

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: P298420

Luminaire Tested: **D3X-WO-20L92765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-20L92765-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1635.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

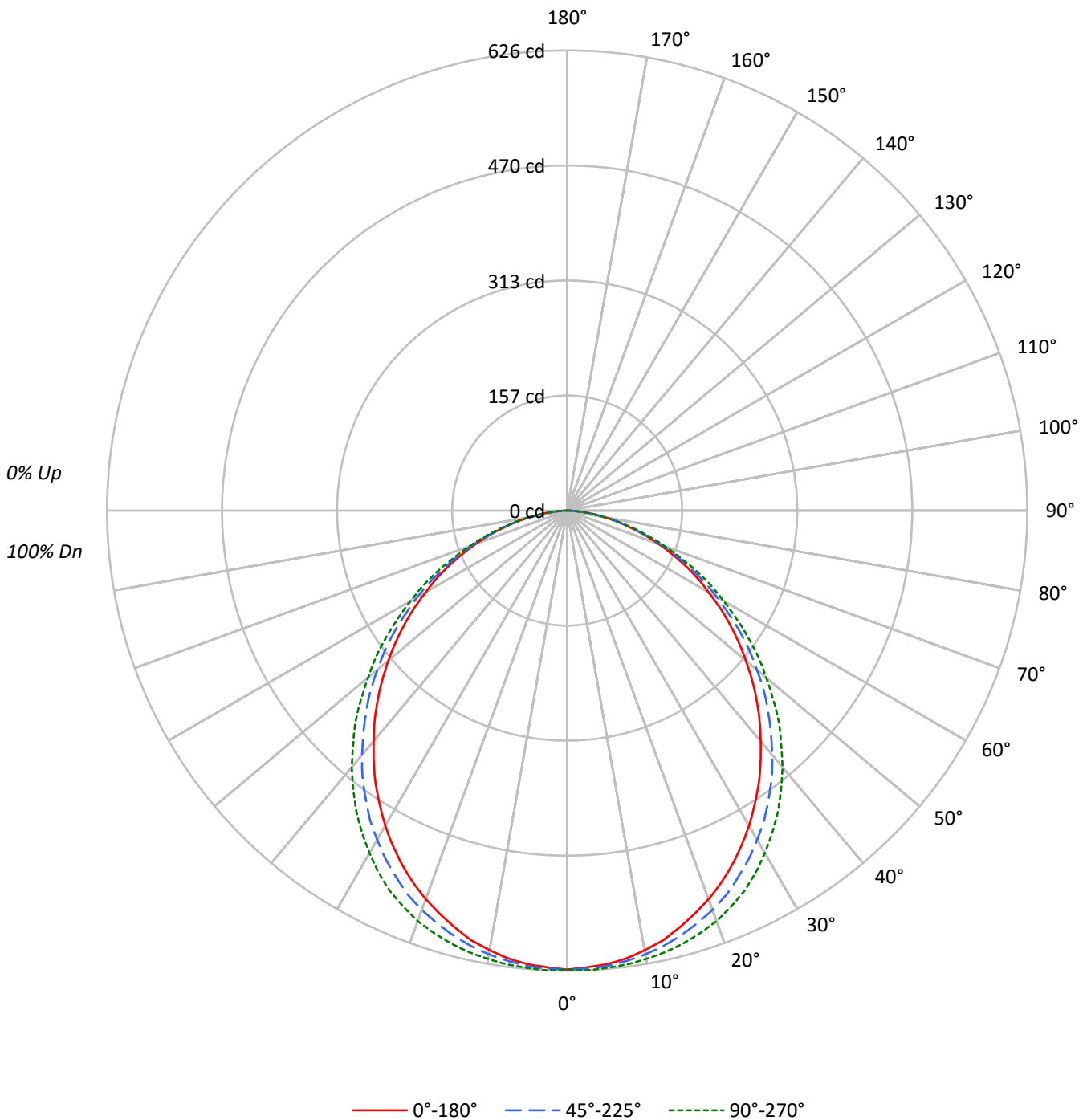
Input Watts (W): 15.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 70  | 62  | 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  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1680 | 1680 | 1680 |
| 5°  | 1673 | 1680 | 1687 |
| 10° | 1659 | 1675 | 1693 |
| 15° | 1638 | 1667 | 1699 |
| 20° | 1611 | 1655 | 1702 |
| 25° | 1578 | 1634 | 1695 |
| 30° | 1538 | 1606 | 1672 |
| 35° | 1492 | 1570 | 1642 |
| 40° | 1439 | 1524 | 1601 |
| 45° | 1388 | 1472 | 1552 |
| 50° | 1329 | 1411 | 1479 |
| 55° | 1268 | 1345 | 1409 |
| 60° | 1196 | 1266 | 1323 |
| 65° | 1130 | 1172 | 1228 |
| 70° | 1038 | 1069 | 1108 |
| 75° | 922  | 948  | 973  |
| 80° | 795  | 783  | 783  |
| 85° | 602  | 553  | 503  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.1   | 3.6       |
| 10°-20°   | 168.8  | 10.3      |
| 20°-30°   | 253.5  | 15.5      |
| 30°-40°   | 298.3  | 18.2      |
| 40°-50°   | 297.6  | 18.2      |
| 50°-60°   | 255.4  | 15.6      |
| 60°-70°   | 182.9  | 11.2      |
| 70°-80°   | 96.8   | 5.9       |
| 80°-90°   | 22.7   | 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°    | 481.4  | 29.4      |
| 0°-40°    | 779.7  | 47.7      |
| 0°-60°    | 1332.6 | 81.5      |
| 0°-90°    | 1635.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1635.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 624 | 624   | 624 | 624   | 624 |      |
| 5°  | 620 | 620   | 622 | 624   | 624 | 59   |
| 15° | 588 | 590   | 598 | 606   | 610 | 166  |
| 25° | 532 | 536   | 550 | 564   | 571 | 245  |
| 35° | 454 | 460   | 478 | 494   | 500 | 284  |
| 45° | 365 | 370   | 387 | 400   | 408 | 281  |
| 55° | 270 | 274   | 287 | 296   | 300 | 242  |
| 65° | 178 | 178   | 184 | 191   | 193 | 175  |
| 75° | 89  | 89    | 91  | 93    | 94  | 95   |
| 85° | 20  | 19    | 18  | 16    | 16  | 24   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 624.4 | 624.4 | 624.4 | 624.4 | 624.4 |
| 2.5°  | 621.9 | 621.9 | 623.6 | 625.2 | 626.0 |
| 5°    | 619.5 | 619.5 | 621.9 | 623.6 | 624.4 |
| 7.5°  | 614.6 | 614.6 | 617.9 | 621.1 | 622.8 |
| 10°   | 607.3 | 608.9 | 613.0 | 617.9 | 619.5 |
| 12.5° | 599.2 | 600.8 | 606.5 | 613.0 | 615.4 |
| 15°   | 587.8 | 590.2 | 598.3 | 606.5 | 609.7 |
| 17.5° | 575.5 | 578.8 | 588.6 | 598.3 | 602.4 |
| 20°   | 562.5 | 565.8 | 578.0 | 589.4 | 594.3 |
| 22.5° | 547.9 | 551.9 | 565.8 | 578.0 | 582.9 |
| 25°   | 531.6 | 536.5 | 550.3 | 564.2 | 570.7 |
| 27.5° | 513.7 | 519.4 | 534.8 | 549.5 | 555.2 |
| 30°   | 495.0 | 501.5 | 516.9 | 532.4 | 538.1 |
| 32.5° | 474.6 | 480.3 | 499.0 | 513.7 | 519.4 |
| 35°   | 454.3 | 459.9 | 477.9 | 494.1 | 499.8 |
| 37.5° | 432.3 | 439.6 | 457.5 | 472.2 | 477.9 |
| 40°   | 409.5 | 416.8 | 433.9 | 451.0 | 455.9 |
| 42.5° | 387.5 | 394.0 | 410.3 | 425.8 | 430.6 |
| 45°   | 364.7 | 370.4 | 386.7 | 400.5 | 407.8 |
| 47.5° | 341.1 | 346.8 | 363.1 | 376.1 | 380.2 |
| 50°   | 317.5 | 323.2 | 337.0 | 348.4 | 353.3 |
| 52.5° | 293.9 | 299.6 | 312.6 | 323.2 | 328.1 |
| 55°   | 270.3 | 274.3 | 286.6 | 296.3 | 300.4 |
| 57.5° | 246.7 | 249.9 | 259.7 | 270.3 | 272.7 |
| 60°   | 222.2 | 226.3 | 235.3 | 242.6 | 245.8 |
| 62.5° | 200.3 | 201.9 | 210.0 | 216.5 | 220.6 |
| 65°   | 177.5 | 178.3 | 184.0 | 191.3 | 192.9 |
| 67.5° | 153.9 | 154.7 | 160.4 | 164.4 | 166.1 |
| 70°   | 131.9 | 131.9 | 135.9 | 139.2 | 140.8 |
| 72.5° | 110.7 | 109.9 | 112.3 | 115.6 | 117.2 |
| 75°   | 88.7  | 88.7  | 91.2  | 92.8  | 93.6  |
| 77.5° | 70.0  | 68.4  | 70.0  | 71.6  | 71.6  |
| 80°   | 51.3  | 50.5  | 50.5  | 51.3  | 50.5  |
| 82.5° | 35.0  | 34.2  | 35.0  | 33.4  | 32.6  |
| 85°   | 19.5  | 18.7  | 17.9  | 16.3  | 16.3  |
| 87.5° | 6.5   | 5.7   | 5.7   | 6.5   | 6.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)