

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: P297890

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
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-14-T1-W2A-2700K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3723.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

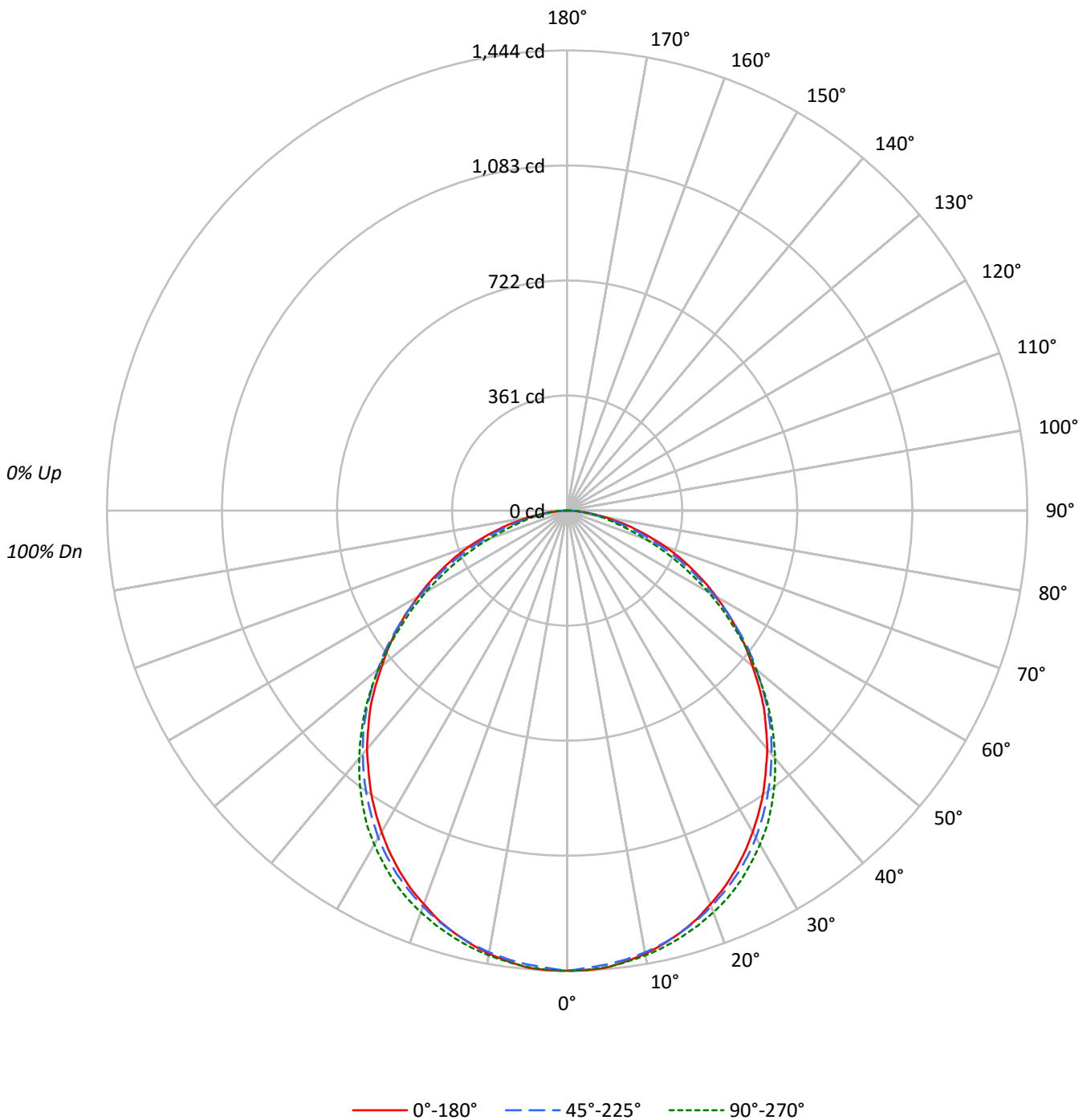
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 95  | 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  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3886 | 3886 | 3886 |
| 5°  | 3888 | 3862 | 3884 |
| 10° | 3860 | 3847 | 3872 |
| 15° | 3821 | 3821 | 3860 |
| 20° | 3765 | 3787 | 3841 |
| 25° | 3702 | 3744 | 3814 |
| 30° | 3619 | 3683 | 3761 |
| 35° | 3530 | 3598 | 3681 |
| 40° | 3432 | 3504 | 3565 |
| 45° | 3321 | 3393 | 3424 |
| 50° | 3178 | 3244 | 3231 |
| 55° | 3058 | 3080 | 2999 |
| 60° | 2905 | 2862 | 2752 |
| 65° | 2743 | 2633 | 2452 |
| 70° | 2545 | 2334 | 2074 |
| 75° | 2264 | 2001 | 1706 |
| 80° | 1883 | 1638 | 1590 |
| 85° | 1365 | 1460 | 1460 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.3  | 3.7       |
| 10°-20°   | 388.2  | 10.4      |
| 20°-30°   | 581.8  | 15.6      |
| 30°-40°   | 685.5  | 18.4      |
| 40°-50°   | 683.7  | 18.4      |
| 50°-60°   | 581.5  | 15.6      |
| 60°-70°   | 405.9  | 10.9      |
| 70°-80°   | 206.3  | 5.5       |
| 80°-90°   | 53.9   | 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°    | 1106.3 | 29.7      |
| 0°-40°    | 1791.7 | 48.1      |
| 0°-60°    | 3056.9 | 82.1      |
| 0°-90°    | 3723.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3723.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1444 | 1444  | 1444 | 1444  | 1444 |      |
| 5°  | 1439 | 1436  | 1430 | 1438  | 1438 | 136  |
| 15° | 1371 | 1371  | 1371 | 1384  | 1386 | 387  |
| 25° | 1247 | 1248  | 1261 | 1280  | 1285 | 574  |
| 35° | 1075 | 1076  | 1095 | 1117  | 1120 | 671  |
| 45° | 873  | 876   | 892  | 898   | 900  | 671  |
| 55° | 652  | 652   | 656  | 647   | 639  | 582  |
| 65° | 431  | 424   | 414  | 391   | 385  | 427  |
| 75° | 218  | 210   | 192  | 169   | 164  | 231  |
| 85° | 44   | 46    | 47   | 47    | 47   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1444.0 | 1444.0 | 1444.0 | 1444.0 | 1444.0 |
| 2.5°  | 1444.0 | 1442.4 | 1436.1 | 1442.4 | 1442.4 |
| 5°    | 1439.3 | 1436.1 | 1429.8 | 1437.7 | 1437.7 |
| 7.5°  | 1426.7 | 1425.1 | 1420.4 | 1428.2 | 1428.2 |
| 10°   | 1412.5 | 1410.9 | 1407.7 | 1417.2 | 1417.2 |
| 12.5° | 1393.5 | 1393.5 | 1391.9 | 1401.4 | 1403.0 |
| 15°   | 1371.4 | 1371.4 | 1371.4 | 1384.1 | 1385.6 |
| 17.5° | 1346.2 | 1344.6 | 1349.3 | 1363.5 | 1365.1 |
| 20°   | 1314.6 | 1316.2 | 1322.5 | 1338.3 | 1341.4 |
| 22.5° | 1283.0 | 1284.6 | 1292.5 | 1311.5 | 1316.2 |
| 25°   | 1246.8 | 1248.3 | 1261.0 | 1279.9 | 1284.6 |
| 27.5° | 1207.3 | 1210.5 | 1224.7 | 1245.2 | 1248.3 |
| 30°   | 1164.7 | 1167.8 | 1185.2 | 1205.7 | 1210.5 |
| 32.5° | 1120.5 | 1125.2 | 1141.0 | 1163.1 | 1169.4 |
| 35°   | 1074.7 | 1076.3 | 1095.2 | 1117.3 | 1120.5 |
| 37.5° | 1024.2 | 1029.0 | 1047.9 | 1066.8 | 1070.0 |
| 40°   | 976.9  | 980.0  | 997.4  | 1013.2 | 1014.8 |
| 42.5° | 923.2  | 928.0  | 946.9  | 957.9  | 957.9  |
| 45°   | 872.7  | 875.9  | 891.7  | 898.0  | 899.6  |
| 47.5° | 815.9  | 819.1  | 833.3  | 836.4  | 836.4  |
| 50°   | 759.1  | 767.0  | 774.9  | 774.9  | 771.7  |
| 52.5° | 707.0  | 708.6  | 718.1  | 711.8  | 708.6  |
| 55°   | 651.8  | 651.8  | 656.5  | 647.0  | 639.2  |
| 57.5° | 596.5  | 596.5  | 596.5  | 583.9  | 577.6  |
| 60°   | 539.7  | 538.2  | 531.8  | 516.1  | 511.3  |
| 62.5° | 486.1  | 481.3  | 471.9  | 456.1  | 446.6  |
| 65°   | 430.8  | 424.5  | 413.5  | 391.4  | 385.1  |
| 67.5° | 378.8  | 367.7  | 355.1  | 334.6  | 323.5  |
| 70°   | 323.5  | 314.1  | 296.7  | 273.0  | 263.6  |
| 72.5° | 269.9  | 260.4  | 246.2  | 222.5  | 208.3  |
| 75°   | 217.8  | 209.9  | 192.5  | 168.9  | 164.1  |
| 77.5° | 167.3  | 162.6  | 145.2  | 134.1  | 132.6  |
| 80°   | 121.5  | 119.9  | 105.7  | 102.6  | 102.6  |
| 82.5° | 80.5   | 78.9   | 74.2   | 74.2   | 72.6   |
| 85°   | 44.2   | 45.8   | 47.3   | 47.3   | 47.3   |
| 87.5° | 15.8   | 18.9   | 22.1   | 22.1   | 22.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)