

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: P385395

Luminaire Tested: **24ID-90-L835-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385395  
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-90-L835-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

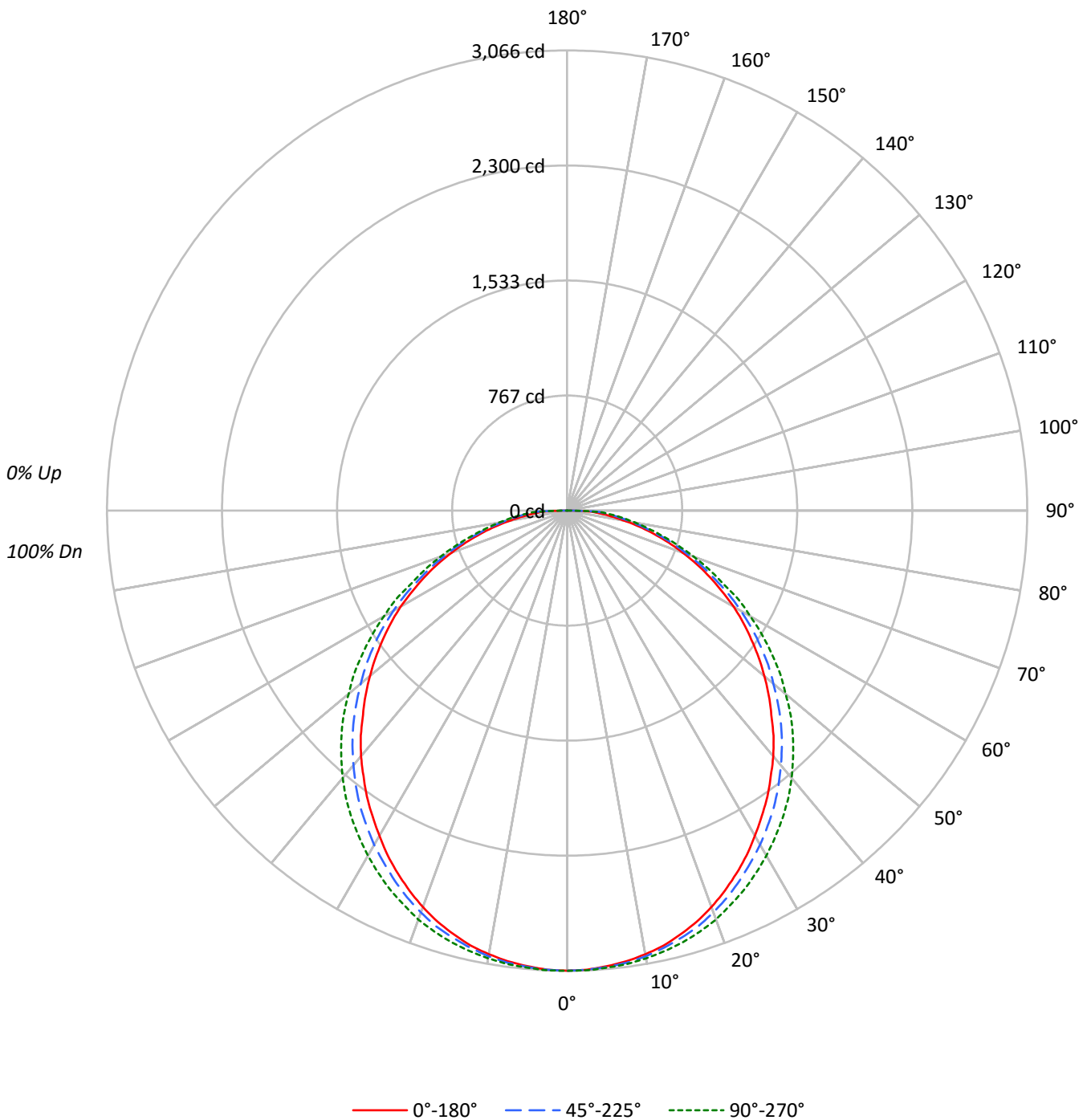
Lumens per Lamp: N/A  
Luminaire Lumens: 8893.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 87.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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   | 108 | 103 | 99  | 94  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 82  |
| 2   | 98  | 90  | 82  | 77  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 40  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4125 | 4125 | 4125 |
| 5°  | 4101 | 4091 | 4099 |
| 10° | 4071 | 4056 | 4079 |
| 15° | 4026 | 4009 | 4058 |
| 20° | 3966 | 3952 | 4030 |
| 25° | 3886 | 3877 | 3985 |
| 30° | 3796 | 3801 | 3935 |
| 35° | 3713 | 3720 | 3883 |
| 40° | 3626 | 3622 | 3819 |
| 45° | 3514 | 3525 | 3736 |
| 50° | 3421 | 3398 | 3619 |
| 55° | 3318 | 3275 | 3490 |
| 60° | 3215 | 3119 | 3317 |
| 65° | 3068 | 2921 | 3085 |
| 70° | 2890 | 2708 | 2872 |
| 75° | 2684 | 2477 | 2622 |
| 80° | 2405 | 2244 | 2409 |
| 85° | 2273 | 2131 | 2304 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 290.1  | 3.3       |
| 10°-20°   | 831.4  | 9.3       |
| 20°-30°   | 1254.6 | 14.1      |
| 30°-40°   | 1505.9 | 16.9      |
| 40°-50°   | 1558.5 | 17.5      |
| 50°-60°   | 1411.9 | 15.9      |
| 60°-70°   | 1087.8 | 12.2      |
| 70°-80°   | 673.1  | 7.6       |
| 80°-90°   | 279.6  | 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°    | 2376.2 | 26.7      |
| 0°-40°    | 3882.1 | 43.7      |
| 0°-60°    | 6852.5 | 77.1      |
| 0°-90°    | 8893.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8893.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3066 | 3066  | 3066 | 3066  | 3066 |      |
| 5°  | 3048 | 3048  | 3052 | 3052  | 3057 | 290  |
| 15° | 2923 | 2927  | 2946 | 2964  | 2978 | 824  |
| 25° | 2668 | 2678  | 2719 | 2766  | 2789 | 1229 |
| 35° | 2326 | 2345  | 2405 | 2470  | 2502 | 1454 |
| 45° | 1924 | 1952  | 2016 | 2090  | 2127 | 1488 |
| 55° | 1498 | 1522  | 1572 | 1642  | 1665 | 1342 |
| 65° | 1050 | 1059  | 1091 | 1138  | 1142 | 1038 |
| 75° | 597  | 610   | 634  | 661   | 661  | 632  |
| 85° | 217  | 240   | 278  | 296   | 291  | 235  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3066.1 | 3066.1 | 3066.1 | 3066.1 | 3066.1 |
| 2.5°  | 3061.5 | 3061.5 | 3061.5 | 3061.5 | 3066.1 |
| 5°    | 3047.6 | 3047.6 | 3052.3 | 3052.3 | 3056.9 |
| 7.5°  | 3029.1 | 3029.1 | 3038.4 | 3038.4 | 3047.6 |
| 10°   | 3001.4 | 3006.0 | 3015.3 | 3019.9 | 3029.1 |
| 12.5° | 2969.0 | 2969.0 | 2982.9 | 2996.8 | 3006.0 |
| 15°   | 2922.8 | 2927.4 | 2945.9 | 2964.4 | 2978.3 |
| 17.5° | 2871.9 | 2876.5 | 2904.3 | 2922.8 | 2941.3 |
| 20°   | 2811.8 | 2816.4 | 2848.8 | 2876.5 | 2899.6 |
| 22.5° | 2742.4 | 2751.7 | 2788.6 | 2825.6 | 2844.1 |
| 25°   | 2668.4 | 2677.7 | 2719.3 | 2765.5 | 2788.6 |
| 27.5° | 2589.8 | 2603.7 | 2645.3 | 2696.2 | 2723.9 |
| 30°   | 2501.9 | 2520.4 | 2571.3 | 2626.8 | 2654.5 |
| 32.5° | 2414.1 | 2432.6 | 2488.0 | 2552.8 | 2580.5 |
| 35°   | 2326.2 | 2344.7 | 2404.8 | 2469.5 | 2501.9 |
| 37.5° | 2229.1 | 2247.6 | 2312.3 | 2381.7 | 2418.7 |
| 40°   | 2136.6 | 2155.1 | 2215.2 | 2293.8 | 2326.2 |
| 42.5° | 2034.8 | 2053.3 | 2118.1 | 2192.1 | 2229.1 |
| 45°   | 1923.8 | 1951.6 | 2016.3 | 2090.3 | 2127.3 |
| 47.5° | 1822.1 | 1845.2 | 1905.3 | 1984.0 | 2021.0 |
| 50°   | 1715.7 | 1738.9 | 1794.4 | 1873.0 | 1900.7 |
| 52.5° | 1609.4 | 1632.5 | 1688.0 | 1762.0 | 1789.7 |
| 55°   | 1498.4 | 1521.5 | 1572.4 | 1641.7 | 1664.9 |
| 57.5° | 1392.0 | 1410.5 | 1456.8 | 1521.5 | 1540.0 |
| 60°   | 1281.0 | 1299.5 | 1336.5 | 1396.6 | 1410.5 |
| 62.5° | 1160.8 | 1174.7 | 1216.3 | 1271.8 | 1290.3 |
| 65°   | 1049.8 | 1059.0 | 1091.4 | 1137.7 | 1142.3 |
| 67.5° | 934.2  | 943.4  | 975.8  | 1008.2 | 1022.0 |
| 70°   | 818.6  | 832.4  | 855.6  | 887.9  | 897.2  |
| 72.5° | 707.6  | 721.4  | 744.6  | 772.3  | 776.9  |
| 75°   | 596.6  | 610.5  | 633.6  | 661.3  | 661.3  |
| 77.5° | 490.2  | 504.1  | 531.8  | 555.0  | 555.0  |
| 80°   | 383.8  | 407.0  | 434.7  | 457.8  | 457.8  |
| 82.5° | 296.0  | 314.5  | 351.5  | 370.0  | 370.0  |
| 85°   | 217.4  | 240.5  | 277.5  | 296.0  | 291.4  |
| 87.5° | 157.2  | 180.4  | 212.7  | 226.6  | 222.0  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)