

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P258421

Luminaire Tested: **D3X-WG-31L935-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L935-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3500 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2503.5 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

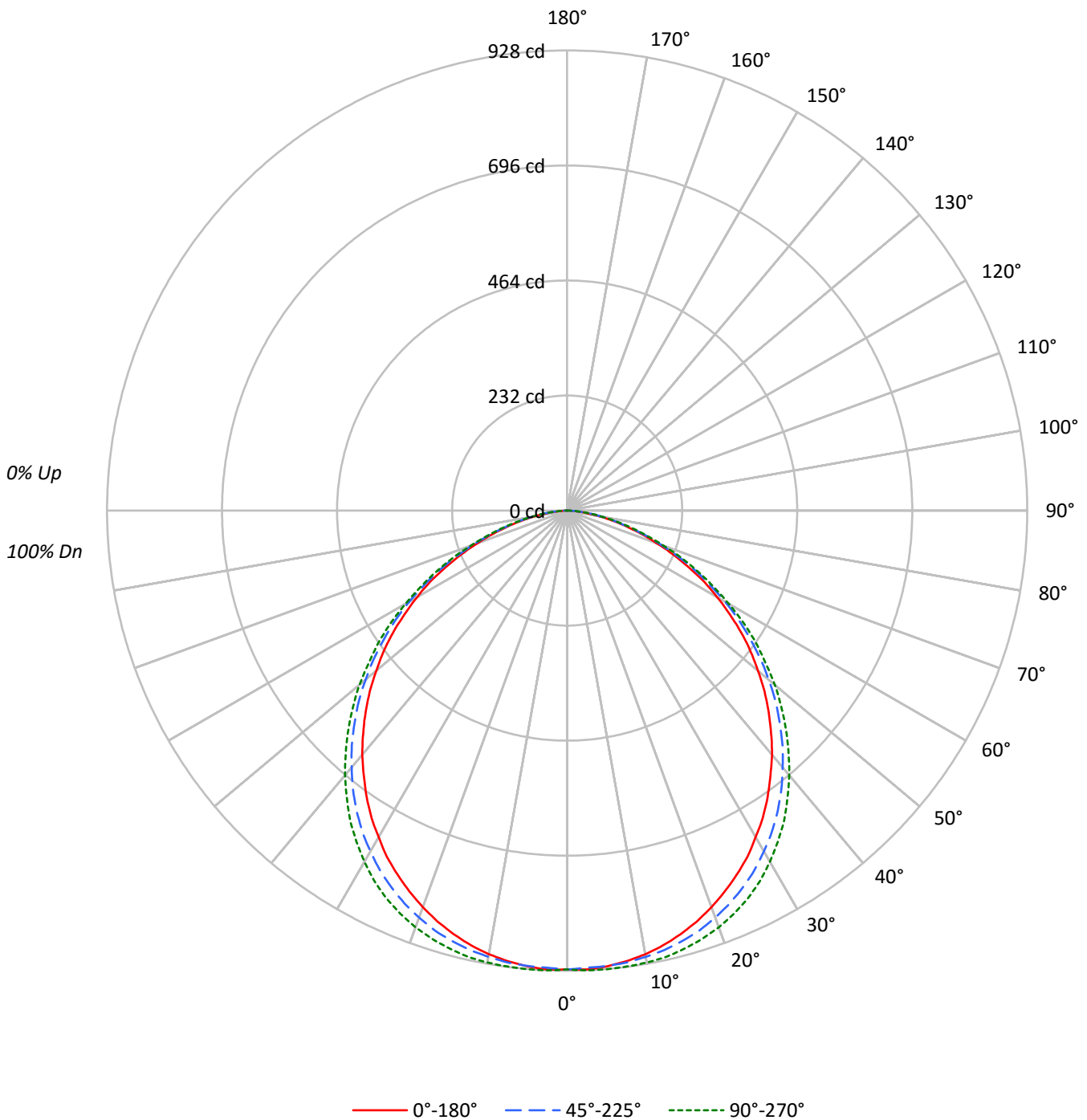
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 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   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 47  | 42  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1245 | 1245 | 1245 |
| 5°  | 1246 | 1245 | 1254 |
| 10° | 1241 | 1248 | 1264 |
| 15° | 1232 | 1252 | 1274 |
| 20° | 1219 | 1251 | 1280 |
| 25° | 1202 | 1245 | 1281 |
| 30° | 1182 | 1233 | 1271 |
| 35° | 1158 | 1215 | 1254 |
| 40° | 1129 | 1188 | 1224 |
| 45° | 1094 | 1153 | 1188 |
| 50° | 1051 | 1111 | 1145 |
| 55° | 1006 | 1056 | 1090 |
| 60° | 941  | 989  | 1014 |
| 65° | 859  | 905  | 928  |
| 70° | 755  | 794  | 815  |
| 75° | 639  | 671  | 695  |
| 80° | 508  | 556  | 570  |
| 85° | 346  | 415  | 401  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.9   | 3.5       |
| 10°-20°   | 253.9  | 10.1      |
| 20°-30°   | 385.8  | 15.4      |
| 30°-40°   | 460.4  | 18.4      |
| 40°-50°   | 465.0  | 18.6      |
| 50°-60°   | 400.6  | 16.0      |
| 60°-70°   | 279.3  | 11.2      |
| 70°-80°   | 138.4  | 5.5       |
| 80°-90°   | 32.3   | 1.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 727.6  | 29.1      |
| 0°-40°    | 1188.0 | 47.5      |
| 0°-60°    | 2053.6 | 82.0      |
| 0°-90°    | 2503.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2503.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 926 | 926   | 926 | 926   | 926 |      |
| 5°  | 923 | 922   | 922 | 926   | 928 | 88   |
| 15° | 884 | 889   | 899 | 910   | 915 | 249  |
| 25° | 810 | 821   | 838 | 856   | 863 | 373  |
| 35° | 705 | 716   | 740 | 757   | 763 | 441  |
| 45° | 575 | 587   | 606 | 621   | 624 | 443  |
| 55° | 429 | 438   | 450 | 461   | 464 | 382  |
| 65° | 270 | 275   | 284 | 287   | 292 | 268  |
| 75° | 123 | 125   | 129 | 132   | 134 | 132  |
| 85° | 22  | 27    | 27  | 25    | 26  | 29   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 925.5 | 925.5 | 925.5 | 925.5 | 925.5 |
| 2.5°  | 926.4 | 924.6 | 922.8 | 926.4 | 928.2 |
| 5°    | 922.8 | 921.9 | 921.9 | 926.4 | 928.2 |
| 7.5°  | 916.5 | 916.5 | 919.2 | 925.5 | 927.3 |
| 10°   | 908.5 | 910.3 | 913.8 | 922.8 | 925.5 |
| 12.5° | 897.7 | 901.3 | 907.6 | 918.3 | 921.9 |
| 15°   | 884.3 | 888.7 | 898.6 | 910.3 | 914.7 |
| 17.5° | 869.0 | 875.3 | 887.8 | 901.3 | 905.8 |
| 20°   | 851.1 | 859.1 | 873.5 | 888.7 | 894.1 |
| 22.5° | 831.3 | 841.2 | 857.3 | 873.5 | 879.8 |
| 25°   | 809.8 | 820.6 | 838.5 | 855.6 | 862.7 |
| 27.5° | 787.4 | 798.2 | 817.9 | 834.9 | 842.1 |
| 30°   | 760.5 | 773.0 | 793.7 | 811.6 | 817.9 |
| 32.5° | 734.5 | 747.0 | 768.6 | 784.7 | 791.0 |
| 35°   | 704.9 | 716.5 | 739.9 | 756.9 | 763.2 |
| 37.5° | 673.5 | 687.0 | 709.4 | 724.6 | 730.0 |
| 40°   | 643.0 | 654.7 | 676.2 | 691.4 | 696.8 |
| 42.5° | 608.9 | 621.5 | 643.0 | 656.5 | 660.9 |
| 45°   | 574.9 | 587.4 | 606.2 | 620.6 | 624.2 |
| 47.5° | 539.9 | 551.5 | 570.4 | 582.0 | 585.6 |
| 50°   | 502.2 | 513.0 | 530.9 | 542.6 | 547.1 |
| 52.5° | 466.3 | 476.2 | 491.4 | 501.3 | 504.0 |
| 55°   | 428.7 | 437.6 | 450.2 | 461.0 | 464.5 |
| 57.5° | 388.3 | 398.2 | 409.8 | 418.8 | 421.5 |
| 60°   | 349.8 | 357.8 | 367.7 | 375.8 | 376.7 |
| 62.5° | 312.1 | 315.7 | 324.6 | 331.8 | 332.7 |
| 65°   | 269.9 | 275.3 | 284.3 | 287.0 | 291.5 |
| 67.5° | 231.4 | 235.0 | 242.1 | 245.7 | 249.3 |
| 70°   | 191.9 | 194.6 | 201.8 | 206.3 | 207.2 |
| 72.5° | 157.8 | 158.7 | 164.1 | 167.7 | 168.6 |
| 75°   | 122.9 | 124.7 | 129.1 | 131.8 | 133.6 |
| 77.5° | 93.3  | 95.1  | 98.6  | 100.4 | 100.4 |
| 80°   | 65.5  | 68.2  | 71.7  | 72.6  | 73.5  |
| 82.5° | 42.1  | 45.7  | 48.4  | 49.3  | 47.5  |
| 85°   | 22.4  | 26.9  | 26.9  | 25.1  | 26.0  |
| 87.5° | 8.1   | 9.9   | 10.8  | 11.7  | 11.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)