



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13131414.09 and #13131414.01

[TESTLAB]

[ISSUE DATE] 12-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE]

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

[MORE] wide 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                | 2097               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 74                 |
| Total Luminaire Watts           | 28.5               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Semi-Direct        |
| Spacing Criterion (0-180)       | 1.16               |
| Spacing Criterion (90-270)      | 1.16               |
| Spacing Criterion (Diagonal)    | 1.04               |
| 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                  | 34375            | 34375             | 34375             |
| 55                  | 9784             | 9784              | 9784              |
| 65                  | 4439             | 4439              | 4439              |
| 75                  | 1374             | 1374              | 1374              |
| 85                  | 370              | 370               | 370               |

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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>   | 1027.621   | 1027.621    | 1027.621    | 1027.621    | 1027.621    | 1027.621     | 1027.621     | 1027.621     | 1027.621     | 1027.621     |
| <b>2.5</b>   | 1029.154   | 1029.154    | 1029.154    | 1029.154    | 1029.154    | 1029.154     | 1029.154     | 1029.154     | 1029.154     | 1029.154     |
| <b>5.0</b>   | 1038.863   | 1038.863    | 1038.863    | 1038.863    | 1038.863    | 1038.863     | 1038.863     | 1038.863     | 1038.863     | 1038.863     |
| <b>7.5</b>   | 1057.770   | 1057.770    | 1057.770    | 1057.770    | 1057.770    | 1057.770     | 1057.770     | 1057.770     | 1057.770     | 1057.770     |
| <b>10.0</b>  | 1073.100   | 1073.100    | 1073.100    | 1073.100    | 1073.100    | 1073.100     | 1073.100     | 1073.100     | 1073.100     | 1073.100     |
| <b>12.5</b>  | 1075.144   | 1075.144    | 1075.144    | 1075.144    | 1075.144    | 1075.144     | 1075.144     | 1075.144     | 1075.144     | 1075.144     |
| <b>15.0</b>  | 1066.457   | 1066.457    | 1066.457    | 1066.457    | 1066.457    | 1066.457     | 1066.457     | 1066.457     | 1066.457     | 1066.457     |
| <b>17.5</b>  | 1056.748   | 1056.748    | 1056.748    | 1056.748    | 1056.748    | 1056.748     | 1056.748     | 1056.748     | 1056.748     | 1056.748     |
| <b>20.0</b>  | 1042.440   | 1042.440    | 1042.440    | 1042.440    | 1042.440    | 1042.440     | 1042.440     | 1042.440     | 1042.440     | 1042.440     |
| <b>22.5</b>  | 1004.626   | 1004.626    | 1004.626    | 1004.626    | 1004.626    | 1004.626     | 1004.626     | 1004.626     | 1004.626     | 1004.626     |
| <b>25.0</b>  | 949.949    | 949.949     | 949.949     | 949.949     | 949.949     | 949.949      | 949.949      | 949.949      | 949.949      | 949.949      |
| <b>27.5</b>  | 870.233    | 870.233     | 870.233     | 870.233     | 870.233     | 870.233      | 870.233      | 870.233      | 870.233      | 870.233      |
| <b>30.0</b>  | 774.676    | 774.676     | 774.676     | 774.676     | 774.676     | 774.676      | 774.676      | 774.676      | 774.676      | 774.676      |
| <b>32.5</b>  | 669.921    | 669.921     | 669.921     | 669.921     | 669.921     | 669.921      | 669.921      | 669.921      | 669.921      | 669.921      |
| <b>35.0</b>  | 556.479    | 556.479     | 556.479     | 556.479     | 556.479     | 556.479      | 556.479      | 556.479      | 556.479      | 556.479      |
| <b>37.5</b>  | 421.268    | 421.268     | 421.268     | 421.268     | 421.268     | 421.268      | 421.268      | 421.268      | 421.268      | 421.268      |
| <b>40.0</b>  | 266.589    | 266.589     | 266.589     | 266.589     | 266.589     | 266.589      | 266.589      | 266.589      | 266.589      | 266.589      |
| <b>42.5</b>  | 146.555    | 146.555     | 146.555     | 146.555     | 146.555     | 146.555      | 146.555      | 146.555      | 146.555      | 146.555      |
| <b>45.0</b>  | 76.803     | 76.803      | 76.803      | 76.803      | 76.803      | 76.803       | 76.803       | 76.803       | 76.803       | 76.803       |
| <b>47.5</b>  | 47.830     | 47.830      | 47.830      | 47.830      | 47.830      | 47.830       | 47.830       | 47.830       | 47.830       | 47.830       |
| <b>50.0</b>  | 33.419     | 33.419      | 33.419      | 33.419      | 33.419      | 33.419       | 33.419       | 33.419       | 33.419       | 33.419       |
| <b>52.5</b>  | 24.375     | 24.375      | 24.375      | 24.375      | 24.375      | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       |
| <b>55.0</b>  | 17.732     | 17.732      | 17.732      | 17.732      | 17.732      | 17.732       | 17.732       | 17.732       | 17.732       | 17.732       |
| <b>57.5</b>  | 13.439     | 13.439      | 13.439      | 13.439      | 13.439      | 13.439       | 13.439       | 13.439       | 13.439       | 13.439       |
| <b>60.0</b>  | 10.475     | 10.475      | 10.475      | 10.475      | 10.475      | 10.475       | 10.475       | 10.475       | 10.475       | 10.475       |
| <b>62.5</b>  | 8.023      | 8.023       | 8.023       | 8.023       | 8.023       | 8.023        | 8.023        | 8.023        | 8.023        | 8.023        |
| <b>65.0</b>  | 5.928      | 5.928       | 5.928       | 5.928       | 5.928       | 5.928        | 5.928        | 5.928        | 5.928        | 5.928        |
| <b>67.5</b>  | 4.139      | 4.139       | 4.139       | 4.139       | 4.139       | 4.139        | 4.139        | 4.139        | 4.139        | 4.139        |
| <b>70.0</b>  | 2.759      | 2.759       | 2.759       | 2.759       | 2.759       | 2.759        | 2.759        | 2.759        | 2.759        | 2.759        |
| <b>72.5</b>  | 1.788      | 1.788       | 1.788       | 1.788       | 1.788       | 1.788        | 1.788        | 1.788        | 1.788        | 1.788        |
| <b>75.0</b>  | 1.124      | 1.124       | 1.124       | 1.124       | 1.124       | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        |
| <b>77.5</b>  | 0.664      | 0.664       | 0.664       | 0.664       | 0.664       | 0.664        | 0.664        | 0.664        | 0.664        | 0.664        |
| <b>80.0</b>  | 0.409      | 0.409       | 0.409       | 0.409       | 0.409       | 0.409        | 0.409        | 0.409        | 0.409        | 0.409        |
| <b>82.5</b>  | 0.204      | 0.204       | 0.204       | 0.204       | 0.204       | 0.204        | 0.204        | 0.204        | 0.204        | 0.204        |
| <b>85.0</b>  | 0.102      | 0.102       | 0.102       | 0.102       | 0.102       | 0.102        | 0.102        | 0.102        | 0.102        | 0.102        |
| <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>  | 1.254      | 1.254       | 1.254       | 1.254       | 1.254       | 1.254        | 1.254        | 1.254        | 1.254        | 1.254        |
| <b>92.5</b>  | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>95.0</b>  | 1.254      | 1.254       | 1.254       | 1.254       | 1.254       | 1.254        | 1.254        | 1.254        | 1.254        | 1.254        |
| <b>97.5</b>  | 1.254      | 1.254       | 1.254       | 1.254       | 1.254       | 1.254        | 1.254        | 1.254        | 1.254        | 1.254        |
| <b>100.0</b> | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>102.5</b> | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>105.0</b> | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>107.5</b> | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>110.0</b> | 1.672      | 1.672       | 1.672       | 1.672       | 1.672       | 1.672        | 1.672        | 1.672        | 1.672        | 1.672        |
| <b>112.5</b> | 2.090      | 2.090       | 2.090       | 2.090       | 2.090       | 2.090        | 2.090        | 2.090        | 2.090        | 2.090        |
| <b>115.0</b> | 2.090      | 2.090       | 2.090       | 2.090       | 2.090       | 2.090        | 2.090        | 2.090        | 2.090        | 2.090        |
| <b>117.5</b> | 2.090      | 2.090       | 2.090       | 2.090       | 2.090       | 2.090        | 2.090        | 2.090        | 2.090        | 2.090        |
| <b>120.0</b> | 2.508      | 2.508       | 2.508       | 2.508       | 2.508       | 2.508        | 2.508        | 2.508        | 2.508        | 2.508        |
| <b>122.5</b> | 2.926      | 2.926       | 2.926       | 2.926       | 2.926       | 2.926        | 2.926        | 2.926        | 2.926        | 2.926        |
| <b>125.0</b> | 3.344      | 3.344       | 3.344       | 3.344       | 3.344       | 3.344        | 3.344        | 3.344        | 3.344        | 3.344        |
| <b>127.5</b> | 4.180      | 4.180       | 4.180       | 4.180       | 4.180       | 4.180        | 4.180        | 4.180        | 4.180        | 4.180        |
| <b>130.0</b> | 5.016      | 5.016       | 5.016       | 5.016       | 5.016       | 5.016        | 5.016        | 5.016        | 5.016        | 5.016        |
| <b>132.5</b> | 6.270      | 6.270       | 6.270       | 6.270       | 6.270       | 6.270        | 6.270        | 6.270        | 6.270        | 6.270        |

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## CANDELA TABULATION - (Cont.)

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    |
| 137.5 | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   |
| 140.0 | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   |
| 142.5 | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   |
| 145.0 | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   |
| 147.5 | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   |
| 150.0 | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  |
| 152.5 | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  |
| 155.0 | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  |
| 157.5 | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  |
| 160.0 | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  |
| 162.5 | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  |
| 165.0 | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  |
| 167.5 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 |
| 170.0 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 |
| 172.5 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 |
| 175.0 | 4129.007 | 4129.007 | 4129.007 | 4129.007 | 4129.007 | 4129.006 | 4129.006 | 4129.006 | 4129.006 | 4129.006 |
| 177.5 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 |
| 180.0 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 |

## 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  | 1027.621     | 1027.621     | 1027.621     | 1027.621     | 1027.621     | 1027.621     | 1027.621     |
| 2.5  | 1029.154     | 1029.154     | 1029.154     | 1029.154     | 1029.154     | 1029.154     | 1029.154     |
| 5.0  | 1038.863     | 1038.863     | 1038.863     | 1038.863     | 1038.863     | 1038.863     | 1038.863     |
| 7.5  | 1057.770     | 1057.770     | 1057.770     | 1057.770     | 1057.770     | 1057.770     | 1057.770     |
| 10.0 | 1073.100     | 1073.100     | 1073.100     | 1073.100     | 1073.100     | 1073.100     | 1073.100     |
| 12.5 | 1075.144     | 1075.144     | 1075.144     | 1075.144     | 1075.144     | 1075.144     | 1075.144     |
| 15.0 | 1066.457     | 1066.457     | 1066.457     | 1066.457     | 1066.457     | 1066.457     | 1066.457     |
| 17.5 | 1056.748     | 1056.748     | 1056.748     | 1056.748     | 1056.748     | 1056.748     | 1056.748     |
| 20.0 | 1042.440     | 1042.440     | 1042.440     | 1042.440     | 1042.440     | 1042.440     | 1042.440     |
| 22.5 | 1004.626     | 1004.626     | 1004.626     | 1004.626     | 1004.626     | 1004.626     | 1004.626     |
| 25.0 | 949.949      | 949.949      | 949.949      | 949.949      | 949.949      | 949.949      | 949.949      |
| 27.5 | 870.233      | 870.233      | 870.233      | 870.233      | 870.233      | 870.233      | 870.233      |
| 30.0 | 774.676      | 774.676      | 774.676      | 774.676      | 774.676      | 774.676      | 774.676      |
| 32.5 | 669.921      | 669.921      | 669.921      | 669.921      | 669.921      | 669.921      | 669.921      |
| 35.0 | 556.479      | 556.479      | 556.479      | 556.479      | 556.479      | 556.479      | 556.479      |
| 37.5 | 421.268      | 421.268      | 421.268      | 421.268      | 421.268      | 421.268      | 421.268      |
| 40.0 | 266.589      | 266.589      | 266.589      | 266.589      | 266.589      | 266.589      | 266.589      |
| 42.5 | 146.555      | 146.555      | 146.555      | 146.555      | 146.555      | 146.555      | 146.555      |
| 45.0 | 76.803       | 76.803       | 76.803       | 76.803       | 76.803       | 76.803       | 76.803       |
| 47.5 | 47.830       | 47.830       | 47.830       | 47.830       | 47.830       | 47.830       | 47.830       |
| 50.0 | 33.419       | 33.419       | 33.419       | 33.419       | 33.419       | 33.419       | 33.419       |
| 52.5 | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       | 24.375       |
| 55.0 | 17.732       | 17.732       | 17.732       | 17.732       | 17.732       | 17.732       | 17.732       |
| 57.5 | 13.439       | 13.439       | 13.439       | 13.439       | 13.439       | 13.439       | 13.439       |
| 60.0 | 10.475       | 10.475       | 10.475       | 10.475       | 10.475       | 10.475       | 10.475       |
| 62.5 | 8.023        | 8.023        | 8.023        | 8.023        | 8.023        | 8.023        | 8.023        |
| 65.0 | 5.928        | 5.928        | 5.928        | 5.928        | 5.928        | 5.928        | 5.928        |
| 67.5 | 4.139        | 4.139        | 4.139        | 4.139        | 4.139        | 4.139        | 4.139        |
| 70.0 | 2.759        | 2.759        | 2.759        | 2.759        | 2.759        | 2.759        | 2.759        |
| 72.5 | 1.788        | 1.788        | 1.788        | 1.788        | 1.788        | 1.788        | 1.788        |
| 75.0 | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        | 1.124        |
| 77.5 | 0.664        | 0.664        | 0.664        | 0.664        | 0.664        | 0.664        | 0.664        |
| 80.0 | 0.409        | 0.409        | 0.409        | 0.409        | 0.409        | 0.409        | 0.409        |

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|              |          |          |          |          |          |          |          |
|--------------|----------|----------|----------|----------|----------|----------|----------|
| <b>82.5</b>  | 0.204    | 0.204    | 0.204    | 0.204    | 0.204    | 0.204    | 0.204    |
| <b>85.0</b>  | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    | 0.102    |
| <b>87.5</b>  | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    | 0.051    |
| <b>90.0</b>  | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    |
| <b>92.5</b>  | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>95.0</b>  | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    |
| <b>97.5</b>  | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    | 1.254    |
| <b>100.0</b> | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>102.5</b> | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>105.0</b> | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>107.5</b> | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>110.0</b> | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    | 1.672    |
| <b>112.5</b> | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    |
| <b>115.0</b> | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    |
| <b>117.5</b> | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    | 2.090    |
| <b>120.0</b> | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    | 2.508    |
| <b>122.5</b> | 2.926    | 2.926    | 2.926    | 2.926    | 2.926    | 2.926    | 2.926    |
| <b>125.0</b> | 3.344    | 3.344    | 3.344    | 3.344    | 3.344    | 3.344    | 3.344    |
| <b>127.5</b> | 4.180    | 4.180    | 4.180    | 4.180    | 4.180    | 4.180    | 4.180    |
| <b>130.0</b> | 5.016    | 5.016    | 5.016    | 5.016    | 5.016    | 5.016    | 5.016    |
| <b>132.5</b> | 6.270    | 6.270    | 6.270    | 6.270    | 6.270    | 6.270    | 6.270    |
| <b>135.0</b> | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    | 7.942    |
| <b>137.5</b> | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   | 10.450   |
| <b>140.0</b> | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   | 12.958   |
| <b>142.5</b> | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   | 16.302   |
| <b>145.0</b> | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   | 25.498   |
| <b>147.5</b> | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   | 61.028   |
| <b>150.0</b> | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  | 139.612  |
| <b>152.5</b> | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  | 256.652  |
| <b>155.0</b> | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  | 387.068  |
| <b>157.5</b> | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  | 509.124  |
| <b>160.0</b> | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  | 621.566  |
| <b>162.5</b> | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  | 760.342  |
| <b>165.0</b> | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  | 977.284  |
| <b>167.5</b> | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 | 1348.886 |
| <b>170.0</b> | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 | 1991.352 |
| <b>172.5</b> | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 | 2977.417 |
| <b>175.0</b> | 4129.006 | 4129.006 | 4129.007 | 4129.007 | 4129.007 | 4129.007 | 4129.007 |
| <b>177.5</b> | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 | 5049.441 |
| <b>180.0</b> | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 | 5404.000 |

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

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 401.55  | N.A.  | 19.20  |
| 0-30    | 829.93  | N.A.  | 39.60  |
| 0-40    | 1164.3  | N.A.  | 55.50  |
| 0-60    | 1260.71 | N.A.  | 60.10  |
| 0-80    | 1268.15 | N.A.  | 60.50  |
| 0-90    | 1268.47 | N.A.  | 60.50  |
| 10-90   | 1168.06 | N.A.  | 55.70  |
| 20-40   | 762.75  | N.A.  | 36.40  |
| 20-50   | 841.98  | N.A.  | 40.20  |
| 40-70   | 102.49  | N.A.  | 4.90   |
| 60-80   | 7.44    | N.A.  | 0.40   |
| 70-80   | 1.36    | N.A.  | 0.10   |
| 80-90   | 0.32    | N.A.  | 0.00   |
| 90-110  | 3.31    | N.A.  | 0.20   |
| 90-120  | 5.38    | N.A.  | 0.30   |
| 90-130  | 8.55    | N.A.  | 0.40   |
| 90-150  | 41.73   | N.A.  | 2.00   |
| 90-180  | 828.34  | N.A.  | 39.50  |
| 110-180 | 825.03  | N.A.  | 39.30  |
| 0-180   | 2096.81 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 100.41 |
| 10-20   | 301.14 |
| 20-30   | 428.38 |
| 30-40   | 334.37 |
| 40-50   | 79.22  |
| 50-60   | 17.19  |
| 60-70   | 6.08   |
| 70-80   | 1.36   |
| 80-90   | 0.32   |
| 90-100  | 1.54   |
| 100-110 | 1.77   |
| 110-120 | 2.07   |
| 120-130 | 3.17   |
| 130-140 | 6.43   |
| 140-150 | 26.75  |
| 150-160 | 170.79 |
| 160-170 | 292.64 |
| 170-180 | 323.18 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-ON-CSU-OW-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  | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 60 |
| 1  | 103 | 99  | 96  | 94  | 96  | 93  | 91  | 89  | 82 | 80 | 79 | 72 | 71 | 69 | 62 | 61 | 61 | 56 |
| 2  | 96  | 90  | 86  | 82  | 90  | 85  | 81  | 78  | 76 | 73 | 70 | 67 | 65 | 63 | 58 | 57 | 56 | 52 |
| 3  | 90  | 82  | 77  | 72  | 84  | 78  | 73  | 69  | 70 | 66 | 63 | 62 | 59 | 57 | 55 | 53 | 51 | 48 |
| 4  | 84  | 75  | 69  | 64  | 79  | 72  | 66  | 62  | 64 | 60 | 57 | 58 | 55 | 52 | 51 | 49 | 47 | 44 |
| 5  | 79  | 69  | 63  | 58  | 74  | 66  | 60  | 56  | 60 | 55 | 52 | 54 | 50 | 48 | 48 | 46 | 44 | 41 |
| 6  | 74  | 64  | 57  | 52  | 70  | 61  | 55  | 50  | 55 | 51 | 47 | 50 | 46 | 44 | 45 | 43 | 40 | 38 |
| 7  | 69  | 59  | 52  | 48  | 65  | 56  | 50  | 46  | 51 | 47 | 43 | 47 | 43 | 40 | 42 | 40 | 37 | 35 |
| 8  | 65  | 55  | 48  | 43  | 62  | 52  | 46  | 42  | 48 | 43 | 40 | 44 | 40 | 37 | 40 | 37 | 35 | 33 |
| 9  | 61  | 51  | 44  | 40  | 58  | 49  | 43  | 39  | 45 | 40 | 37 | 41 | 37 | 35 | 38 | 35 | 32 | 31 |
| 10 | 58  | 47  | 41  | 37  | 55  | 45  | 40  | 36  | 42 | 37 | 34 | 39 | 35 | 32 | 35 | 32 | 30 | 29 |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-ON-CSU-OW-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 | 6.3 | 7.0 | 7.3 | 7.9 | 9.1 | 6.3 | 7.0 | 7.3 | 7.9 | 9.1 |
|      | 3H   | 6.6 | 7.2 | 7.5 | 8.1 | 9.3 | 6.6 | 7.2 | 7.5 | 8.1 | 9.3 |
|      | 4H   | 6.5 | 7.1 | 7.5 | 8.0 | 9.2 | 6.5 | 7.1 | 7.5 | 8.0 | 9.2 |
|      | 6H   | 6.5 | 7.0 | 7.4 | 7.9 | 9.1 | 6.5 | 7.0 | 7.4 | 7.9 | 9.1 |
|      | 8H   | 6.4 | 6.9 | 7.3 | 7.8 | 9.0 | 6.4 | 6.9 | 7.3 | 7.8 | 9.0 |
|      | 12H  | 6.3 | 6.8 | 7.3 | 7.7 | 8.9 | 6.3 | 6.8 | 7.3 | 7.7 | 8.9 |

### UGR Viewed Endwise

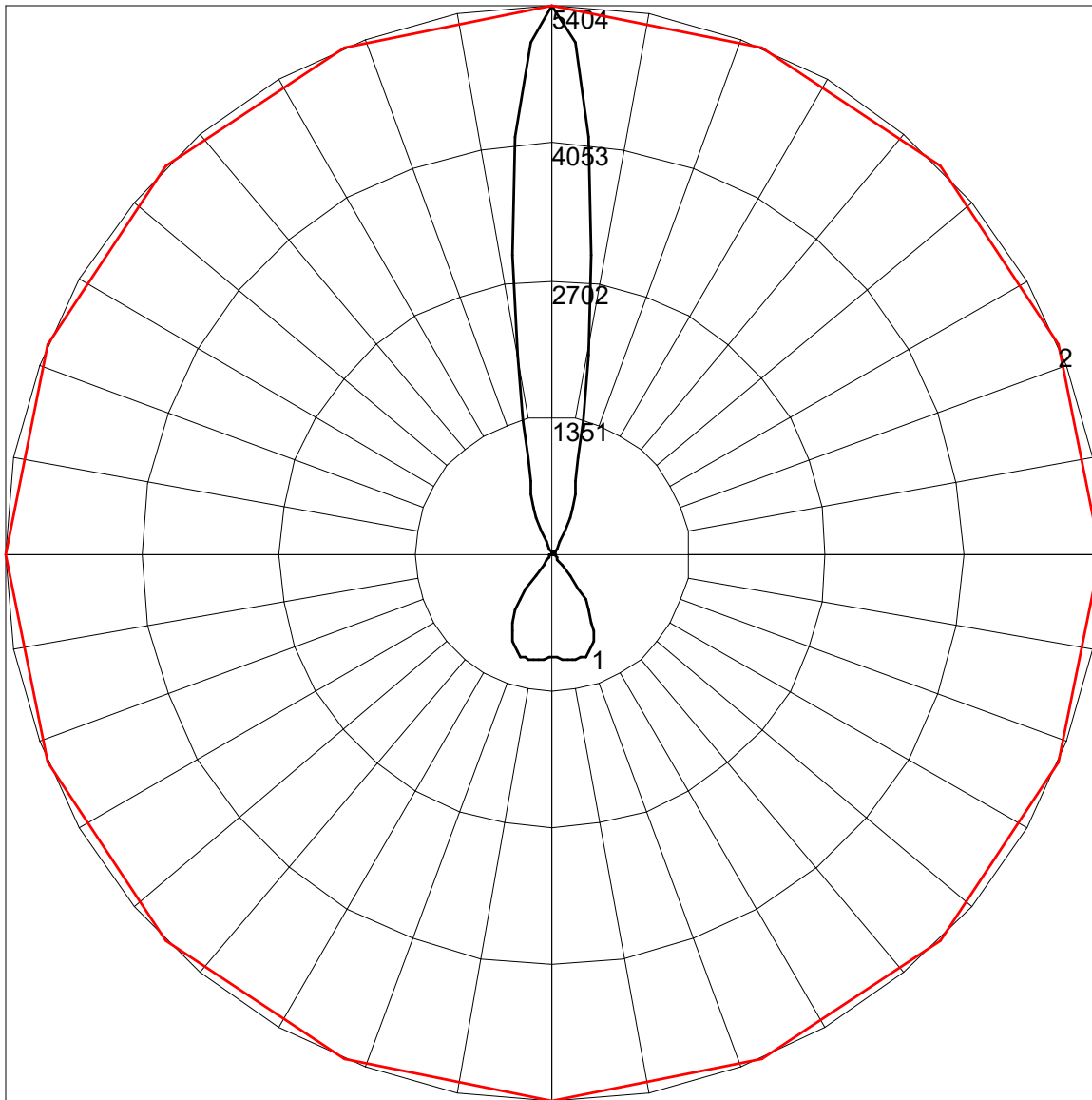
|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 6.4 | 6.9 | 7.3 | 7.8 | 9.0 | 6.4 | 6.9 | 7.3 | 7.8 | 9.0 |
|     | 3H  | 6.7 | 7.1 | 7.6 | 8.1 | 9.3 | 6.7 | 7.1 | 7.6 | 8.1 | 9.3 |
|     | 4H  | 6.6 | 7.1 | 7.6 | 8.0 | 9.2 | 6.6 | 7.1 | 7.6 | 8.0 | 9.2 |
|     | 6H  | 6.6 | 6.9 | 7.5 | 7.9 | 9.1 | 6.6 | 6.9 | 7.5 | 7.9 | 9.1 |
|     | 8H  | 6.5 | 6.8 | 7.5 | 7.8 | 9.0 | 6.5 | 6.8 | 7.5 | 7.8 | 9.0 |
|     | 12H | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 |
| 8H  | 4H  | 6.5 | 6.8 | 7.5 | 7.8 | 9.0 | 6.5 | 6.8 | 7.5 | 7.8 | 9.0 |
|     | 6H  | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 |
|     | 8H  | 6.4 | 6.6 | 7.4 | 7.6 | 8.8 | 6.4 | 6.6 | 7.4 | 7.6 | 8.8 |
|     | 12H | 6.3 | 6.5 | 7.3 | 7.5 | 8.8 | 6.3 | 6.5 | 7.3 | 7.5 | 8.8 |
| 12H | 4H  | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 | 6.4 | 6.7 | 7.4 | 7.7 | 8.9 |
|     | 6H  | 6.4 | 6.6 | 7.4 | 7.6 | 8.8 | 6.4 | 6.6 | 7.4 | 7.6 | 8.8 |
|     | 8H  | 6.3 | 6.5 | 7.3 | 7.5 | 8.8 | 6.3 | 6.5 | 7.3 | 7.5 | 8.8 |

Maximum UGR = 9.3

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 5404 Located At Horizontal Angle = 0, Vertical Angle = 180

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

# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)