

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: P257288

Luminaire Tested: **D3X-WD-35L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF  
Light Source: (126) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3226.7 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

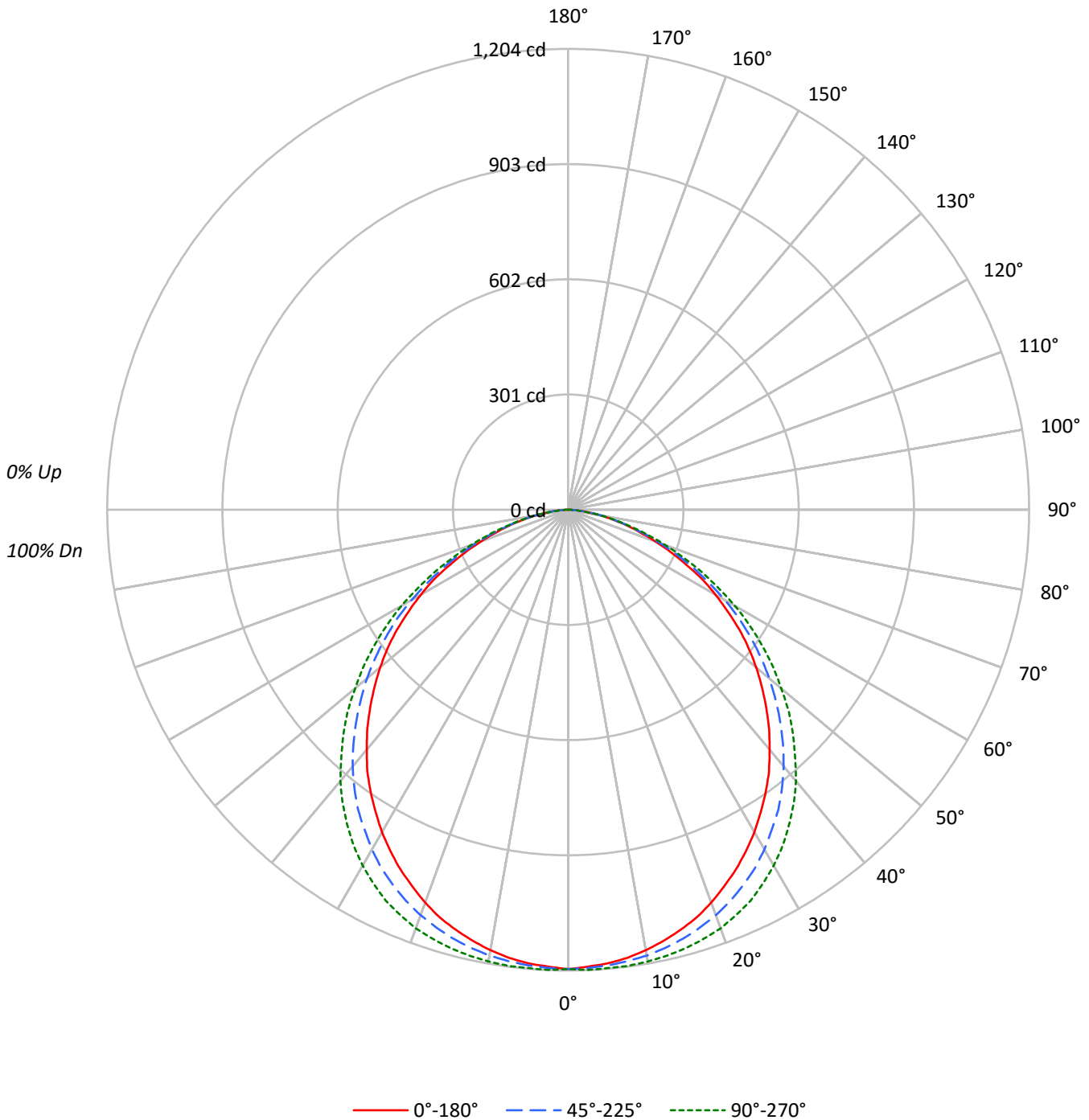
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 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  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3229 | 3229 | 3229 |
| 5°  | 3214 | 3228 | 3247 |
| 10° | 3194 | 3232 | 3275 |
| 15° | 3165 | 3232 | 3305 |
| 20° | 3129 | 3228 | 3332 |
| 25° | 3079 | 3213 | 3347 |
| 30° | 3022 | 3184 | 3335 |
| 35° | 2956 | 3144 | 3303 |
| 40° | 2873 | 3075 | 3252 |
| 45° | 2783 | 2981 | 3159 |
| 50° | 2683 | 2872 | 3039 |
| 55° | 2559 | 2730 | 2901 |
| 60° | 2393 | 2542 | 2711 |
| 65° | 2167 | 2301 | 2444 |
| 70° | 1913 | 2009 | 2118 |
| 75° | 1644 | 1679 | 1752 |
| 80° | 1319 | 1345 | 1373 |
| 85° | 966  | 858  | 858  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.7  | 3.5       |
| 10°-20°   | 327.6  | 10.2      |
| 20°-30°   | 498.3  | 15.4      |
| 30°-40°   | 596.2  | 18.5      |
| 40°-50°   | 602.7  | 18.7      |
| 50°-60°   | 518.7  | 16.1      |
| 60°-70°   | 358.1  | 11.1      |
| 70°-80°   | 173.6  | 5.4       |
| 80°-90°   | 37.7   | 1.2       |
| 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°    | 939.7  | 29.1      |
| 0°-40°    | 1535.9 | 47.6      |
| 0°-60°    | 2657.3 | 82.4      |
| 0°-90°    | 3226.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3226.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1200 | 1200  | 1200 | 1200  | 1200 |      |
| 5°  | 1190 | 1192  | 1195 | 1200  | 1202 | 113  |
| 15° | 1136 | 1143  | 1160 | 1178  | 1186 | 320  |
| 25° | 1037 | 1049  | 1082 | 1115  | 1127 | 477  |
| 35° | 900  | 915   | 957  | 992   | 1006 | 562  |
| 45° | 731  | 745   | 783  | 816   | 830  | 564  |
| 55° | 545  | 554   | 582  | 608   | 618  | 486  |
| 65° | 340  | 346   | 361  | 377   | 384  | 339  |
| 75° | 158  | 155   | 162  | 167   | 168  | 168  |
| 85° | 31   | 31    | 28   | 28    | 28   | 38   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 |
| 2.5°  | 1194.9 | 1194.9 | 1198.4 | 1201.9 | 1203.6 |
| 5°    | 1189.7 | 1191.5 | 1194.9 | 1200.1 | 1201.9 |
| 7.5°  | 1181.0 | 1182.8 | 1189.7 | 1198.4 | 1201.9 |
| 10°   | 1168.9 | 1172.4 | 1182.8 | 1193.2 | 1198.4 |
| 12.5° | 1153.3 | 1160.2 | 1172.4 | 1186.2 | 1193.2 |
| 15°   | 1135.9 | 1142.8 | 1160.2 | 1177.6 | 1186.2 |
| 17.5° | 1116.8 | 1123.7 | 1144.6 | 1167.1 | 1175.8 |
| 20°   | 1092.5 | 1102.9 | 1127.2 | 1153.3 | 1163.7 |
| 22.5° | 1064.7 | 1078.6 | 1106.4 | 1134.1 | 1146.3 |
| 25°   | 1036.9 | 1049.0 | 1082.0 | 1115.0 | 1127.2 |
| 27.5° | 1005.6 | 1019.5 | 1056.0 | 1089.0 | 1101.1 |
| 30°   | 972.6  | 986.5  | 1024.7 | 1061.2 | 1073.4 |
| 32.5° | 936.1  | 953.5  | 990.0  | 1028.2 | 1042.1 |
| 35°   | 899.7  | 915.3  | 957.0  | 991.7  | 1005.6 |
| 37.5° | 861.5  | 875.4  | 917.0  | 953.5  | 967.4  |
| 40°   | 818.0  | 833.7  | 875.4  | 911.8  | 925.7  |
| 42.5° | 776.4  | 792.0  | 830.2  | 864.9  | 877.1  |
| 45°   | 731.2  | 745.1  | 783.3  | 816.3  | 830.2  |
| 47.5° | 686.0  | 701.7  | 734.7  | 767.7  | 781.6  |
| 50°   | 640.9  | 653.0  | 686.0  | 717.3  | 726.0  |
| 52.5° | 594.0  | 604.4  | 633.9  | 661.7  | 673.9  |
| 55°   | 545.4  | 554.0  | 581.8  | 607.9  | 618.3  |
| 57.5° | 493.3  | 503.7  | 529.7  | 548.8  | 561.0  |
| 60°   | 444.6  | 449.8  | 472.4  | 491.5  | 503.7  |
| 62.5° | 396.0  | 397.7  | 415.1  | 434.2  | 441.2  |
| 65°   | 340.4  | 345.6  | 361.3  | 376.9  | 383.8  |
| 67.5° | 290.0  | 295.3  | 307.4  | 319.6  | 324.8  |
| 70°   | 243.2  | 243.2  | 255.3  | 264.0  | 269.2  |
| 72.5° | 196.3  | 198.0  | 206.7  | 211.9  | 217.1  |
| 75°   | 158.1  | 154.6  | 161.5  | 166.7  | 168.5  |
| 77.5° | 118.1  | 116.4  | 121.6  | 123.3  | 126.8  |
| 80°   | 85.1   | 85.1   | 86.8   | 88.6   | 88.6   |
| 82.5° | 55.6   | 55.6   | 57.3   | 53.8   | 52.1   |
| 85°   | 31.3   | 31.3   | 27.8   | 27.8   | 27.8   |
| 87.5° | 10.4   | 10.4   | 10.4   | 12.2   | 10.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)