

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: P296919

Luminaire Tested: **D3X-WD-42L92765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-42L92765-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3384.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

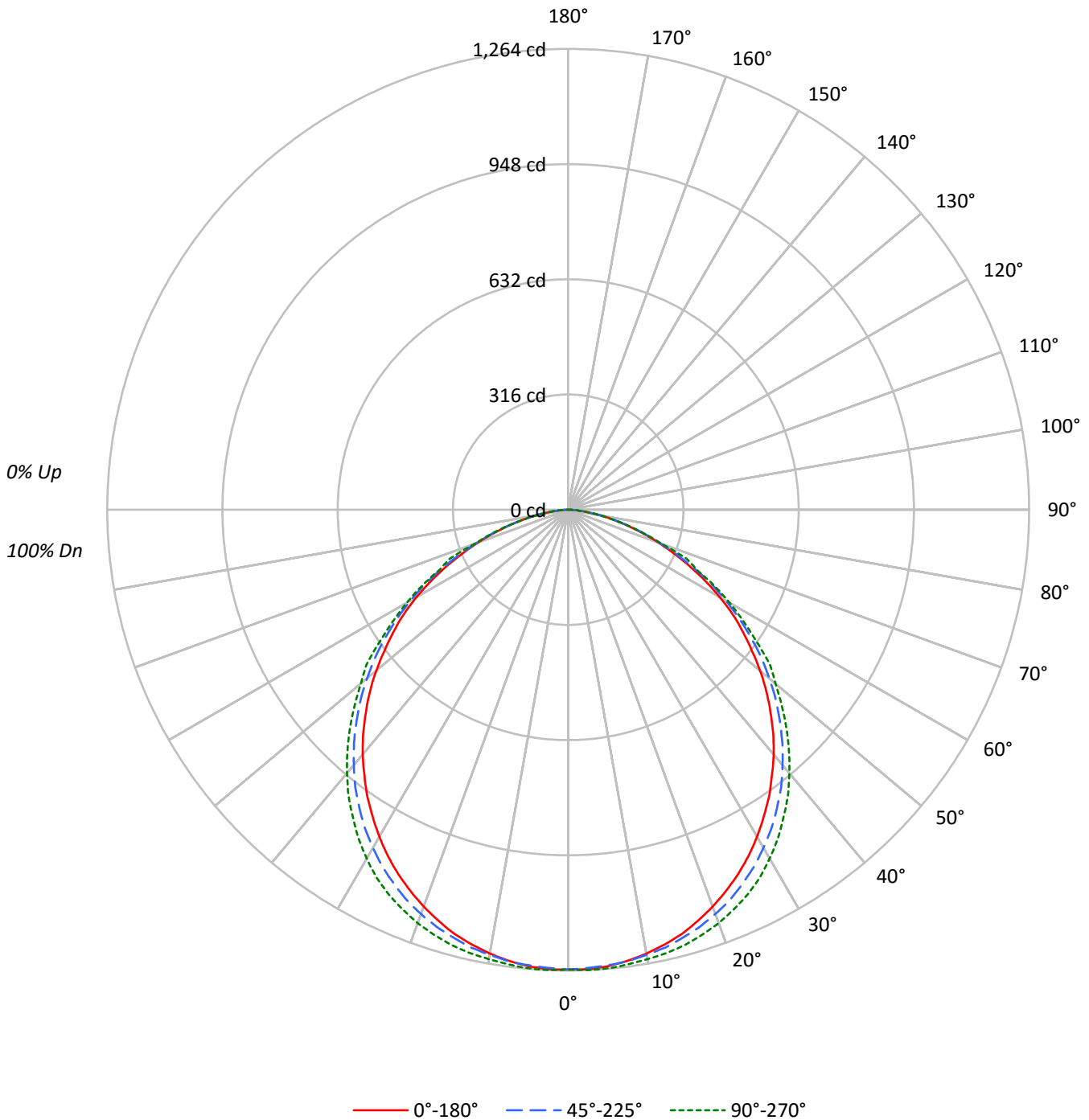
Input Watts (W): 29.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 94  | 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  | 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  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1697 | 1697 | 1697 |
| 5°  | 1697 | 1694 | 1705 |
| 10° | 1689 | 1694 | 1710 |
| 15° | 1678 | 1693 | 1722 |
| 20° | 1659 | 1690 | 1728 |
| 25° | 1637 | 1680 | 1729 |
| 30° | 1609 | 1664 | 1717 |
| 35° | 1577 | 1639 | 1691 |
| 40° | 1540 | 1606 | 1657 |
| 45° | 1493 | 1562 | 1610 |
| 50° | 1438 | 1507 | 1553 |
| 55° | 1373 | 1435 | 1478 |
| 60° | 1294 | 1343 | 1376 |
| 65° | 1175 | 1214 | 1237 |
| 70° | 1032 | 1055 | 1070 |
| 75° | 871  | 884  | 890  |
| 80° | 696  | 706  | 687  |
| 85° | 469  | 488  | 469  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.6  | 3.5       |
| 10°-20°   | 343.8  | 10.2      |
| 20°-30°   | 521.7  | 15.4      |
| 30°-40°   | 622.8  | 18.4      |
| 40°-50°   | 630.5  | 18.6      |
| 50°-60°   | 545.0  | 16.1      |
| 60°-70°   | 377.7  | 11.2      |
| 70°-80°   | 182.8  | 5.4       |
| 80°-90°   | 40.2   | 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°    | 985.0  | 29.1      |
| 0°-40°    | 1607.8 | 47.5      |
| 0°-60°    | 2783.3 | 82.2      |
| 0°-90°    | 3384.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3384.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1262 | 1262  | 1262 | 1262  | 1262 |      |
| 5°  | 1257 | 1256  | 1254 | 1260  | 1263 | 119  |
| 15° | 1204 | 1207  | 1215 | 1230  | 1236 | 339  |
| 25° | 1102 | 1110  | 1132 | 1155  | 1164 | 508  |
| 35° | 960  | 969   | 998  | 1024  | 1030 | 600  |
| 45° | 784  | 795   | 821  | 841   | 846  | 605  |
| 55° | 585  | 591   | 612  | 637   | 630  | 523  |
| 65° | 369  | 373   | 381  | 387   | 388  | 365  |
| 75° | 168  | 169   | 170  | 169   | 171  | 180  |
| 85° | 30   | 33    | 32   | 30    | 30   | 39   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1261.5 | 1261.5 | 1261.5 | 1261.5 | 1261.5 |
| 2.5°  | 1261.5 | 1260.3 | 1257.9 | 1261.5 | 1264.0 |
| 5°    | 1256.7 | 1255.5 | 1254.2 | 1260.3 | 1262.7 |
| 7.5°  | 1248.2 | 1248.2 | 1249.4 | 1255.5 | 1257.9 |
| 10°   | 1236.0 | 1237.2 | 1239.7 | 1249.4 | 1251.8 |
| 12.5° | 1221.5 | 1223.9 | 1230.0 | 1240.9 | 1245.7 |
| 15°   | 1204.5 | 1206.9 | 1215.4 | 1230.0 | 1236.0 |
| 17.5° | 1182.6 | 1187.5 | 1199.6 | 1216.6 | 1222.7 |
| 20°   | 1158.3 | 1164.4 | 1180.2 | 1199.6 | 1206.9 |
| 22.5° | 1131.6 | 1137.7 | 1158.3 | 1179.0 | 1186.3 |
| 25°   | 1102.5 | 1109.8 | 1131.6 | 1154.7 | 1164.4 |
| 27.5° | 1070.9 | 1079.4 | 1103.7 | 1128.0 | 1137.7 |
| 30°   | 1035.7 | 1045.4 | 1070.9 | 1096.4 | 1104.9 |
| 32.5° | 998.1  | 1007.8 | 1036.9 | 1061.2 | 1069.7 |
| 35°   | 960.4  | 968.9  | 998.1  | 1023.6 | 1029.6 |
| 37.5° | 917.9  | 927.6  | 959.2  | 981.1  | 989.6  |
| 40°   | 876.6  | 886.3  | 914.3  | 936.1  | 943.4  |
| 42.5° | 831.7  | 841.4  | 869.4  | 890.0  | 896.1  |
| 45°   | 784.4  | 795.3  | 820.8  | 841.4  | 846.3  |
| 47.5° | 737.0  | 745.5  | 772.2  | 790.4  | 794.1  |
| 50°   | 687.2  | 695.7  | 720.0  | 738.2  | 741.9  |
| 52.5° | 635.0  | 648.4  | 667.8  | 681.2  | 696.9  |
| 55°   | 585.2  | 591.3  | 611.9  | 637.4  | 630.2  |
| 57.5° | 535.5  | 539.1  | 556.1  | 567.0  | 569.4  |
| 60°   | 480.8  | 485.7  | 499.0  | 505.1  | 511.2  |
| 62.5° | 423.7  | 427.4  | 443.2  | 449.2  | 451.7  |
| 65°   | 369.1  | 372.8  | 381.3  | 387.3  | 388.5  |
| 67.5° | 313.3  | 316.9  | 324.2  | 329.0  | 350.9  |
| 70°   | 262.3  | 264.7  | 268.3  | 278.0  | 272.0  |
| 72.5° | 213.7  | 214.9  | 218.6  | 218.6  | 219.8  |
| 75°   | 167.6  | 168.8  | 170.0  | 168.8  | 171.2  |
| 77.5° | 125.1  | 127.5  | 128.7  | 127.5  | 126.3  |
| 80°   | 89.8   | 92.3   | 91.1   | 88.6   | 88.6   |
| 82.5° | 58.3   | 59.5   | 58.3   | 57.1   | 57.1   |
| 85°   | 30.4   | 32.8   | 31.6   | 30.4   | 30.4   |
| 87.5° | 10.9   | 12.1   | 13.4   | 14.6   | 14.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)