

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: P601128

Luminaire Tested: 22D3X-LP-60-L830

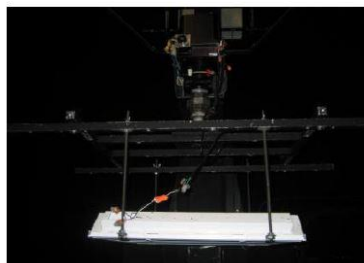
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601128  
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-60-L830  
Description: 2x2 D3X-LP AT 6000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

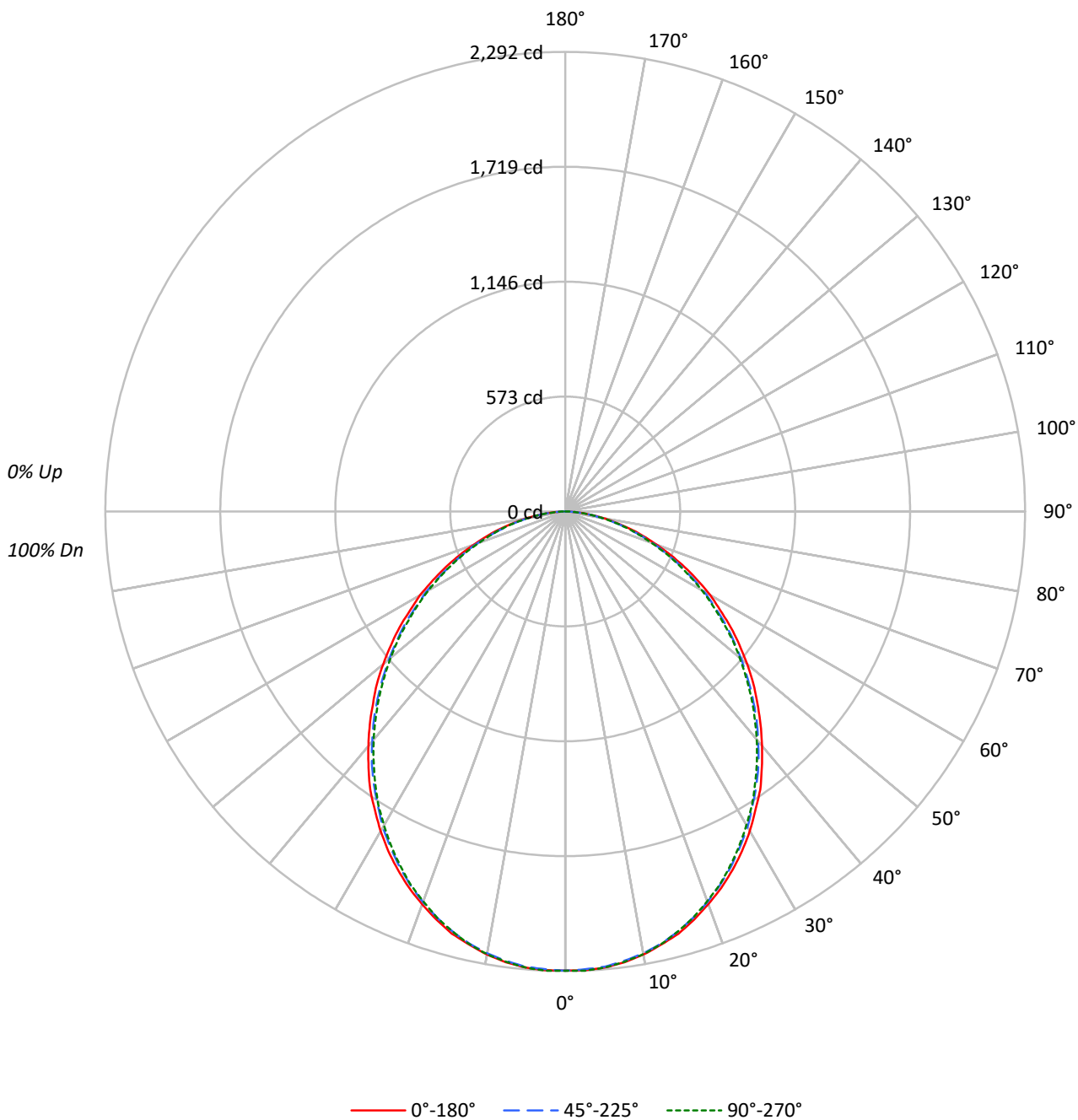
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5722.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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): 52.5  
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°  | 6162 | 6162 | 6162 |
| 5°  | 6167 | 6155 | 6167 |
| 10° | 6132 | 6113 | 6126 |
| 15° | 6074 | 6042 | 6042 |
| 20° | 5969 | 5937 | 5924 |
| 25° | 5858 | 5803 | 5783 |
| 30° | 5719 | 5648 | 5613 |
| 35° | 5567 | 5462 | 5424 |
| 40° | 5360 | 5256 | 5215 |
| 45° | 5155 | 5034 | 4991 |
| 50° | 4955 | 4793 | 4755 |
| 55° | 4730 | 4558 | 4494 |
| 60° | 4492 | 4296 | 4235 |
| 65° | 4182 | 3979 | 3936 |
| 70° | 3822 | 3678 | 3589 |
| 75° | 3486 | 3272 | 3296 |
| 80° | 3005 | 2828 | 2862 |
| 85° | 2325 | 2254 | 2112 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5155 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 216.3  | 3.8       |
| 10°-20°   | 611.6  | 10.7      |
| 20°-30°   | 900.8  | 15.7      |
| 30°-40°   | 1042.0 | 18.2      |
| 40°-50°   | 1024.4 | 17.9      |
| 50°-60°   | 873.0  | 15.3      |
| 60°-70°   | 625.5  | 10.9      |
| 70°-80°   | 339.7  | 5.9       |
| 80°-90°   | 88.6   | 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°    | 1728.6 | 30.2      |
| 0°-40°    | 2770.6 | 48.4      |
| 0°-60°    | 4668.1 | 81.6      |
| 0°-90°    | 5722.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5722.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2290 | 2290  | 2290 | 2290  | 2290 |      |
| 5°  | 2283 | 2278  | 2278 | 2278  | 2283 | 217  |
| 15° | 2180 | 2171  | 2169 | 2167  | 2169 | 614  |
| 25° | 1973 | 1964  | 1954 | 1950  | 1948 | 908  |
| 35° | 1694 | 1681  | 1663 | 1654  | 1651 | 1057 |
| 45° | 1355 | 1346  | 1323 | 1311  | 1311 | 1046 |
| 55° | 1008 | 990   | 972  | 960   | 958  | 900  |
| 65° | 657  | 643   | 625  | 618   | 618  | 651  |
| 75° | 335  | 324   | 315  | 310   | 317  | 354  |
| 85° | 75   | 75    | 73   | 71    | 68   | 92   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2289.8 | 2289.8 | 2289.8 | 2289.8 | 2289.8 |
| 2.5°  | 2289.8 | 2287.5 | 2285.2 | 2287.5 | 2292.1 |
| 5°    | 2283.0 | 2278.4 | 2278.4 | 2278.4 | 2283.0 |
| 7.5°  | 2267.0 | 2262.4 | 2260.2 | 2262.4 | 2264.7 |
| 10°   | 2244.2 | 2239.6 | 2237.3 | 2239.6 | 2241.9 |
| 12.5° | 2212.3 | 2210.0 | 2207.7 | 2207.7 | 2210.0 |
| 15°   | 2180.3 | 2171.2 | 2168.9 | 2166.6 | 2168.9 |
| 17.5° | 2134.7 | 2132.4 | 2123.3 | 2123.3 | 2123.3 |
| 20°   | 2084.5 | 2080.0 | 2073.1 | 2068.6 | 2068.6 |
| 22.5° | 2032.1 | 2027.5 | 2016.1 | 2011.6 | 2013.8 |
| 25°   | 1972.8 | 1963.7 | 1954.5 | 1950.0 | 1947.7 |
| 27.5° | 1908.9 | 1899.8 | 1886.1 | 1879.3 | 1879.3 |
| 30°   | 1840.5 | 1833.7 | 1817.7 | 1808.6 | 1806.3 |
| 32.5° | 1765.2 | 1760.7 | 1737.9 | 1733.3 | 1733.3 |
| 35°   | 1694.5 | 1680.9 | 1662.6 | 1653.5 | 1651.2 |
| 37.5° | 1610.2 | 1601.0 | 1582.8 | 1571.4 | 1569.1 |
| 40°   | 1525.8 | 1514.4 | 1496.1 | 1487.0 | 1484.7 |
| 42.5° | 1441.4 | 1430.0 | 1411.7 | 1400.3 | 1398.1 |
| 45°   | 1354.7 | 1345.6 | 1322.8 | 1311.4 | 1311.4 |
| 47.5° | 1272.6 | 1254.4 | 1233.8 | 1224.7 | 1222.4 |
| 50°   | 1183.7 | 1167.7 | 1144.9 | 1135.8 | 1135.8 |
| 52.5° | 1094.7 | 1083.3 | 1058.2 | 1053.7 | 1049.1 |
| 55°   | 1008.1 | 989.8  | 971.6  | 960.2  | 957.9  |
| 57.5° | 914.6  | 898.6  | 880.3  | 871.2  | 871.2  |
| 60°   | 834.7  | 814.2  | 798.2  | 786.8  | 786.8  |
| 62.5° | 743.5  | 725.3  | 709.3  | 702.4  | 700.2  |
| 65°   | 656.8  | 643.2  | 624.9  | 618.1  | 618.1  |
| 67.5° | 570.2  | 558.8  | 542.8  | 536.0  | 538.2  |
| 70°   | 485.8  | 478.9  | 467.5  | 458.4  | 456.1  |
| 72.5° | 408.2  | 399.1  | 387.7  | 385.4  | 385.4  |
| 75°   | 335.3  | 323.9  | 314.7  | 310.2  | 317.0  |
| 77.5° | 260.0  | 253.2  | 248.6  | 246.3  | 248.6  |
| 80°   | 193.9  | 184.7  | 182.5  | 184.7  | 184.7  |
| 82.5° | 134.6  | 130.0  | 127.7  | 127.7  | 127.7  |
| 85°   | 75.3   | 75.3   | 73.0   | 70.7   | 68.4   |
| 87.5° | 29.6   | 29.6   | 31.9   | 31.9   | 34.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)