



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OS-CSD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.10 and #13255206.01

[TESTLAB]

[ISSUE DATE] 10-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE]

[LUMINAIRE] White formed aluminum housing, wide distrib white painted flush prismatic lens trim 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 | 2503 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 72 |
| 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 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 289 | 289 | 289 |
| 55 | 78 | 78 | 78 |
| 65 | 24 | 24 | 24 |
| 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> |
|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 20880.000 | 20880.000 | 20880.000 | 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 | 16270.000 | 16270.000 | 16270.000 |
| 5.0 | 7108.000 | 7108.000 | 7108.000 | 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 | 2980.000 | 2980.000 | 2980.000 |
| 10.0 | 1683.000 | 1683.000 | 1683.000 | 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 | 1188.000 | 1188.000 | 1188.000 |
| 15.0 | 936.000 | 936.000 | 936.000 | 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 | 798.000 | 798.000 | 798.000 |
| 20.0 | 726.000 | 726.000 | 726.000 | 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 | 686.000 | 686.000 | 686.000 |
| 25.0 | 618.000 | 618.000 | 618.000 | 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 | 358.000 | 358.000 | 358.000 |
| 30.0 | 90.000 | 90.000 | 90.000 | 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 | 31.000 | 31.000 | 31.000 |
| 35.0 | 23.000 | 23.000 | 23.000 | 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 | 19.000 | 19.000 | 19.000 |
| 40.0 | 15.000 | 15.000 | 15.000 | 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 | 12.000 | 12.000 | 12.000 |
| 45.0 | 10.000 | 10.000 | 10.000 | 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 | 7.000 | 7.000 | 7.000 |
| 50.0 | 5.000 | 5.000 | 5.000 | 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 | 4.000 | 4.000 | 4.000 |
| 55.0 | 3.000 | 3.000 | 3.000 | 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 | 2.000 | 2.000 | 2.000 |
| 60.0 | 2.000 | 2.000 | 2.000 | 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 | 1.000 | 1.000 | 1.000 |
| 65.0 | 1.000 | 1.000 | 1.000 | 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 | 1.000 | 1.000 | 1.000 |
| 70.0 | 1.000 | 1.000 | 1.000 | 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 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 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 | 0.000 | 0.000 | 0.000 |
| 80.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.0 | 2.395 | 2.395 | 2.395 | 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 | 2.824 | 2.824 | 2.824 |
| 95.0 | 4.789 | 4.789 | 4.789 | 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 | 7.798 | 7.798 | 7.798 |
| 100.0 | 11.850 | 11.850 | 11.850 | 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 | 16.332 | 16.332 | 16.332 |
| 105.0 | 21.244 | 21.244 | 21.244 | 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 | 26.525 | 26.525 | 26.525 |
| 110.0 | 32.296 | 32.296 | 32.296 | 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 | 38.498 | 38.498 | 38.498 |
| 115.0 | 45.129 | 45.129 | 45.129 | 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 | 52.129 | 52.129 | 52.129 |
| 120.0 | 59.128 | 59.128 | 59.128 | 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 | 65.882 | 65.882 | 65.882 |
| 125.0 | 72.145 | 72.145 | 72.145 | 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 | 78.285 | 78.285 | 78.285 |
| 130.0 | 84.978 | 84.978 | 84.978 | 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 | 93.267 | 93.267 | 93.267 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OS-CSD-WM_.IES

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. 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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OS-CSD-WM_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 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-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-OS-CSD-WM_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 848.04 | N.A. | 33.90 |
| 0-30 | 1078.88 | N.A. | 43.10 |
| 0-40 | 1097.91 | N.A. | 43.90 |
| 0-60 | 1108.13 | N.A. | 44.30 |
| 0-80 | 1109.38 | N.A. | 44.30 |
| 0-90 | 1109.7 | N.A. | 44.30 |
| 10-90 | 541.28 | N.A. | 21.60 |
| 20-40 | 249.87 | N.A. | 10.00 |
| 20-50 | 257.32 | N.A. | 10.30 |
| 40-70 | 11.33 | N.A. | 0.50 |
| 60-80 | 1.24 | N.A. | 0.00 |
| 70-80 | 0.13 | N.A. | 0.00 |
| 80-90 | 0.33 | N.A. | 0.00 |
| 90-110 | 28.85 | N.A. | 1.20 |
| 90-120 | 73.71 | N.A. | 2.90 |
| 90-130 | 138.17 | N.A. | 5.50 |
| 90-150 | 365.06 | N.A. | 14.60 |
| 90-180 | 1393.12 | N.A. | 55.70 |
| 110-180 | 1364.28 | N.A. | 54.50 |
| 0-180 | 2502.83 | 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 | 0.33 |
| 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-L12-835U-L12-835D-XXX-DIM1-UNV-LW-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |
| 1 | 99 | 96 | 93 | 91 | 91 | 89 | 86 | 84 | 74 | 73 | 72 | 61 | 61 | 60 | 49 | 49 | 49 | 43 |
| 2 | 93 | 88 | 84 | 80 | 86 | 82 | 78 | 75 | 70 | 67 | 65 | 58 | 57 | 56 | 48 | 47 | 47 | 42 |
| 3 | 88 | 81 | 76 | 72 | 81 | 76 | 71 | 68 | 65 | 62 | 60 | 56 | 54 | 52 | 47 | 46 | 45 | 41 |
| 4 | 83 | 76 | 70 | 66 | 77 | 71 | 66 | 62 | 62 | 58 | 56 | 53 | 51 | 49 | 45 | 44 | 43 | 40 |
| 5 | 79 | 71 | 65 | 61 | 73 | 66 | 62 | 58 | 58 | 55 | 52 | 51 | 49 | 47 | 44 | 43 | 42 | 39 |
| 6 | 75 | 66 | 61 | 56 | 70 | 63 | 58 | 54 | 56 | 52 | 49 | 49 | 47 | 45 | 43 | 41 | 40 | 38 |
| 7 | 72 | 63 | 57 | 53 | 67 | 59 | 54 | 51 | 53 | 50 | 47 | 47 | 45 | 43 | 42 | 40 | 39 | 37 |
| 8 | 68 | 59 | 54 | 50 | 64 | 57 | 52 | 48 | 51 | 47 | 45 | 46 | 43 | 41 | 41 | 39 | 38 | 36 |
| 9 | 66 | 57 | 51 | 48 | 62 | 54 | 49 | 46 | 49 | 45 | 43 | 44 | 42 | 40 | 40 | 38 | 37 | 35 |
| 10 | 63 | 54 | 49 | 45 | 59 | 52 | 47 | 44 | 47 | 44 | 41 | 43 | 41 | 39 | 39 | 37 | 36 | 35 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-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 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | UGR Viewed Endwise | | | | |
|------|------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| | 3H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 4H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 6H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 8H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 12H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |

| | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 3H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 4H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 6H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 8H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 12H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |

| | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8H | 4H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 6H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 8H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 12H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |

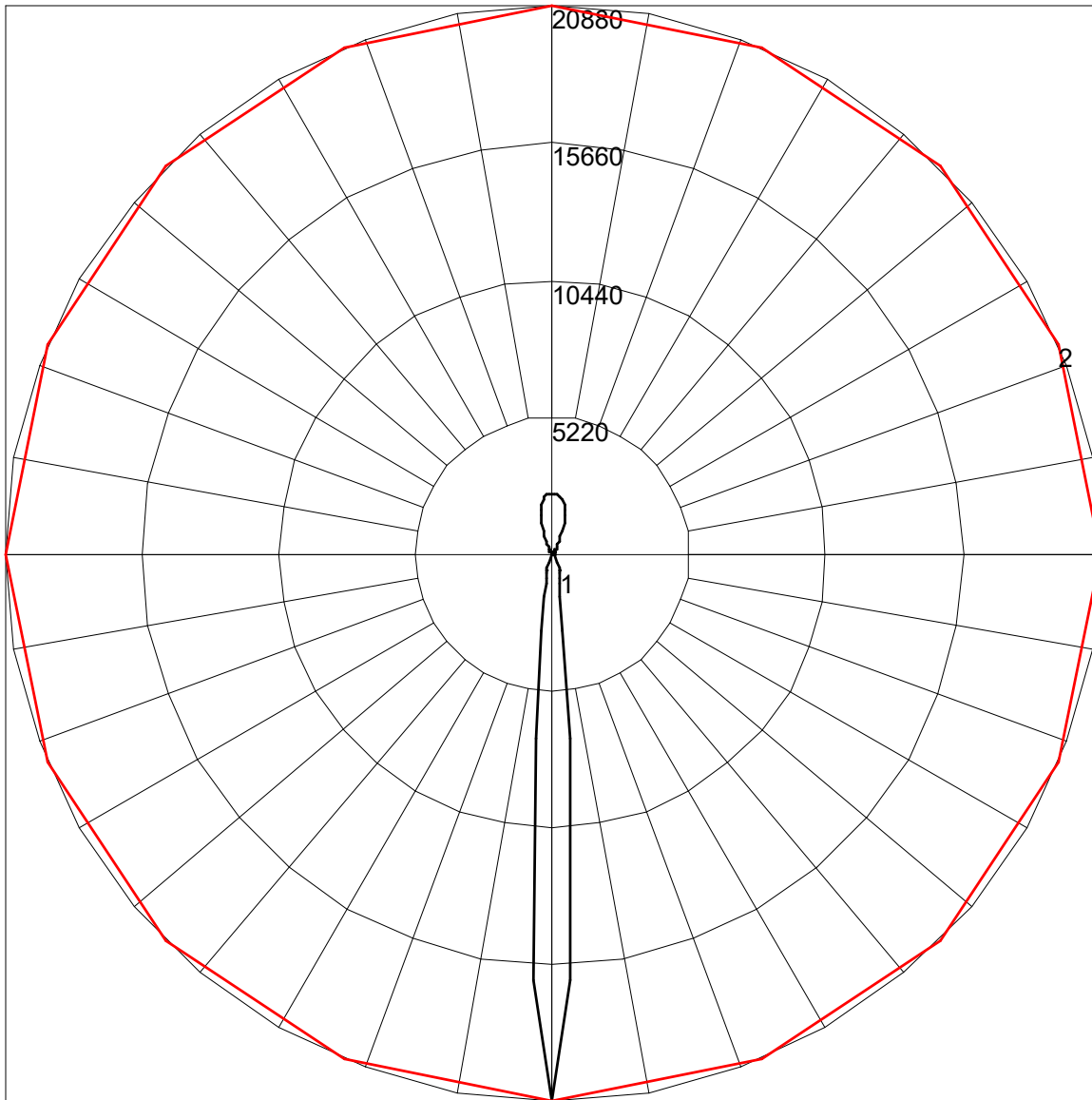
| | | | | | | | | | | | |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 12H | 4H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 6H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | 8H | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |

Maximum UGR = 3.3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-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.)