

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: P298379

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L82765-LD5-UNV-22-T1-W2A-6500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4185.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

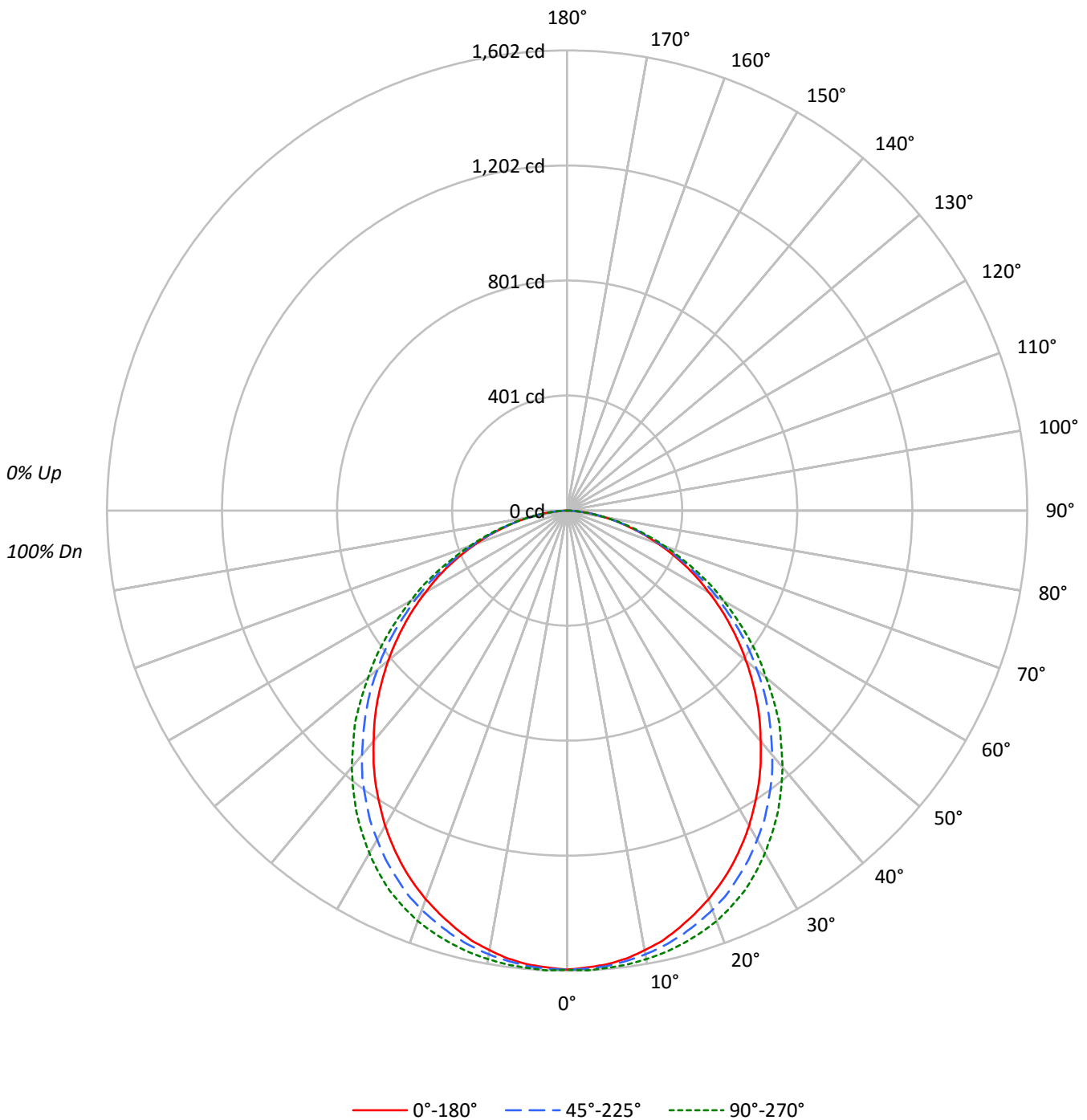
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 4301 | 4301 | 4301 |
| 5°  | 4283 | 4300 | 4317 |
| 10° | 4248 | 4287 | 4333 |
| 15° | 4191 | 4267 | 4348 |
| 20° | 4123 | 4237 | 4356 |
| 25° | 4040 | 4182 | 4337 |
| 30° | 3937 | 4112 | 4280 |
| 35° | 3820 | 4018 | 4203 |
| 40° | 3682 | 3901 | 4099 |
| 45° | 3553 | 3767 | 3973 |
| 50° | 3402 | 3612 | 3786 |
| 55° | 3246 | 3441 | 3607 |
| 60° | 3062 | 3241 | 3387 |
| 65° | 2893 | 2998 | 3144 |
| 70° | 2656 | 2738 | 2836 |
| 75° | 2361 | 2427 | 2491 |
| 80° | 2035 | 2002 | 2002 |
| 85° | 1544 | 1414 | 1288 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.2  | 3.6       |
| 10°-20°   | 432.1  | 10.3      |
| 20°-30°   | 648.8  | 15.5      |
| 30°-40°   | 763.6  | 18.2      |
| 40°-50°   | 761.7  | 18.2      |
| 50°-60°   | 653.6  | 15.6      |
| 60°-70°   | 468.1  | 11.2      |
| 70°-80°   | 247.9  | 5.9       |
| 80°-90°   | 58.0   | 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°    | 1232.1 | 29.4      |
| 0°-40°    | 1995.8 | 47.7      |
| 0°-60°    | 3411.0 | 81.5      |
| 0°-90°    | 4185.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4185.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1598 | 1598  | 1598 | 1598  | 1598 |      |
| 5°  | 1586 | 1586  | 1592 | 1596  | 1598 | 150  |
| 15° | 1504 | 1511  | 1532 | 1552  | 1561 | 424  |
| 25° | 1361 | 1373  | 1409 | 1444  | 1461 | 626  |
| 35° | 1163 | 1177  | 1223 | 1265  | 1279 | 726  |
| 45° | 934  | 948   | 990  | 1025  | 1044 | 719  |
| 55° | 692  | 702   | 734  | 758   | 769  | 618  |
| 65° | 454  | 456   | 471  | 490   | 494  | 449  |
| 75° | 227  | 227   | 233  | 238   | 240  | 244  |
| 85° | 50   | 48    | 46   | 42    | 42   | 60   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1598.2 | 1598.2 | 1598.2 | 1598.2 | 1598.2 |
| 2.5°  | 1592.0 | 1592.0 | 1596.1 | 1600.3 | 1602.4 |
| 5°    | 1585.7 | 1585.7 | 1592.0 | 1596.1 | 1598.2 |
| 7.5°  | 1573.2 | 1573.2 | 1581.5 | 1589.9 | 1594.0 |
| 10°   | 1554.5 | 1558.6 | 1569.0 | 1581.5 | 1585.7 |
| 12.5° | 1533.6 | 1537.8 | 1552.4 | 1569.0 | 1575.3 |
| 15°   | 1504.4 | 1510.7 | 1531.5 | 1552.4 | 1560.7 |
| 17.5° | 1473.2 | 1481.5 | 1506.5 | 1531.5 | 1542.0 |
| 20°   | 1439.9 | 1448.2 | 1479.4 | 1508.6 | 1521.1 |
| 22.5° | 1402.3 | 1412.8 | 1448.2 | 1479.4 | 1491.9 |
| 25°   | 1360.7 | 1373.2 | 1408.6 | 1444.0 | 1460.7 |
| 27.5° | 1314.8 | 1329.4 | 1369.0 | 1406.5 | 1421.1 |
| 30°   | 1266.9 | 1283.6 | 1323.2 | 1362.8 | 1377.3 |
| 32.5° | 1214.8 | 1229.4 | 1277.3 | 1314.8 | 1329.4 |
| 35°   | 1162.7 | 1177.3 | 1223.1 | 1264.8 | 1279.4 |
| 37.5° | 1106.5 | 1125.2 | 1171.1 | 1208.6 | 1223.1 |
| 40°   | 1048.1 | 1066.9 | 1110.6 | 1154.4 | 1166.9 |
| 42.5° | 991.9  | 1008.5 | 1050.2 | 1089.8 | 1102.3 |
| 45°   | 933.5  | 948.1  | 989.8  | 1025.2 | 1043.9 |
| 47.5° | 873.1  | 887.7  | 929.3  | 962.7  | 973.1  |
| 50°   | 812.7  | 827.2  | 862.7  | 891.8  | 904.3  |
| 52.5° | 752.2  | 766.8  | 800.1  | 827.2  | 839.7  |
| 55°   | 691.8  | 702.2  | 733.5  | 758.5  | 768.9  |
| 57.5° | 631.4  | 639.7  | 664.7  | 691.8  | 698.0  |
| 60°   | 568.9  | 579.3  | 602.2  | 620.9  | 629.3  |
| 62.5° | 512.6  | 516.8  | 537.6  | 554.3  | 564.7  |
| 65°   | 454.3  | 456.3  | 470.9  | 489.7  | 493.8  |
| 67.5° | 393.8  | 395.9  | 410.5  | 420.9  | 425.1  |
| 70°   | 337.6  | 337.6  | 348.0  | 356.3  | 360.5  |
| 72.5° | 283.4  | 281.3  | 287.6  | 295.9  | 300.1  |
| 75°   | 227.1  | 227.1  | 233.4  | 237.5  | 239.6  |
| 77.5° | 179.2  | 175.0  | 179.2  | 183.4  | 183.4  |
| 80°   | 131.3  | 129.2  | 129.2  | 131.3  | 129.2  |
| 82.5° | 89.6   | 87.5   | 89.6   | 85.4   | 83.3   |
| 85°   | 50.0   | 47.9   | 45.8   | 41.7   | 41.7   |
| 87.5° | 16.7   | 14.6   | 14.6   | 16.7   | 16.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)