

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: P298058

Luminaire Tested: **D3X-WD-25L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-25L93050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1774.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

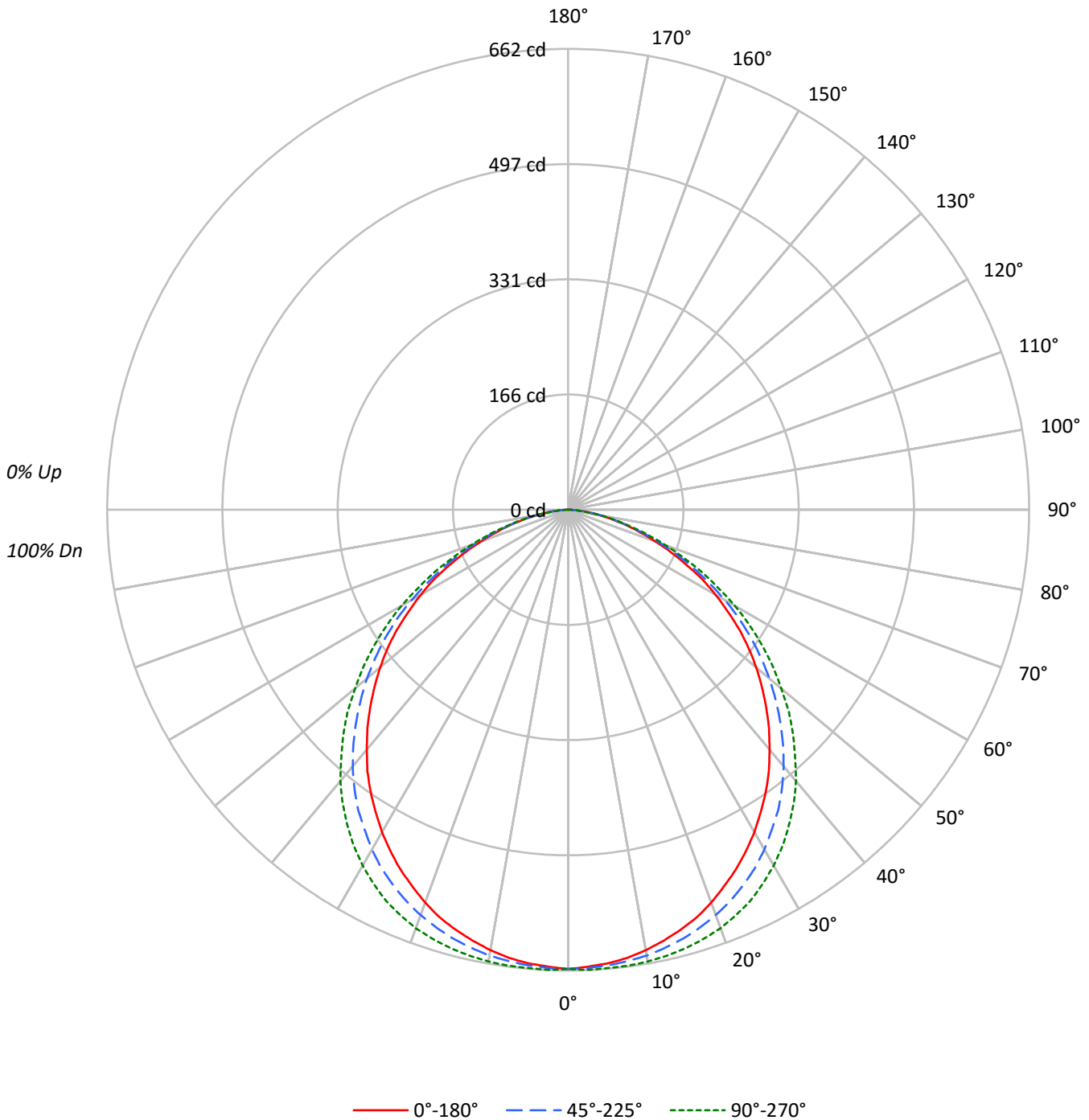
Input Watts (W): 19.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 95  | 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  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 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  | 31  | 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°  | 1776 | 1776 | 1776 |
| 5°  | 1767 | 1775 | 1785 |
| 10° | 1756 | 1777 | 1800 |
| 15° | 1740 | 1777 | 1817 |
| 20° | 1720 | 1775 | 1832 |
| 25° | 1693 | 1766 | 1840 |
| 30° | 1661 | 1751 | 1834 |
| 35° | 1625 | 1728 | 1816 |
| 40° | 1580 | 1691 | 1788 |
| 45° | 1530 | 1639 | 1737 |
| 50° | 1475 | 1579 | 1671 |
| 55° | 1407 | 1501 | 1595 |
| 60° | 1315 | 1398 | 1490 |
| 65° | 1192 | 1265 | 1344 |
| 70° | 1052 | 1105 | 1164 |
| 75° | 904  | 923  | 963  |
| 80° | 725  | 739  | 755  |
| 85° | 531  | 472  | 472  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.5   | 3.5       |
| 10°-20°   | 180.1  | 10.2      |
| 20°-30°   | 274.0  | 15.4      |
| 30°-40°   | 327.8  | 18.5      |
| 40°-50°   | 331.4  | 18.7      |
| 50°-60°   | 285.2  | 16.1      |
| 60°-70°   | 196.9  | 11.1      |
| 70°-80°   | 95.5   | 5.4       |
| 80°-90°   | 20.7   | 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°    | 516.6  | 29.1      |
| 0°-40°    | 844.4  | 47.6      |
| 0°-60°    | 1460.9 | 82.4      |
| 0°-90°    | 1774.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1774.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 660 | 660   | 660 | 660   | 660 |      |
| 5°  | 654 | 655   | 657 | 660   | 661 | 62   |
| 15° | 624 | 628   | 638 | 647   | 652 | 176  |
| 25° | 570 | 577   | 595 | 613   | 620 | 262  |
| 35° | 495 | 503   | 526 | 545   | 553 | 309  |
| 45° | 402 | 410   | 431 | 449   | 456 | 310  |
| 55° | 300 | 305   | 320 | 334   | 340 | 267  |
| 65° | 187 | 190   | 199 | 207   | 211 | 186  |
| 75° | 87  | 85    | 89  | 92    | 93  | 92   |
| 85° | 17  | 17    | 15  | 15    | 15  | 21   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 659.8 | 659.8 | 659.8 | 659.8 | 659.8 |
| 2.5°  | 657.0 | 657.0 | 658.9 | 660.8 | 661.7 |
| 5°    | 654.1 | 655.0 | 657.0 | 659.8 | 660.8 |
| 7.5°  | 649.3 | 650.3 | 654.1 | 658.9 | 660.8 |
| 10°   | 642.6 | 644.5 | 650.3 | 656.0 | 658.9 |
| 12.5° | 634.0 | 637.9 | 644.5 | 652.2 | 656.0 |
| 15°   | 624.5 | 628.3 | 637.9 | 647.4 | 652.2 |
| 17.5° | 614.0 | 617.8 | 629.3 | 641.7 | 646.5 |
| 20°   | 600.6 | 606.4 | 619.7 | 634.0 | 639.8 |
| 22.5° | 585.3 | 593.0 | 608.3 | 623.5 | 630.2 |
| 25°   | 570.1 | 576.7 | 594.9 | 613.0 | 619.7 |
| 27.5° | 552.9 | 560.5 | 580.6 | 598.7 | 605.4 |
| 30°   | 534.7 | 542.4 | 563.4 | 583.4 | 590.1 |
| 32.5° | 514.7 | 524.2 | 544.3 | 565.3 | 572.9 |
| 35°   | 494.6 | 503.2 | 526.1 | 545.2 | 552.9 |
| 37.5° | 473.6 | 481.3 | 504.2 | 524.2 | 531.9 |
| 40°   | 449.7 | 458.3 | 481.3 | 501.3 | 509.0 |
| 42.5° | 426.8 | 435.4 | 456.4 | 475.5 | 482.2 |
| 45°   | 402.0 | 409.6 | 430.7 | 448.8 | 456.4 |
| 47.5° | 377.2 | 385.8 | 403.9 | 422.1 | 429.7 |
| 50°   | 352.4 | 359.0 | 377.2 | 394.4 | 399.1 |
| 52.5° | 326.6 | 332.3 | 348.5 | 363.8 | 370.5 |
| 55°   | 299.8 | 304.6 | 319.9 | 334.2 | 339.9 |
| 57.5° | 271.2 | 276.9 | 291.2 | 301.7 | 308.4 |
| 60°   | 244.4 | 247.3 | 259.7 | 270.2 | 276.9 |
| 62.5° | 217.7 | 218.7 | 228.2 | 238.7 | 242.5 |
| 65°   | 187.2 | 190.0 | 198.6 | 207.2 | 211.0 |
| 67.5° | 159.5 | 162.3 | 169.0 | 175.7 | 178.6 |
| 70°   | 133.7 | 133.7 | 140.4 | 145.1 | 148.0 |
| 72.5° | 107.9 | 108.9 | 113.6 | 116.5 | 119.4 |
| 75°   | 86.9  | 85.0  | 88.8  | 91.7  | 92.6  |
| 77.5° | 64.9  | 64.0  | 66.8  | 67.8  | 69.7  |
| 80°   | 46.8  | 46.8  | 47.7  | 48.7  | 48.7  |
| 82.5° | 30.6  | 30.6  | 31.5  | 29.6  | 28.6  |
| 85°   | 17.2  | 17.2  | 15.3  | 15.3  | 15.3  |
| 87.5° | 5.7   | 5.7   | 5.7   | 6.7   | 5.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)