

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: P257528

Luminaire Tested: **D3X-WO-31L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L830-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE  
Light Source: (126) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3092.1 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

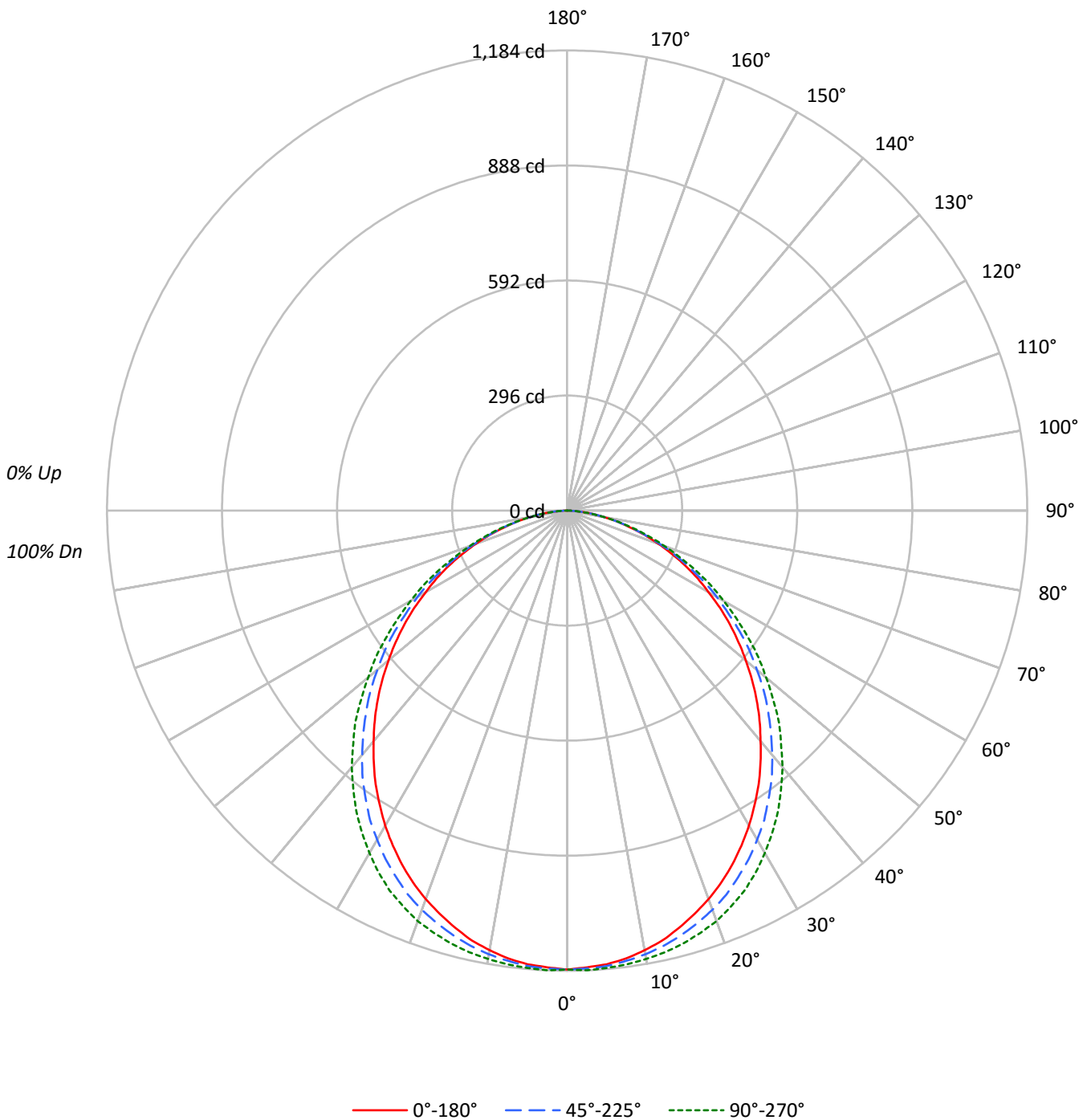
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 70  | 62  | 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  | 48  | 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  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3178 | 3178 | 3178 |
| 5°  | 3165 | 3177 | 3190 |
| 10° | 3138 | 3168 | 3201 |
| 15° | 3097 | 3153 | 3213 |
| 20° | 3047 | 3130 | 3218 |
| 25° | 2985 | 3090 | 3205 |
| 30° | 2909 | 3038 | 3162 |
| 35° | 2822 | 2969 | 3105 |
| 40° | 2720 | 2883 | 3029 |
| 45° | 2625 | 2783 | 2935 |
| 50° | 2514 | 2668 | 2797 |
| 55° | 2398 | 2542 | 2665 |
| 60° | 2262 | 2394 | 2503 |
| 65° | 2137 | 2215 | 2323 |
| 70° | 1962 | 2023 | 2095 |
| 75° | 1745 | 1792 | 1841 |
| 80° | 1503 | 1480 | 1480 |
| 85° | 1142 | 1047 | 951  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.7  | 3.6       |
| 10°-20°   | 319.3  | 10.3      |
| 20°-30°   | 479.4  | 15.5      |
| 30°-40°   | 564.2  | 18.2      |
| 40°-50°   | 562.8  | 18.2      |
| 50°-60°   | 482.9  | 15.6      |
| 60°-70°   | 345.9  | 11.2      |
| 70°-80°   | 183.2  | 5.9       |
| 80°-90°   | 42.8   | 1.4       |
| 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°    | 910.4  | 29.4      |
| 0°-40°    | 1474.6 | 47.7      |
| 0°-60°    | 2520.3 | 81.5      |
| 0°-90°    | 3092.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3092.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1181 | 1181  | 1181 | 1181  | 1181 |      |
| 5°  | 1172 | 1172  | 1176 | 1179  | 1181 | 111  |
| 15° | 1112 | 1116  | 1132 | 1147  | 1153 | 313  |
| 25° | 1005 | 1015  | 1041 | 1067  | 1079 | 463  |
| 35° | 859  | 870   | 904  | 934   | 945  | 537  |
| 45° | 690  | 700   | 731  | 758   | 771  | 532  |
| 55° | 511  | 519   | 542  | 560   | 568  | 457  |
| 65° | 336  | 337   | 348  | 362   | 365  | 331  |
| 75° | 168  | 168   | 172  | 176   | 177  | 180  |
| 85° | 37   | 35    | 34   | 31    | 31   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1180.9 | 1180.9 | 1180.9 | 1180.9 | 1180.9 |
| 2.5°  | 1176.2 | 1176.2 | 1179.3 | 1182.4 | 1183.9 |
| 5°    | 1171.6 | 1171.6 | 1176.2 | 1179.3 | 1180.9 |
| 7.5°  | 1162.4 | 1162.4 | 1168.5 | 1174.7 | 1177.8 |
| 10°   | 1148.5 | 1151.6 | 1159.3 | 1168.5 | 1171.6 |
| 12.5° | 1133.1 | 1136.2 | 1147.0 | 1159.3 | 1163.9 |
| 15°   | 1111.6 | 1116.2 | 1131.6 | 1147.0 | 1153.2 |
| 17.5° | 1088.5 | 1094.6 | 1113.1 | 1131.6 | 1139.3 |
| 20°   | 1063.9 | 1070.0 | 1093.1 | 1114.7 | 1123.9 |
| 22.5° | 1036.1 | 1043.8 | 1070.0 | 1093.1 | 1102.3 |
| 25°   | 1005.3 | 1014.6 | 1040.8 | 1066.9 | 1079.3 |
| 27.5° | 971.5  | 982.3  | 1011.5 | 1039.2 | 1050.0 |
| 30°   | 936.1  | 948.4  | 977.6  | 1006.9 | 1017.7 |
| 32.5° | 897.6  | 908.4  | 943.8  | 971.5  | 982.3  |
| 35°   | 859.1  | 869.9  | 903.7  | 934.5  | 945.3  |
| 37.5° | 817.5  | 831.4  | 865.2  | 893.0  | 903.7  |
| 40°   | 774.4  | 788.3  | 820.6  | 852.9  | 862.2  |
| 42.5° | 732.8  | 745.2  | 776.0  | 805.2  | 814.4  |
| 45°   | 689.7  | 700.5  | 731.3  | 757.5  | 771.3  |
| 47.5° | 645.1  | 655.9  | 686.7  | 711.3  | 719.0  |
| 50°   | 600.4  | 611.2  | 637.4  | 658.9  | 668.2  |
| 52.5° | 555.8  | 566.6  | 591.2  | 611.2  | 620.5  |
| 55°   | 511.1  | 518.8  | 541.9  | 560.4  | 568.1  |
| 57.5° | 466.5  | 472.7  | 491.1  | 511.1  | 515.8  |
| 60°   | 420.3  | 428.0  | 444.9  | 458.8  | 465.0  |
| 62.5° | 378.7  | 381.8  | 397.2  | 409.5  | 417.2  |
| 65°   | 335.6  | 337.2  | 347.9  | 361.8  | 364.9  |
| 67.5° | 291.0  | 292.5  | 303.3  | 311.0  | 314.1  |
| 70°   | 249.4  | 249.4  | 257.1  | 263.3  | 266.3  |
| 72.5° | 209.4  | 207.8  | 212.5  | 218.6  | 221.7  |
| 75°   | 167.8  | 167.8  | 172.4  | 175.5  | 177.1  |
| 77.5° | 132.4  | 129.3  | 132.4  | 135.5  | 135.5  |
| 80°   | 97.0   | 95.5   | 95.5   | 97.0   | 95.5   |
| 82.5° | 66.2   | 64.7   | 66.2   | 63.1   | 61.6   |
| 85°   | 37.0   | 35.4   | 33.9   | 30.8   | 30.8   |
| 87.5° | 12.3   | 10.8   | 10.8   | 12.3   | 12.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)