

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: P384668

Luminaire Tested: **22ID-85-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-85-L840-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

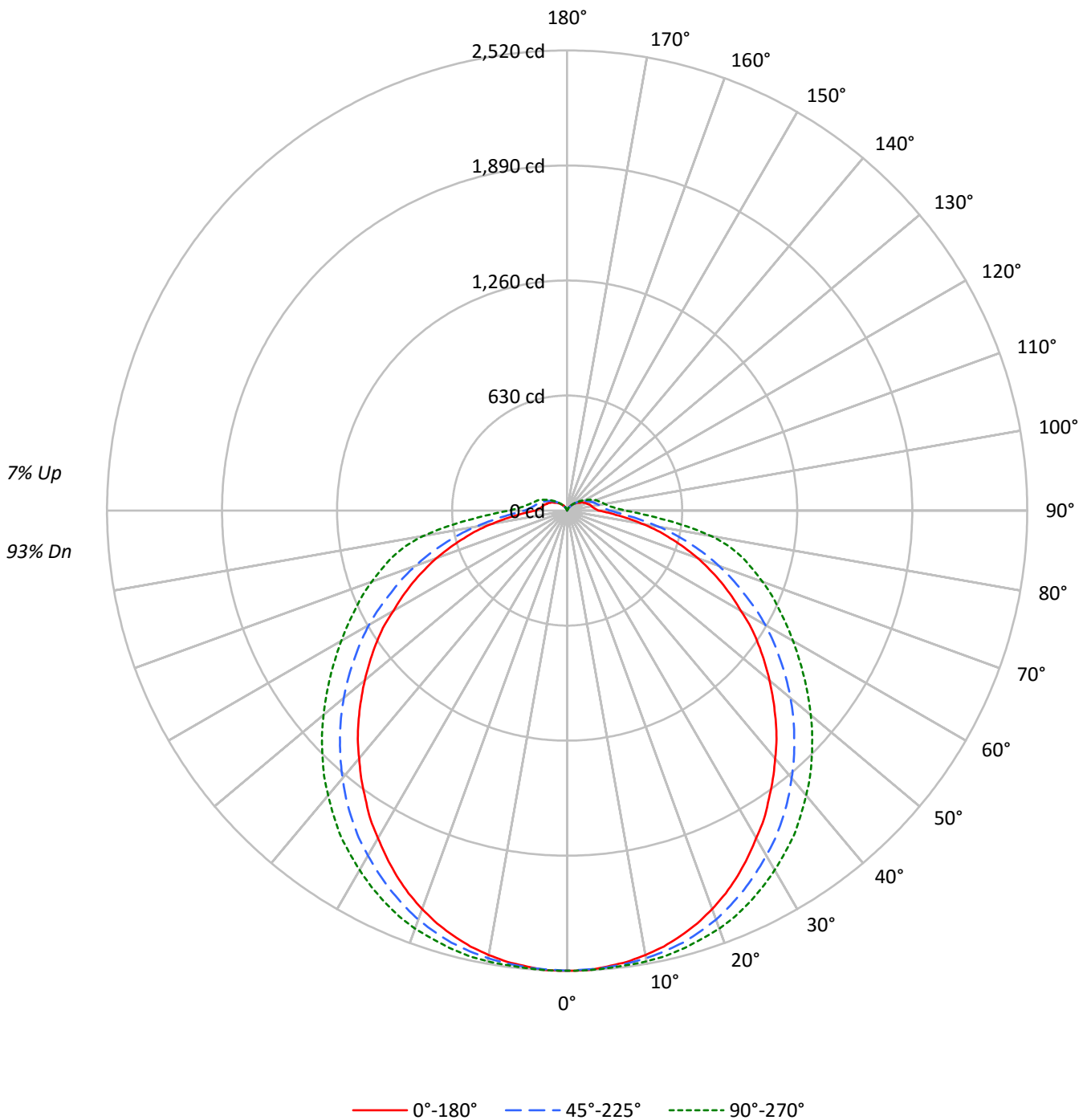
Lumens per Lamp: N/A  
Luminaire Lumens: 8817.6 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 78.1  
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   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 93  | 89  | 91  | 88  | 84  | 86  | 83  | 80  | 81 | 79 | 77 | 74 |
| 2   | 95  | 86  | 79  | 73  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 70  | 66  | 70 | 67 | 63 | 60 |
| 3   | 86  | 75  | 66  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 62 | 57 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 64  | 56  | 49  | 61  | 54  | 48  | 58  | 51  | 46  | 55 | 49 | 45 | 42 |
| 5   | 72  | 59  | 50  | 43  | 70  | 57  | 49  | 42  | 54  | 47  | 41  | 52  | 45  | 40  | 49 | 43 | 39 | 36 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 41  | 36  | 47  | 40  | 35  | 44 | 39 | 34 | 32 |
| 7   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 40 | 35 | 30 | 28 |
| 8   | 57  | 44  | 35  | 29  | 55  | 43  | 34  | 29  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 30  | 25  | 36  | 29  | 25  | 34 | 28 | 24 | 22 |
| 10  | 50  | 37  | 29  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 33  | 27  | 22  | 32 | 26 | 22 | 20 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6781 | 6781 | 6781 |
| 5°  | 6698 | 6680 | 6721 |
| 10° | 6607 | 6596 | 6702 |
| 15° | 6496 | 6515 | 6686 |
| 20° | 6360 | 6413 | 6673 |
| 25° | 6193 | 6285 | 6638 |
| 30° | 6003 | 6150 | 6589 |
| 35° | 5818 | 6016 | 6549 |
| 40° | 5634 | 5852 | 6473 |
| 45° | 5459 | 5688 | 6411 |
| 50° | 5272 | 5520 | 6345 |
| 55° | 5094 | 5337 | 6302 |
| 60° | 4864 | 5164 | 6323 |
| 65° | 4681 | 4913 | 6426 |
| 70° | 4456 | 4681 | 6670 |
| 75° | 4147 | 4352 | 7046 |
| 80° | 3789 | 3947 | 7257 |
| 85° | 3409 | 3461 | 6541 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.9  | 2.7       |
| 10°-20°   | 690.4  | 7.8       |
| 20°-30°   | 1054.9 | 12.0      |
| 30°-40°   | 1284.0 | 14.6      |
| 40°-50°   | 1357.2 | 15.4      |
| 50°-60°   | 1281.1 | 14.5      |
| 60°-70°   | 1077.8 | 12.2      |
| 70°-80°   | 777.0  | 8.8       |
| 80°-90°   | 409.8  | 4.6       |
| 90°-100°  | 219.4  | 2.5       |
| 100°-110° | 166.6  | 1.9       |
| 110°-120° | 120.8  | 1.4       |
| 120°-130° | 75.9   | 0.9       |
| 130°-140° | 41.0   | 0.5       |
| 140°-150° | 17.9   | 0.2       |
| 150°-160° | 4.8    | 0.1       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1984.2 | 22.5      |
| 0°-40°    | 3268.2 | 37.1      |
| 0°-60°    | 5906.5 | 67.0      |
| 0°-90°    | 8171.1 | 92.7      |
| 90°-120°  | 506.7  | 5.7       |
| 90°-150°  | 641.6  | 7.3       |
| 90°-180°  | 646.0  | 7.3       |
| 0°-180°   | 8817.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2520 | 2520  | 2520 | 2520  | 2520 |      |
| 5°   | 2507 | 2507  | 2511 | 2511  | 2515 | 238  |
| 15°  | 2410 | 2419  | 2449 | 2467  | 2480 | 680  |
| 25°  | 2208 | 2234  | 2291 | 2344  | 2366 | 1017 |
| 35°  | 1926 | 1970  | 2058 | 2137  | 2168 | 1206 |
| 45°  | 1614 | 1662  | 1759 | 1856  | 1895 | 1246 |
| 55°  | 1280 | 1337  | 1425 | 1530  | 1583 | 1144 |
| 65°  | 932  | 985   | 1064 | 1196  | 1280 | 922  |
| 75°  | 585  | 633   | 695  | 831   | 994  | 621  |
| 85°  | 268  | 303   | 339  | 422   | 514  | 251  |
| 90°  | 172  | 202   | 233  | 277   | 317  | 98   |
| 95°  | 150  | 172   | 198  | 224   | 242  | 119  |
| 105° | 128  | 141   | 158  | 176   | 185  | 133  |
| 115° | 101  | 110   | 123  | 132   | 141  | 102  |
| 125° | 75   | 75    | 88   | 88    | 92   | 67   |
| 135° | 53   | 48    | 53   | 53    | 57   | 40   |
| 145° | 31   | 26    | 26   | 26    | 31   | 20   |
| 155° | 13   | 13    | 4    | 9     | 13   | 6    |
| 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°     | 2519.8 | 2519.8 | 2519.8 | 2519.8 | 2519.8 |
| 2.5°   | 2519.8 | 2515.4 | 2515.4 | 2515.4 | 2519.8 |
| 5°     | 2506.6 | 2506.6 | 2511.0 | 2511.0 | 2515.4 |
| 7.5°   | 2493.4 | 2493.4 | 2502.2 | 2506.6 | 2511.0 |
| 10°    | 2471.4 | 2475.8 | 2489.0 | 2497.8 | 2506.6 |
| 12.5°  | 2445.0 | 2449.4 | 2471.4 | 2489.0 | 2497.8 |
| 15°    | 2409.8 | 2418.6 | 2449.4 | 2467.0 | 2480.2 |
| 17.5°  | 2370.2 | 2383.4 | 2418.6 | 2445.0 | 2458.2 |
| 20°    | 2321.9 | 2339.5 | 2383.4 | 2418.6 | 2436.2 |
| 22.5°  | 2269.1 | 2286.7 | 2339.5 | 2383.4 | 2405.4 |
| 25°    | 2207.5 | 2233.9 | 2291.1 | 2343.9 | 2365.8 |
| 27.5°  | 2141.6 | 2172.4 | 2238.3 | 2299.9 | 2321.9 |
| 30°    | 2071.2 | 2106.4 | 2181.2 | 2247.1 | 2273.5 |
| 32.5°  | 2005.3 | 2040.4 | 2124.0 | 2194.3 | 2220.7 |
| 35°    | 1926.1 | 1970.1 | 2058.0 | 2137.2 | 2168.0 |
| 37.5°  | 1851.3 | 1895.3 | 1987.7 | 2071.2 | 2102.0 |
| 40°    | 1772.2 | 1816.2 | 1912.9 | 2005.3 | 2036.0 |
| 42.5°  | 1697.4 | 1741.4 | 1838.1 | 1934.9 | 1970.1 |
| 45°    | 1613.9 | 1662.2 | 1759.0 | 1855.7 | 1895.3 |
| 47.5°  | 1530.3 | 1578.7 | 1679.8 | 1781.0 | 1820.6 |
| 50°    | 1446.8 | 1499.5 | 1596.3 | 1697.4 | 1741.4 |
| 52.5°  | 1363.2 | 1416.0 | 1512.7 | 1618.3 | 1662.2 |
| 55°    | 1279.7 | 1336.8 | 1424.8 | 1530.3 | 1583.1 |
| 57.5°  | 1196.1 | 1253.3 | 1341.2 | 1451.2 | 1503.9 |
| 60°    | 1099.4 | 1165.3 | 1253.3 | 1367.6 | 1429.2 |
| 62.5°  | 1015.8 | 1073.0 | 1160.9 | 1279.7 | 1354.4 |
| 65°    | 932.3  | 985.0  | 1064.2 | 1196.1 | 1279.7 |
| 67.5°  | 844.3  | 901.5  | 976.2  | 1099.4 | 1213.7 |
| 70°    | 760.8  | 809.1  | 883.9  | 1011.4 | 1138.9 |
| 72.5°  | 672.8  | 721.2  | 791.5  | 923.5  | 1064.2 |
| 75°    | 584.9  | 633.2  | 694.8  | 831.1  | 993.8  |
| 77.5°  | 505.7  | 545.3  | 602.5  | 734.4  | 910.3  |
| 80°    | 417.8  | 457.3  | 510.1  | 628.8  | 800.3  |
| 82.5°  | 338.6  | 373.8  | 417.8  | 523.3  | 659.6  |
| 85°    | 268.2  | 303.4  | 338.6  | 422.2  | 514.5  |
| 87.5°  | 215.5  | 241.9  | 277.0  | 338.6  | 400.2  |
| 90°    | 171.5  | 202.3  | 233.1  | 277.0  | 316.6  |
| 92.5°  | 158.3  | 184.7  | 211.1  | 246.3  | 272.6  |
| 95°    | 149.5  | 171.5  | 197.9  | 224.3  | 241.9  |
| 97.5°  | 140.7  | 162.7  | 184.7  | 211.1  | 224.3  |
| 100°   | 136.3  | 153.9  | 175.9  | 197.9  | 206.7  |
| 102.5° | 131.9  | 145.1  | 167.1  | 184.7  | 197.9  |
| 105°   | 127.5  | 140.7  | 158.3  | 175.9  | 184.7  |
| 107.5° | 118.7  | 131.9  | 149.5  | 167.1  | 175.9  |
| 110°   | 114.3  | 123.1  | 140.7  | 153.9  | 167.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 109.9 | 118.7 | 131.9 | 145.1 | 153.9 |
| 115°   | 101.1 | 109.9 | 123.1 | 131.9 | 140.7 |
| 117.5° | 96.7  | 101.1 | 114.3 | 118.7 | 127.5 |
| 120°   | 87.9  | 92.3  | 105.5 | 109.9 | 114.3 |
| 122.5° | 79.2  | 83.6  | 96.7  | 96.7  | 105.5 |
| 125°   | 74.8  | 74.8  | 87.9  | 87.9  | 92.3  |
| 127.5° | 70.4  | 70.4  | 79.2  | 79.2  | 83.6  |
| 130°   | 61.6  | 61.6  | 70.4  | 70.4  | 70.4  |
| 132.5° | 57.2  | 52.8  | 61.6  | 61.6  | 66.0  |
| 135°   | 52.8  | 48.4  | 52.8  | 52.8  | 57.2  |
| 137.5° | 44.0  | 44.0  | 48.4  | 44.0  | 48.4  |
| 140°   | 39.6  | 35.2  | 39.6  | 39.6  | 44.0  |
| 142.5° | 35.2  | 30.8  | 35.2  | 30.8  | 35.2  |
| 145°   | 30.8  | 26.4  | 26.4  | 26.4  | 30.8  |
| 147.5° | 26.4  | 22.0  | 22.0  | 22.0  | 26.4  |
| 150°   | 22.0  | 17.6  | 17.6  | 17.6  | 22.0  |
| 152.5° | 17.6  | 13.2  | 8.8   | 13.2  | 17.6  |
| 155°   | 13.2  | 13.2  | 4.4   | 8.8   | 13.2  |
| 157.5° | 8.8   | 8.8   | 0.0   | 4.4   | 8.8   |
| 160°   | 4.4   | 4.4   | 0.0   | 4.4   | 4.4   |
| 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)