



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.10 and #13257153.07

[TESTLAB]

[ISSUE DATE] 9-FEB-2021

[MANUFAC] H E Williams Inc

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

[MORE]

[LUMINAIRE] White formed aluminum housing, wide distrib white painted flush prismatic lens trim up,

[MORE] medium distrib white painted regressed prismatic lens 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 | 2648 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 93 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3721 | 3721 | 3721 |
| 55 | 1997 | 1997 | 1997 |
| 65 | 1010 | 1010 | 1010 |
| 75 | 295 | 295 | 295 |
| 85 | 59 | 59 | 59 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-RM-WHD-WM_IES

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 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 |
| 2.5 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 |
| 5.0 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 |
| 7.5 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 |
| 10.0 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 |
| 12.5 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 |
| 15.0 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 |
| 17.5 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 |
| 20.0 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 |
| 22.5 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 |
| 25.0 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 |
| 27.5 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 |
| 30.0 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 |
| 32.5 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 |
| 35.0 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 |
| 37.5 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 |
| 40.0 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 |
| 42.5 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 |
| 45.0 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 |
| 47.5 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 |
| 50.0 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 |
| 52.5 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 |
| 55.0 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 |
| 57.5 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 |
| 60.0 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 |
| 62.5 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 |
| 65.0 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 |
| 67.5 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 |
| 70.0 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 |
| 72.5 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 |
| 75.0 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 |
| 77.5 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 |
| 80.0 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 |
| 82.5 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 |
| 85.0 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 |
| 87.5 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 |
| 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 |

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PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-RM-WHD-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. 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 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 | 3163.550 |
| 2.5 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 | 3108.742 |
| 5.0 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 | 2953.990 |
| 7.5 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 | 2708.160 |
| 10.0 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 | 2368.028 |
| 12.5 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 | 1938.430 |
| 15.0 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 | 1470.144 |
| 17.5 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 | 1052.636 |
| 20.0 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 | 754.577 |
| 22.5 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 | 574.517 |
| 25.0 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 | 465.868 |
| 27.5 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 | 385.832 |
| 30.0 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 | 315.630 |
| 32.5 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 | 255.663 |
| 35.0 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 | 215.283 |
| 37.5 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 | 188.120 |
| 40.0 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 | 166.197 |
| 42.5 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 | 146.531 |
| 45.0 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 | 128.960 |
| 47.5 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 | 113.162 |
| 50.0 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 | 99.138 |
| 52.5 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 | 87.129 |
| 55.0 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 | 76.651 |
| 57.5 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 | 67.140 |
| 60.0 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 | 58.193 |
| 62.5 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 | 49.569 |
| 65.0 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 | 41.348 |
| 67.5 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 | 33.610 |
| 70.0 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 | 26.195 |
| 72.5 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 | 19.183 |
| 75.0 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 | 12.493 |
| 77.5 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 | 7.818 |
| 80.0 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 | 5.803 |

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| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 | 4.030 |
| 85.0 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 | 2.499 |
| 87.5 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 | 1.048 |
| 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-RM-WHD-WM_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 666.03 | N.A. | 25.10 |
| 0-30 | 887.37 | N.A. | 33.50 |
| 0-40 | 1026.95 | N.A. | 38.80 |
| 0-60 | 1196.26 | N.A. | 45.20 |
| 0-80 | 1252.03 | N.A. | 47.30 |
| 0-90 | 1255.2 | N.A. | 47.40 |
| 10-90 | 991.76 | N.A. | 37.40 |
| 20-40 | 360.92 | N.A. | 13.60 |
| 20-50 | 461.14 | N.A. | 17.40 |
| 40-70 | 210.49 | N.A. | 7.90 |
| 60-80 | 55.76 | N.A. | 2.10 |
| 70-80 | 14.59 | N.A. | 0.60 |
| 80-90 | 3.18 | N.A. | 0.10 |
| 90-110 | 28.85 | N.A. | 1.10 |
| 90-120 | 73.71 | N.A. | 2.80 |
| 90-130 | 138.17 | N.A. | 5.20 |
| 90-150 | 365.06 | N.A. | 13.80 |
| 90-180 | 1393.12 | N.A. | 52.60 |
| 110-180 | 1364.28 | N.A. | 51.50 |
| 0-180 | 2648.33 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 263.44 |
| 10-20 | 402.59 |
| 20-30 | 221.34 |
| 30-40 | 139.58 |
| 40-50 | 100.23 |
| 50-60 | 69.09 |
| 60-70 | 41.17 |
| 70-80 | 14.59 |
| 80-90 | 3.18 |
| 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-RM-WHD-WM_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC 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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |
| 1 | 99 | 96 | 93 | 90 | 91 | 88 | 86 | 83 | 75 | 73 | 71 | 62 | 61 | 60 | 51 | 50 | 49 | 44 |
| 2 | 92 | 86 | 81 | 77 | 85 | 80 | 76 | 72 | 68 | 65 | 63 | 58 | 56 | 54 | 48 | 46 | 45 | 41 |
| 3 | 86 | 78 | 73 | 68 | 79 | 73 | 68 | 64 | 63 | 59 | 56 | 53 | 51 | 49 | 45 | 43 | 42 | 38 |
| 4 | 80 | 72 | 65 | 60 | 74 | 67 | 61 | 57 | 58 | 54 | 51 | 50 | 47 | 45 | 42 | 40 | 39 | 35 |
| 5 | 75 | 66 | 59 | 54 | 70 | 62 | 56 | 52 | 54 | 50 | 46 | 47 | 44 | 41 | 40 | 38 | 36 | 33 |
| 6 | 71 | 61 | 54 | 49 | 66 | 57 | 51 | 47 | 50 | 46 | 43 | 44 | 41 | 38 | 38 | 36 | 34 | 32 |
| 7 | 67 | 56 | 50 | 45 | 62 | 53 | 47 | 43 | 47 | 43 | 40 | 41 | 38 | 36 | 36 | 34 | 32 | 30 |
| 8 | 63 | 53 | 46 | 42 | 59 | 50 | 44 | 40 | 44 | 40 | 37 | 39 | 36 | 34 | 34 | 32 | 31 | 28 |
| 9 | 60 | 49 | 43 | 39 | 56 | 47 | 41 | 37 | 42 | 38 | 35 | 37 | 34 | 32 | 33 | 31 | 29 | 27 |
| 10 | 57 | 46 | 40 | 36 | 53 | 44 | 39 | 35 | 40 | 36 | 33 | 36 | 32 | 30 | 32 | 29 | 28 | 26 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CRDI-L12-835U-L12-835D-XXX-DIM1-UNV-LW-CSU-RM-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 | 5.4 | 6.1 | 6.4 | 7.1 | 8.4 | 5.4 | 6.1 | 6.4 | 7.1 | 8.4 |
| | 3H | 6.0 | 6.6 | 7.0 | 7.7 | 9.0 | 6.0 | 6.6 | 7.0 | 7.7 | 9.0 |
| | 4H | 6.1 | 6.7 | 7.1 | 7.7 | 9.0 | 6.1 | 6.7 | 7.1 | 7.7 | 9.0 |
| | 6H | 6.0 | 6.5 | 7.0 | 7.6 | 8.9 | 6.0 | 6.5 | 7.0 | 7.6 | 8.9 |
| | 8H | 6.0 | 6.5 | 7.0 | 7.5 | 8.9 | 6.0 | 6.5 | 7.0 | 7.5 | 8.9 |
| | 12H | 5.9 | 6.4 | 7.0 | 7.4 | 8.8 | 5.9 | 6.4 | 7.0 | 7.4 | 8.8 |

UGR Viewed Endwise

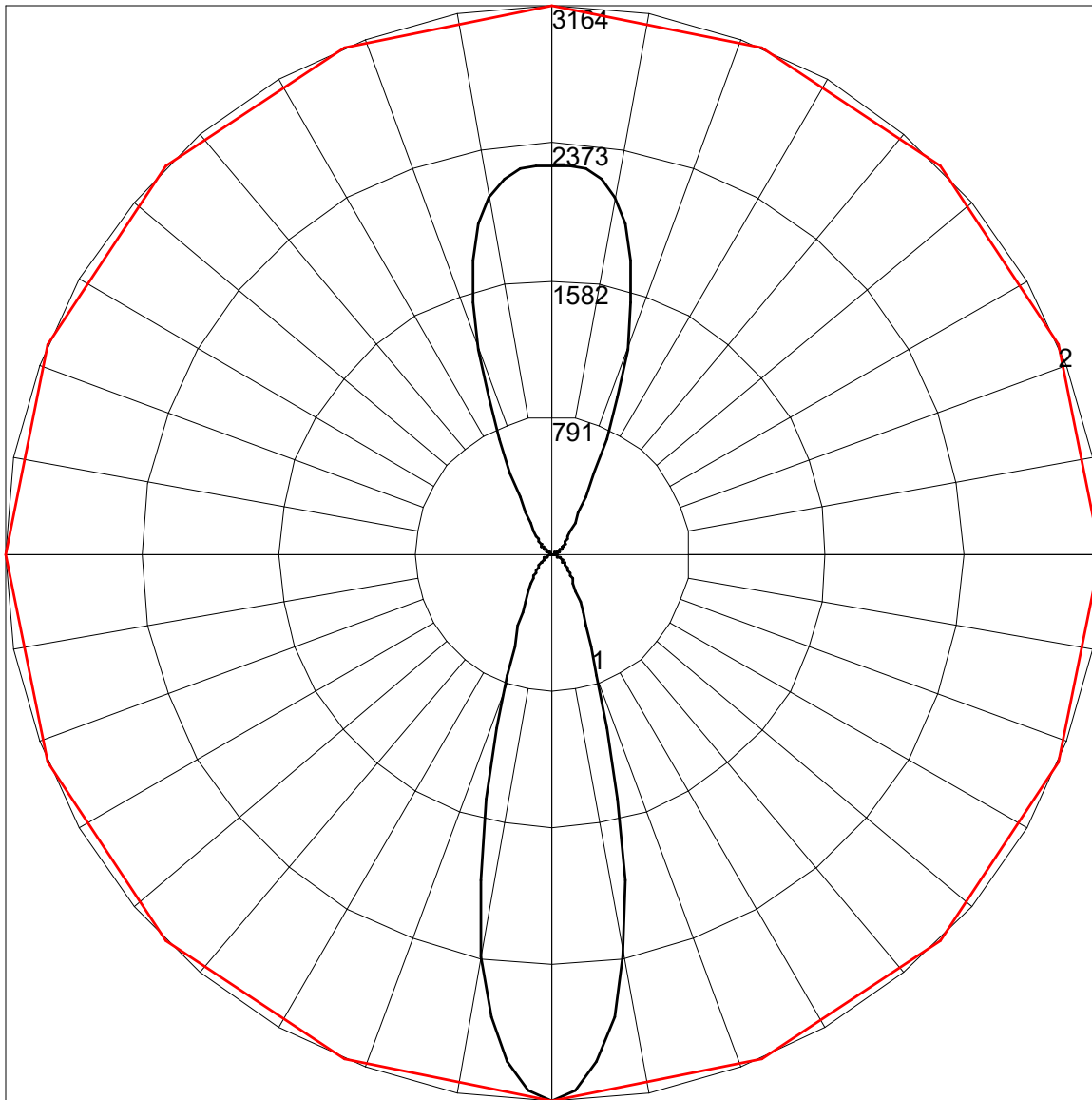
| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 5.5 | 6.1 | 6.5 | 7.1 | 8.4 | 5.5 | 6.1 | 6.5 | 7.1 | 8.4 |
| | 3H | 6.2 | 6.7 | 7.3 | 7.8 | 9.1 | 6.2 | 6.7 | 7.3 | 7.8 | 9.1 |
| | 4H | 6.3 | 6.7 | 7.3 | 7.8 | 9.2 | 6.3 | 6.7 | 7.3 | 7.8 | 9.2 |
| | 6H | 6.3 | 6.6 | 7.3 | 7.7 | 9.1 | 6.3 | 6.6 | 7.3 | 7.7 | 9.1 |
| | 8H | 6.2 | 6.6 | 7.3 | 7.6 | 9.0 | 6.2 | 6.6 | 7.3 | 7.6 | 9.0 |
| | 12H | 6.2 | 6.5 | 7.2 | 7.5 | 8.9 | 6.2 | 6.5 | 7.2 | 7.5 | 8.9 |
| 8H | 4H | 6.2 | 6.6 | 7.3 | 7.6 | 9.0 | 6.2 | 6.6 | 7.3 | 7.6 | 9.0 |
| | 6H | 6.2 | 6.5 | 7.3 | 7.6 | 9.0 | 6.2 | 6.5 | 7.3 | 7.6 | 9.0 |
| | 8H | 6.2 | 6.4 | 7.3 | 7.5 | 8.9 | 6.2 | 6.4 | 7.3 | 7.5 | 8.9 |
| | 12H | 6.1 | 6.3 | 7.2 | 7.4 | 8.8 | 6.1 | 6.3 | 7.2 | 7.4 | 8.8 |
| 12H | 4H | 6.1 | 6.5 | 7.2 | 7.5 | 8.9 | 6.1 | 6.5 | 7.2 | 7.5 | 8.9 |
| | 6H | 6.1 | 6.4 | 7.2 | 7.4 | 8.9 | 6.1 | 6.4 | 7.2 | 7.4 | 8.9 |
| | 8H | 6.1 | 6.3 | 7.2 | 7.4 | 8.8 | 6.1 | 6.3 | 7.2 | 7.4 | 8.8 |

Maximum UGR = 9.2

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 3163.55 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.)