

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: P297645

Luminaire Tested: **D3X-WD-23L92765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297645  
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-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1831.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

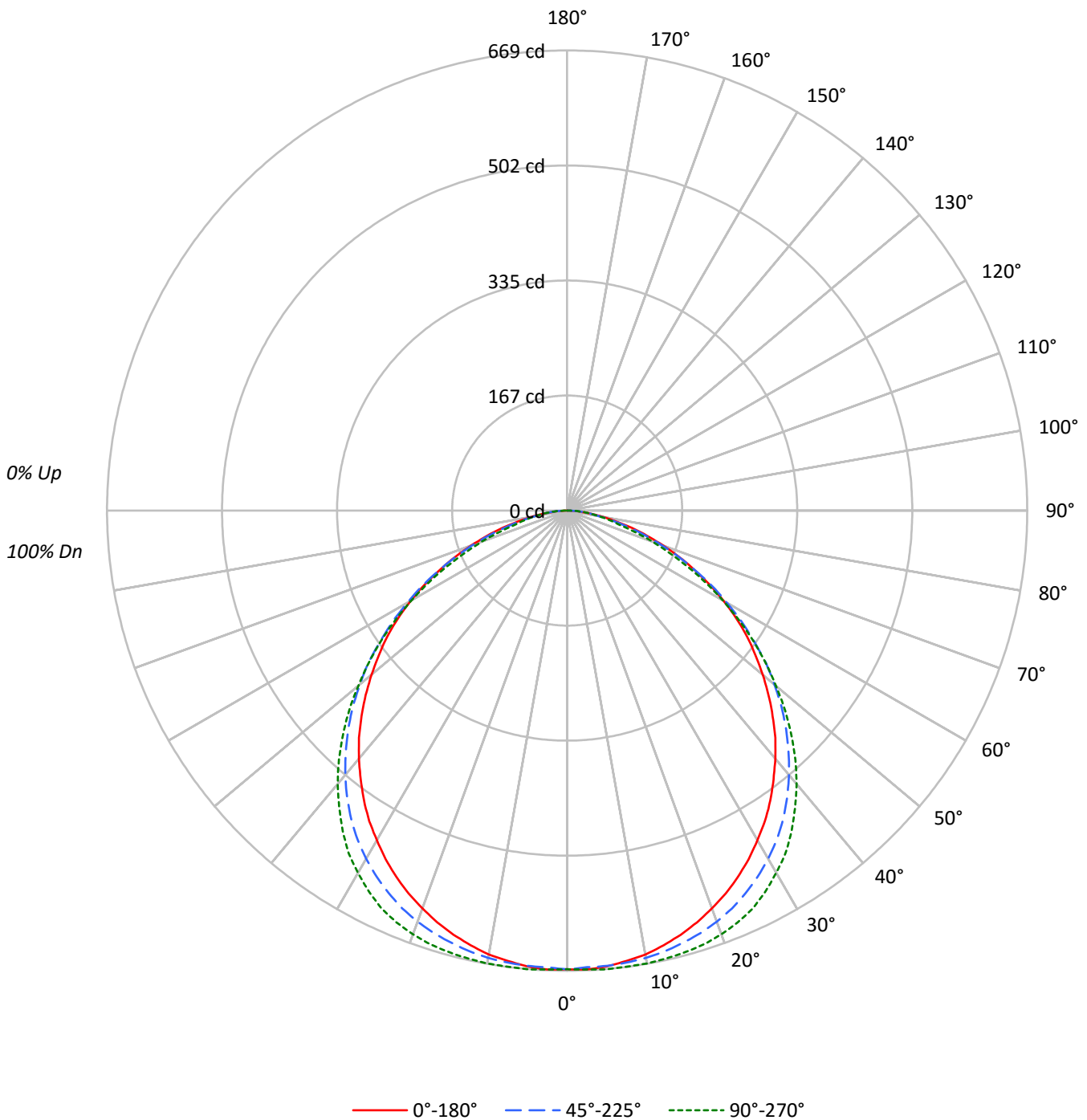
Input Watts (W): 20.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 1795 | 1795 | 1795 |
| 5°  | 1797 | 1795 | 1808 |
| 10° | 1791 | 1805 | 1827 |
| 15° | 1778 | 1813 | 1851 |
| 20° | 1762 | 1821 | 1877 |
| 25° | 1745 | 1822 | 1895 |
| 30° | 1719 | 1816 | 1890 |
| 35° | 1691 | 1799 | 1869 |
| 40° | 1654 | 1763 | 1823 |
| 45° | 1608 | 1714 | 1754 |
| 50° | 1554 | 1646 | 1659 |
| 55° | 1499 | 1557 | 1549 |
| 60° | 1412 | 1443 | 1407 |
| 65° | 1301 | 1306 | 1233 |
| 70° | 1164 | 1138 | 1035 |
| 75° | 1012 | 943  | 799  |
| 80° | 810  | 735  | 735  |
| 85° | 580  | 682  | 707  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.4   | 3.5       |
| 10°-20°   | 184.1  | 10.1      |
| 20°-30°   | 282.7  | 15.4      |
| 30°-40°   | 340.5  | 18.6      |
| 40°-50°   | 344.0  | 18.8      |
| 50°-60°   | 293.5  | 16.0      |
| 60°-70°   | 200.9  | 11.0      |
| 70°-80°   | 96.9   | 5.3       |
| 80°-90°   | 25.0   | 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°    | 530.2  | 29.0      |
| 0°-40°    | 870.7  | 47.6      |
| 0°-60°    | 1508.2 | 82.4      |
| 0°-90°    | 1831.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1831.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 667 | 667   | 667 | 667   | 667 |      |
| 5°  | 665 | 665   | 664 | 669   | 669 | 63   |
| 15° | 638 | 643   | 651 | 662   | 664 | 180  |
| 25° | 588 | 597   | 614 | 632   | 638 | 271  |
| 35° | 515 | 526   | 548 | 565   | 569 | 322  |
| 45° | 423 | 434   | 450 | 461   | 461 | 326  |
| 55° | 320 | 325   | 332 | 334   | 330 | 285  |
| 65° | 204 | 207   | 205 | 198   | 194 | 203  |
| 75° | 97  | 97    | 91  | 80    | 77  | 103  |
| 85° | 19  | 20    | 22  | 23    | 23  | 23   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 666.9 | 666.9 | 666.9 | 666.9 | 666.9 |
| 2.5°  | 667.8 | 666.9 | 664.5 | 667.8 | 667.8 |
| 5°    | 665.3 | 665.3 | 664.5 | 668.6 | 669.4 |
| 7.5°  | 660.4 | 662.0 | 662.8 | 667.8 | 668.6 |
| 10°   | 655.5 | 657.1 | 660.4 | 666.9 | 668.6 |
| 12.5° | 647.3 | 650.6 | 656.3 | 665.3 | 666.9 |
| 15°   | 638.3 | 643.2 | 650.6 | 662.0 | 664.5 |
| 17.5° | 627.7 | 634.2 | 644.1 | 657.1 | 661.2 |
| 20°   | 615.4 | 622.8 | 635.9 | 650.6 | 655.5 |
| 22.5° | 602.4 | 610.5 | 626.1 | 643.2 | 648.1 |
| 25°   | 587.7 | 596.6 | 613.8 | 631.8 | 638.3 |
| 27.5° | 571.3 | 581.1 | 599.9 | 618.7 | 624.4 |
| 30°   | 553.3 | 564.0 | 584.4 | 603.2 | 608.1 |
| 32.5° | 535.3 | 546.0 | 567.2 | 585.2 | 590.9 |
| 35°   | 514.9 | 526.4 | 547.6 | 564.8 | 568.9 |
| 37.5° | 492.8 | 504.3 | 525.5 | 542.7 | 544.3 |
| 40°   | 470.8 | 482.2 | 501.8 | 517.4 | 519.0 |
| 42.5° | 447.9 | 458.5 | 476.5 | 489.6 | 491.2 |
| 45°   | 422.6 | 434.0 | 450.3 | 461.0 | 461.0 |
| 47.5° | 397.2 | 408.7 | 422.6 | 429.9 | 429.9 |
| 50°   | 371.1 | 381.7 | 393.1 | 397.2 | 396.4 |
| 52.5° | 344.9 | 354.7 | 364.5 | 365.3 | 363.7 |
| 55°   | 319.6 | 325.3 | 331.8 | 333.5 | 330.2 |
| 57.5° | 291.8 | 296.7 | 300.8 | 298.3 | 295.9 |
| 60°   | 262.4 | 267.3 | 268.1 | 264.0 | 261.5 |
| 62.5° | 233.8 | 237.8 | 237.8 | 231.3 | 227.2 |
| 65°   | 204.3 | 206.8 | 205.1 | 197.8 | 193.7 |
| 67.5° | 176.5 | 178.2 | 174.9 | 167.6 | 161.0 |
| 70°   | 147.9 | 148.8 | 144.7 | 135.7 | 131.6 |
| 72.5° | 121.8 | 122.6 | 117.7 | 107.1 | 102.2 |
| 75°   | 97.3  | 97.3  | 90.7  | 80.1  | 76.8  |
| 77.5° | 72.7  | 75.2  | 67.8  | 62.1  | 62.1  |
| 80°   | 52.3  | 54.8  | 47.4  | 48.2  | 47.4  |
| 82.5° | 34.3  | 36.8  | 34.3  | 34.3  | 34.3  |
| 85°   | 18.8  | 20.4  | 22.1  | 22.9  | 22.9  |
| 87.5° | 5.7   | 9.8   | 10.6  | 11.4  | 13.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)