

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: P297862

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-23L82765-LD5-UNV-14-T1-W2A-6500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2474.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

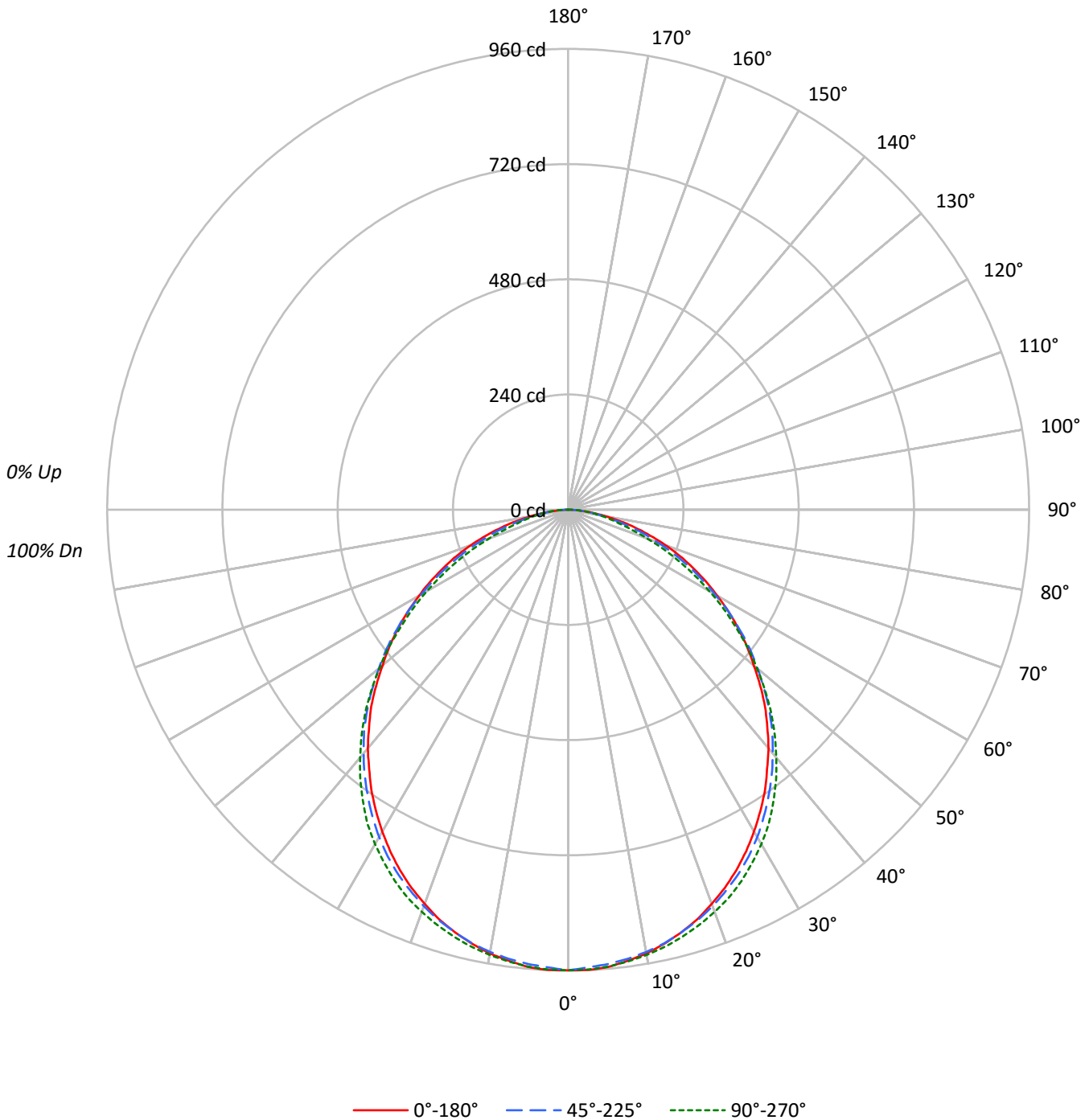
Input Watts (W): 21.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 95  | 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  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 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  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2582 | 2582 | 2582 |
| 5°  | 2583 | 2566 | 2581 |
| 10° | 2565 | 2556 | 2573 |
| 15° | 2539 | 2539 | 2565 |
| 20° | 2502 | 2517 | 2553 |
| 25° | 2460 | 2488 | 2535 |
| 30° | 2405 | 2447 | 2499 |
| 35° | 2346 | 2391 | 2446 |
| 40° | 2281 | 2328 | 2369 |
| 45° | 2207 | 2255 | 2275 |
| 50° | 2112 | 2156 | 2147 |
| 55° | 2032 | 2047 | 1993 |
| 60° | 1931 | 1902 | 1829 |
| 65° | 1823 | 1750 | 1629 |
| 70° | 1692 | 1552 | 1378 |
| 75° | 1504 | 1330 | 1134 |
| 80° | 1252 | 1089 | 1057 |
| 85° | 908  | 973  | 973  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 3.7       |
| 10°-20°   | 258.0  | 10.4      |
| 20°-30°   | 386.6  | 15.6      |
| 30°-40°   | 455.5  | 18.4      |
| 40°-50°   | 454.3  | 18.4      |
| 50°-60°   | 386.4  | 15.6      |
| 60°-70°   | 269.7  | 10.9      |
| 70°-80°   | 137.1  | 5.5       |
| 80°-90°   | 35.8   | 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°    | 735.1  | 29.7      |
| 0°-40°    | 1190.6 | 48.1      |
| 0°-60°    | 2031.4 | 82.1      |
| 0°-90°    | 2474.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2474.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 960 | 960   | 960 | 960   | 960 |      |
| 5°  | 956 | 954   | 950 | 955   | 955 | 91   |
| 15° | 911 | 911   | 911 | 920   | 921 | 257  |
| 25° | 828 | 830   | 838 | 850   | 854 | 381  |
| 35° | 714 | 715   | 728 | 742   | 745 | 446  |
| 45° | 580 | 582   | 592 | 597   | 598 | 446  |
| 55° | 433 | 433   | 436 | 430   | 425 | 387  |
| 65° | 286 | 282   | 275 | 260   | 256 | 284  |
| 75° | 145 | 140   | 128 | 112   | 109 | 154  |
| 85° | 29  | 30    | 32  | 32    | 32  | 36   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 |
| 2.5°  | 959.6 | 958.5 | 954.3 | 958.5 | 958.5 |
| 5°    | 956.4 | 954.3 | 950.1 | 955.4 | 955.4 |
| 7.5°  | 948.0 | 947.0 | 943.8 | 949.1 | 949.1 |
| 10°   | 938.6 | 937.6 | 935.5 | 941.8 | 941.8 |
| 12.5° | 926.0 | 926.0 | 925.0 | 931.3 | 932.3 |
| 15°   | 911.3 | 911.3 | 911.3 | 919.7 | 920.8 |
| 17.5° | 894.6 | 893.5 | 896.7 | 906.1 | 907.1 |
| 20°   | 873.6 | 874.6 | 878.8 | 889.3 | 891.4 |
| 22.5° | 852.6 | 853.7 | 858.9 | 871.5 | 874.6 |
| 25°   | 828.5 | 829.5 | 837.9 | 850.5 | 853.7 |
| 27.5° | 802.3 | 804.4 | 813.8 | 827.4 | 829.5 |
| 30°   | 774.0 | 776.1 | 787.6 | 801.2 | 804.4 |
| 32.5° | 744.6 | 747.7 | 758.2 | 772.9 | 777.1 |
| 35°   | 714.2 | 715.2 | 727.8 | 742.5 | 744.6 |
| 37.5° | 680.6 | 683.8 | 696.4 | 708.9 | 711.0 |
| 40°   | 649.2 | 651.3 | 662.8 | 673.3 | 674.3 |
| 42.5° | 613.5 | 616.6 | 629.2 | 636.6 | 636.6 |
| 45°   | 579.9 | 582.0 | 592.5 | 596.7 | 597.8 |
| 47.5° | 542.2 | 544.3 | 553.7 | 555.8 | 555.8 |
| 50°   | 504.4 | 509.7 | 514.9 | 514.9 | 512.8 |
| 52.5° | 469.8 | 470.9 | 477.2 | 473.0 | 470.9 |
| 55°   | 433.1 | 433.1 | 436.3 | 430.0 | 424.7 |
| 57.5° | 396.4 | 396.4 | 396.4 | 388.0 | 383.8 |
| 60°   | 358.7 | 357.6 | 353.4 | 342.9 | 339.8 |
| 62.5° | 323.0 | 319.9 | 313.6 | 303.1 | 296.8 |
| 65°   | 286.3 | 282.1 | 274.8 | 260.1 | 255.9 |
| 67.5° | 251.7 | 244.4 | 236.0 | 222.3 | 215.0 |
| 70°   | 215.0 | 208.7 | 197.2 | 181.4 | 175.1 |
| 72.5° | 179.3 | 173.0 | 163.6 | 147.9 | 138.4 |
| 75°   | 144.7 | 139.5 | 127.9 | 112.2 | 109.1 |
| 77.5° | 111.2 | 108.0 | 96.5  | 89.1  | 88.1  |
| 80°   | 80.8  | 79.7  | 70.3  | 68.2  | 68.2  |
| 82.5° | 53.5  | 52.4  | 49.3  | 49.3  | 48.2  |
| 85°   | 29.4  | 30.4  | 31.5  | 31.5  | 31.5  |
| 87.5° | 10.5  | 12.6  | 14.7  | 14.7  | 14.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)