

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: P297426

Luminaire Tested: **D3X-WO-45L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297426  
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-45L93050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4174.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

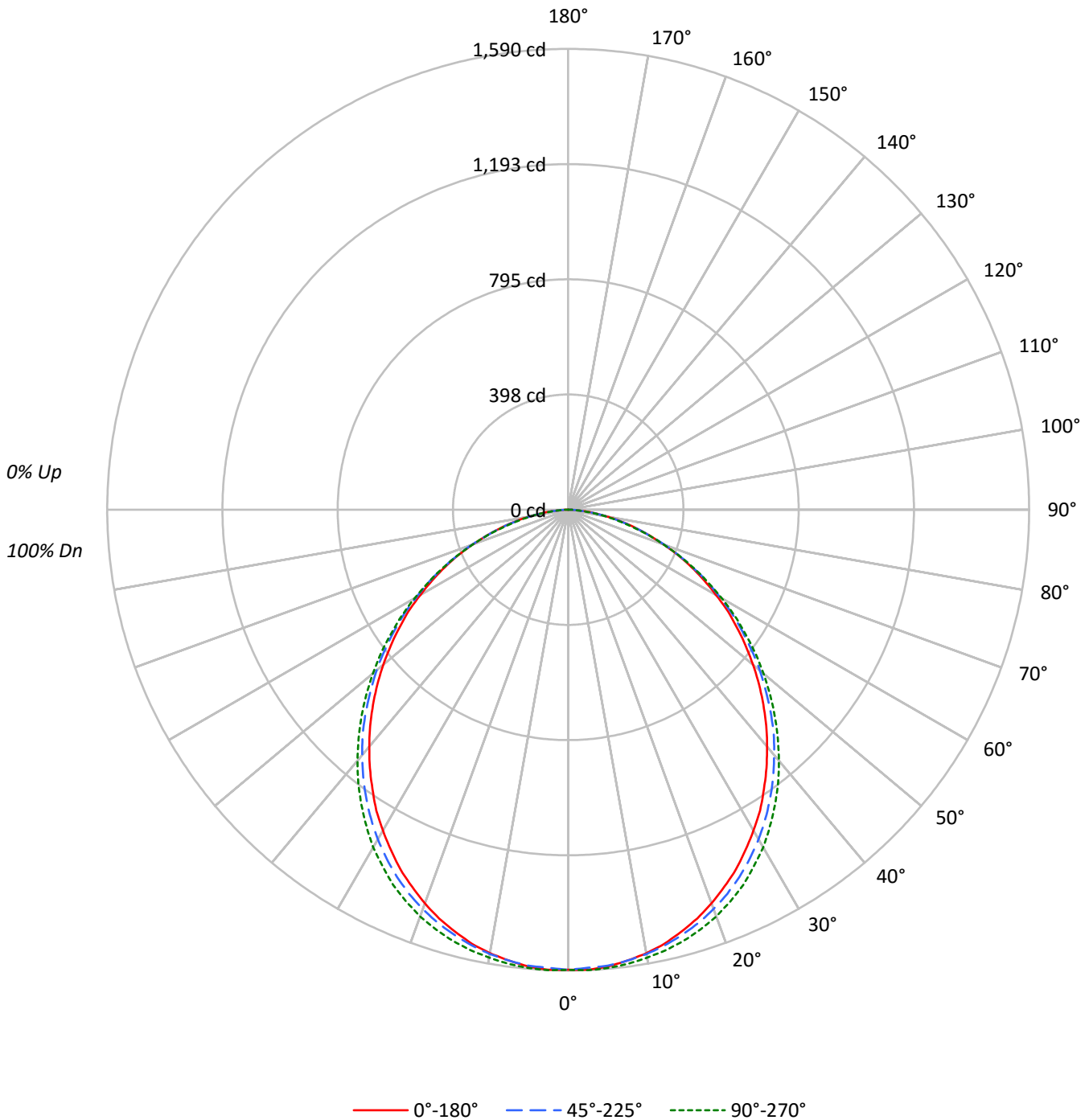
Input Watts (W): 32.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 2136 | 2136 | 2136 |
| 5°  | 2136 | 2133 | 2144 |
| 10° | 2123 | 2127 | 2144 |
| 15° | 2100 | 2115 | 2145 |
| 20° | 2070 | 2100 | 2138 |
| 25° | 2033 | 2075 | 2121 |
| 30° | 1986 | 2040 | 2091 |
| 35° | 1933 | 1995 | 2042 |
| 40° | 1874 | 1941 | 1986 |
| 45° | 1811 | 1878 | 1918 |
| 50° | 1742 | 1807 | 1840 |
| 55° | 1669 | 1722 | 1748 |
| 60° | 1585 | 1627 | 1646 |
| 65° | 1495 | 1518 | 1527 |
| 70° | 1372 | 1388 | 1372 |
| 75° | 1235 | 1228 | 1192 |
| 80° | 1046 | 1035 | 1003 |
| 85° | 781  | 760  | 673  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.3  | 3.6       |
| 10°-20°   | 429.3  | 10.3      |
| 20°-30°   | 643.7  | 15.4      |
| 30°-40°   | 758.1  | 18.2      |
| 40°-50°   | 758.2  | 18.2      |
| 50°-60°   | 654.2  | 15.7      |
| 60°-70°   | 470.8  | 11.3      |
| 70°-80°   | 249.7  | 6.0       |
| 80°-90°   | 59.6   | 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°    | 1223.4 | 29.3      |
| 0°-40°    | 1981.5 | 47.5      |
| 0°-60°    | 3394.0 | 81.3      |
| 0°-90°    | 4174.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4174.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1587 | 1587  | 1587 | 1587  | 1587 |      |
| 5°  | 1582 | 1580  | 1579 | 1585  | 1587 | 150  |
| 15° | 1507 | 1512  | 1519 | 1534  | 1540 | 425  |
| 25° | 1370 | 1378  | 1398 | 1422  | 1429 | 630  |
| 35° | 1177 | 1191  | 1215 | 1236  | 1243 | 736  |
| 45° | 952  | 965   | 987  | 1004  | 1008 | 734  |
| 55° | 712  | 718   | 734  | 747   | 745  | 637  |
| 65° | 470  | 471   | 477  | 480   | 480  | 464  |
| 75° | 238  | 235   | 236  | 231   | 229  | 253  |
| 85° | 51   | 51    | 49   | 45    | 44   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1587.4 | 1587.4 | 1587.4 | 1587.4 | 1587.4 |
| 2.5°  | 1588.9 | 1586.0 | 1581.8 | 1587.4 | 1590.3 |
| 5°    | 1581.8 | 1580.4 | 1579.0 | 1584.6 | 1587.4 |
| 7.5°  | 1569.2 | 1570.6 | 1569.2 | 1577.6 | 1580.4 |
| 10°   | 1553.7 | 1555.1 | 1556.5 | 1566.4 | 1569.2 |
| 12.5° | 1534.0 | 1535.4 | 1539.6 | 1552.3 | 1556.5 |
| 15°   | 1507.3 | 1511.5 | 1518.6 | 1534.0 | 1539.6 |
| 17.5° | 1479.2 | 1484.8 | 1494.6 | 1512.9 | 1518.6 |
| 20°   | 1445.4 | 1452.5 | 1466.5 | 1486.2 | 1493.2 |
| 22.5° | 1407.5 | 1414.5 | 1434.2 | 1455.3 | 1462.3 |
| 25°   | 1369.5 | 1377.9 | 1397.6 | 1421.5 | 1428.6 |
| 27.5° | 1324.5 | 1335.8 | 1356.9 | 1380.8 | 1386.4 |
| 30°   | 1278.1 | 1288.0 | 1313.3 | 1335.8 | 1345.6 |
| 32.5° | 1231.7 | 1241.6 | 1265.5 | 1288.0 | 1295.0 |
| 35°   | 1176.9 | 1190.9 | 1214.8 | 1235.9 | 1243.0 |
| 37.5° | 1123.4 | 1136.1 | 1161.4 | 1182.5 | 1189.5 |
| 40°   | 1067.2 | 1078.5 | 1105.2 | 1124.9 | 1130.5 |
| 42.5° | 1011.0 | 1022.2 | 1048.9 | 1064.4 | 1070.0 |
| 45°   | 951.9  | 964.6  | 987.1  | 1003.9 | 1008.1 |
| 47.5° | 892.9  | 902.7  | 923.8  | 939.3  | 944.9  |
| 50°   | 832.4  | 842.2  | 863.3  | 876.0  | 878.8  |
| 52.5° | 771.9  | 779.0  | 798.6  | 809.9  | 814.1  |
| 55°   | 711.5  | 718.5  | 734.0  | 746.6  | 745.2  |
| 57.5° | 653.8  | 656.6  | 672.1  | 680.5  | 680.5  |
| 60°   | 589.1  | 592.0  | 604.6  | 610.2  | 611.6  |
| 62.5° | 528.7  | 532.9  | 542.7  | 544.1  | 544.1  |
| 65°   | 469.6  | 471.0  | 476.7  | 479.5  | 479.5  |
| 67.5° | 410.6  | 409.2  | 414.8  | 414.8  | 413.4  |
| 70°   | 348.7  | 351.5  | 352.9  | 350.1  | 348.7  |
| 72.5° | 292.5  | 291.1  | 291.1  | 289.6  | 289.6  |
| 75°   | 237.6  | 234.8  | 236.2  | 230.6  | 229.2  |
| 77.5° | 187.0  | 182.8  | 181.4  | 178.6  | 175.8  |
| 80°   | 135.0  | 135.0  | 133.6  | 130.8  | 129.4  |
| 82.5° | 90.0   | 90.0   | 88.6   | 85.8   | 83.0   |
| 85°   | 50.6   | 50.6   | 49.2   | 45.0   | 43.6   |
| 87.5° | 16.9   | 16.9   | 16.9   | 16.9   | 16.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)