

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: P297388

Luminaire Tested: **D3X-WO-67L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297388  
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-67L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6964.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 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

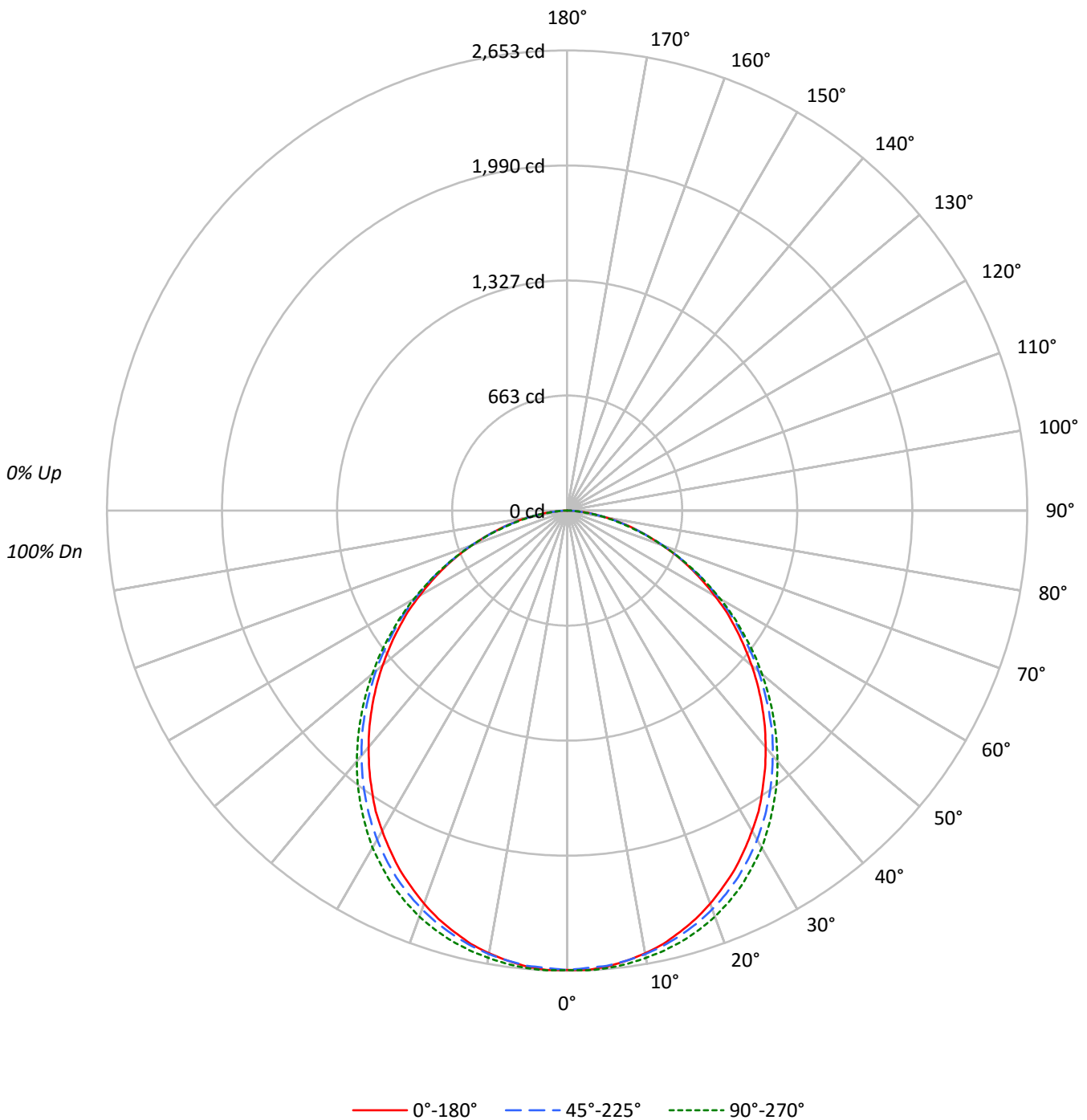
Input Watts (W): 50  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 105 | 100 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |    |    |    |    | 71  |   |  |   |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |    |    |    |    | 60  |   |  |   |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |    |    |    |    | 52  |   |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |    |    | 39  |   |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |    | 31  |   |  |   |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |    |    |    |    | 26  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3564 | 3564 | 3564 |
| 5°  | 3565 | 3558 | 3577 |
| 10° | 3542 | 3548 | 3577 |
| 15° | 3503 | 3529 | 3578 |
| 20° | 3453 | 3503 | 3567 |
| 25° | 3392 | 3462 | 3538 |
| 30° | 3313 | 3404 | 3488 |
| 35° | 3225 | 3329 | 3406 |
| 40° | 3127 | 3239 | 3313 |
| 45° | 3022 | 3134 | 3201 |
| 50° | 2907 | 3015 | 3069 |
| 55° | 2784 | 2873 | 2917 |
| 60° | 2645 | 2714 | 2746 |
| 65° | 2494 | 2532 | 2547 |
| 70° | 2289 | 2316 | 2289 |
| 75° | 2061 | 2049 | 1988 |
| 80° | 1745 | 1727 | 1672 |
| 85° | 1304 | 1267 | 1122 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 250.8  | 3.6       |
| 10°-20°   | 716.3  | 10.3      |
| 20°-30°   | 1074.0 | 15.4      |
| 30°-40°   | 1264.9 | 18.2      |
| 40°-50°   | 1265.1 | 18.2      |
| 50°-60°   | 1091.5 | 15.7      |
| 60°-70°   | 785.4  | 11.3      |
| 70°-80°   | 416.6  | 6.0       |
| 80°-90°   | 99.4   | 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°    | 2041.1 | 29.3      |
| 0°-40°    | 3306.0 | 47.5      |
| 0°-60°    | 5662.6 | 81.3      |
| 0°-90°    | 6964.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6964.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2648 | 2648  | 2648 | 2648  | 2648 |      |
| 5°  | 2639 | 2637  | 2634 | 2644  | 2648 | 250  |
| 15° | 2515 | 2522  | 2534 | 2559  | 2569 | 709  |
| 25° | 2285 | 2299  | 2332 | 2372  | 2383 | 1051 |
| 35° | 1964 | 1987  | 2027 | 2062  | 2074 | 1228 |
| 45° | 1588 | 1609  | 1647 | 1675  | 1682 | 1225 |
| 55° | 1187 | 1199  | 1225 | 1246  | 1243 | 1062 |
| 65° | 784  | 786   | 795  | 800   | 800  | 775  |
| 75° | 396  | 392   | 394  | 385   | 382  | 422  |
| 85° | 84   | 84    | 82   | 75    | 73   | 102  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2648.5 | 2648.5 | 2648.5 | 2648.5 | 2648.5 |
| 2.5°  | 2650.9 | 2646.2 | 2639.2 | 2648.5 | 2653.2 |
| 5°    | 2639.2 | 2636.8 | 2634.5 | 2643.8 | 2648.5 |
| 7.5°  | 2618.0 | 2620.4 | 2618.0 | 2632.1 | 2636.8 |
| 10°   | 2592.2 | 2594.6 | 2596.9 | 2613.3 | 2618.0 |
| 12.5° | 2559.4 | 2561.7 | 2568.8 | 2589.9 | 2596.9 |
| 15°   | 2514.8 | 2521.9 | 2533.6 | 2559.4 | 2568.8 |
| 17.5° | 2467.9 | 2477.3 | 2493.7 | 2524.2 | 2533.6 |
| 20°   | 2411.6 | 2423.3 | 2446.8 | 2479.6 | 2491.4 |
| 22.5° | 2348.3 | 2360.0 | 2392.8 | 2428.0 | 2439.8 |
| 25°   | 2284.9 | 2299.0 | 2331.8 | 2371.7 | 2383.4 |
| 27.5° | 2209.9 | 2228.6 | 2263.8 | 2303.7 | 2313.1 |
| 30°   | 2132.4 | 2148.9 | 2191.1 | 2228.6 | 2245.0 |
| 32.5° | 2055.0 | 2071.4 | 2111.3 | 2148.9 | 2160.6 |
| 35°   | 1963.5 | 1987.0 | 2026.9 | 2062.1 | 2073.8 |
| 37.5° | 1874.4 | 1895.5 | 1937.7 | 1972.9 | 1984.6 |
| 40°   | 1780.5 | 1799.3 | 1843.9 | 1876.7 | 1886.1 |
| 42.5° | 1686.7 | 1705.5 | 1750.1 | 1775.9 | 1785.2 |
| 45°   | 1588.2 | 1609.3 | 1646.8 | 1675.0 | 1682.0 |
| 47.5° | 1489.7 | 1506.1 | 1541.3 | 1567.1 | 1576.5 |
| 50°   | 1388.8 | 1405.2 | 1440.4 | 1461.5 | 1466.2 |
| 52.5° | 1287.9 | 1299.6 | 1332.5 | 1351.2 | 1358.3 |
| 55°   | 1187.0 | 1198.8 | 1224.6 | 1245.7 | 1243.3 |
| 57.5° | 1090.9 | 1095.5 | 1121.3 | 1135.4 | 1135.4 |
| 60°   | 982.9  | 987.6  | 1008.7 | 1018.1 | 1020.5 |
| 62.5° | 882.1  | 889.1  | 905.5  | 907.9  | 907.9  |
| 65°   | 783.5  | 785.9  | 795.3  | 800.0  | 800.0  |
| 67.5° | 685.0  | 682.7  | 692.0  | 692.0  | 689.7  |
| 70°   | 581.8  | 586.5  | 588.8  | 584.1  | 581.8  |
| 72.5° | 488.0  | 485.6  | 485.6  | 483.3  | 483.3  |
| 75°   | 396.5  | 391.8  | 394.1  | 384.7  | 382.4  |
| 77.5° | 312.0  | 305.0  | 302.6  | 297.9  | 293.2  |
| 80°   | 225.2  | 225.2  | 222.9  | 218.2  | 215.8  |
| 82.5° | 150.1  | 150.1  | 147.8  | 143.1  | 138.4  |
| 85°   | 84.5   | 84.5   | 82.1   | 75.1   | 72.7   |
| 87.5° | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)