

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: P297944

Luminaire Tested: **D3X-WO-31L92765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297944  
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-31L92765-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2669.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 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

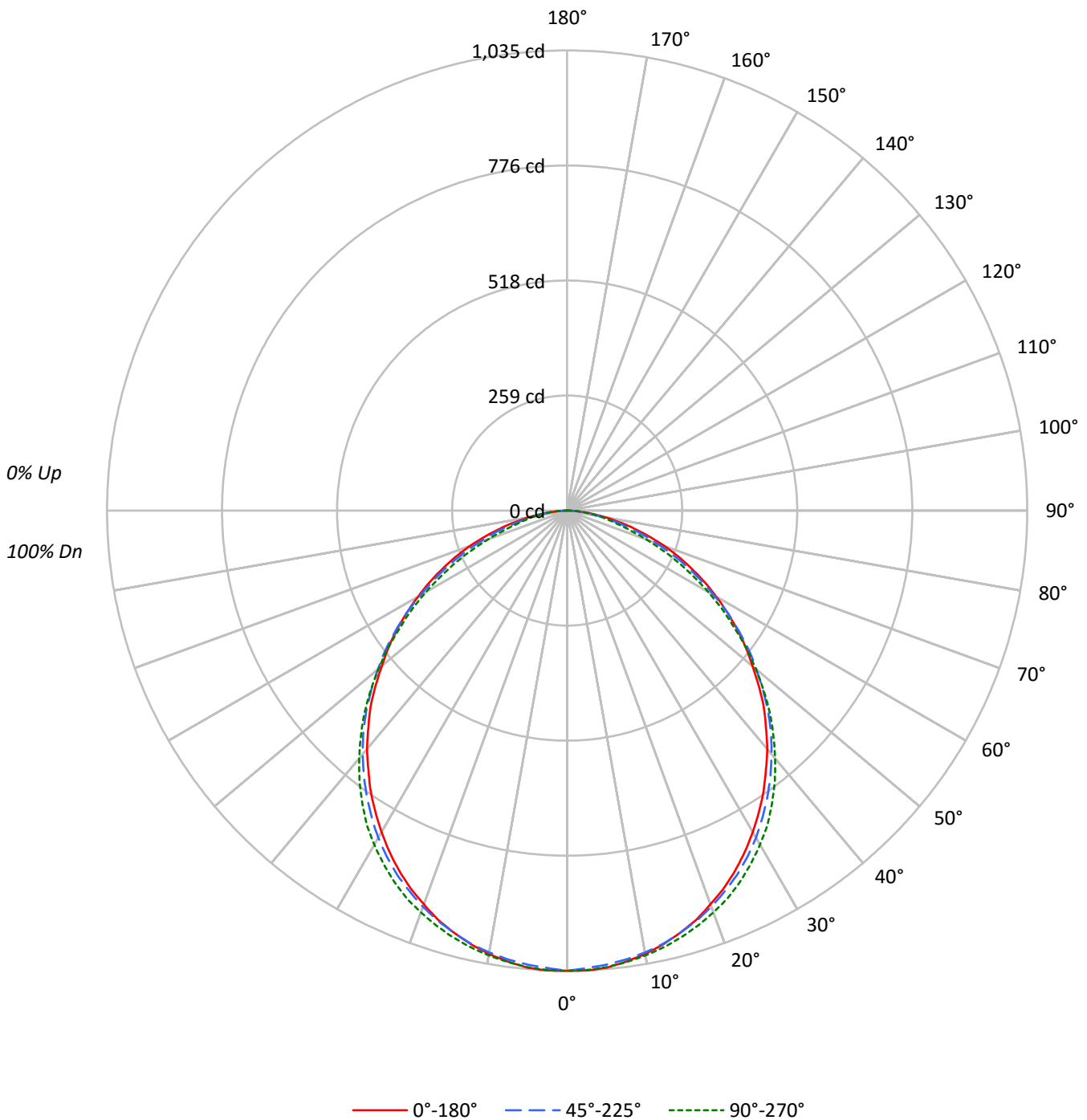
Input Watts (W): 28.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 2786 | 2786 | 2786 |
| 5°  | 2787 | 2769 | 2784 |
| 10° | 2767 | 2758 | 2776 |
| 15° | 2739 | 2739 | 2768 |
| 20° | 2699 | 2715 | 2754 |
| 25° | 2654 | 2684 | 2734 |
| 30° | 2595 | 2640 | 2696 |
| 35° | 2531 | 2579 | 2639 |
| 40° | 2460 | 2512 | 2556 |
| 45° | 2381 | 2433 | 2454 |
| 50° | 2278 | 2326 | 2316 |
| 55° | 2192 | 2208 | 2150 |
| 60° | 2082 | 2052 | 1973 |
| 65° | 1967 | 1887 | 1758 |
| 70° | 1825 | 1674 | 1486 |
| 75° | 1623 | 1435 | 1224 |
| 80° | 1350 | 1175 | 1139 |
| 85° | 979  | 1047 | 1047 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.7   | 3.7       |
| 10°-20°   | 278.3  | 10.4      |
| 20°-30°   | 417.1  | 15.6      |
| 30°-40°   | 491.4  | 18.4      |
| 40°-50°   | 490.1  | 18.4      |
| 50°-60°   | 416.9  | 15.6      |
| 60°-70°   | 291.0  | 10.9      |
| 70°-80°   | 147.9  | 5.5       |
| 80°-90°   | 38.6   | 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°    | 793.1  | 29.7      |
| 0°-40°    | 1284.5 | 48.1      |
| 0°-60°    | 2191.5 | 82.1      |
| 0°-90°    | 2669.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2669.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1035 | 1035  | 1035 | 1035  | 1035 |      |
| 5°  | 1032 | 1030  | 1025 | 1031  | 1031 | 98   |
| 15° | 983  | 983   | 983  | 992   | 993  | 277  |
| 25° | 894  | 895   | 904  | 918   | 921  | 411  |
| 35° | 770  | 772   | 785  | 801   | 803  | 481  |
| 45° | 626  | 628   | 639  | 644   | 645  | 481  |
| 55° | 467  | 467   | 471  | 464   | 458  | 417  |
| 65° | 309  | 304   | 296  | 281   | 276  | 306  |
| 75° | 156  | 150   | 138  | 121   | 118  | 166  |
| 85° | 32   | 33    | 34   | 34    | 34   | 39   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1035.2 | 1035.2 | 1035.2 | 1035.2 | 1035.2 |
| 2.5°  | 1035.2 | 1034.1 | 1029.6 | 1034.1 | 1034.1 |
| 5°    | 1031.8 | 1029.6 | 1025.0 | 1030.7 | 1030.7 |
| 7.5°  | 1022.8 | 1021.6 | 1018.2 | 1023.9 | 1023.9 |
| 10°   | 1012.6 | 1011.5 | 1009.2 | 1016.0 | 1016.0 |
| 12.5° | 999.0  | 999.0  | 997.9  | 1004.7 | 1005.8 |
| 15°   | 983.2  | 983.2  | 983.2  | 992.2  | 993.4  |
| 17.5° | 965.1  | 963.9  | 967.3  | 977.5  | 978.6  |
| 20°   | 942.4  | 943.6  | 948.1  | 959.4  | 961.7  |
| 22.5° | 919.8  | 920.9  | 926.6  | 940.2  | 943.6  |
| 25°   | 893.8  | 894.9  | 904.0  | 917.5  | 920.9  |
| 27.5° | 865.5  | 867.8  | 878.0  | 892.7  | 894.9  |
| 30°   | 835.0  | 837.2  | 849.7  | 864.4  | 867.8  |
| 32.5° | 803.3  | 806.7  | 818.0  | 833.8  | 838.4  |
| 35°   | 770.5  | 771.6  | 785.2  | 801.0  | 803.3  |
| 37.5° | 734.3  | 737.7  | 751.2  | 764.8  | 767.1  |
| 40°   | 700.3  | 702.6  | 715.0  | 726.3  | 727.5  |
| 42.5° | 661.9  | 665.3  | 678.8  | 686.7  | 686.7  |
| 45°   | 625.7  | 627.9  | 639.2  | 643.8  | 644.9  |
| 47.5° | 584.9  | 587.2  | 597.4  | 599.6  | 599.6  |
| 50°   | 544.2  | 549.9  | 555.5  | 555.5  | 553.2  |
| 52.5° | 506.9  | 508.0  | 514.8  | 510.3  | 508.0  |
| 55°   | 467.3  | 467.3  | 470.7  | 463.9  | 458.2  |
| 57.5° | 427.7  | 427.7  | 427.7  | 418.6  | 414.1  |
| 60°   | 386.9  | 385.8  | 381.3  | 370.0  | 366.6  |
| 62.5° | 348.5  | 345.1  | 338.3  | 327.0  | 320.2  |
| 65°   | 308.9  | 304.3  | 296.4  | 280.6  | 276.1  |
| 67.5° | 271.5  | 263.6  | 254.6  | 239.9  | 231.9  |
| 70°   | 231.9  | 225.1  | 212.7  | 195.7  | 188.9  |
| 72.5° | 193.5  | 186.7  | 176.5  | 159.5  | 149.3  |
| 75°   | 156.1  | 150.5  | 138.0  | 121.1  | 117.7  |
| 77.5° | 119.9  | 116.5  | 104.1  | 96.2   | 95.0   |
| 80°   | 87.1   | 86.0   | 75.8   | 73.5   | 73.5   |
| 82.5° | 57.7   | 56.6   | 53.2   | 53.2   | 52.0   |
| 85°   | 31.7   | 32.8   | 33.9   | 33.9   | 33.9   |
| 87.5° | 11.3   | 13.6   | 15.8   | 15.8   | 15.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)