

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: P296936

Luminaire Tested: **D3X-WD-50L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296936  
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-50L92765-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3818.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

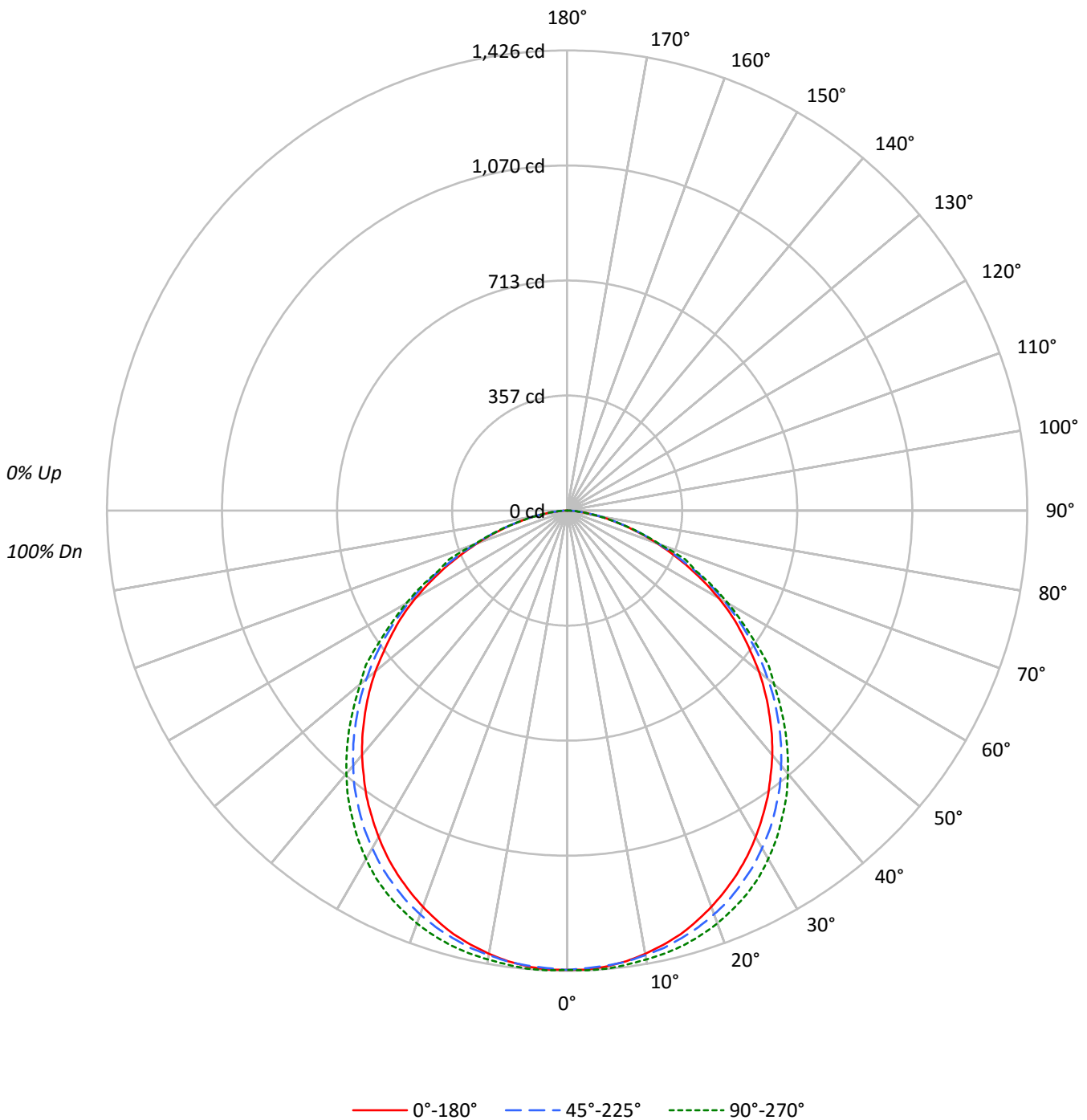
Input Watts (W): 34.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1915 | 1915 | 1915 |
| 5°  | 1915 | 1911 | 1924 |
| 10° | 1905 | 1911 | 1930 |
| 15° | 1893 | 1910 | 1943 |
| 20° | 1871 | 1906 | 1950 |
| 25° | 1847 | 1895 | 1950 |
| 30° | 1815 | 1877 | 1937 |
| 35° | 1780 | 1850 | 1908 |
| 40° | 1737 | 1812 | 1870 |
| 45° | 1684 | 1762 | 1817 |
| 50° | 1623 | 1700 | 1752 |
| 55° | 1549 | 1620 | 1668 |
| 60° | 1460 | 1515 | 1552 |
| 65° | 1326 | 1369 | 1396 |
| 70° | 1164 | 1191 | 1207 |
| 75° | 983  | 997  | 1004 |
| 80° | 786  | 796  | 775  |
| 85° | 528  | 550  | 528  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.9  | 3.5       |
| 10°-20°   | 387.9  | 10.2      |
| 20°-30°   | 588.5  | 15.4      |
| 30°-40°   | 702.7  | 18.4      |
| 40°-50°   | 711.4  | 18.6      |
| 50°-60°   | 614.9  | 16.1      |
| 60°-70°   | 426.2  | 11.2      |
| 70°-80°   | 206.2  | 5.4       |
| 80°-90°   | 45.3   | 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°    | 1111.3 | 29.1      |
| 0°-40°    | 1814.0 | 47.5      |
| 0°-60°    | 3140.3 | 82.2      |
| 0°-90°    | 3818.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3818.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1423 | 1423  | 1423 | 1423  | 1423 |      |
| 5°  | 1418 | 1416  | 1415 | 1422  | 1425 | 135  |
| 15° | 1359 | 1362  | 1371 | 1388  | 1395 | 383  |
| 25° | 1244 | 1252  | 1277 | 1303  | 1314 | 573  |
| 35° | 1084 | 1093  | 1126 | 1155  | 1162 | 677  |
| 45° | 885  | 897   | 926  | 949   | 955  | 683  |
| 55° | 660  | 667   | 690  | 719   | 711  | 590  |
| 65° | 416  | 421   | 430  | 437   | 438  | 412  |
| 75° | 189  | 190   | 192  | 190   | 193  | 203  |
| 85° | 34   | 37    | 36   | 34    | 34   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1423.3 | 1423.3 | 1423.3 | 1423.3 | 1423.3 |
| 2.5°  | 1423.3 | 1422.0 | 1419.2 | 1423.3 | 1426.1 |
| 5°    | 1417.8 | 1416.5 | 1415.1 | 1422.0 | 1424.7 |
| 7.5°  | 1408.3 | 1408.3 | 1409.6 | 1416.5 | 1419.2 |
| 10°   | 1394.6 | 1395.9 | 1398.7 | 1409.6 | 1412.4 |
| 12.5° | 1378.1 | 1380.9 | 1387.7 | 1400.0 | 1405.5 |
| 15°   | 1358.9 | 1361.7 | 1371.3 | 1387.7 | 1394.6 |
| 17.5° | 1334.3 | 1339.8 | 1353.5 | 1372.6 | 1379.5 |
| 20°   | 1306.9 | 1313.7 | 1331.5 | 1353.5 | 1361.7 |
| 22.5° | 1276.7 | 1283.6 | 1306.9 | 1330.2 | 1338.4 |
| 25°   | 1243.9 | 1252.1 | 1276.7 | 1302.8 | 1313.7 |
| 27.5° | 1208.2 | 1217.8 | 1245.2 | 1272.6 | 1283.6 |
| 30°   | 1168.5 | 1179.5 | 1208.2 | 1237.0 | 1246.6 |
| 32.5° | 1126.1 | 1137.0 | 1169.9 | 1197.3 | 1206.9 |
| 35°   | 1083.6 | 1093.2 | 1126.1 | 1154.8 | 1161.7 |
| 37.5° | 1035.6 | 1046.6 | 1082.2 | 1106.9 | 1116.5 |
| 40°   | 989.1  | 1000.0 | 1031.5 | 1056.2 | 1064.4 |
| 42.5° | 938.4  | 949.3  | 980.8  | 1004.1 | 1011.0 |
| 45°   | 885.0  | 897.3  | 926.1  | 949.3  | 954.8  |
| 47.5° | 831.5  | 841.1  | 871.3  | 891.8  | 895.9  |
| 50°   | 775.4  | 785.0  | 812.3  | 832.9  | 837.0  |
| 52.5° | 716.5  | 731.5  | 753.4  | 768.5  | 786.3  |
| 55°   | 660.3  | 667.1  | 690.4  | 719.2  | 711.0  |
| 57.5° | 604.1  | 608.2  | 627.4  | 639.7  | 642.5  |
| 60°   | 542.5  | 548.0  | 563.0  | 569.9  | 576.7  |
| 62.5° | 478.1  | 482.2  | 500.0  | 506.9  | 509.6  |
| 65°   | 416.4  | 420.6  | 430.1  | 437.0  | 438.4  |
| 67.5° | 353.4  | 357.5  | 365.8  | 371.2  | 395.9  |
| 70°   | 295.9  | 298.6  | 302.7  | 313.7  | 306.9  |
| 72.5° | 241.1  | 242.5  | 246.6  | 246.6  | 248.0  |
| 75°   | 189.0  | 190.4  | 191.8  | 190.4  | 193.2  |
| 77.5° | 141.1  | 143.8  | 145.2  | 143.8  | 142.5  |
| 80°   | 101.4  | 104.1  | 102.7  | 100.0  | 100.0  |
| 82.5° | 65.8   | 67.1   | 65.8   | 64.4   | 64.4   |
| 85°   | 34.2   | 37.0   | 35.6   | 34.2   | 34.2   |
| 87.5° | 12.3   | 13.7   | 15.1   | 16.4   | 16.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)