

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: P257323

Luminaire Tested: **D3X-WD-35L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-35L830-LD5-UNV-14-T1-STD  
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (112) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3384.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

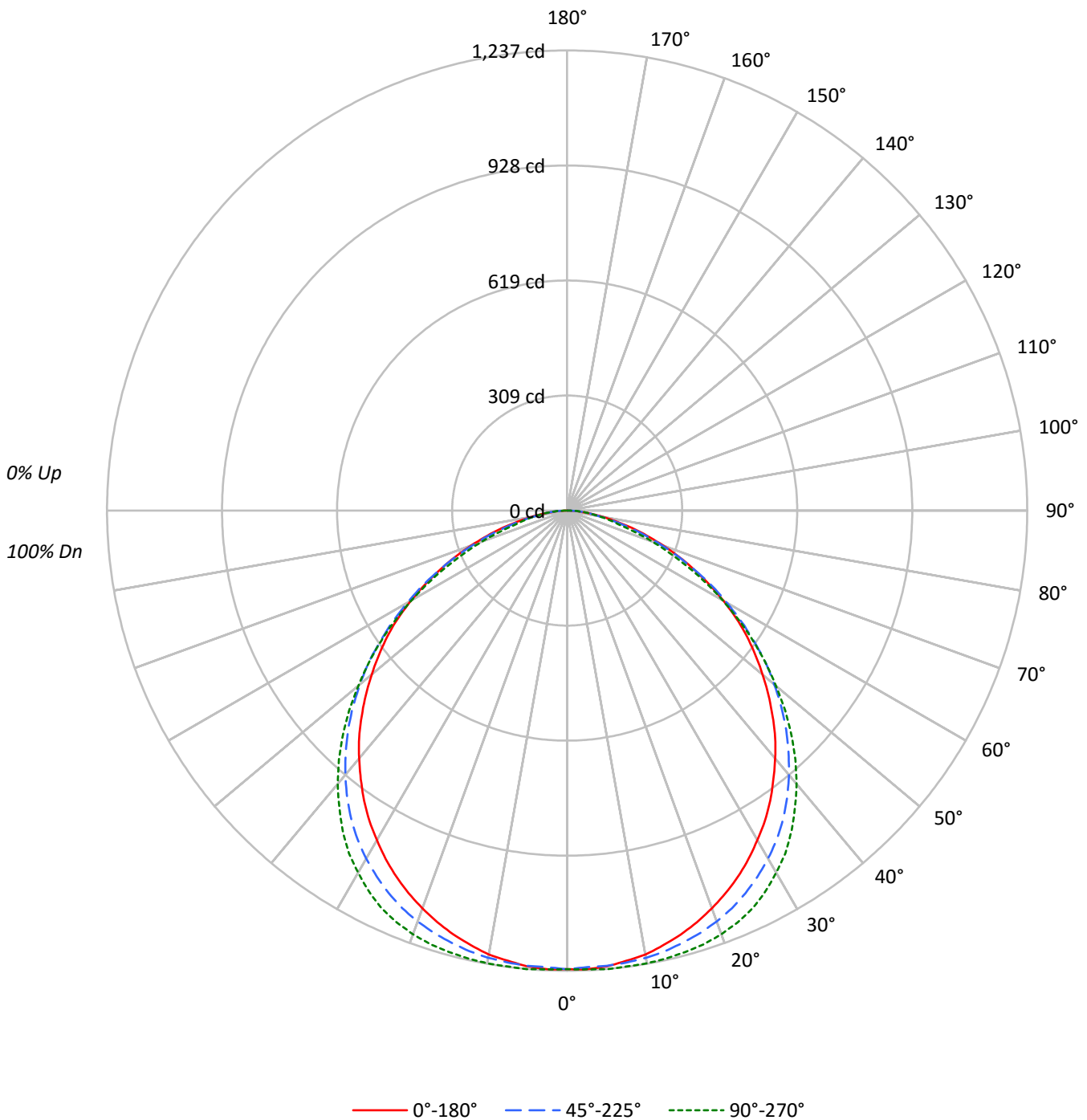
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 103 | 99  | 96  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 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  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3317 | 3317 | 3317 |
| 5°  | 3322 | 3318 | 3342 |
| 10° | 3311 | 3336 | 3377 |
| 15° | 3287 | 3350 | 3422 |
| 20° | 3258 | 3366 | 3470 |
| 25° | 3225 | 3369 | 3503 |
| 30° | 3178 | 3356 | 3493 |
| 35° | 3127 | 3325 | 3454 |
| 40° | 3057 | 3258 | 3370 |
| 45° | 2973 | 3168 | 3243 |
| 50° | 2871 | 3042 | 3067 |
| 55° | 2771 | 2878 | 2864 |
| 60° | 2610 | 2667 | 2602 |
| 65° | 2405 | 2415 | 2280 |
| 70° | 2152 | 2104 | 1913 |
| 75° | 1869 | 1744 | 1476 |
| 80° | 1499 | 1358 | 1358 |
| 85° | 1071 | 1260 | 1306 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.3  | 3.5       |
| 10°-20°   | 340.3  | 10.1      |
| 20°-30°   | 522.5  | 15.4      |
| 30°-40°   | 629.3  | 18.6      |
| 40°-50°   | 636.0  | 18.8      |
| 50°-60°   | 542.4  | 16.0      |
| 60°-70°   | 371.3  | 11.0      |
| 70°-80°   | 179.2  | 5.3       |
| 80°-90°   | 46.2   | 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°    | 980.1  | 29.0      |
| 0°-40°    | 1609.4 | 47.6      |
| 0°-60°    | 2787.8 | 82.4      |
| 0°-90°    | 3384.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3384.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1233 | 1233  | 1233 | 1233  | 1233 |      |
| 5°  | 1230 | 1230  | 1228 | 1236  | 1237 | 117  |
| 15° | 1180 | 1189  | 1203 | 1224  | 1228 | 333  |
| 25° | 1086 | 1103  | 1135 | 1168  | 1180 | 500  |
| 35° | 952  | 973   | 1012 | 1044  | 1052 | 595  |
| 45° | 781  | 802   | 832  | 852   | 852  | 602  |
| 55° | 591  | 601   | 613  | 616   | 610  | 526  |
| 65° | 378  | 382   | 379  | 366   | 358  | 375  |
| 75° | 180  | 180   | 168  | 148   | 142  | 191  |
| 85° | 35   | 38    | 41   | 42    | 42   | 43   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1232.8 | 1232.8 | 1232.8 | 1232.8 | 1232.8 |
| 2.5°  | 1234.3 | 1232.8 | 1228.3 | 1234.3 | 1234.3 |
| 5°    | 1229.8 | 1229.8 | 1228.3 | 1235.8 | 1237.3 |
| 7.5°  | 1220.7 | 1223.7 | 1225.3 | 1234.3 | 1235.8 |
| 10°   | 1211.7 | 1214.7 | 1220.7 | 1232.8 | 1235.8 |
| 12.5° | 1196.6 | 1202.6 | 1213.2 | 1229.8 | 1232.8 |
| 15°   | 1179.9 | 1189.0 | 1202.6 | 1223.7 | 1228.3 |
| 17.5° | 1160.3 | 1172.4 | 1190.5 | 1214.7 | 1222.2 |
| 20°   | 1137.6 | 1151.2 | 1175.4 | 1202.6 | 1211.7 |
| 22.5° | 1113.5 | 1128.6 | 1157.3 | 1189.0 | 1198.1 |
| 25°   | 1086.3 | 1102.9 | 1134.6 | 1167.8 | 1179.9 |
| 27.5° | 1056.0 | 1074.2 | 1108.9 | 1143.7 | 1154.2 |
| 30°   | 1022.8 | 1042.5 | 1080.2 | 1115.0 | 1124.0 |
| 32.5° | 989.6  | 1009.2 | 1048.5 | 1081.7 | 1092.3 |
| 35°   | 951.8  | 973.0  | 1012.2 | 1044.0 | 1051.5 |
| 37.5° | 911.0  | 932.2  | 971.4  | 1003.2 | 1006.2 |
| 40°   | 870.2  | 891.4  | 927.6  | 956.3  | 959.4  |
| 42.5° | 827.9  | 847.6  | 880.8  | 905.0  | 908.0  |
| 45°   | 781.1  | 802.2  | 832.4  | 852.1  | 852.1  |
| 47.5° | 734.2  | 755.4  | 781.1  | 794.7  | 794.7  |
| 50°   | 685.9  | 705.5  | 726.7  | 734.2  | 732.7  |
| 52.5° | 637.6  | 655.7  | 673.8  | 675.3  | 672.3  |
| 55°   | 590.7  | 601.3  | 613.4  | 616.4  | 610.4  |
| 57.5° | 539.4  | 548.4  | 556.0  | 551.4  | 546.9  |
| 60°   | 485.0  | 494.0  | 495.5  | 488.0  | 483.5  |
| 62.5° | 432.1  | 439.6  | 439.6  | 427.6  | 420.0  |
| 65°   | 377.7  | 382.2  | 379.2  | 365.6  | 358.1  |
| 67.5° | 326.3  | 329.4  | 323.3  | 309.7  | 297.6  |
| 70°   | 273.5  | 275.0  | 267.4  | 250.8  | 243.2  |
| 72.5° | 225.1  | 226.6  | 217.6  | 197.9  | 188.8  |
| 75°   | 179.8  | 179.8  | 167.7  | 148.1  | 142.0  |
| 77.5° | 134.5  | 139.0  | 125.4  | 114.8  | 114.8  |
| 80°   | 96.7   | 101.2  | 87.6   | 89.1   | 87.6   |
| 82.5° | 63.5   | 68.0   | 63.5   | 63.5   | 63.5   |
| 85°   | 34.7   | 37.8   | 40.8   | 42.3   | 42.3   |
| 87.5° | 10.6   | 18.1   | 19.6   | 21.2   | 24.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)