

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: P385391

Luminaire Tested: **24ID-85-L835-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-85-L835-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

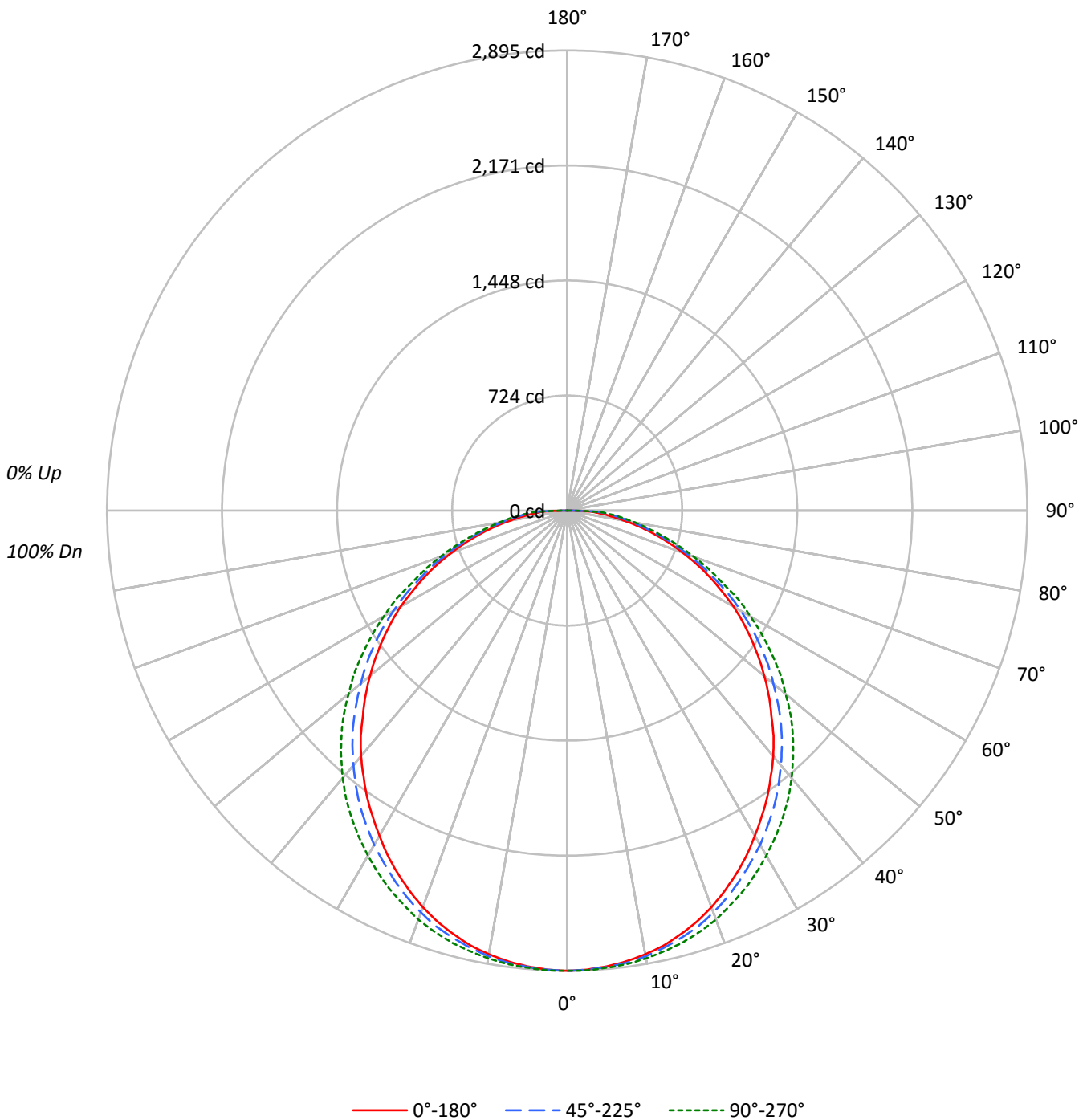
Lumens per Lamp: N/A  
Luminaire Lumens: 8397.6 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 82  
Input Voltage (V): NR  
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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 108 | 103 | 99  | 94  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 82  |    |    |    |    | 82  |   |  |   |
| 2   | 98  | 90  | 82  | 77  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 70  | 68  |    |    |    |    | 68  |   |  |   |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |    |    |    |    | 57  |   |  |   |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |    | 33  |   |  |   |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 40  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |    |    |    |    | 24  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3896 | 3896 | 3896 |
| 5°  | 3873 | 3863 | 3871 |
| 10° | 3844 | 3830 | 3851 |
| 15° | 3802 | 3785 | 3832 |
| 20° | 3745 | 3732 | 3805 |
| 25° | 3670 | 3661 | 3763 |
| 30° | 3584 | 3589 | 3716 |
| 35° | 3506 | 3512 | 3667 |
| 40° | 3424 | 3420 | 3606 |
| 45° | 3319 | 3329 | 3528 |
| 50° | 3231 | 3209 | 3417 |
| 55° | 3133 | 3093 | 3296 |
| 60° | 3036 | 2945 | 3132 |
| 65° | 2897 | 2758 | 2913 |
| 70° | 2729 | 2557 | 2712 |
| 75° | 2534 | 2339 | 2476 |
| 80° | 2272 | 2119 | 2275 |
| 85° | 2146 | 2012 | 2175 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 274.0  | 3.3       |
| 10°-20°   | 785.1  | 9.3       |
| 20°-30°   | 1184.8 | 14.1      |
| 30°-40°   | 1422.1 | 16.9      |
| 40°-50°   | 1471.7 | 17.5      |
| 50°-60°   | 1333.3 | 15.9      |
| 60°-70°   | 1027.2 | 12.2      |
| 70°-80°   | 635.6  | 7.6       |
| 80°-90°   | 264.0  | 3.1       |
| 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°    | 2243.8 | 26.7      |
| 0°-40°    | 3665.8 | 43.7      |
| 0°-60°    | 6470.8 | 77.1      |
| 0°-90°    | 8397.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8397.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2895 | 2895  | 2895 | 2895  | 2895 |      |
| 5°  | 2878 | 2878  | 2882 | 2882  | 2887 | 273  |
| 15° | 2760 | 2764  | 2782 | 2799  | 2812 | 778  |
| 25° | 2520 | 2528  | 2568 | 2612  | 2633 | 1161 |
| 35° | 2197 | 2214  | 2271 | 2332  | 2362 | 1373 |
| 45° | 1817 | 1843  | 1904 | 1974  | 2009 | 1405 |
| 55° | 1415 | 1437  | 1485 | 1550  | 1572 | 1267 |
| 65° | 991  | 1000  | 1031 | 1074  | 1079 | 980  |
| 75° | 563  | 576   | 598  | 624   | 624  | 597  |
| 85° | 205  | 227   | 262  | 280   | 275  | 222  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2895.3 | 2895.3 | 2895.3 | 2895.3 | 2895.3 |
| 2.5°  | 2891.0 | 2891.0 | 2891.0 | 2891.0 | 2895.3 |
| 5°    | 2877.9 | 2877.9 | 2882.2 | 2882.2 | 2886.6 |
| 7.5°  | 2860.4 | 2860.4 | 2869.1 | 2869.1 | 2877.9 |
| 10°   | 2834.2 | 2838.6 | 2847.3 | 2851.7 | 2860.4 |
| 12.5° | 2803.6 | 2803.6 | 2816.7 | 2829.8 | 2838.6 |
| 15°   | 2759.9 | 2764.3 | 2781.8 | 2799.2 | 2812.3 |
| 17.5° | 2711.9 | 2716.3 | 2742.5 | 2759.9 | 2777.4 |
| 20°   | 2655.1 | 2659.5 | 2690.1 | 2716.3 | 2738.1 |
| 22.5° | 2589.6 | 2598.4 | 2633.3 | 2668.2 | 2685.7 |
| 25°   | 2519.8 | 2528.5 | 2567.8 | 2611.5 | 2633.3 |
| 27.5° | 2445.5 | 2458.6 | 2497.9 | 2546.0 | 2572.2 |
| 30°   | 2362.5 | 2380.0 | 2428.1 | 2480.5 | 2506.7 |
| 32.5° | 2279.6 | 2297.0 | 2349.4 | 2410.6 | 2436.8 |
| 35°   | 2196.6 | 2214.1 | 2270.8 | 2332.0 | 2362.5 |
| 37.5° | 2104.9 | 2122.4 | 2183.5 | 2249.0 | 2283.9 |
| 40°   | 2017.6 | 2035.0 | 2091.8 | 2166.0 | 2196.6 |
| 42.5° | 1921.5 | 1938.9 | 2000.1 | 2070.0 | 2104.9 |
| 45°   | 1816.7 | 1842.9 | 1904.0 | 1973.9 | 2008.8 |
| 47.5° | 1720.6 | 1742.4 | 1799.2 | 1873.4 | 1908.4 |
| 50°   | 1620.2 | 1642.0 | 1694.4 | 1768.6 | 1794.8 |
| 52.5° | 1519.7 | 1541.6 | 1594.0 | 1663.8 | 1690.0 |
| 55°   | 1414.9 | 1436.7 | 1484.8 | 1550.3 | 1572.1 |
| 57.5° | 1314.5 | 1331.9 | 1375.6 | 1436.7 | 1454.2 |
| 60°   | 1209.7 | 1227.1 | 1262.1 | 1318.8 | 1331.9 |
| 62.5° | 1096.1 | 1109.2 | 1148.5 | 1200.9 | 1218.4 |
| 65°   | 991.3  | 1000.0 | 1030.6 | 1074.3 | 1078.6 |
| 67.5° | 882.1  | 890.9  | 921.4  | 952.0  | 965.1  |
| 70°   | 773.0  | 786.1  | 807.9  | 838.5  | 847.2  |
| 72.5° | 668.2  | 681.3  | 703.1  | 729.3  | 733.7  |
| 75°   | 563.3  | 576.4  | 598.3  | 624.5  | 624.5  |
| 77.5° | 462.9  | 476.0  | 502.2  | 524.0  | 524.0  |
| 80°   | 362.5  | 384.3  | 410.5  | 432.3  | 432.3  |
| 82.5° | 279.5  | 297.0  | 331.9  | 349.4  | 349.4  |
| 85°   | 205.2  | 227.1  | 262.0  | 279.5  | 275.1  |
| 87.5° | 148.5  | 170.3  | 200.9  | 214.0  | 209.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)