

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: P995537

Luminaire Tested: 22D3X-LP-WD-50-L927.ies

Issue Date: 12/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/20/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22D3X-LP-WD-50-L927.ies  
Description: 2x2 D3X-LP AT 5000LM 2700K 90CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

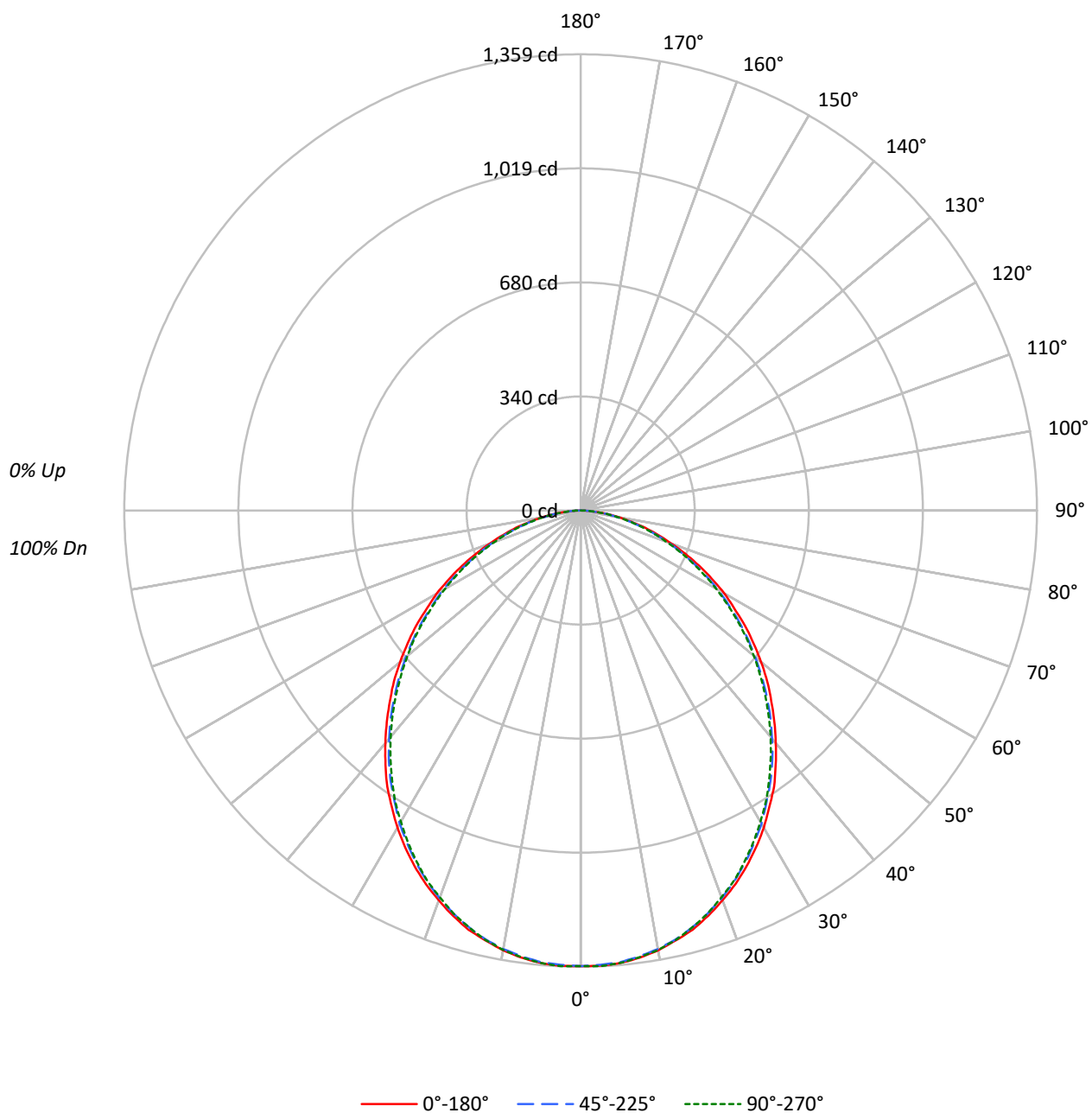
Lumens per Lamp: N/A  
Luminaire Lumens: 3391.7 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.9  
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 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 73  | 71  |    | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |    | 45  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |    | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |    | 36  |
| 8   | 62  | 49  | 40  | 34  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    | 32  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 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°  | 3652 | 3652 | 3652 |
| 5°  | 3655 | 3648 | 3655 |
| 10° | 3635 | 3624 | 3631 |
| 15° | 3601 | 3582 | 3582 |
| 20° | 3538 | 3519 | 3511 |
| 25° | 3472 | 3440 | 3428 |
| 30° | 3390 | 3348 | 3327 |
| 35° | 3300 | 3237 | 3215 |
| 40° | 3177 | 3115 | 3092 |
| 45° | 3056 | 2984 | 2958 |
| 50° | 2937 | 2841 | 2818 |
| 55° | 2803 | 2702 | 2664 |
| 60° | 2663 | 2547 | 2510 |
| 65° | 2479 | 2358 | 2333 |
| 70° | 2265 | 2180 | 2127 |
| 75° | 2066 | 1940 | 1954 |
| 80° | 1781 | 1675 | 1697 |
| 85° | 1377 | 1337 | 1254 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3056 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.2  | 3.8       |
| 10°-20°   | 362.5  | 10.7      |
| 20°-30°   | 533.9  | 15.7      |
| 30°-40°   | 617.6  | 18.2      |
| 40°-50°   | 607.2  | 17.9      |
| 50°-60°   | 517.5  | 15.3      |
| 60°-70°   | 370.8  | 10.9      |
| 70°-80°   | 201.4  | 5.9       |
| 80°-90°   | 52.5   | 1.5       |
| 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°    | 1024.6 | 30.2      |
| 0°-40°    | 1642.3 | 48.4      |
| 0°-60°    | 2767.0 | 81.6      |
| 0°-90°    | 3391.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3391.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1357 | 1357  | 1357 | 1357  | 1357 |      |
| 5°  | 1353 | 1350  | 1350 | 1350  | 1353 | 128  |
| 15° | 1292 | 1287  | 1286 | 1284  | 1286 | 364  |
| 25° | 1169 | 1164  | 1158 | 1156  | 1154 | 538  |
| 35° | 1004 | 996   | 986  | 980   | 979  | 626  |
| 45° | 803  | 798   | 784  | 777   | 777  | 620  |
| 55° | 598  | 587   | 576  | 569   | 568  | 534  |
| 65° | 389  | 381   | 370  | 366   | 366  | 386  |
| 75° | 199  | 192   | 187  | 184   | 188  | 210  |
| 85° | 45   | 45    | 43   | 42    | 41   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1357.3 | 1357.3 | 1357.3 | 1357.3 | 1357.3 |
| 2.5°  | 1357.3 | 1355.9 | 1354.6 | 1355.9 | 1358.6 |
| 5°    | 1353.2 | 1350.5 | 1350.5 | 1350.5 | 1353.2 |
| 7.5°  | 1343.8 | 1341.1 | 1339.7 | 1341.1 | 1342.4 |
| 10°   | 1330.2 | 1327.5 | 1326.2 | 1327.5 | 1328.9 |
| 12.5° | 1311.3 | 1310.0 | 1308.6 | 1308.6 | 1310.0 |
| 15°   | 1292.4 | 1287.0 | 1285.6 | 1284.3 | 1285.6 |
| 17.5° | 1265.3 | 1264.0 | 1258.6 | 1258.6 | 1258.6 |
| 20°   | 1235.6 | 1232.9 | 1228.8 | 1226.1 | 1226.1 |
| 22.5° | 1204.5 | 1201.8 | 1195.1 | 1192.3 | 1193.7 |
| 25°   | 1169.4 | 1164.0 | 1158.5 | 1155.8 | 1154.5 |
| 27.5° | 1131.5 | 1126.1 | 1118.0 | 1113.9 | 1113.9 |
| 30°   | 1091.0 | 1086.9 | 1077.4 | 1072.0 | 1070.7 |
| 32.5° | 1046.3 | 1043.6 | 1030.1 | 1027.4 | 1027.4 |
| 35°   | 1004.4 | 996.3  | 985.5  | 980.1  | 978.8  |
| 37.5° | 954.4  | 949.0  | 938.2  | 931.4  | 930.1  |
| 40°   | 904.4  | 897.6  | 886.8  | 881.4  | 880.1  |
| 42.5° | 854.4  | 847.6  | 836.8  | 830.0  | 828.7  |
| 45°   | 803.0  | 797.6  | 784.1  | 777.3  | 777.3  |
| 47.5° | 754.3  | 743.5  | 731.4  | 726.0  | 724.6  |
| 50°   | 701.6  | 692.2  | 678.6  | 673.2  | 673.2  |
| 52.5° | 648.9  | 642.1  | 627.3  | 624.6  | 621.9  |
| 55°   | 597.5  | 586.7  | 575.9  | 569.1  | 567.8  |
| 57.5° | 542.1  | 532.6  | 521.8  | 516.4  | 516.4  |
| 60°   | 494.8  | 482.6  | 473.2  | 466.4  | 466.4  |
| 62.5° | 440.7  | 429.9  | 420.4  | 416.4  | 415.0  |
| 65°   | 389.3  | 381.2  | 370.4  | 366.4  | 366.4  |
| 67.5° | 338.0  | 331.2  | 321.7  | 317.7  | 319.0  |
| 70°   | 287.9  | 283.9  | 277.1  | 271.7  | 270.4  |
| 72.5° | 242.0  | 236.6  | 229.8  | 228.5  | 228.5  |
| 75°   | 198.7  | 192.0  | 186.6  | 183.9  | 187.9  |
| 77.5° | 154.1  | 150.1  | 147.4  | 146.0  | 147.4  |
| 80°   | 114.9  | 109.5  | 108.1  | 109.5  | 109.5  |
| 82.5° | 79.8   | 77.1   | 75.7   | 75.7   | 75.7   |
| 85°   | 44.6   | 44.6   | 43.3   | 41.9   | 40.6   |
| 87.5° | 17.6   | 17.6   | 18.9   | 18.9   | 20.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)