

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: P234584

Luminaire Tested: **CTA-F-2575-50L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-13)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-2575-50L840-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT  
Light Source: (672) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10253.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: Semi-Direct

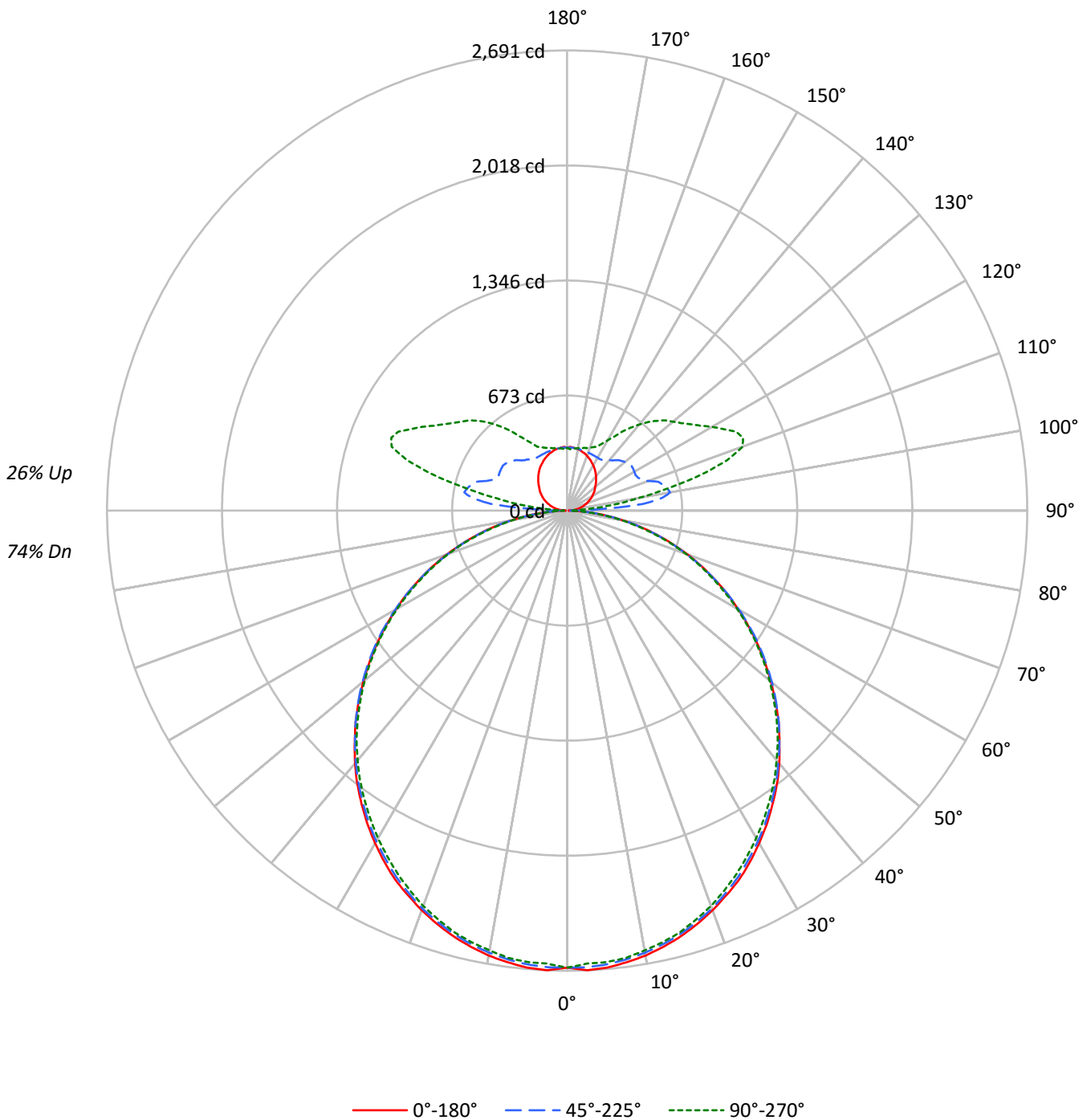
Input Watts (W): 92.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 87 | 87 | 87 | 78 | 78 | 78 | 74 |
| 1   | 103 | 98  | 94  | 90  | 97  | 93  | 90  | 86  | 84 | 82 | 79 | 76 | 74 | 72 | 69 | 67 | 65 | 62 |
| 2   | 93  | 85  | 79  | 73  | 88  | 81  | 75  | 70  | 74 | 69 | 65 | 67 | 63 | 60 | 60 | 57 | 55 | 51 |
| 3   | 85  | 75  | 67  | 61  | 80  | 71  | 64  | 59  | 65 | 59 | 54 | 59 | 54 | 50 | 53 | 49 | 46 | 43 |
| 4   | 78  | 66  | 58  | 51  | 73  | 63  | 56  | 50  | 57 | 51 | 46 | 52 | 47 | 43 | 47 | 43 | 40 | 37 |
| 5   | 71  | 59  | 50  | 44  | 67  | 56  | 48  | 43  | 51 | 45 | 40 | 47 | 41 | 37 | 42 | 38 | 34 | 32 |
| 6   | 66  | 53  | 44  | 38  | 62  | 51  | 43  | 37  | 46 | 40 | 35 | 42 | 37 | 32 | 38 | 34 | 30 | 28 |
| 7   | 61  | 48  | 39  | 34  | 58  | 46  | 38  | 33  | 42 | 35 | 31 | 38 | 33 | 29 | 35 | 30 | 27 | 24 |
| 8   | 57  | 44  | 35  | 30  | 54  | 42  | 34  | 29  | 38 | 32 | 27 | 35 | 30 | 26 | 32 | 27 | 24 | 22 |
| 9   | 53  | 40  | 32  | 27  | 50  | 38  | 31  | 26  | 35 | 29 | 24 | 32 | 27 | 23 | 30 | 25 | 22 | 20 |
| 10  | 49  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 33 | 26 | 22 | 30 | 25 | 21 | 28 | 23 | 20 | 18 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8629 | 8629 | 8629 |
| 5°  | 8695 | 8636 | 8589 |
| 10° | 8662 | 8608 | 8562 |
| 15° | 8613 | 8565 | 8532 |
| 20° | 8545 | 8510 | 8454 |
| 25° | 8482 | 8424 | 8352 |
| 30° | 8376 | 8322 | 8246 |
| 35° | 8260 | 8212 | 8140 |
| 40° | 8137 | 8103 | 8034 |
| 45° | 7987 | 7987 | 7912 |
| 50° | 7813 | 7854 | 7762 |
| 55° | 7643 | 7700 | 7597 |
| 60° | 7464 | 7503 | 7412 |
| 65° | 7274 | 7274 | 7180 |
| 70° | 7063 | 7005 | 6947 |
| 75° | 6739 | 6688 | 6536 |
| 80° | 6216 | 6216 | 5989 |
| 85° | 5513 | 5287 | 4835 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 252.8   | 2.5       |
| 10°-20°   | 721.9   | 7.0       |
| 20°-30°   | 1086.0  | 10.6      |
| 30°-40°   | 1300.0  | 12.7      |
| 40°-50°   | 1342.9  | 13.1      |
| 50°-60°   | 1214.2  | 11.8      |
| 60°-70°   | 940.0   | 9.2       |
| 70°-80°   | 565.0   | 5.5       |
| 80°-90°   | 165.2   | 1.6       |
| 90°-100°  | 221.8   | 2.2       |
| 100°-110° | 541.7   | 5.3       |
| 110°-120° | 550.8   | 5.4       |
| 120°-130° | 444.1   | 4.3       |
| 130°-140° | 350.3   | 3.4       |
| 140°-150° | 249.5   | 2.4       |
| 150°-160° | 168.7   | 1.6       |
| 160°-170° | 103.3   | 1.0       |
| 170°-180° | 35.1    | 0.3       |
| 0°-30°    | 2060.6  | 20.1      |
| 0°-40°    | 3360.6  | 32.8      |
| 0°-60°    | 5917.7  | 57.7      |
| 0°-90°    | 7588.0  | 74.0      |
| 90°-120°  | 1314.3  | 12.8      |
| 90°-150°  | 2358.3  | 23.0      |
| 90°-180°  | 2665.0  | 26.0      |
| 0°-180°   | 10253.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2672 | 2672  | 2672 | 2672  | 2672 |      |
| 5°   | 2683 | 2656  | 2664 | 2658  | 2650 | 255  |
| 15°  | 2577 | 2552  | 2562 | 2560  | 2552 | 727  |
| 25°  | 2381 | 2354  | 2365 | 2350  | 2344 | 1096 |
| 35°  | 2096 | 2075  | 2083 | 2073  | 2065 | 1311 |
| 45°  | 1749 | 1739  | 1749 | 1739  | 1733 | 1348 |
| 55°  | 1358 | 1356  | 1368 | 1356  | 1350 | 1214 |
| 65°  | 952  | 956   | 952  | 944   | 940  | 943  |
| 75°  | 540  | 540   | 536  | 532   | 524  | 571  |
| 85°  | 149  | 151   | 143  | 134   | 130  | 160  |
| 90°  | 8    | 20    | 20   | 20    | 18   | 14   |
| 95°  | 35   | 98    | 446  | 222   | 151  | 36   |
| 105° | 94   | 165   | 581  | 921   | 811  | 98   |
| 115° | 145  | 212   | 457  | 940   | 1091 | 144  |
| 125° | 194  | 230   | 459  | 752   | 881  | 172  |
| 135° | 238  | 261   | 418  | 644   | 742  | 184  |
| 145° | 285  | 298   | 361  | 493   | 565  | 178  |
| 155° | 324  | 328   | 359  | 396   | 412  | 149  |
| 165° | 353  | 353   | 363  | 377   | 379  | 100  |
| 175° | 371  | 367   | 369  | 369   | 365  | 35   |
| 180° | 367  | 367   | 367  | 367   | 367  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2672.4 | 2672.4 | 2672.4 | 2672.4 | 2672.4 |
| 2.5°   | 2690.8 | 2664.3 | 2672.4 | 2668.3 | 2652.0 |
| 5°     | 2682.6 | 2656.1 | 2664.3 | 2658.2 | 2650.0 |
| 7.5°   | 2664.3 | 2639.8 | 2648.0 | 2643.9 | 2637.8 |
| 10°    | 2641.8 | 2617.4 | 2625.5 | 2619.4 | 2611.3 |
| 12.5°  | 2611.3 | 2586.8 | 2597.0 | 2590.9 | 2584.8 |
| 15°    | 2576.6 | 2552.2 | 2562.3 | 2560.3 | 2552.2 |
| 17.5°  | 2533.8 | 2511.4 | 2521.6 | 2517.5 | 2507.3 |
| 20°    | 2486.9 | 2464.5 | 2476.7 | 2466.5 | 2460.4 |
| 22.5°  | 2433.9 | 2409.5 | 2421.7 | 2409.5 | 2403.3 |
| 25°    | 2380.9 | 2354.4 | 2364.6 | 2350.3 | 2344.2 |
| 27.5°  | 2315.7 | 2289.2 | 2299.4 | 2285.1 | 2279.0 |
| 30°    | 2246.4 | 2221.9 | 2232.1 | 2217.8 | 2211.7 |
| 32.5°  | 2173.0 | 2150.6 | 2160.8 | 2146.5 | 2140.4 |
| 35°    | 2095.5 | 2075.2 | 2083.3 | 2073.1 | 2065.0 |
| 37.5°  | 2016.0 | 1995.7 | 2005.8 | 1993.6 | 1989.5 |
| 40°    | 1930.4 | 1914.1 | 1922.3 | 1910.0 | 1906.0 |
| 42.5°  | 1838.7 | 1826.5 | 1836.7 | 1826.5 | 1822.4 |
| 45°    | 1749.0 | 1738.8 | 1749.0 | 1738.8 | 1732.7 |
| 47.5°  | 1653.2 | 1645.0 | 1657.3 | 1645.0 | 1638.9 |
| 50°    | 1555.3 | 1553.3 | 1563.5 | 1553.3 | 1545.2 |
| 52.5°  | 1457.5 | 1455.5 | 1465.7 | 1455.5 | 1447.3 |
| 55°    | 1357.6 | 1355.6 | 1367.8 | 1355.6 | 1349.5 |
| 57.5°  | 1257.7 | 1257.7 | 1265.9 | 1253.7 | 1249.6 |
| 60°    | 1155.8 | 1157.8 | 1161.9 | 1151.7 | 1147.7 |
| 62.5°  | 1055.9 | 1055.9 | 1058.0 | 1051.8 | 1041.7 |
| 65°    | 952.0  | 956.0  | 952.0  | 943.8  | 939.7  |
| 67.5°  | 850.0  | 852.1  | 846.0  | 841.9  | 839.8  |
| 70°    | 748.1  | 748.1  | 742.0  | 740.0  | 735.9  |
| 72.5°  | 644.2  | 646.2  | 638.0  | 634.0  | 631.9  |
| 75°    | 540.2  | 540.2  | 536.1  | 532.0  | 523.9  |
| 77.5°  | 438.3  | 436.2  | 434.2  | 424.0  | 422.0  |
| 80°    | 334.3  | 338.4  | 334.3  | 324.1  | 322.1  |
| 82.5°  | 240.5  | 242.6  | 236.5  | 226.3  | 224.2  |
| 85°    | 148.8  | 150.8  | 142.7  | 134.5  | 130.5  |
| 87.5°  | 63.2   | 65.2   | 55.0   | 48.9   | 46.9   |
| 90°    | 8.2    | 20.4   | 20.4   | 20.4   | 18.3   |
| 92.5°  | 24.5   | 67.3   | 197.7  | 65.2   | 48.9   |
| 95°    | 34.7   | 97.8   | 446.4  | 222.2  | 150.8  |
| 97.5°  | 53.0   | 116.2  | 558.5  | 375.1  | 289.5  |
| 100°   | 67.3   | 146.8  | 611.5  | 544.3  | 428.1  |
| 102.5° | 79.5   | 157.0  | 599.3  | 746.1  | 605.4  |
| 105°   | 93.8   | 165.1  | 581.0  | 921.4  | 811.3  |
| 107.5° | 106.0  | 175.3  | 558.5  | 1017.2 | 980.5  |
| 110°   | 120.3  | 191.6  | 505.5  | 1037.6 | 1092.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 132.5 | 203.8 | 470.9 | 1002.9 | 1113.0 |
| 115°   | 144.7 | 212.0 | 456.6 | 939.7  | 1090.6 |
| 117.5° | 159.0 | 218.1 | 450.5 | 876.5  | 1031.5 |
| 120°   | 169.2 | 220.2 | 454.6 | 819.5  | 978.5  |
| 122.5° | 181.4 | 224.2 | 456.6 | 782.8  | 923.4  |
| 125°   | 193.7 | 230.3 | 458.7 | 752.2  | 880.6  |
| 127.5° | 203.8 | 232.4 | 452.5 | 727.7  | 839.8  |
| 130°   | 214.0 | 240.5 | 442.3 | 707.3  | 809.3  |
| 132.5° | 226.3 | 248.7 | 430.1 | 676.8  | 780.7  |
| 135°   | 238.5 | 260.9 | 417.9 | 644.2  | 742.0  |
| 137.5° | 250.7 | 271.1 | 397.5 | 609.5  | 703.3  |
| 140°   | 263.0 | 279.3 | 385.3 | 572.8  | 656.4  |
| 142.5° | 273.2 | 289.5 | 377.1 | 536.1  | 611.5  |
| 145°   | 285.4 | 297.6 | 360.8 | 493.3  | 564.7  |
| 147.5° | 295.6 | 305.8 | 356.7 | 454.6  | 513.7  |
| 150°   | 305.8 | 313.9 | 356.7 | 432.2  | 475.0  |
| 152.5° | 313.9 | 320.0 | 356.7 | 403.6  | 440.3  |
| 155°   | 324.1 | 328.2 | 358.8 | 395.5  | 411.8  |
| 157.5° | 332.3 | 334.3 | 358.8 | 387.3  | 401.6  |
| 160°   | 340.4 | 342.5 | 360.8 | 383.2  | 391.4  |
| 162.5° | 348.6 | 348.6 | 362.8 | 377.1  | 383.2  |
| 165°   | 352.7 | 352.7 | 362.8 | 377.1  | 379.2  |
| 167.5° | 360.8 | 356.7 | 364.9 | 371.0  | 373.0  |
| 170°   | 364.9 | 360.8 | 366.9 | 371.0  | 371.0  |
| 172.5° | 366.9 | 366.9 | 366.9 | 369.0  | 366.9  |
| 175°   | 371.0 | 366.9 | 369.0 | 369.0  | 364.9  |
| 177.5° | 373.0 | 366.9 | 369.0 | 369.0  | 358.8  |
| 180°   | 366.9 | 366.9 | 366.9 | 366.9  | 366.9  |

(END OF REPORT)