

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: P297322

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L82765-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3094.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

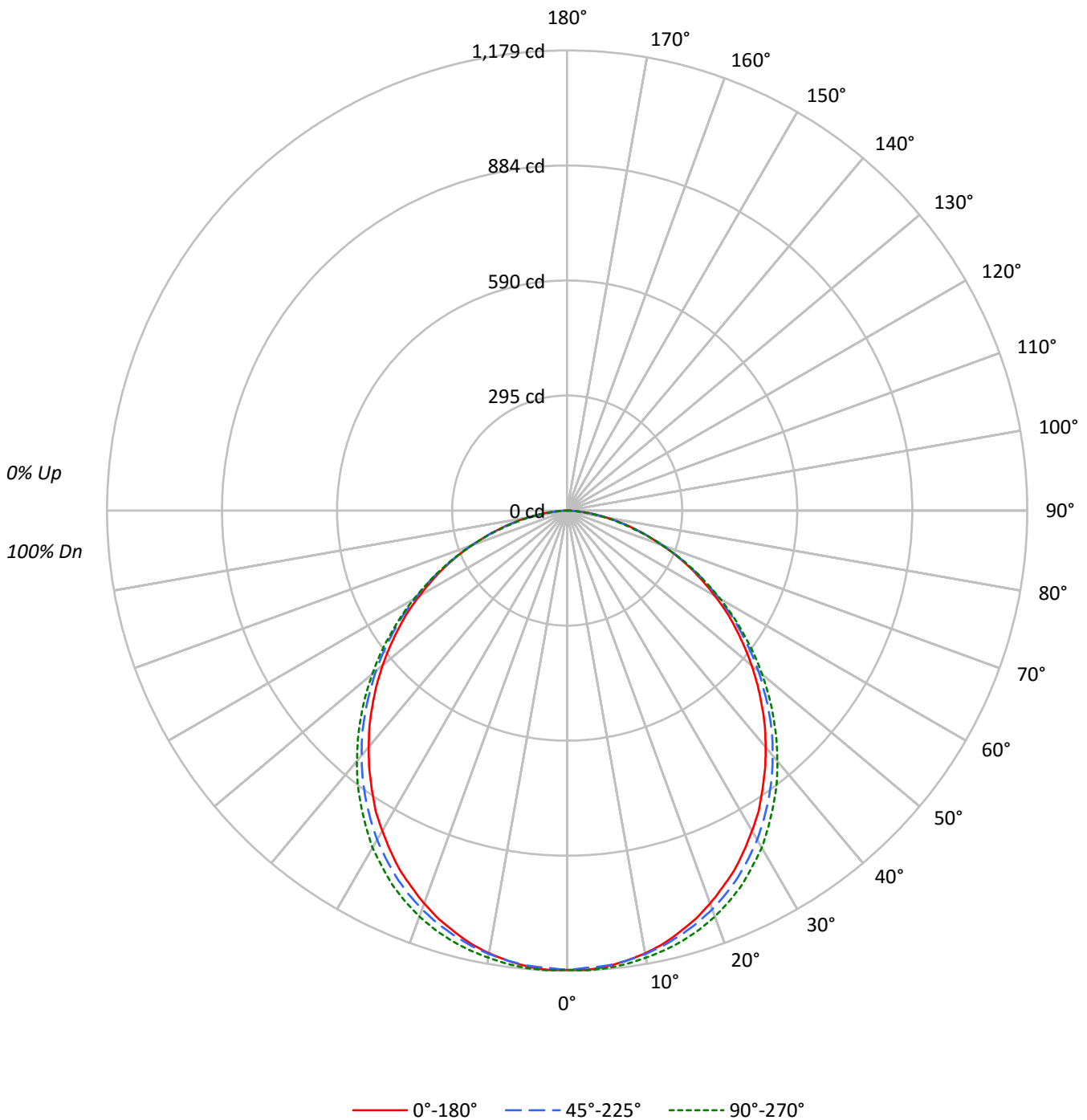
Input Watts (W): 21.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |
| 5   | 77  | 64  | 55  | 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  | 41  | 39  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 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°  | 1583 | 1583 | 1583 |
| 5°  | 1584 | 1581 | 1589 |
| 10° | 1574 | 1576 | 1589 |
| 15° | 1556 | 1568 | 1590 |
| 20° | 1534 | 1557 | 1585 |
| 25° | 1507 | 1538 | 1572 |
| 30° | 1472 | 1512 | 1550 |
| 35° | 1433 | 1479 | 1513 |
| 40° | 1389 | 1439 | 1472 |
| 45° | 1343 | 1392 | 1422 |
| 50° | 1292 | 1339 | 1364 |
| 55° | 1237 | 1276 | 1296 |
| 60° | 1175 | 1206 | 1220 |
| 65° | 1108 | 1125 | 1131 |
| 70° | 1017 | 1029 | 1017 |
| 75° | 915  | 910  | 883  |
| 80° | 776  | 767  | 743  |
| 85° | 579  | 563  | 499  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.4  | 3.6       |
| 10°-20°   | 318.3  | 10.3      |
| 20°-30°   | 477.2  | 15.4      |
| 30°-40°   | 562.0  | 18.2      |
| 40°-50°   | 562.1  | 18.2      |
| 50°-60°   | 484.9  | 15.7      |
| 60°-70°   | 349.0  | 11.3      |
| 70°-80°   | 185.1  | 6.0       |
| 80°-90°   | 44.1   | 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°    | 906.8  | 29.3      |
| 0°-40°    | 1468.8 | 47.5      |
| 0°-60°    | 2515.8 | 81.3      |
| 0°-90°    | 3094.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3094.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1177 | 1177  | 1177 | 1177  | 1177 |      |
| 5°  | 1172 | 1172  | 1170 | 1175  | 1177 | 111  |
| 15° | 1117 | 1120  | 1126 | 1137  | 1141 | 315  |
| 25° | 1015 | 1021  | 1036 | 1054  | 1059 | 467  |
| 35° | 872  | 883   | 900  | 916   | 921  | 546  |
| 45° | 706  | 715   | 732  | 744   | 747  | 544  |
| 55° | 527  | 533   | 544  | 553   | 552  | 472  |
| 65° | 348  | 349   | 353  | 355   | 355  | 344  |
| 75° | 176  | 174   | 175  | 171   | 170  | 187  |
| 85° | 38   | 38    | 36   | 33    | 32   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1176.7 |
| 2.5°  | 1177.7 | 1175.7 | 1172.5 | 1176.7 | 1178.8 |
| 5°    | 1172.5 | 1171.5 | 1170.5 | 1174.6 | 1176.7 |
| 7.5°  | 1163.2 | 1164.2 | 1163.2 | 1169.4 | 1171.5 |
| 10°   | 1151.7 | 1152.7 | 1153.8 | 1161.1 | 1163.2 |
| 12.5° | 1137.1 | 1138.1 | 1141.3 | 1150.6 | 1153.8 |
| 15°   | 1117.3 | 1120.4 | 1125.6 | 1137.1 | 1141.3 |
| 17.5° | 1096.5 | 1100.6 | 1107.9 | 1121.5 | 1125.6 |
| 20°   | 1071.4 | 1076.6 | 1087.1 | 1101.7 | 1106.9 |
| 22.5° | 1043.3 | 1048.5 | 1063.1 | 1078.7 | 1083.9 |
| 25°   | 1015.2 | 1021.4 | 1036.0 | 1053.7 | 1058.9 |
| 27.5° | 981.8  | 990.1  | 1005.8 | 1023.5 | 1027.7 |
| 30°   | 947.4  | 954.7  | 973.5  | 990.1  | 997.4  |
| 32.5° | 913.0  | 920.3  | 938.0  | 954.7  | 959.9  |
| 35°   | 872.4  | 882.8  | 900.5  | 916.1  | 921.4  |
| 37.5° | 832.8  | 842.1  | 860.9  | 876.5  | 881.7  |
| 40°   | 791.1  | 799.4  | 819.2  | 833.8  | 838.0  |
| 42.5° | 749.4  | 757.7  | 777.5  | 789.0  | 793.2  |
| 45°   | 705.6  | 715.0  | 731.7  | 744.2  | 747.3  |
| 47.5° | 661.8  | 669.1  | 684.8  | 696.2  | 700.4  |
| 50°   | 617.0  | 624.3  | 639.9  | 649.3  | 651.4  |
| 52.5° | 572.2  | 577.4  | 592.0  | 600.3  | 603.5  |
| 55°   | 527.4  | 532.6  | 544.1  | 553.4  | 552.4  |
| 57.5° | 484.6  | 486.7  | 498.2  | 504.5  | 504.5  |
| 60°   | 436.7  | 438.8  | 448.2  | 452.3  | 453.4  |
| 62.5° | 391.9  | 395.0  | 402.3  | 403.4  | 403.4  |
| 65°   | 348.1  | 349.2  | 353.3  | 355.4  | 355.4  |
| 67.5° | 304.3  | 303.3  | 307.5  | 307.5  | 306.4  |
| 70°   | 258.5  | 260.6  | 261.6  | 259.5  | 258.5  |
| 72.5° | 216.8  | 215.7  | 215.7  | 214.7  | 214.7  |
| 75°   | 176.1  | 174.1  | 175.1  | 170.9  | 169.9  |
| 77.5° | 138.6  | 135.5  | 134.5  | 132.4  | 130.3  |
| 80°   | 100.1  | 100.1  | 99.0   | 96.9   | 95.9   |
| 82.5° | 66.7   | 66.7   | 65.7   | 63.6   | 61.5   |
| 85°   | 37.5   | 37.5   | 36.5   | 33.4   | 32.3   |
| 87.5° | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)