | 21.244   | 21.244   | 21.244   | 21.244   | 21.244   |
| 107.5 | 26.525   | 26.525   | 26.525   | 26.525   | 26.525   | 26.525   | 26.525   |
| 110.0 | 32.296   | 32.296   | 32.296   | 32.296   | 32.296   | 32.296   | 32.296   |
| 112.5 | 38.498   | 38.498   | 38.498   | 38.498   | 38.498   | 38.498   | 38.498   |
| 115.0 | 45.129   | 45.129   | 45.129   | 45.129   | 45.129   | 45.129   | 45.129   |
| 117.5 | 52.129   | 52.129   | 52.129   | 52.129   | 52.129   | 52.129   | 52.129   |
| 120.0 | 59.128   | 59.128   | 59.128   | 59.128   | 59.128   | 59.128   | 59.128   |
| 122.5 | 65.882   | 65.882   | 65.882   | 65.882   | 65.882   | 65.882   | 65.882   |
| 125.0 | 72.145   | 72.145   | 72.145   | 72.145   | 72.145   | 72.145   | 72.145   |
| 127.5 | 78.285   | 78.285   | 78.285   | 78.285   | 78.285   | 78.285   | 78.285   |
| 130.0 | 84.978   | 84.978   | 84.978   | 84.978   | 84.978   | 84.978   | 84.978   |
| 132.5 | 93.267   | 93.267   | 93.267   | 93.267   | 93.267   | 93.267   | 93.267   |
| 135.0 | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  | 104.564  |
| 137.5 | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  | 120.160  |
| 140.0 | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  | 141.957  |
| 142.5 | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  | 173.087  |
| 145.0 | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  | 217.417  |
| 147.5 | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  | 282.194  |
| 150.0 | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  | 381.908  |
| 152.5 | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  | 528.286  |
| 155.0 | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  | 728.818  |
| 157.5 | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  | 979.330  |
| 160.0 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 | 1254.402 |
| 162.5 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 | 1523.334 |
| 165.0 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 | 1762.794 |
| 167.5 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 | 1956.204 |
| 170.0 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 | 2094.968 |
| 172.5 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 | 2183.998 |
| 175.0 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 | 2230.662 |
| 177.5 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 | 2246.012 |
| 180.0 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 | 2249.000 |

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

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 771.04  | N.A.  | 29.40  |
| 0-30    | 1148.84 | N.A.  | 43.80  |
| 0-40    | 1207.76 | N.A.  | 46.10  |
| 0-60    | 1227.16 | N.A.  | 46.80  |
| 0-80    | 1228.72 | N.A.  | 46.90  |
| 0-90    | 1229.13 | N.A.  | 46.90  |
| 10-90   | 980.54  | N.A.  | 37.40  |
| 20-40   | 436.72  | N.A.  | 16.70  |
| 20-50   | 451.58  | N.A.  | 17.20  |
| 40-70   | 20.61   | N.A.  | 0.80   |
| 60-80   | 1.56    | N.A.  | 0.10   |
| 70-80   | 0.36    | N.A.  | 0.00   |
| 80-90   | 0.40    | N.A.  | 0.00   |
| 90-110  | 28.85   | N.A.  | 1.10   |
| 90-120  | 73.71   | N.A.  | 2.80   |
| 90-130  | 138.17  | N.A.  | 5.30   |
| 90-150  | 365.06  | N.A.  | 13.90  |
| 90-180  | 1393.12 | N.A.  | 53.10  |
| 110-180 | 1364.28 | N.A.  | 52.00  |
| 0-180   | 2622.25 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 248.59 |
| 10-20   | 522.45 |
| 20-30   | 377.80 |
| 30-40   | 58.92  |
| 40-50   | 14.86  |
| 50-60   | 4.54   |
| 60-70   | 1.21   |
| 70-80   | 0.36   |
| 80-90   | 0.40   |
| 90-100  | 6.13   |
| 100-110 | 22.71  |
| 110-120 | 44.86  |
| 120-130 | 64.46  |
| 130-140 | 82.95  |
| 140-150 | 143.95 |
| 150-160 | 341.48 |
| 160-170 | 477.91 |
| 170-180 | 208.67 |

# IES INDOOR REPORT

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

## 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 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1        | 100 | 96  | 94  | 91  | 92 | 89 | 87 | 85 | 75 | 74 | 72 | 63 | 62 | 61 | 51 | 51 | 50 | 45 |
| 2        | 93  | 88  | 83  | 80  | 86 | 82 | 78 | 75 | 70 | 67 | 65 | 59 | 57 | 56 | 49 | 48 | 47 | 43 |
| 3        | 88  | 81  | 75  | 71  | 81 | 75 | 71 | 67 | 65 | 62 | 59 | 56 | 54 | 52 | 47 | 46 | 45 | 41 |
| 4        | 82  | 74  | 68  | 64  | 77 | 70 | 65 | 61 | 61 | 57 | 54 | 53 | 50 | 48 | 45 | 43 | 42 | 39 |
| 5        | 78  | 69  | 63  | 58  | 72 | 65 | 60 | 56 | 57 | 53 | 50 | 50 | 47 | 45 | 43 | 41 | 40 | 37 |
| 6        | 73  | 64  | 58  | 54  | 68 | 61 | 55 | 51 | 54 | 50 | 47 | 47 | 45 | 42 | 41 | 40 | 38 | 36 |
| 7        | 69  | 60  | 54  | 50  | 65 | 57 | 51 | 48 | 51 | 47 | 44 | 45 | 42 | 40 | 40 | 38 | 36 | 34 |
| 8        | 66  | 56  | 50  | 46  | 62 | 53 | 48 | 44 | 48 | 44 | 41 | 43 | 40 | 38 | 38 | 36 | 35 | 33 |
| 9        | 63  | 53  | 47  | 43  | 59 | 50 | 45 | 42 | 46 | 42 | 39 | 41 | 38 | 36 | 37 | 35 | 33 | 31 |
| 10       | 60  | 50  | 44  | 41  | 56 | 48 | 43 | 39 | 43 | 39 | 37 | 39 | 36 | 34 | 35 | 33 | 32 | 30 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-XX-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OM-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 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | UGR Viewed Endwise |     |     |     |     |
|------|------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
|      | 3H   | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|      | 4H   | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|      | 6H   | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|      | 8H   | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |
|      | 12H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4                | 3.4 | 3.4 | 3.4 | 3.4 |

|    |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 3H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 4H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 6H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 8H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 12H | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

|    |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8H | 4H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 6H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 8H  | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|    | 12H | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

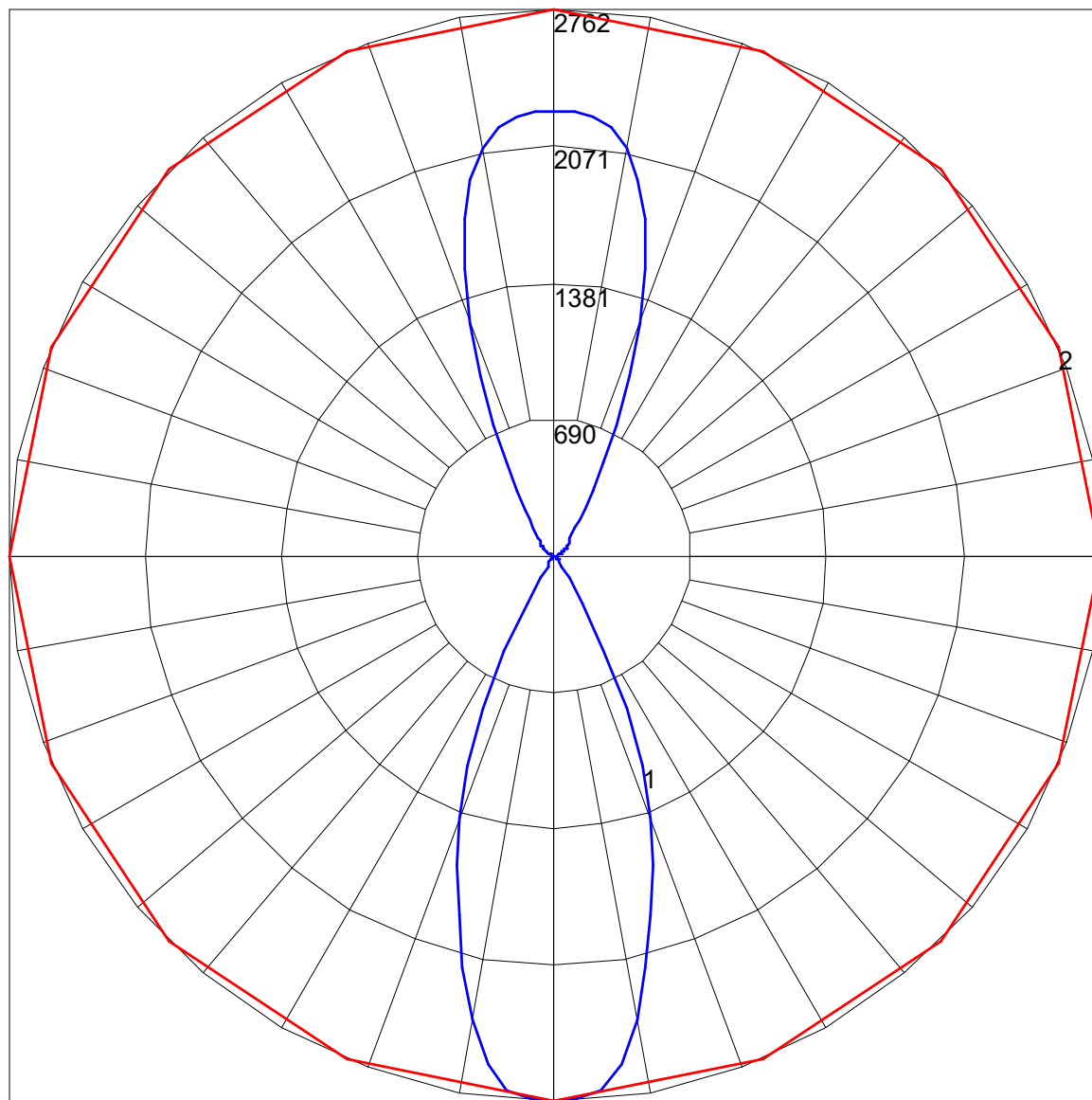
|     |    |     |     |     |     |     |     |     |     |     |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 12H | 4H | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|     | 6H | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
|     | 8H | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

Maximum UGR = 3.4

# IES INDOOR REPORT

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## POLAR GRAPH



Maximum Candela = 2761.955 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.)