

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995578

Luminaire Tested: 24D3X-LP-WD-30-L830.ies

Issue Date: 12/21/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/21/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24D3X-LP-WD-30-L830.ies  
Description: 2x4 D3X-LP AT 3000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

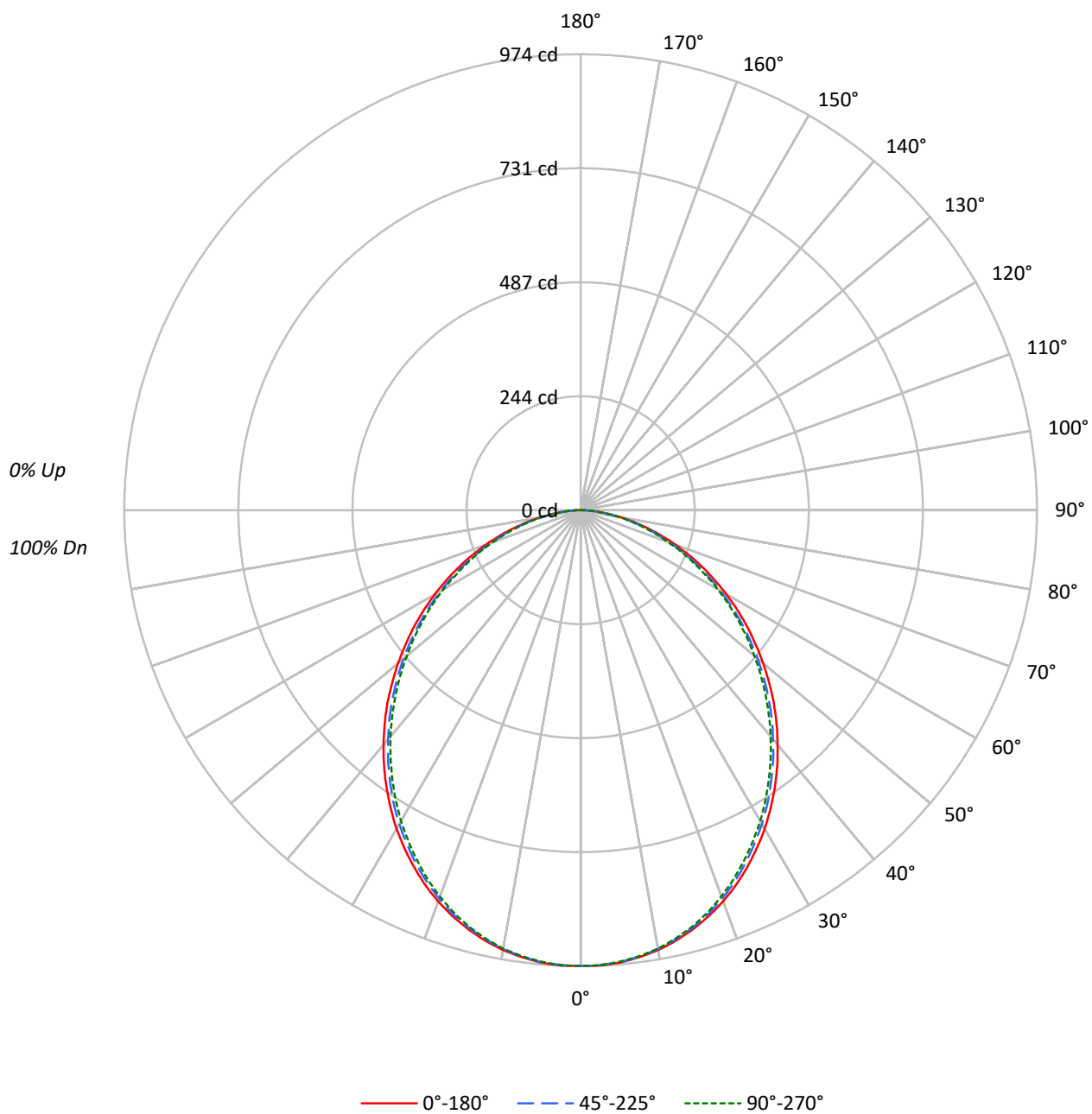
Lumens per Lamp: N/A  
Luminaire Lumens: 2455.2 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.3  
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: 24 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  |     |     |     |    | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    | 100 |
| 1   | 109 | 105 | 100 | 97  | 106 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |    | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 60  |    | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 37  | 35  |    | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 33  | 32  |    | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 29  |    | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1310 | 1310 | 1310 |
| 5°  | 1310 | 1309 | 1308 |
| 10° | 1304 | 1301 | 1299 |
| 15° | 1291 | 1286 | 1283 |
| 20° | 1273 | 1265 | 1258 |
| 25° | 1249 | 1235 | 1226 |
| 30° | 1221 | 1203 | 1191 |
| 35° | 1187 | 1164 | 1151 |
| 40° | 1149 | 1122 | 1109 |
| 45° | 1110 | 1078 | 1062 |
| 50° | 1064 | 1032 | 1013 |
| 55° | 1018 | 982  | 964  |
| 60° | 965  | 927  | 909  |
| 65° | 909  | 866  | 848  |
| 70° | 845  | 800  | 780  |
| 75° | 767  | 724  | 712  |
| 80° | 665  | 628  | 632  |
| 85° | 548  | 540  | 505  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1110 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.0   | 3.7       |
| 10°-20°   | 260.3  | 10.6      |
| 20°-30°   | 383.6  | 15.6      |
| 30°-40°   | 444.0  | 18.1      |
| 40°-50°   | 438.4  | 17.9      |
| 50°-60°   | 375.5  | 15.3      |
| 60°-70°   | 271.5  | 11.1      |
| 70°-80°   | 149.6  | 6.1       |
| 80°-90°   | 40.3   | 1.6       |
| 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°    | 735.8  | 30.0      |
| 0°-40°    | 1179.9 | 48.1      |
| 0°-60°    | 1993.8 | 81.2      |
| 0°-90°    | 2455.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2455.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 974 | 974   | 974 | 974   | 974 |      |
| 5°  | 970 | 970   | 969 | 968   | 968 | 92   |
| 15° | 927 | 926   | 924 | 922   | 921 | 261  |
| 25° | 841 | 839   | 832 | 828   | 826 | 387  |
| 35° | 722 | 718   | 709 | 703   | 701 | 452  |
| 45° | 583 | 575   | 567 | 561   | 558 | 449  |
| 55° | 434 | 426   | 419 | 413   | 411 | 388  |
| 65° | 285 | 279   | 272 | 268   | 266 | 283  |
| 75° | 148 | 143   | 139 | 139   | 137 | 157  |
| 85° | 36  | 36    | 35  | 33    | 33  | 42   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 973.7 | 973.7 | 973.7 | 973.7 | 973.7 |
| 2.5°  | 973.7 | 973.7 | 972.8 | 972.8 | 972.8 |
| 5°    | 970.0 | 969.6 | 969.1 | 968.2 | 968.2 |
| 7.5°  | 963.1 | 963.1 | 961.7 | 961.7 | 960.8 |
| 10°   | 954.4 | 953.4 | 952.1 | 952.1 | 951.1 |
| 12.5° | 941.9 | 941.0 | 939.2 | 938.7 | 937.3 |
| 15°   | 926.7 | 925.8 | 923.5 | 922.1 | 921.2 |
| 17.5° | 909.2 | 907.8 | 905.0 | 902.7 | 900.9 |
| 20°   | 889.4 | 887.5 | 883.4 | 880.6 | 878.3 |
| 22.5° | 866.8 | 864.9 | 858.9 | 855.7 | 853.4 |
| 25°   | 841.4 | 839.1 | 832.2 | 828.0 | 825.7 |
| 27.5° | 814.2 | 811.4 | 803.6 | 799.0 | 796.7 |
| 30°   | 786.1 | 781.9 | 774.1 | 768.6 | 766.7 |
| 32.5° | 754.7 | 750.6 | 742.7 | 736.3 | 734.4 |
| 35°   | 722.5 | 717.9 | 708.6 | 702.6 | 700.8 |
| 37.5° | 689.3 | 683.3 | 675.0 | 669.0 | 666.2 |
| 40°   | 654.2 | 648.2 | 639.0 | 632.6 | 631.2 |
| 42.5° | 619.2 | 611.8 | 604.0 | 597.5 | 594.8 |
| 45°   | 583.2 | 575.4 | 566.6 | 561.1 | 558.3 |
| 47.5° | 545.4 | 538.0 | 530.2 | 523.8 | 521.4 |
| 50°   | 508.5 | 500.7 | 492.9 | 486.9 | 484.1 |
| 52.5° | 470.7 | 462.9 | 455.5 | 450.4 | 447.7 |
| 55°   | 433.8 | 425.5 | 418.6 | 412.6 | 410.8 |
| 57.5° | 396.5 | 389.1 | 381.3 | 375.8 | 374.4 |
| 60°   | 358.7 | 352.2 | 344.4 | 339.3 | 337.9 |
| 62.5° | 322.3 | 315.8 | 308.4 | 303.4 | 301.1 |
| 65°   | 285.4 | 278.9 | 272.0 | 267.9 | 266.5 |
| 67.5° | 249.4 | 243.4 | 237.4 | 233.3 | 232.4 |
| 70°   | 214.8 | 208.9 | 203.3 | 199.6 | 198.3 |
| 72.5° | 180.3 | 176.1 | 170.6 | 168.3 | 166.9 |
| 75°   | 147.5 | 142.9 | 139.2 | 138.8 | 136.9 |
| 77.5° | 115.7 | 115.3 | 109.3 | 108.3 | 108.3 |
| 80°   | 85.8  | 84.4  | 81.1  | 80.2  | 81.6  |
| 82.5° | 59.0  | 58.1  | 56.2  | 55.8  | 55.3  |
| 85°   | 35.5  | 35.5  | 35.0  | 32.7  | 32.7  |
| 87.5° | 16.1  | 15.7  | 15.2  | 15.7  | 17.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)