

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: P297451

Luminaire Tested: **D3X-WO-74L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297451  
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-74L93050-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: 6824.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

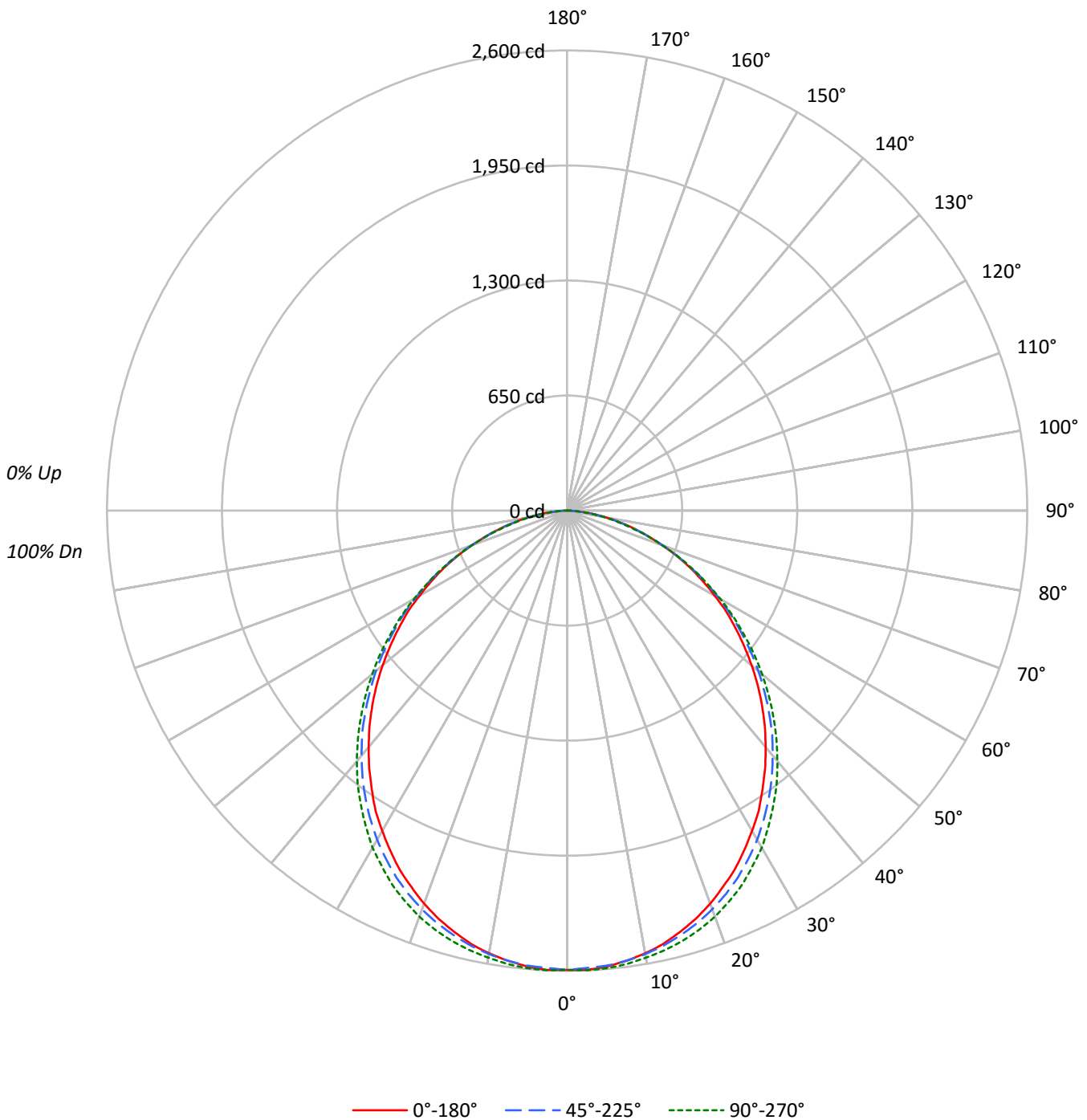
Input Watts (W): 56.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297451

CATALOG NUMBER: D3X-WO-74L93050-LD5-UNV-24-T1-W2A-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P297451

CATALOG NUMBER: D3X-WO-74L93050-LD5-UNV-24-T1-W2A-4000K

**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°  | 3492 | 3492 | 3492 |
| 5°  | 3493 | 3487 | 3505 |
| 10° | 3470 | 3477 | 3505 |
| 15° | 3433 | 3458 | 3506 |
| 20° | 3384 | 3433 | 3496 |
| 25° | 3324 | 3392 | 3467 |
| 30° | 3246 | 3336 | 3418 |
| 35° | 3160 | 3262 | 3338 |
| 40° | 3065 | 3173 | 3246 |
| 45° | 2961 | 3071 | 3136 |
| 50° | 2849 | 2954 | 3007 |
| 55° | 2729 | 2815 | 2858 |
| 60° | 2592 | 2660 | 2691 |
| 65° | 2444 | 2481 | 2496 |
| 70° | 2243 | 2270 | 2243 |
| 75° | 2020 | 2008 | 1948 |
| 80° | 1710 | 1692 | 1639 |
| 85° | 1278 | 1243 | 1101 |



TEST NUMBER: P297451

CATALOG NUMBER: D3X-WO-74L93050-LD5-UNV-24-T1-W2A-4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 245.7  | 3.6       |
| 10°-20°   | 701.9  | 10.3      |
| 20°-30°   | 1052.4 | 15.4      |
| 30°-40°   | 1239.4 | 18.2      |
| 40°-50°   | 1239.6 | 18.2      |
| 50°-60°   | 1069.6 | 15.7      |
| 60°-70°   | 769.6  | 11.3      |
| 70°-80°   | 408.2  | 6.0       |
| 80°-90°   | 97.4   | 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°    | 2000.1 | 29.3      |
| 0°-40°    | 3239.5 | 47.5      |
| 0°-60°    | 5548.8 | 81.3      |
| 0°-90°    | 6824.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6824.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2595 | 2595  | 2595 | 2595  | 2595 |      |
| 5°  | 2586 | 2584  | 2582 | 2591  | 2595 | 245  |
| 15° | 2464 | 2471  | 2483 | 2508  | 2517 | 695  |
| 25° | 2239 | 2253  | 2285 | 2324  | 2336 | 1030 |
| 35° | 1924 | 1947  | 1986 | 2021  | 2032 | 1204 |
| 45° | 1556 | 1577  | 1614 | 1641  | 1648 | 1201 |
| 55° | 1163 | 1175  | 1200 | 1221  | 1218 | 1041 |
| 65° | 768  | 770   | 779  | 784   | 784  | 759  |
| 75° | 388  | 384   | 386  | 377   | 375  | 413  |
| 85° | 83   | 83    | 80   | 74    | 71   | 100  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P297451

CATALOG NUMBER: D3X-WO-74L93050-LD5-UNV-24-T1-W2A-4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 |
| 2.5°  | 2597.6 | 2593.0 | 2586.1 | 2595.3 | 2599.9 |
| 5°    | 2586.1 | 2583.8 | 2581.5 | 2590.7 | 2595.3 |
| 7.5°  | 2565.4 | 2567.7 | 2565.4 | 2579.2 | 2583.8 |
| 10°   | 2540.1 | 2542.4 | 2544.7 | 2560.8 | 2565.4 |
| 12.5° | 2507.9 | 2510.2 | 2517.1 | 2537.8 | 2544.7 |
| 15°   | 2464.3 | 2471.2 | 2482.7 | 2507.9 | 2517.1 |
| 17.5° | 2418.3 | 2427.5 | 2443.6 | 2473.5 | 2482.7 |
| 20°   | 2363.1 | 2374.6 | 2397.6 | 2429.8 | 2441.3 |
| 22.5° | 2301.1 | 2312.5 | 2344.7 | 2379.2 | 2390.7 |
| 25°   | 2239.0 | 2252.8 | 2285.0 | 2324.0 | 2335.5 |
| 27.5° | 2165.4 | 2183.8 | 2218.3 | 2257.4 | 2266.6 |
| 30°   | 2089.6 | 2105.7 | 2147.0 | 2183.8 | 2199.9 |
| 32.5° | 2013.7 | 2029.8 | 2068.9 | 2105.7 | 2117.2 |
| 35°   | 1924.1 | 1947.0 | 1986.1 | 2020.6 | 2032.1 |
| 37.5° | 1836.7 | 1857.4 | 1898.8 | 1933.3 | 1944.7 |
| 40°   | 1744.8 | 1763.1 | 1806.8 | 1839.0 | 1848.2 |
| 42.5° | 1652.8 | 1671.2 | 1714.9 | 1740.2 | 1749.4 |
| 45°   | 1556.3 | 1576.9 | 1613.7 | 1641.3 | 1648.2 |
| 47.5° | 1459.7 | 1475.8 | 1510.3 | 1535.6 | 1544.8 |
| 50°   | 1360.9 | 1377.0 | 1411.4 | 1432.1 | 1436.7 |
| 52.5° | 1262.0 | 1273.5 | 1305.7 | 1324.1 | 1331.0 |
| 55°   | 1163.2 | 1174.7 | 1199.9 | 1220.6 | 1218.3 |
| 57.5° | 1068.9 | 1073.5 | 1098.8 | 1112.6 | 1112.6 |
| 60°   | 963.2  | 967.8  | 988.5  | 997.7  | 1000.0 |
| 62.5° | 864.3  | 871.2  | 887.3  | 889.6  | 889.6  |
| 65°   | 767.8  | 770.1  | 779.3  | 783.9  | 783.9  |
| 67.5° | 671.2  | 668.9  | 678.1  | 678.1  | 675.8  |
| 70°   | 570.1  | 574.7  | 577.0  | 572.4  | 570.1  |
| 72.5° | 478.1  | 475.8  | 475.8  | 473.5  | 473.5  |
| 75°   | 388.5  | 383.9  | 386.2  | 377.0  | 374.7  |
| 77.5° | 305.7  | 298.8  | 296.5  | 291.9  | 287.3  |
| 80°   | 220.7  | 220.7  | 218.4  | 213.8  | 211.5  |
| 82.5° | 147.1  | 147.1  | 144.8  | 140.2  | 135.6  |
| 85°   | 82.8   | 82.8   | 80.5   | 73.6   | 71.3   |
| 87.5° | 27.6   | 27.6   | 27.6   | 27.6   | 27.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)