

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: P383986

Luminaire Tested: **22ID-75-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-75-L830-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

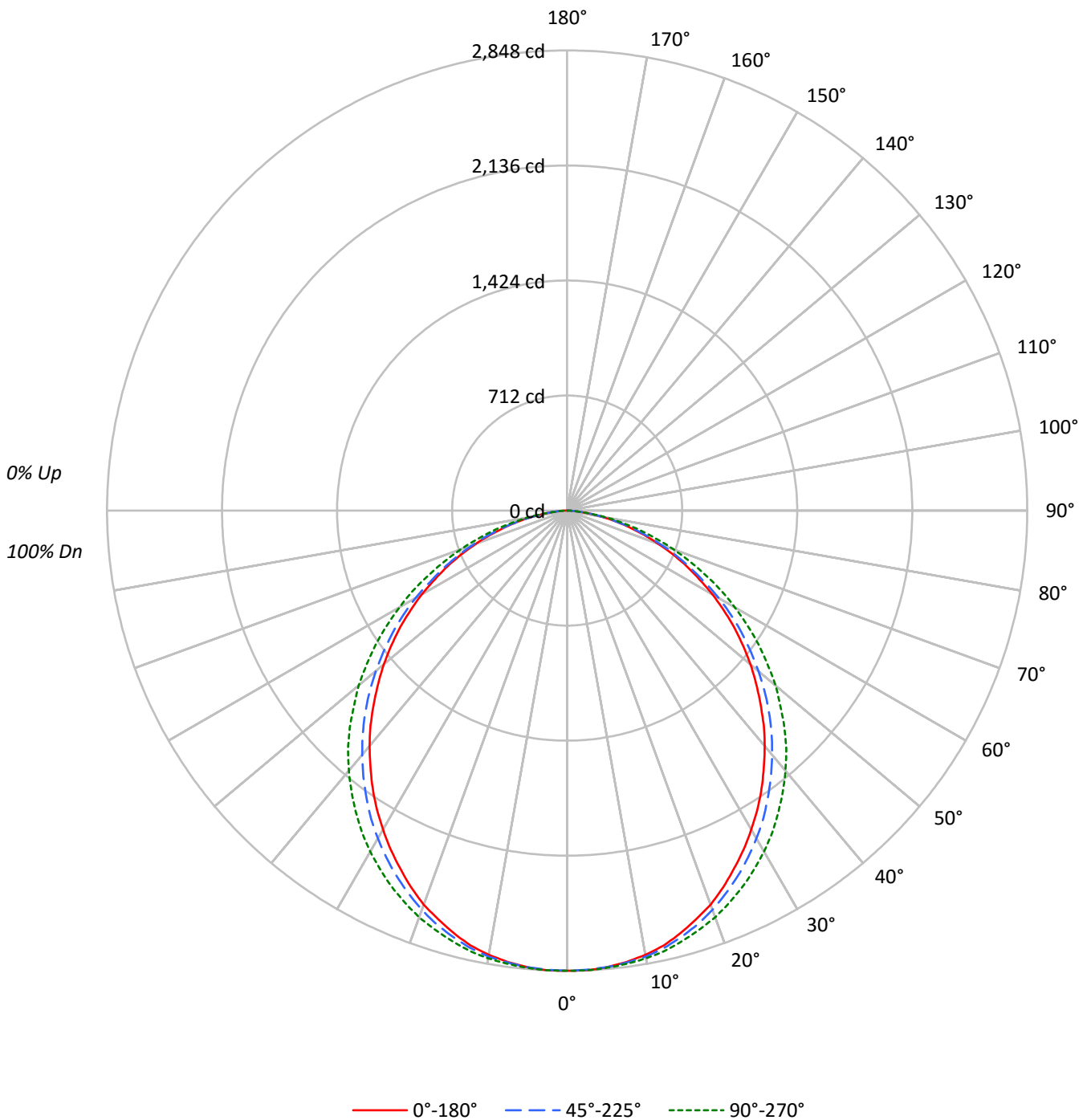
Lumens per Lamp: N/A  
Luminaire Lumens: 7518.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 65.8  
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  | 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 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7664 | 7664 | 7664 |
| 5°  | 7662 | 7662 | 7673 |
| 10° | 7627 | 7658 | 7689 |
| 15° | 7546 | 7609 | 7682 |
| 20° | 7433 | 7530 | 7670 |
| 25° | 7259 | 7416 | 7628 |
| 30° | 7082 | 7281 | 7573 |
| 35° | 6893 | 7116 | 7487 |
| 40° | 6683 | 6934 | 7384 |
| 45° | 6437 | 6724 | 7240 |
| 50° | 6198 | 6466 | 7050 |
| 55° | 5921 | 6186 | 6787 |
| 60° | 5596 | 5839 | 6447 |
| 65° | 5205 | 5373 | 6020 |
| 70° | 4713 | 4891 | 5513 |
| 75° | 4112 | 4269 | 4818 |
| 80° | 3327 | 3386 | 3795 |
| 85° | 1976 | 2211 | 1862 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 269.6  | 3.6       |
| 10°-20°   | 770.6  | 10.2      |
| 20°-30°   | 1152.7 | 15.3      |
| 30°-40°   | 1361.9 | 18.1      |
| 40°-50°   | 1374.2 | 18.3      |
| 50°-60°   | 1193.4 | 15.9      |
| 60°-70°   | 855.8  | 11.4      |
| 70°-80°   | 445.8  | 5.9       |
| 80°-90°   | 94.1   | 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°    | 2192.9 | 29.2      |
| 0°-40°    | 3554.7 | 47.3      |
| 0°-60°    | 6122.3 | 81.4      |
| 0°-90°    | 7518.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7518.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2848 | 2848  | 2848 | 2848  | 2848 |      |
| 5°  | 2837 | 2833  | 2837 | 2837  | 2840 | 269  |
| 15° | 2708 | 2712  | 2731 | 2750  | 2758 | 763  |
| 25° | 2445 | 2460  | 2498 | 2547  | 2569 | 1126 |
| 35° | 2098 | 2113  | 2166 | 2245  | 2279 | 1312 |
| 45° | 1691 | 1710  | 1767 | 1857  | 1902 | 1306 |
| 55° | 1262 | 1273  | 1318 | 1405  | 1447 | 1127 |
| 65° | 818  | 814   | 844  | 908   | 946  | 808  |
| 75° | 396  | 392   | 411  | 441   | 463  | 422  |
| 85° | 64   | 72    | 72   | 64    | 60   | 92   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2847.9 | 2847.9 | 2847.9 | 2847.9 | 2847.9 |
| 2.5°  | 2847.9 | 2844.2 | 2844.2 | 2844.2 | 2847.9 |
| 5°    | 2836.6 | 2832.8 | 2836.6 | 2836.6 | 2840.4 |
| 7.5°  | 2817.8 | 2814.0 | 2821.5 | 2825.3 | 2829.1 |
| 10°   | 2791.4 | 2791.4 | 2802.7 | 2810.2 | 2814.0 |
| 12.5° | 2757.5 | 2757.5 | 2772.6 | 2783.9 | 2791.4 |
| 15°   | 2708.5 | 2712.3 | 2731.1 | 2750.0 | 2757.5 |
| 17.5° | 2652.0 | 2663.3 | 2685.9 | 2712.3 | 2719.8 |
| 20°   | 2595.5 | 2603.1 | 2629.4 | 2663.3 | 2678.4 |
| 22.5° | 2523.9 | 2535.2 | 2565.4 | 2610.6 | 2625.7 |
| 25°   | 2444.8 | 2459.9 | 2497.6 | 2546.6 | 2569.2 |
| 27.5° | 2365.7 | 2377.0 | 2422.2 | 2478.7 | 2505.1 |
| 30°   | 2279.1 | 2294.2 | 2343.1 | 2407.2 | 2437.3 |
| 32.5° | 2192.4 | 2203.7 | 2260.3 | 2328.1 | 2362.0 |
| 35°   | 2098.3 | 2113.3 | 2166.1 | 2245.2 | 2279.1 |
| 37.5° | 2000.3 | 2019.2 | 2071.9 | 2154.8 | 2192.4 |
| 40°   | 1902.4 | 1913.7 | 1974.0 | 2056.8 | 2102.0 |
| 42.5° | 1800.7 | 1815.7 | 1872.2 | 1962.7 | 2007.9 |
| 45°   | 1691.4 | 1710.3 | 1766.8 | 1857.2 | 1902.4 |
| 47.5° | 1585.9 | 1604.8 | 1657.5 | 1747.9 | 1789.4 |
| 50°   | 1480.5 | 1491.8 | 1544.5 | 1634.9 | 1683.9 |
| 52.5° | 1371.2 | 1382.5 | 1431.5 | 1518.1 | 1563.3 |
| 55°   | 1262.0 | 1273.3 | 1318.5 | 1405.1 | 1446.6 |
| 57.5° | 1149.0 | 1156.5 | 1201.7 | 1280.8 | 1322.2 |
| 60°   | 1039.7 | 1043.5 | 1084.9 | 1156.5 | 1197.9 |
| 62.5° | 922.9  | 926.7  | 956.8  | 1039.7 | 1077.4 |
| 65°   | 817.5  | 813.7  | 843.8  | 907.9  | 945.5  |
| 67.5° | 708.2  | 708.2  | 734.6  | 791.1  | 821.2  |
| 70°   | 599.0  | 599.0  | 621.6  | 670.5  | 700.7  |
| 72.5° | 497.3  | 497.3  | 516.1  | 553.8  | 576.4  |
| 75°   | 395.5  | 391.8  | 410.6  | 440.7  | 463.4  |
| 77.5° | 301.4  | 301.4  | 308.9  | 335.3  | 350.3  |
| 80°   | 214.7  | 214.7  | 218.5  | 233.6  | 244.9  |
| 82.5° | 135.6  | 135.6  | 135.6  | 143.1  | 146.9  |
| 85°   | 64.0   | 71.6   | 71.6   | 64.0   | 60.3   |
| 87.5° | 30.1   | 30.1   | 26.4   | 26.4   | 26.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)