

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: P601111

Luminaire Tested: 22D3X-LP-45-L835

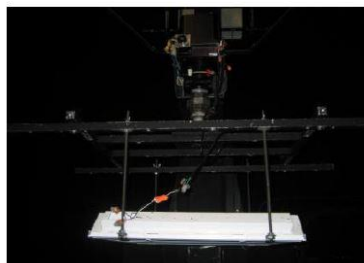
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22D3X-LP-45-L835  
Description: 2x2 D3X-LP AT 4500LM 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

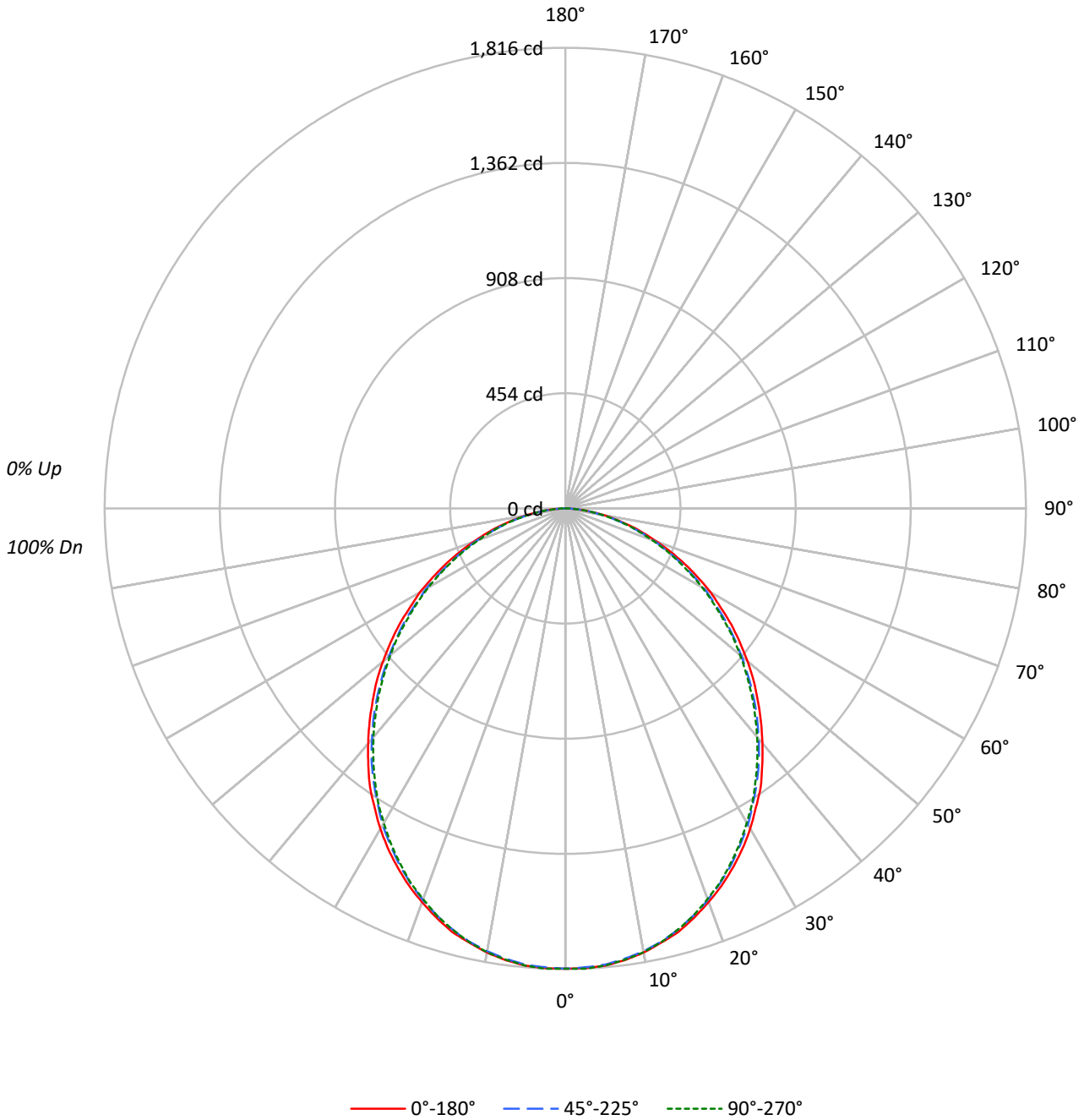
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4534.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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): 37.8  
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  |     |     |     | 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 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 73  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |
| 8   | 62  | 49  | 40  | 34  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4883 | 4883 | 4883 |
| 5°  | 4887 | 4877 | 4887 |
| 10° | 4859 | 4844 | 4854 |
| 15° | 4813 | 4788 | 4788 |
| 20° | 4730 | 4704 | 4694 |
| 25° | 4641 | 4598 | 4582 |
| 30° | 4532 | 4475 | 4447 |
| 35° | 4411 | 4328 | 4298 |
| 40° | 4247 | 4164 | 4133 |
| 45° | 4085 | 3989 | 3954 |
| 50° | 3926 | 3798 | 3768 |
| 55° | 3748 | 3612 | 3561 |
| 60° | 3560 | 3404 | 3356 |
| 65° | 3314 | 3153 | 3118 |
| 70° | 3028 | 2915 | 2843 |
| 75° | 2763 | 2593 | 2612 |
| 80° | 2380 | 2241 | 2269 |
| 85° | 1840 | 1785 | 1673 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4085 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.4  | 3.8       |
| 10°-20°   | 484.6  | 10.7      |
| 20°-30°   | 713.7  | 15.7      |
| 30°-40°   | 825.7  | 18.2      |
| 40°-50°   | 811.7  | 17.9      |
| 50°-60°   | 691.8  | 15.3      |
| 60°-70°   | 495.7  | 10.9      |
| 70°-80°   | 269.2  | 5.9       |
| 80°-90°   | 70.2   | 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°    | 1369.7 | 30.2      |
| 0°-40°    | 2195.4 | 48.4      |
| 0°-60°    | 3698.9 | 81.6      |
| 0°-90°    | 4534.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4534.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1814 | 1814  | 1814 | 1814  | 1814 |      |
| 5°  | 1809 | 1805  | 1805 | 1805  | 1809 | 172  |
| 15° | 1728 | 1720  | 1719 | 1717  | 1719 | 486  |
| 25° | 1563 | 1556  | 1549 | 1545  | 1543 | 720  |
| 35° | 1343 | 1332  | 1317 | 1310  | 1308 | 837  |
| 45° | 1074 | 1066  | 1048 | 1039  | 1039 | 829  |
| 55° | 799  | 784   | 770  | 761   | 759  | 713  |
| 65° | 520  | 510   | 495  | 490   | 490  | 516  |
| 75° | 266  | 257   | 249  | 246   | 251  | 281  |
| 85° | 60   | 60    | 58   | 56    | 54   | 72   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1814.4 | 1814.4 | 1814.4 | 1814.4 | 1814.4 |
| 2.5°  | 1814.4 | 1812.6 | 1810.8 | 1812.6 | 1816.2 |
| 5°    | 1809.0 | 1805.4 | 1805.4 | 1805.4 | 1809.0 |
| 7.5°  | 1796.3 | 1792.7 | 1790.9 | 1792.7 | 1794.5 |
| 10°   | 1778.3 | 1774.6 | 1772.8 | 1774.6 | 1776.4 |
| 12.5° | 1753.0 | 1751.1 | 1749.3 | 1749.3 | 1751.1 |
| 15°   | 1727.7 | 1720.4 | 1718.6 | 1716.8 | 1718.6 |
| 17.5° | 1691.5 | 1689.7 | 1682.5 | 1682.5 | 1682.5 |
| 20°   | 1651.7 | 1648.1 | 1642.7 | 1639.1 | 1639.1 |
| 22.5° | 1610.2 | 1606.6 | 1597.5 | 1593.9 | 1595.7 |
| 25°   | 1563.2 | 1556.0 | 1548.7 | 1545.1 | 1543.3 |
| 27.5° | 1512.6 | 1505.4 | 1494.5 | 1489.1 | 1489.1 |
| 30°   | 1458.4 | 1453.0 | 1440.3 | 1433.1 | 1431.3 |
| 32.5° | 1398.7 | 1395.1 | 1377.1 | 1373.4 | 1373.4 |
| 35°   | 1342.7 | 1331.9 | 1317.4 | 1310.2 | 1308.4 |
| 37.5° | 1275.9 | 1268.6 | 1254.2 | 1245.1 | 1243.3 |
| 40°   | 1209.0 | 1200.0 | 1185.5 | 1178.3 | 1176.5 |
| 42.5° | 1142.1 | 1133.1 | 1118.6 | 1109.6 | 1107.8 |
| 45°   | 1073.5 | 1066.2 | 1048.2 | 1039.1 | 1039.1 |
| 47.5° | 1008.4 | 993.9  | 977.7  | 970.4  | 968.6  |
| 50°   | 937.9  | 925.3  | 907.2  | 900.0  | 900.0  |
| 52.5° | 867.4  | 858.4  | 838.5  | 834.9  | 831.3  |
| 55°   | 798.8  | 784.3  | 769.9  | 760.8  | 759.0  |
| 57.5° | 724.7  | 712.0  | 697.6  | 690.3  | 690.3  |
| 60°   | 661.4  | 645.2  | 632.5  | 623.5  | 623.5  |
| 62.5° | 589.1  | 574.7  | 562.0  | 556.6  | 554.8  |
| 65°   | 520.5  | 509.6  | 495.2  | 489.7  | 489.7  |
| 67.5° | 451.8  | 442.8  | 430.1  | 424.7  | 426.5  |
| 70°   | 384.9  | 379.5  | 370.5  | 363.2  | 361.4  |
| 72.5° | 323.5  | 316.3  | 307.2  | 305.4  | 305.4  |
| 75°   | 265.7  | 256.6  | 249.4  | 245.8  | 251.2  |
| 77.5° | 206.0  | 200.6  | 197.0  | 195.2  | 197.0  |
| 80°   | 153.6  | 146.4  | 144.6  | 146.4  | 146.4  |
| 82.5° | 106.6  | 103.0  | 101.2  | 101.2  | 101.2  |
| 85°   | 59.6   | 59.6   | 57.8   | 56.0   | 54.2   |
| 87.5° | 23.5   | 23.5   | 25.3   | 25.3   | 27.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)