

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: P384199

Luminaire Tested: **24ID-65-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-65-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

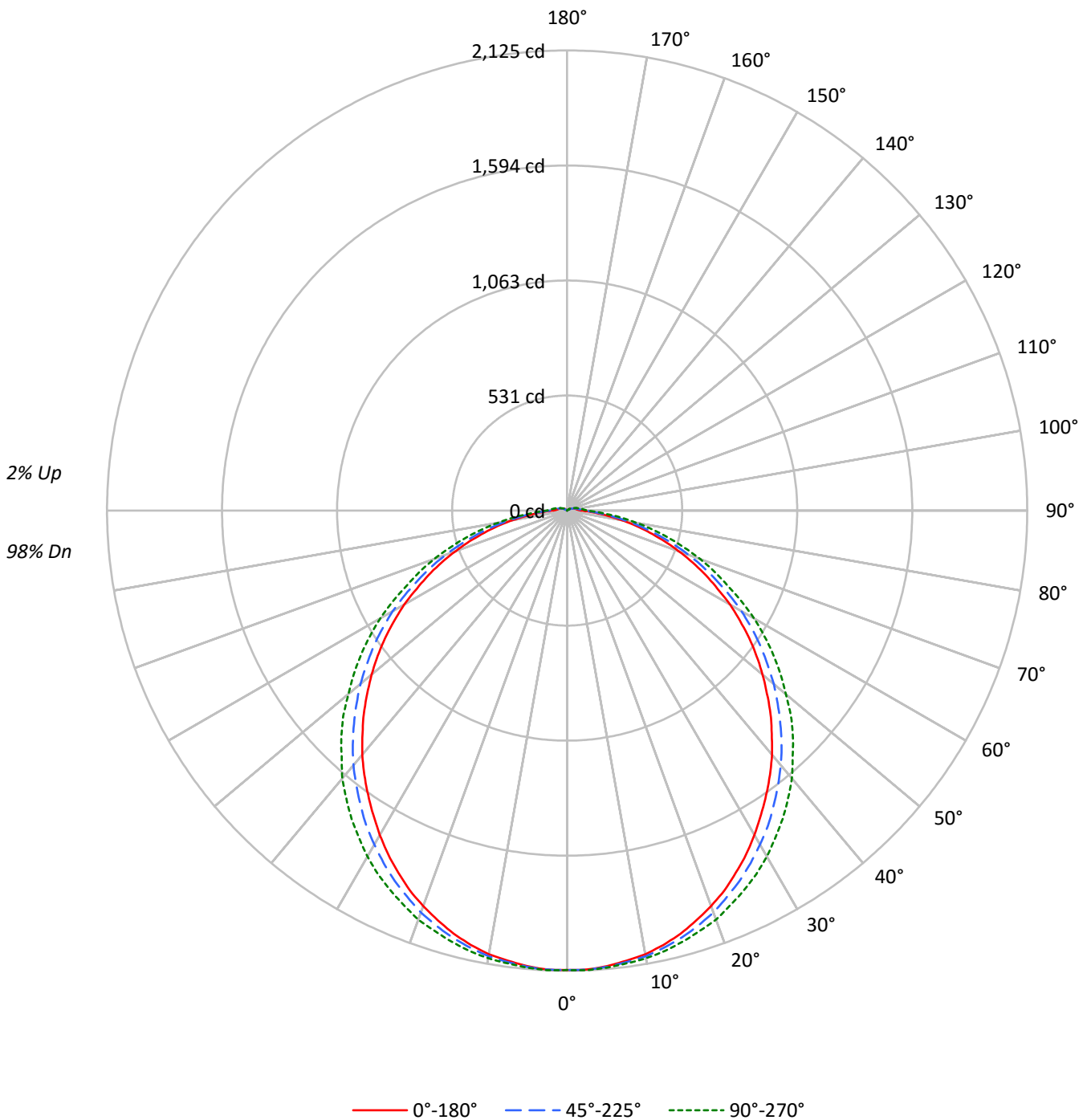
Lumens per Lamp: N/A  
Luminaire Lumens: 6283.6 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 60.5  
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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1   | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 91  | 88  | 86  | 87  | 85  | 83  | 81 |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 76  | 73  | 69  | 67 |
| 3   | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 63  | 73  | 67  | 61  | 70  | 64  | 60  | 67  | 62  | 58  | 56 |
| 4   | 81  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  | 62  | 56  | 51  | 60  | 55  | 50  | 48 |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  | 56  | 49  | 44  | 54  | 48  | 44  | 41 |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36 |
| 7   | 64  | 50  | 42  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32 |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 28 |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 26 |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2855 | 2855 | 2855 |
| 5°  | 2847 | 2846 | 2851 |
| 10° | 2832 | 2833 | 2847 |
| 15° | 2802 | 2811 | 2839 |
| 20° | 2761 | 2783 | 2835 |
| 25° | 2712 | 2743 | 2816 |
| 30° | 2656 | 2698 | 2798 |
| 35° | 2594 | 2649 | 2771 |
| 40° | 2541 | 2601 | 2741 |
| 45° | 2476 | 2537 | 2694 |
| 50° | 2408 | 2477 | 2630 |
| 55° | 2337 | 2404 | 2575 |
| 60° | 2259 | 2325 | 2503 |
| 65° | 2155 | 2205 | 2383 |
| 70° | 2039 | 2090 | 2305 |
| 75° | 1905 | 1933 | 2179 |
| 80° | 1766 | 1757 | 2036 |
| 85° | 1708 | 1634 | 1933 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 200.9  | 3.2       |
| 10°-20°   | 576.0  | 9.2       |
| 20°-30°   | 869.6  | 13.8      |
| 30°-40°   | 1042.0 | 16.6      |
| 40°-50°   | 1077.3 | 17.1      |
| 50°-60°   | 975.5  | 15.5      |
| 60°-70°   | 754.9  | 12.0      |
| 70°-80°   | 463.7  | 7.4       |
| 80°-90°   | 184.3  | 2.9       |
| 90°-100°  | 67.2   | 1.1       |
| 100°-110° | 41.3   | 0.7       |
| 110°-120° | 21.2   | 0.3       |
| 120°-130° | 9.1    | 0.1       |
| 130°-140° | 0.6    | 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°    | 1646.5 | 26.2      |
| 0°-40°    | 2688.5 | 42.8      |
| 0°-60°    | 4741.3 | 75.5      |
| 0°-90°    | 6144.2 | 97.8      |
| 90°-120°  | 129.8  | 2.1       |
| 90°-150°  | 139.4  | 2.2       |
| 90°-180°  | 139.0  | 2.2       |
| 0°-180°   | 6283.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2122 | 2122  | 2122 | 2122  | 2122 |      |
| 5°   | 2112 | 2112  | 2115 | 2115  | 2118 | 201  |
| 15°  | 2023 | 2026  | 2042 | 2055  | 2061 | 570  |
| 25°  | 1844 | 1857  | 1886 | 1918  | 1934 | 850  |
| 35°  | 1602 | 1622  | 1663 | 1708  | 1736 | 1003 |
| 45°  | 1328 | 1344  | 1392 | 1450  | 1475 | 1024 |
| 55°  | 1026 | 1048  | 1090 | 1137  | 1163 | 917  |
| 65°  | 707  | 723   | 758  | 796   | 816  | 700  |
| 75°  | 395  | 414   | 433  | 462   | 484  | 421  |
| 85°  | 137  | 146   | 159  | 175   | 185  | 137  |
| 90°  | 64   | 73    | 80   | 89    | 96   | 38   |
| 95°  | 48   | 54    | 60   | 67    | 73   | 38   |
| 105° | 35   | 35    | 38   | 41    | 45   | 37   |
| 115° | 22   | 19    | 19   | 22    | 26   | 23   |
| 125° | 13   | 10    | 6    | 10    | 13   | 12   |
| 135° | 0    | 0     | 0    | 0     | 0    | 1    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 155° | 0    | 0     | 0    | 0     | 0    | 0    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2121.6 | 2121.6 | 2121.6 | 2121.6 | 2121.6 |
| 2.5°   | 2121.6 | 2118.4 | 2121.6 | 2121.6 | 2124.8 |
| 5°     | 2112.1 | 2112.1 | 2115.3 | 2115.3 | 2118.4 |
| 7.5°   | 2096.1 | 2096.1 | 2102.5 | 2105.7 | 2108.9 |
| 10°    | 2080.2 | 2080.2 | 2089.8 | 2093.0 | 2099.3 |
| 12.5°  | 2054.7 | 2057.9 | 2067.5 | 2077.0 | 2083.4 |
| 15°    | 2022.9 | 2026.1 | 2042.0 | 2054.7 | 2061.1 |
| 17.5°  | 1984.7 | 1991.0 | 2010.1 | 2029.2 | 2035.6 |
| 20°    | 1943.2 | 1952.8 | 1975.1 | 1997.4 | 2010.1 |
| 22.5°  | 1898.6 | 1905.0 | 1930.5 | 1959.2 | 1971.9 |
| 25°    | 1844.5 | 1857.2 | 1885.9 | 1917.8 | 1933.7 |
| 27.5°  | 1790.3 | 1803.1 | 1834.9 | 1873.2 | 1892.3 |
| 30°    | 1729.8 | 1742.5 | 1780.8 | 1822.2 | 1844.5 |
| 32.5°  | 1666.1 | 1682.0 | 1726.6 | 1768.0 | 1790.3 |
| 35°    | 1602.4 | 1621.5 | 1662.9 | 1707.5 | 1736.2 |
| 37.5°  | 1538.7 | 1554.6 | 1599.2 | 1647.0 | 1675.6 |
| 40°    | 1471.8 | 1487.7 | 1535.5 | 1583.3 | 1615.1 |
| 42.5°  | 1398.5 | 1417.6 | 1465.4 | 1516.4 | 1541.8 |
| 45°    | 1328.4 | 1344.3 | 1392.1 | 1449.5 | 1474.9 |
| 47.5°  | 1252.0 | 1274.3 | 1318.9 | 1373.0 | 1401.7 |
| 50°    | 1178.7 | 1197.8 | 1245.6 | 1296.6 | 1318.9 |
| 52.5°  | 1102.2 | 1121.3 | 1165.9 | 1216.9 | 1242.4 |
| 55°    | 1025.8 | 1048.1 | 1089.5 | 1137.3 | 1162.8 |
| 57.5°  | 946.1  | 968.4  | 1009.8 | 1051.3 | 1079.9 |
| 60°    | 869.7  | 892.0  | 930.2  | 971.6  | 997.1  |
| 62.5°  | 783.7  | 802.8  | 844.2  | 888.8  | 907.9  |
| 65°    | 707.2  | 723.1  | 758.2  | 796.4  | 815.5  |
| 67.5°  | 627.6  | 646.7  | 678.5  | 713.6  | 735.9  |
| 70°    | 547.9  | 570.2  | 595.7  | 627.6  | 653.1  |
| 72.5°  | 471.5  | 490.6  | 512.9  | 544.7  | 567.0  |
| 75°    | 395.0  | 414.1  | 433.2  | 461.9  | 484.2  |
| 77.5°  | 328.1  | 337.7  | 356.8  | 382.3  | 404.6  |
| 80°    | 254.9  | 267.6  | 283.5  | 309.0  | 324.9  |
| 82.5°  | 191.1  | 203.9  | 216.6  | 235.7  | 251.7  |
| 85°    | 137.0  | 146.5  | 159.3  | 175.2  | 184.8  |
| 87.5°  | 92.4   | 101.9  | 111.5  | 124.2  | 133.8  |
| 90°    | 63.7   | 73.3   | 79.6   | 89.2   | 95.6   |
| 92.5°  | 54.2   | 60.5   | 66.9   | 73.3   | 79.6   |
| 95°    | 47.8   | 54.2   | 60.5   | 66.9   | 73.3   |
| 97.5°  | 44.6   | 47.8   | 54.2   | 60.5   | 63.7   |
| 100°   | 41.4   | 44.6   | 47.8   | 54.2   | 57.3   |
| 102.5° | 38.2   | 38.2   | 44.6   | 47.8   | 51.0   |
| 105°   | 35.0   | 35.0   | 38.2   | 41.4   | 44.6   |
| 107.5° | 31.9   | 31.9   | 35.0   | 35.0   | 41.4   |
| 110°   | 28.7   | 25.5   | 28.7   | 28.7   | 35.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|--------|------|-------|------|-------|------|
| 112.5° | 25.5 | 22.3  | 25.5 | 25.5  | 28.7 |
| 115°   | 22.3 | 19.1  | 19.1 | 22.3  | 25.5 |
| 117.5° | 19.1 | 15.9  | 15.9 | 15.9  | 22.3 |
| 120°   | 19.1 | 15.9  | 12.7 | 12.7  | 19.1 |
| 122.5° | 15.9 | 12.7  | 9.6  | 12.7  | 15.9 |
| 125°   | 12.7 | 9.6   | 6.4  | 9.6   | 12.7 |
| 127.5° | 9.6  | 9.6   | 3.2  | 6.4   | 9.6  |
| 130°   | 9.6  | 6.4   | 3.2  | 6.4   | 6.4  |
| 132.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 135°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 137.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 140°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 142.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 145°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 147.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 150°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 152.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 155°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 157.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 160°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 162.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 165°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 167.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 170°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 172.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 175°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 177.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 180°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |

(END OF REPORT)