

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: P296887

Luminaire Tested: **D3X-WD-67L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296887  
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-67L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5872.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

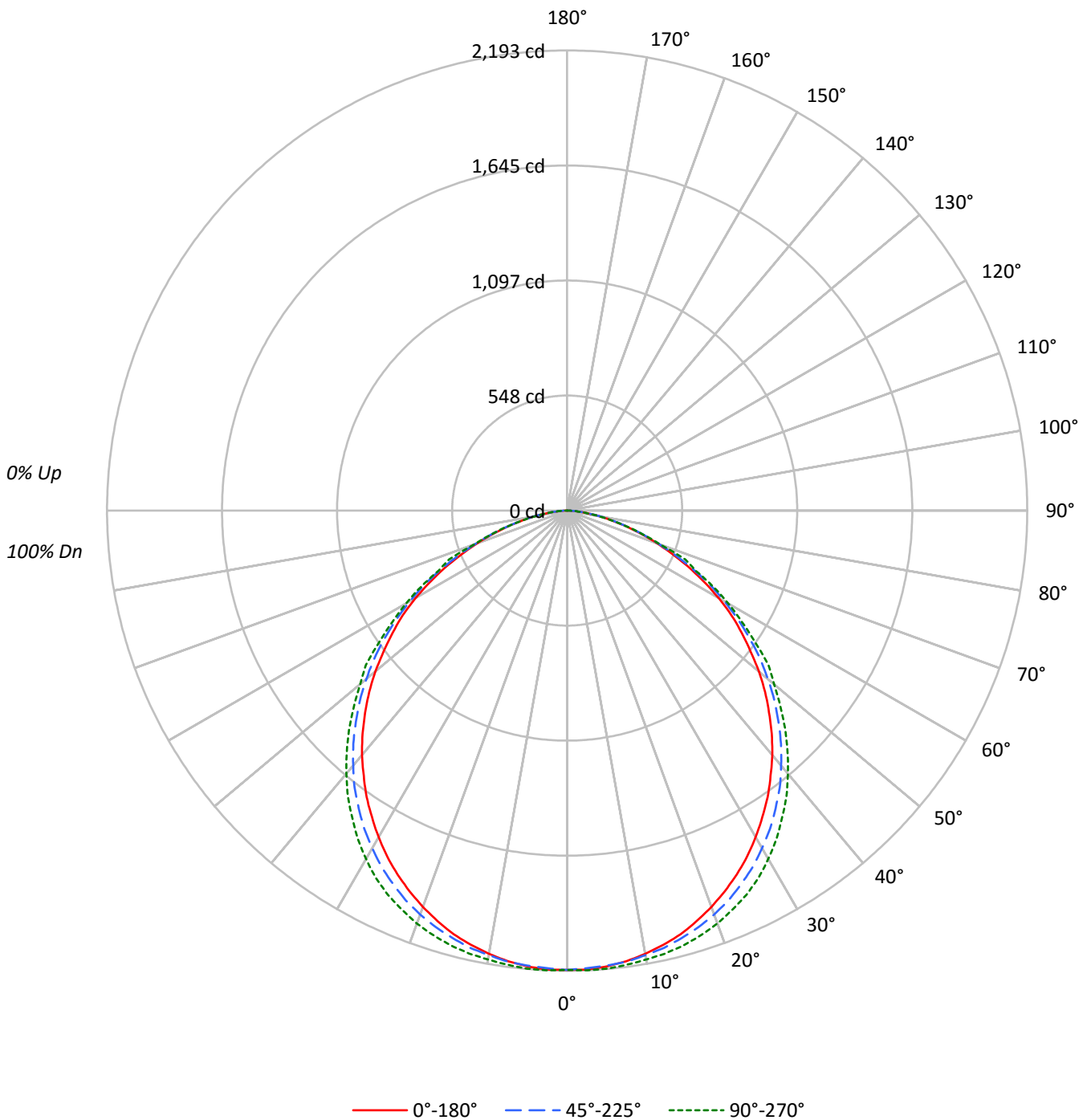
Input Watts (W): 50.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 56  | 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  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 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°  | 2945 | 2945 | 2945 |
| 5°  | 2945 | 2940 | 2959 |
| 10° | 2930 | 2939 | 2968 |
| 15° | 2911 | 2938 | 2988 |
| 20° | 2878 | 2932 | 2999 |
| 25° | 2840 | 2915 | 3000 |
| 30° | 2792 | 2887 | 2979 |
| 35° | 2737 | 2845 | 2935 |
| 40° | 2672 | 2787 | 2875 |
| 45° | 2590 | 2710 | 2794 |
| 50° | 2496 | 2615 | 2695 |
| 55° | 2382 | 2491 | 2565 |
| 60° | 2245 | 2330 | 2387 |
| 65° | 2039 | 2106 | 2146 |
| 70° | 1790 | 1832 | 1856 |
| 75° | 1511 | 1534 | 1544 |
| 80° | 1208 | 1224 | 1192 |
| 85° | 814  | 846  | 814  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 207.5  | 3.5       |
| 10°-20°   | 596.6  | 10.2      |
| 20°-30°   | 905.2  | 15.4      |
| 30°-40°   | 1080.7 | 18.4      |
| 40°-50°   | 1094.1 | 18.6      |
| 50°-60°   | 945.7  | 16.1      |
| 60°-70°   | 655.5  | 11.2      |
| 70°-80°   | 317.1  | 5.4       |
| 80°-90°   | 69.7   | 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°    | 1709.2 | 29.1      |
| 0°-40°    | 2789.9 | 47.5      |
| 0°-60°    | 4829.7 | 82.2      |
| 0°-90°    | 5872.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5872.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2189 | 2189  | 2189 | 2189  | 2189 |      |
| 5°  | 2181 | 2178  | 2176 | 2187  | 2191 | 207  |
| 15° | 2090 | 2094  | 2109 | 2134  | 2145 | 589  |
| 25° | 1913 | 1926  | 1964 | 2004  | 2020 | 881  |
| 35° | 1666 | 1681  | 1732 | 1776  | 1787 | 1041 |
| 45° | 1361 | 1380  | 1424 | 1460  | 1468 | 1050 |
| 55° | 1016 | 1026  | 1062 | 1106  | 1094 | 908  |
| 65° | 640  | 647   | 662  | 672   | 674  | 634  |
| 75° | 291  | 293   | 295  | 293   | 297  | 312  |
| 85° | 53   | 57    | 55   | 53    | 53   | 68   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2189.0 | 2189.0 | 2189.0 | 2189.0 | 2189.0 |
| 2.5°  | 2189.0 | 2186.9 | 2182.7 | 2189.0 | 2193.3 |
| 5°    | 2180.6 | 2178.5 | 2176.4 | 2186.9 | 2191.1 |
| 7.5°  | 2165.9 | 2165.9 | 2168.0 | 2178.5 | 2182.7 |
| 10°   | 2144.8 | 2146.9 | 2151.1 | 2168.0 | 2172.2 |
| 12.5° | 2119.5 | 2123.7 | 2134.3 | 2153.2 | 2161.7 |
| 15°   | 2090.0 | 2094.2 | 2109.0 | 2134.3 | 2144.8 |
| 17.5° | 2052.1 | 2060.5 | 2081.6 | 2111.1 | 2121.6 |
| 20°   | 2010.0 | 2020.5 | 2047.9 | 2081.6 | 2094.2 |
| 22.5° | 1963.6 | 1974.1 | 2010.0 | 2045.8 | 2058.4 |
| 25°   | 1913.0 | 1925.7 | 1963.6 | 2003.6 | 2020.5 |
| 27.5° | 1858.3 | 1873.0 | 1915.1 | 1957.3 | 1974.1 |
| 30°   | 1797.2 | 1814.0 | 1858.3 | 1902.5 | 1917.3 |
| 32.5° | 1731.8 | 1748.7 | 1799.3 | 1841.4 | 1856.2 |
| 35°   | 1666.5 | 1681.3 | 1731.8 | 1776.1 | 1786.6 |
| 37.5° | 1592.8 | 1609.6 | 1664.4 | 1702.4 | 1717.1 |
| 40°   | 1521.2 | 1538.0 | 1586.5 | 1624.4 | 1637.0 |
| 42.5° | 1443.2 | 1460.1 | 1508.5 | 1544.3 | 1554.9 |
| 45°   | 1361.0 | 1380.0 | 1424.2 | 1460.1 | 1468.5 |
| 47.5° | 1278.9 | 1293.6 | 1340.0 | 1371.6 | 1377.9 |
| 50°   | 1192.5 | 1207.2 | 1249.4 | 1281.0 | 1287.3 |
| 52.5° | 1101.9 | 1125.1 | 1158.8 | 1182.0 | 1209.3 |
| 55°   | 1015.5 | 1026.0 | 1061.9 | 1106.1 | 1093.5 |
| 57.5° | 929.1  | 935.5  | 964.9  | 983.9  | 988.1  |
| 60°   | 834.3  | 842.7  | 865.9  | 876.5  | 887.0  |
| 62.5° | 735.3  | 741.6  | 769.0  | 779.5  | 783.8  |
| 65°   | 640.5  | 646.8  | 661.6  | 672.1  | 674.2  |
| 67.5° | 543.6  | 549.9  | 562.5  | 571.0  | 608.9  |
| 70°   | 455.1  | 459.3  | 465.6  | 482.5  | 471.9  |
| 72.5° | 370.8  | 372.9  | 379.2  | 379.2  | 381.3  |
| 75°   | 290.7  | 292.9  | 295.0  | 292.9  | 297.1  |
| 77.5° | 217.0  | 221.2  | 223.3  | 221.2  | 219.1  |
| 80°   | 155.9  | 160.1  | 158.0  | 153.8  | 153.8  |
| 82.5° | 101.1  | 103.2  | 101.1  | 99.0   | 99.0   |
| 85°   | 52.7   | 56.9   | 54.8   | 52.7   | 52.7   |
| 87.5° | 19.0   | 21.1   | 23.2   | 25.3   | 25.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)