

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: P383757

Luminaire Tested: **14ID-65-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-65-L850-CFR1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

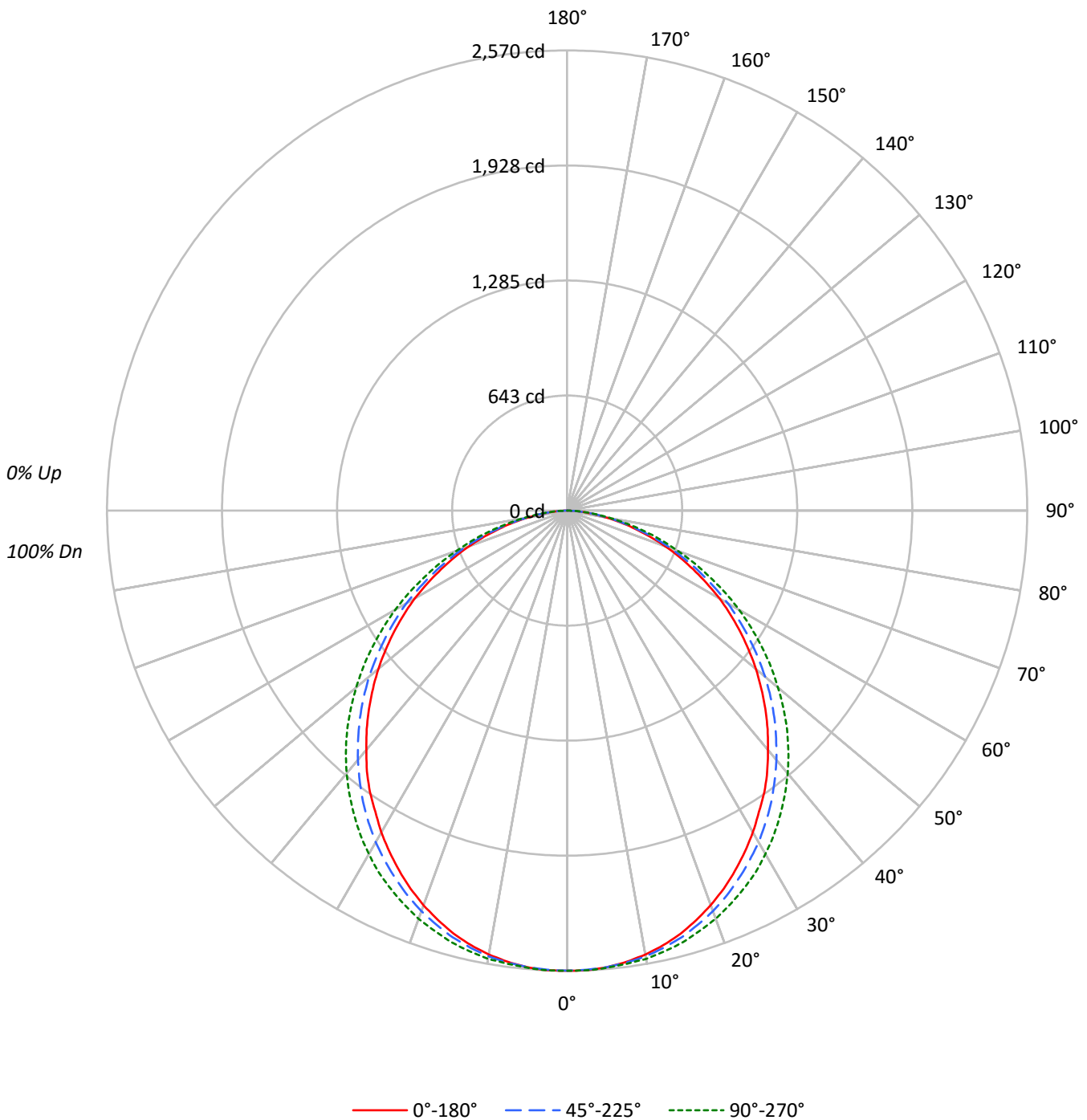
Lumens per Lamp: N/A  
Luminaire Lumens: 6979.6 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  |  | 94  | 91  | 89  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  |  | 82  | 78  | 74  |  | 79  | 76  | 73  | 71  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  | 66  | 62  | 60  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  |  | 58  | 52  | 47  |  | 57  | 51  | 46  | 44  |
| 6   | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  |  | 53  | 46  | 41  |  | 51  | 45  | 41  | 39  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  |  | 48  | 42  | 37  |  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  |  | 44  | 38  | 33  |  | 43  | 37  | 32  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  | 34  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  |  | 38  | 31  | 27  |  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6916 | 6916 | 6916 |
| 5°  | 6914 | 6914 | 6923 |
| 10° | 6879 | 6907 | 6946 |
| 15° | 6817 | 6876 | 6954 |
| 20° | 6716 | 6817 | 6947 |
| 25° | 6588 | 6734 | 6922 |
| 30° | 6447 | 6644 | 6884 |
| 35° | 6309 | 6528 | 6816 |
| 40° | 6130 | 6388 | 6734 |
| 45° | 5959 | 6226 | 6614 |
| 50° | 5762 | 6041 | 6438 |
| 55° | 5534 | 5814 | 6226 |
| 60° | 5290 | 5574 | 5971 |
| 65° | 4940 | 5231 | 5589 |
| 70° | 4585 | 4834 | 5165 |
| 75° | 4088 | 4308 | 4672 |
| 80° | 3428 | 3591 | 3918 |
| 85° | 2603 | 2603 | 2927 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.2  | 3.5       |
| 10°-20°   | 696.0  | 10.0      |
| 20°-30°   | 1046.5 | 15.0      |
| 30°-40°   | 1244.9 | 17.8      |
| 40°-50°   | 1266.7 | 18.1      |
| 50°-60°   | 1114.8 | 16.0      |
| 60°-70°   | 817.7  | 11.7      |
| 70°-80°   | 443.9  | 6.4       |
| 80°-90°   | 105.9  | 1.5       |
| 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°    | 1985.7 | 28.4      |
| 0°-40°    | 3230.6 | 46.3      |
| 0°-60°    | 5612.1 | 80.4      |
| 0°-90°    | 6979.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6979.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2570 | 2570  | 2570 | 2570  | 2570 |      |
| 5°  | 2559 | 2556  | 2559 | 2559  | 2563 | 243  |
| 15° | 2447 | 2451  | 2468 | 2482  | 2496 | 689  |
| 25° | 2219 | 2233  | 2268 | 2307  | 2331 | 1022 |
| 35° | 1920 | 1934  | 1987 | 2047  | 2075 | 1199 |
| 45° | 1566 | 1580  | 1636 | 1706  | 1738 | 1207 |
| 55° | 1180 | 1197  | 1239 | 1299  | 1327 | 1055 |
| 65° | 776  | 790   | 822  | 857   | 878  | 771  |
| 75° | 393  | 400   | 414  | 435   | 449  | 418  |
| 85° | 84   | 84    | 84   | 91    | 95   | 102  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2569.9 | 2569.9 | 2569.9 | 2569.9 | 2569.9 |
| 2.5°  | 2569.9 | 2566.4 | 2566.4 | 2566.4 | 2569.9 |
| 5°    | 2559.4 | 2555.9 | 2559.4 | 2559.4 | 2562.9 |
| 7.5°  | 2541.9 | 2538.3 | 2545.4 | 2548.9 | 2552.4 |
| 10°   | 2517.3 | 2517.3 | 2527.8 | 2534.8 | 2541.9 |
| 12.5° | 2485.7 | 2489.2 | 2499.7 | 2510.3 | 2520.8 |
| 15°   | 2447.1 | 2450.6 | 2468.1 | 2482.2 | 2496.2 |
| 17.5° | 2397.9 | 2404.9 | 2426.0 | 2447.1 | 2461.1 |
| 20°   | 2345.3 | 2355.8 | 2380.4 | 2408.4 | 2426.0 |
| 22.5° | 2285.6 | 2299.6 | 2327.7 | 2362.8 | 2380.4 |
| 25°   | 2218.9 | 2232.9 | 2268.0 | 2306.6 | 2331.2 |
| 27.5° | 2148.6 | 2166.2 | 2204.8 | 2250.5 | 2278.5 |
| 30°   | 2074.9 | 2092.5 | 2138.1 | 2187.3 | 2215.3 |
| 32.5° | 1994.2 | 2015.2 | 2064.4 | 2120.6 | 2148.6 |
| 35°   | 1920.4 | 1934.5 | 1987.1 | 2046.8 | 2074.9 |
| 37.5° | 1836.2 | 1853.7 | 1902.9 | 1966.1 | 1997.7 |
| 40°   | 1744.9 | 1762.4 | 1818.6 | 1881.8 | 1916.9 |
| 42.5° | 1657.1 | 1671.2 | 1727.3 | 1797.6 | 1829.2 |
| 45°   | 1565.8 | 1579.9 | 1636.1 | 1706.3 | 1737.9 |
| 47.5° | 1471.0 | 1488.6 | 1541.3 | 1608.0 | 1639.6 |
| 50°   | 1376.3 | 1390.3 | 1443.0 | 1506.2 | 1537.8 |
| 52.5° | 1278.0 | 1292.0 | 1341.1 | 1404.3 | 1435.9 |
| 55°   | 1179.6 | 1197.2 | 1239.3 | 1299.0 | 1327.1 |
| 57.5° | 1081.3 | 1098.9 | 1137.5 | 1193.7 | 1218.3 |
| 60°   | 983.0  | 997.1  | 1035.7 | 1084.9 | 1109.4 |
| 62.5° | 877.7  | 888.2  | 926.9  | 976.0  | 997.1  |
| 65°   | 775.9  | 789.9  | 821.5  | 856.6  | 877.7  |
| 67.5° | 681.1  | 688.1  | 716.2  | 754.8  | 768.9  |
| 70°   | 582.8  | 589.8  | 614.4  | 646.0  | 656.5  |
| 72.5° | 484.5  | 495.0  | 512.6  | 540.7  | 554.7  |
| 75°   | 393.2  | 400.2  | 414.3  | 435.3  | 449.4  |
| 77.5° | 305.4  | 309.0  | 319.5  | 337.0  | 347.6  |
| 80°   | 221.2  | 224.7  | 231.7  | 245.8  | 252.8  |
| 82.5° | 147.5  | 151.0  | 154.5  | 161.5  | 168.5  |
| 85°   | 84.3   | 84.3   | 84.3   | 91.3   | 94.8   |
| 87.5° | 31.6   | 28.1   | 28.1   | 28.1   | 28.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)