

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: P297650

Luminaire Tested: **D3X-WD-23L92765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-23L92765-LD5-UNV-14-T1-W2A-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2110.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

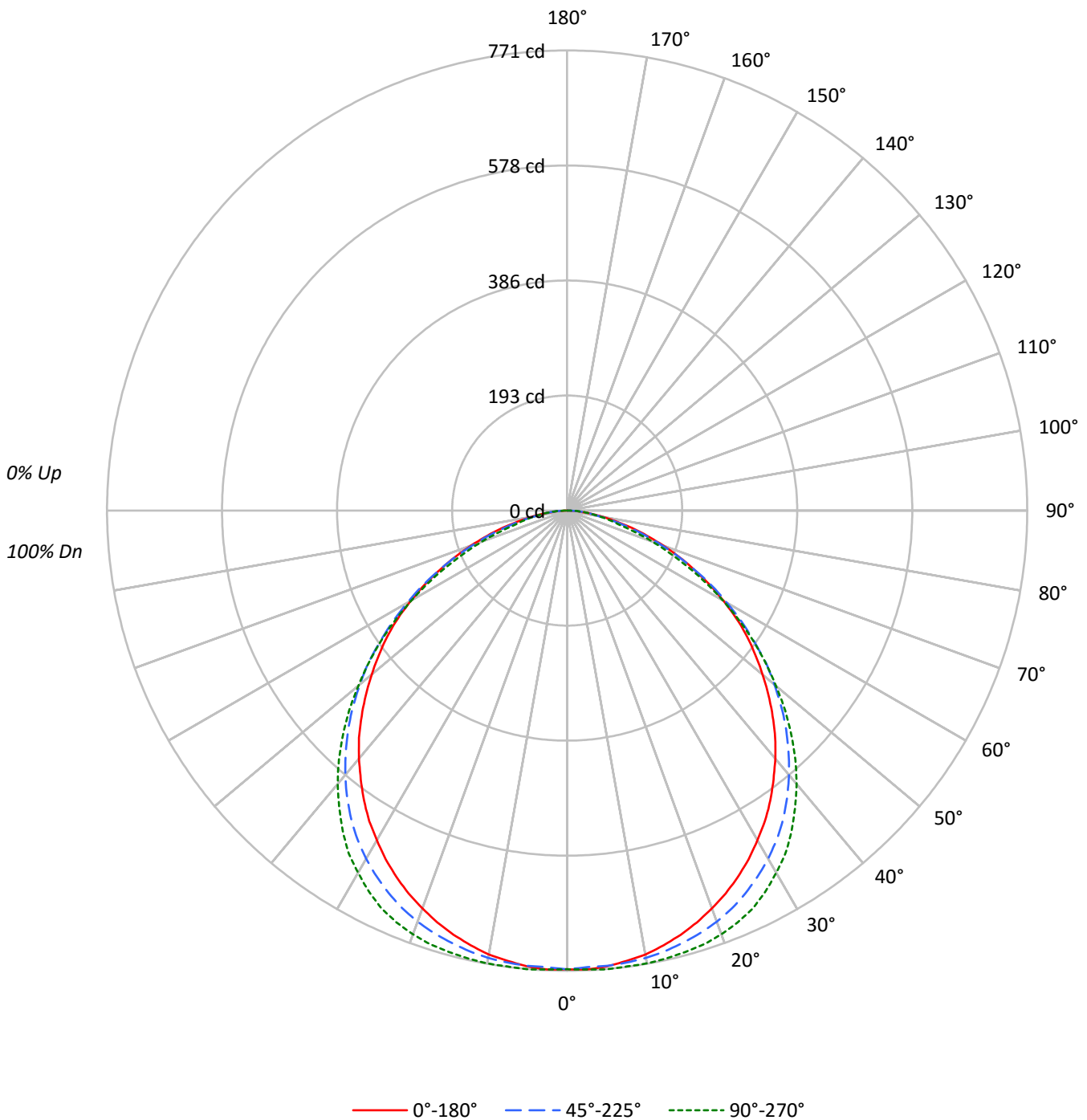
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |
| 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  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2068 | 2068 | 2068 |
| 5°  | 2071 | 2068 | 2084 |
| 10° | 2064 | 2079 | 2105 |
| 15° | 2049 | 2089 | 2133 |
| 20° | 2031 | 2099 | 2163 |
| 25° | 2011 | 2100 | 2184 |
| 30° | 1981 | 2092 | 2177 |
| 35° | 1949 | 2073 | 2153 |
| 40° | 1906 | 2031 | 2101 |
| 45° | 1853 | 1975 | 2022 |
| 50° | 1790 | 1896 | 1912 |
| 55° | 1728 | 1794 | 1785 |
| 60° | 1627 | 1662 | 1622 |
| 65° | 1500 | 1505 | 1421 |
| 70° | 1341 | 1312 | 1193 |
| 75° | 1166 | 1087 | 920  |
| 80° | 934  | 846  | 846  |
| 85° | 670  | 784  | 815  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.1   | 3.5       |
| 10°-20°   | 212.2  | 10.1      |
| 20°-30°   | 325.8  | 15.4      |
| 30°-40°   | 392.3  | 18.6      |
| 40°-50°   | 396.5  | 18.8      |
| 50°-60°   | 338.2  | 16.0      |
| 60°-70°   | 231.5  | 11.0      |
| 70°-80°   | 111.7  | 5.3       |
| 80°-90°   | 28.8   | 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°    | 611.0  | 29.0      |
| 0°-40°    | 1003.4 | 47.6      |
| 0°-60°    | 1738.0 | 82.4      |
| 0°-90°    | 2110.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2110.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 769 | 769   | 769 | 769   | 769 |      |
| 5°  | 767 | 767   | 766 | 770   | 771 | 73   |
| 15° | 736 | 741   | 750 | 763   | 766 | 207  |
| 25° | 677 | 688   | 707 | 728   | 736 | 312  |
| 35° | 593 | 607   | 631 | 651   | 656 | 371  |
| 45° | 487 | 500   | 519 | 531   | 531 | 375  |
| 55° | 368 | 375   | 382 | 384   | 380 | 328  |
| 65° | 236 | 238   | 236 | 228   | 223 | 234  |
| 75° | 112 | 112   | 104 | 92    | 88  | 119  |
| 85° | 22  | 24    | 25  | 26    | 26  | 27   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 768.6 | 768.6 | 768.6 | 768.6 | 768.6 |
| 2.5°  | 769.5 | 768.6 | 765.7 | 769.5 | 769.5 |
| 5°    | 766.7 | 766.7 | 765.7 | 770.4 | 771.4 |
| 7.5°  | 761.0 | 762.9 | 763.9 | 769.5 | 770.4 |
| 10°   | 755.4 | 757.3 | 761.0 | 768.6 | 770.4 |
| 12.5° | 746.0 | 749.7 | 756.3 | 766.7 | 768.6 |
| 15°   | 735.6 | 741.2 | 749.7 | 762.9 | 765.7 |
| 17.5° | 723.4 | 730.9 | 742.2 | 757.3 | 762.0 |
| 20°   | 709.2 | 717.7 | 732.8 | 749.7 | 755.4 |
| 22.5° | 694.2 | 703.6 | 721.5 | 741.2 | 746.9 |
| 25°   | 677.2 | 687.6 | 707.3 | 728.1 | 735.6 |
| 27.5° | 658.4 | 669.7 | 691.3 | 713.0 | 719.6 |
| 30°   | 637.6 | 649.9 | 673.4 | 695.1 | 700.7 |
| 32.5° | 616.9 | 629.2 | 653.7 | 674.4 | 681.0 |
| 35°   | 593.4 | 606.6 | 631.0 | 650.8 | 655.5 |
| 37.5° | 567.9 | 581.1 | 605.6 | 625.4 | 627.3 |
| 40°   | 542.5 | 555.7 | 578.3 | 596.2 | 598.1 |
| 42.5° | 516.1 | 528.4 | 549.1 | 564.2 | 566.1 |
| 45°   | 486.9 | 500.1 | 519.0 | 531.2 | 531.2 |
| 47.5° | 457.7 | 470.9 | 486.9 | 495.4 | 495.4 |
| 50°   | 427.6 | 439.8 | 453.0 | 457.7 | 456.8 |
| 52.5° | 397.5 | 408.8 | 420.1 | 421.0 | 419.1 |
| 55°   | 368.3 | 374.9 | 382.4 | 384.3 | 380.5 |
| 57.5° | 336.2 | 341.9 | 346.6 | 343.8 | 341.0 |
| 60°   | 302.3 | 308.0 | 308.9 | 304.2 | 301.4 |
| 62.5° | 269.4 | 274.1 | 274.1 | 266.5 | 261.8 |
| 65°   | 235.5 | 238.3 | 236.4 | 227.9 | 223.2 |
| 67.5° | 203.4 | 205.3 | 201.6 | 193.1 | 185.5 |
| 70°   | 170.5 | 171.4 | 166.7 | 156.3 | 151.6 |
| 72.5° | 140.3 | 141.3 | 135.6 | 123.4 | 117.7 |
| 75°   | 112.1 | 112.1 | 104.5 | 92.3  | 88.5  |
| 77.5° | 83.8  | 86.7  | 78.2  | 71.6  | 71.6  |
| 80°   | 60.3  | 63.1  | 54.6  | 55.6  | 54.6  |
| 82.5° | 39.6  | 42.4  | 39.6  | 39.6  | 39.6  |
| 85°   | 21.7  | 23.5  | 25.4  | 26.4  | 26.4  |
| 87.5° | 6.6   | 11.3  | 12.2  | 13.2  | 15.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)