

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: P297716

Luminaire Tested: **D3X-WG-23L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-23L82765-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2191.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

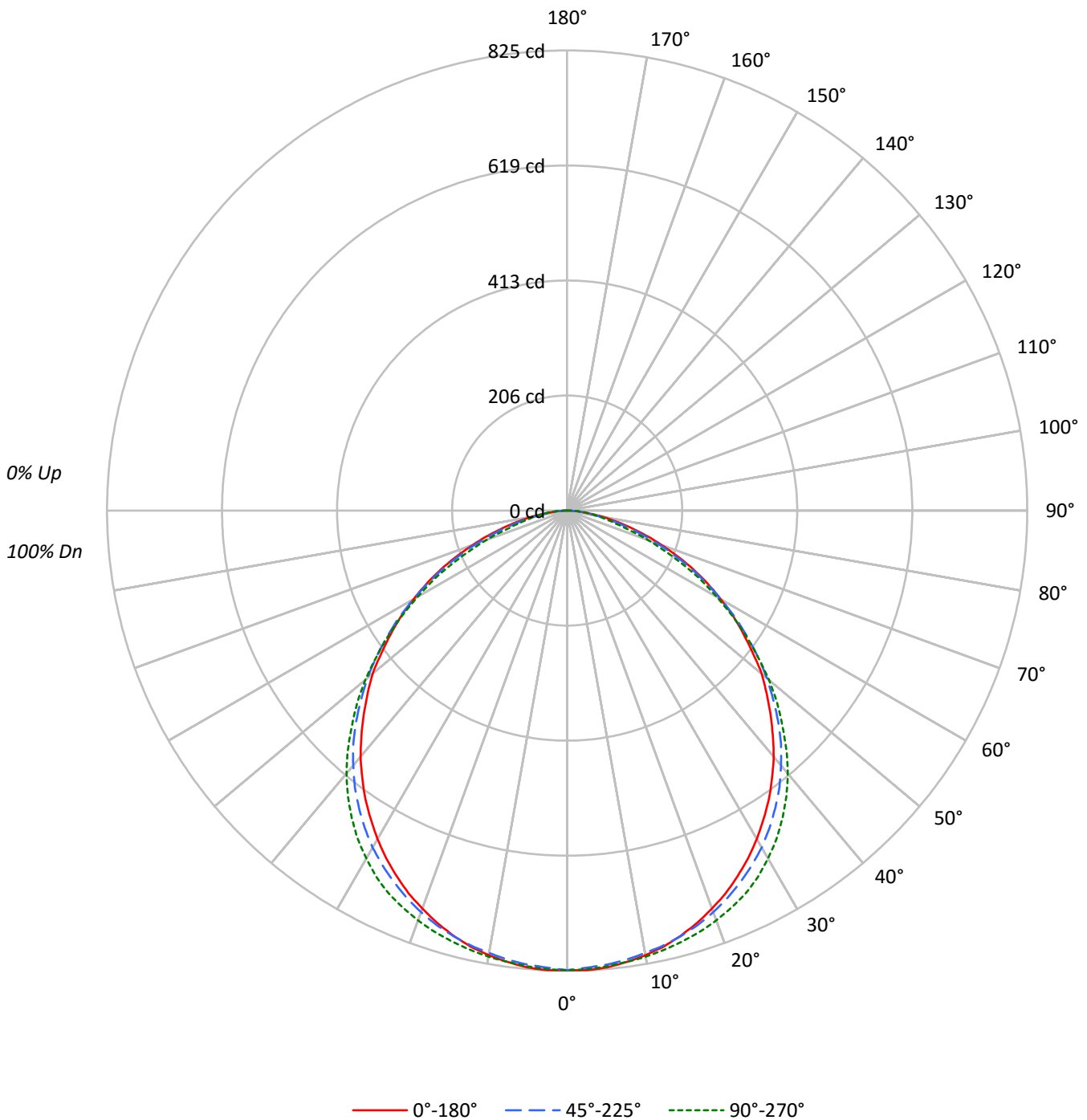
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 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   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 31  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 35  | 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°  | 2217 | 2217 | 2217 |
| 5°  | 2220 | 2207 | 2215 |
| 10° | 2211 | 2201 | 2219 |
| 15° | 2197 | 2200 | 2227 |
| 20° | 2174 | 2194 | 2239 |
| 25° | 2147 | 2182 | 2249 |
| 30° | 2113 | 2168 | 2238 |
| 35° | 2073 | 2137 | 2211 |
| 40° | 2024 | 2096 | 2161 |
| 45° | 1961 | 2036 | 2077 |
| 50° | 1907 | 1957 | 1977 |
| 55° | 1811 | 1848 | 1839 |
| 60° | 1714 | 1714 | 1666 |
| 65° | 1591 | 1554 | 1466 |
| 70° | 1411 | 1349 | 1218 |
| 75° | 1223 | 1110 | 937  |
| 80° | 1003 | 865  | 851  |
| 85° | 667  | 787  | 846  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.9   | 3.6       |
| 10°-20°   | 223.6  | 10.2      |
| 20°-30°   | 339.9  | 15.5      |
| 30°-40°   | 406.9  | 18.6      |
| 40°-50°   | 410.5  | 18.7      |
| 50°-60°   | 349.6  | 16.0      |
| 60°-70°   | 239.1  | 10.9      |
| 70°-80°   | 114.5  | 5.2       |
| 80°-90°   | 29.0   | 1.3       |
| 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°    | 641.4  | 29.3      |
| 0°-40°    | 1048.4 | 47.8      |
| 0°-60°    | 1808.5 | 82.5      |
| 0°-90°    | 2191.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2191.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 824 | 824   | 824 | 824   | 824 |      |
| 5°  | 822 | 821   | 817 | 821   | 820 | 78   |
| 15° | 789 | 787   | 790 | 798   | 800 | 222  |
| 25° | 723 | 724   | 735 | 752   | 757 | 333  |
| 35° | 631 | 633   | 651 | 669   | 673 | 394  |
| 45° | 515 | 519   | 535 | 546   | 546 | 398  |
| 55° | 386 | 388   | 394 | 395   | 392 | 346  |
| 65° | 250 | 245   | 244 | 235   | 230 | 246  |
| 75° | 118 | 116   | 107 | 93    | 90  | 126  |
| 85° | 22  | 24    | 26  | 26    | 27  | 28   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 824.0 | 824.0 | 824.0 | 824.0 | 824.0 |
| 2.5°  | 825.0 | 824.0 | 820.1 | 824.0 | 823.0 |
| 5°    | 822.0 | 821.1 | 817.1 | 821.1 | 820.1 |
| 7.5°  | 816.2 | 815.2 | 812.2 | 816.2 | 816.2 |
| 10°   | 809.3 | 807.3 | 805.4 | 811.3 | 812.2 |
| 12.5° | 800.5 | 798.5 | 798.5 | 805.4 | 806.4 |
| 15°   | 788.7 | 786.8 | 789.7 | 798.5 | 799.5 |
| 17.5° | 775.0 | 774.0 | 778.9 | 789.7 | 791.7 |
| 20°   | 759.3 | 758.3 | 766.2 | 778.9 | 781.9 |
| 22.5° | 742.7 | 742.7 | 751.5 | 766.2 | 770.1 |
| 25°   | 723.1 | 724.1 | 734.8 | 751.5 | 757.4 |
| 27.5° | 702.5 | 704.5 | 717.2 | 735.8 | 740.7 |
| 30°   | 680.0 | 682.9 | 697.6 | 715.2 | 720.1 |
| 32.5° | 655.5 | 658.4 | 675.1 | 693.7 | 698.6 |
| 35°   | 631.0 | 632.9 | 650.6 | 669.2 | 673.1 |
| 37.5° | 603.5 | 606.5 | 625.1 | 641.8 | 645.7 |
| 40°   | 576.1 | 579.0 | 596.7 | 612.4 | 615.3 |
| 42.5° | 545.7 | 549.7 | 567.3 | 580.0 | 582.0 |
| 45°   | 515.4 | 519.3 | 535.0 | 545.7 | 545.7 |
| 47.5° | 485.0 | 487.0 | 500.7 | 511.4 | 510.5 |
| 50°   | 455.6 | 454.6 | 467.4 | 472.3 | 472.3 |
| 52.5° | 419.3 | 422.3 | 431.1 | 434.0 | 431.1 |
| 55°   | 386.0 | 388.0 | 393.9 | 394.9 | 391.9 |
| 57.5° | 353.7 | 352.7 | 357.6 | 354.7 | 350.8 |
| 60°   | 318.4 | 318.4 | 318.4 | 315.5 | 309.6 |
| 62.5° | 284.1 | 282.2 | 281.2 | 274.3 | 271.4 |
| 65°   | 249.8 | 244.9 | 244.0 | 235.1 | 230.2 |
| 67.5° | 213.6 | 211.6 | 206.7 | 197.9 | 189.1 |
| 70°   | 179.3 | 177.3 | 171.5 | 160.7 | 154.8 |
| 72.5° | 147.9 | 146.0 | 138.1 | 125.4 | 117.6 |
| 75°   | 117.6 | 115.6 | 106.8 | 93.1  | 90.1  |
| 77.5° | 89.2  | 88.2  | 79.4  | 72.5  | 71.5  |
| 80°   | 64.7  | 63.7  | 55.8  | 55.8  | 54.9  |
| 82.5° | 41.2  | 41.2  | 39.2  | 40.2  | 41.2  |
| 85°   | 21.6  | 23.5  | 25.5  | 26.5  | 27.4  |
| 87.5° | 6.9   | 10.8  | 12.7  | 13.7  | 12.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)