

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: P234629

Luminaire Tested: **CTA-F-5050-60L840-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-60L840-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6207.2 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

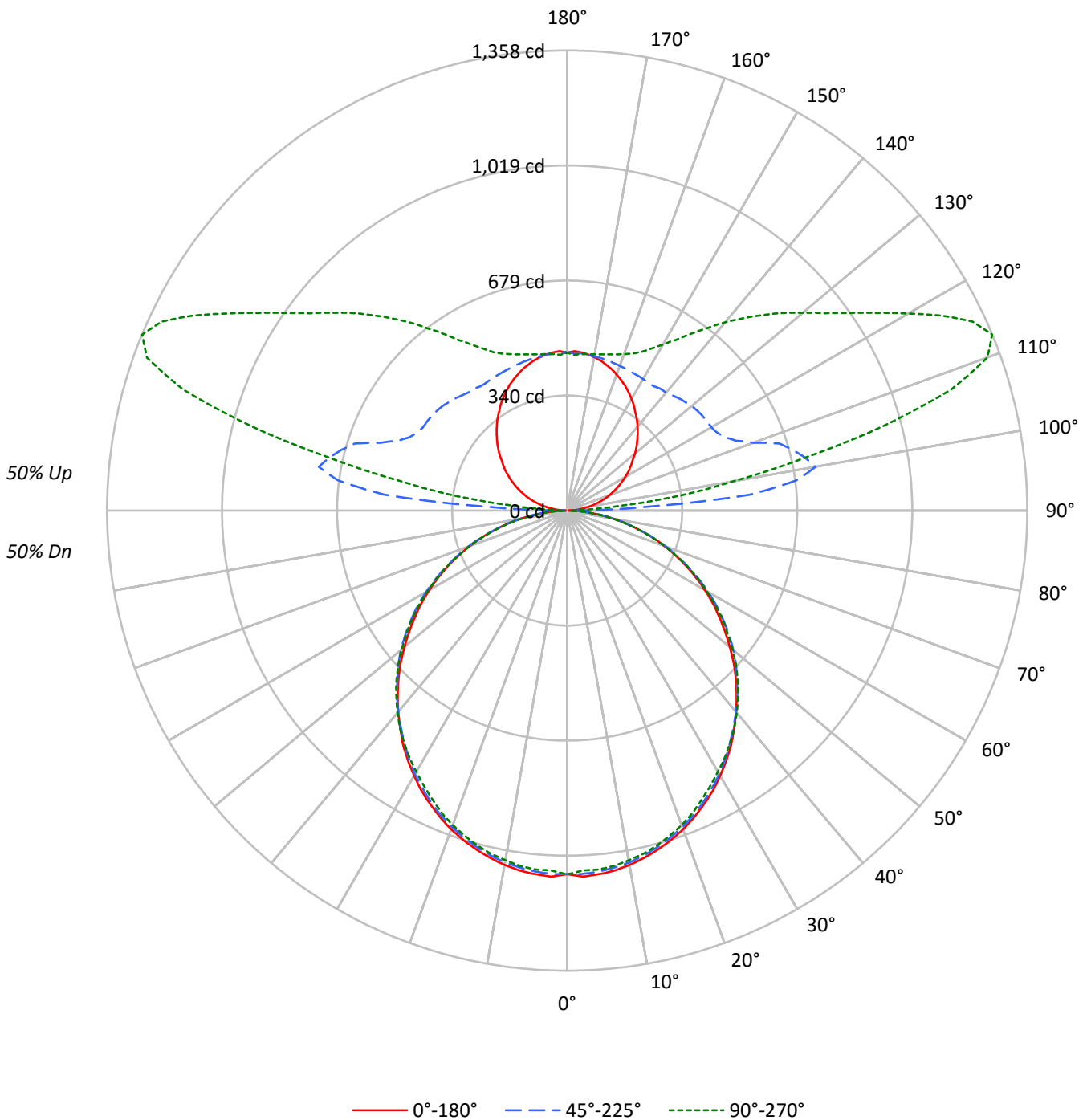
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P234629

CATALOG NUMBER: CTA-F-5050-60L840-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: P234629

CATALOG NUMBER: CTA-F-5050-60L840-UNV-4

**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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 |  | 69 | 69 | 69 |  | 56 | 56 | 56 | 50 |
| 1   | 97  | 93  | 89  | 85  | 90 | 86 | 82 | 79 | 73 | 70 | 68 |  | 60 | 58 | 57 |  | 49 | 48 | 47 | 41 |
| 2   | 89  | 81  | 75  | 69  | 81 | 75 | 69 | 65 | 63 | 59 | 56 |  | 53 | 50 | 47 |  | 43 | 41 | 39 | 34 |
| 3   | 81  | 71  | 63  | 57  | 74 | 66 | 59 | 54 | 56 | 51 | 47 |  | 46 | 43 | 40 |  | 38 | 35 | 33 | 29 |
| 4   | 74  | 63  | 55  | 48  | 68 | 58 | 51 | 45 | 49 | 44 | 39 |  | 41 | 37 | 34 |  | 34 | 31 | 28 | 24 |
| 5   | 67  | 56  | 47  | 41  | 62 | 52 | 44 | 39 | 44 | 38 | 34 |  | 37 | 32 | 29 |  | 30 | 27 | 24 | 21 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 40 | 34 | 29 |  | 33 | 29 | 25 |  | 27 | 24 | 21 | 18 |
| 7   | 57  | 45  | 37  | 31  | 53 | 42 | 35 | 29 | 36 | 30 | 26 |  | 30 | 26 | 22 |  | 25 | 21 | 19 | 16 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 33 | 27 | 23 |  | 28 | 23 | 20 |  | 23 | 19 | 17 | 14 |
| 9   | 50  | 37  | 30  | 24  | 46 | 35 | 28 | 23 | 30 | 24 | 20 |  | 25 | 21 | 18 |  | 21 | 18 | 15 | 13 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 25 | 21 | 27 | 22 | 18 |  | 23 | 19 | 16 |  | 19 | 16 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6931 | 6931 | 6931 |
| 5°  | 6984 | 6931 | 6892 |
| 10° | 6964 | 6917 | 6871 |
| 15° | 6923 | 6876 | 6841 |
| 20° | 6878 | 6829 | 6787 |
| 25° | 6812 | 6768 | 6703 |
| 30° | 6734 | 6696 | 6635 |
| 35° | 6653 | 6605 | 6605 |
| 40° | 6538 | 6538 | 6565 |
| 45° | 6432 | 6470 | 6506 |
| 50° | 6297 | 6431 | 6400 |
| 55° | 6173 | 6334 | 6300 |
| 60° | 6069 | 6214 | 6148 |
| 65° | 5933 | 6027 | 5981 |
| 70° | 5774 | 5849 | 5774 |
| 75° | 5494 | 5519 | 5442 |
| 80° | 5192 | 5233 | 5002 |
| 85° | 4609 | 4609 | 4157 |



TEST NUMBER: P234629

CATALOG NUMBER: CTA-F-5050-60L840-UNV-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.5  | 1.6       |
| 10°-20°   | 289.9  | 4.7       |
| 20°-30°   | 436.6  | 7.0       |
| 30°-40°   | 524.6  | 8.5       |
| 40°-50°   | 546.4  | 8.8       |
| 50°-60°   | 497.6  | 8.0       |
| 60°-70°   | 387.9  | 6.2       |
| 70°-80°   | 234.6  | 3.8       |
| 80°-90°   | 70.9   | 1.1       |
| 90°-100°  | 252.3  | 4.1       |
| 100°-110° | 640.2  | 10.3      |
| 110°-120° | 643.1  | 10.4      |
| 120°-130° | 502.9  | 8.1       |
| 130°-140° | 396.8  | 6.4       |
| 140°-150° | 297.0  | 4.8       |
| 150°-160° | 210.8  | 3.4       |
| 160°-170° | 130.1  | 2.1       |
| 170°-180° | 44.3   | 0.7       |
| 0°-30°    | 828.0  | 13.3      |
| 0°-40°    | 1352.6 | 21.8      |
| 0°-60°    | 2396.6 | 38.6      |
| 0°-90°    | 3090.0 | 49.8      |
| 90°-120°  | 1535.5 | 24.7      |
| 90°-150°  | 2732.1 | 44.0      |
| 90°-180°  | 3117.0 | 50.2      |
| 0°-180°   | 6207.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1073 | 1073  | 1073 | 1073  | 1073 |      |
| 5°   | 1077 | 1067  | 1069 | 1066  | 1063 | 102  |
| 15°  | 1036 | 1025  | 1028 | 1027  | 1023 | 292  |
| 25°  | 956  | 947   | 950  | 945   | 941  | 441  |
| 35°  | 844  | 837   | 838  | 838   | 838  | 527  |
| 45°  | 704  | 702   | 708  | 714   | 712  | 543  |
| 55°  | 548  | 550   | 563  | 560   | 560  | 491  |
| 65°  | 388  | 392   | 394  | 391   | 391  | 384  |
| 75°  | 220  | 224   | 221  | 219   | 218  | 234  |
| 85°  | 62   | 64    | 62   | 60    | 56   | 67   |
| 90°  | 4    | 8     | 8    | 8     | 7    | 7    |
| 95°  | 30   | 99    | 541  | 250   | 153  | 32   |
| 105° | 98   | 162   | 690  | 1121  | 969  | 104  |
| 115° | 165  | 216   | 513  | 1126  | 1320 | 163  |
| 125° | 229  | 269   | 487  | 852   | 1016 | 205  |
| 135° | 292  | 320   | 468  | 704   | 816  | 226  |
| 145° | 352  | 369   | 447  | 571   | 637  | 221  |
| 155° | 406  | 412   | 450  | 492   | 516  | 187  |
| 165° | 445  | 445   | 459  | 472   | 477  | 126  |
| 175° | 469  | 464   | 466  | 465   | 464  | 44   |
| 180° | 466  | 466   | 466  | 466   | 466  |      |



TEST NUMBER: P234629

CATALOG NUMBER: CTA-F-5050-60L840-UNV-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1073.2 | 1073.2 | 1073.2 | 1073.2 | 1073.2 |
| 2.5°   | 1081.4 | 1071.2 | 1073.2 | 1070.2 | 1063.1 |
| 5°     | 1077.3 | 1067.1 | 1069.2 | 1066.1 | 1063.1 |
| 7.5°   | 1071.2 | 1061.0 | 1063.1 | 1061.0 | 1058.0 |
| 10°    | 1062.0 | 1050.8 | 1054.9 | 1051.8 | 1047.8 |
| 12.5°  | 1049.8 | 1039.6 | 1042.7 | 1040.6 | 1037.6 |
| 15°    | 1035.5 | 1025.3 | 1028.4 | 1027.4 | 1023.3 |
| 17.5°  | 1019.2 | 1009.0 | 1012.1 | 1011.1 | 1006.0 |
| 20°    | 1000.9 | 990.7  | 993.7  | 989.7  | 987.6  |
| 22.5°  | 979.5  | 970.3  | 973.4  | 967.2  | 966.2  |
| 25°    | 956.0  | 946.9  | 949.9  | 944.8  | 940.7  |
| 27.5°  | 931.6  | 922.4  | 924.4  | 920.4  | 915.3  |
| 30°    | 903.0  | 894.9  | 897.9  | 891.8  | 889.8  |
| 32.5°  | 874.5  | 866.3  | 868.4  | 866.3  | 865.3  |
| 35°    | 843.9  | 836.8  | 837.8  | 837.8  | 837.8  |
| 37.5°  | 809.3  | 805.2  | 806.2  | 810.3  | 810.3  |
| 40°    | 775.6  | 771.6  | 775.6  | 779.7  | 778.7  |
| 42.5°  | 740.0  | 737.9  | 743.0  | 748.1  | 746.1  |
| 45°    | 704.3  | 702.2  | 708.4  | 714.5  | 712.4  |
| 47.5°  | 666.6  | 665.6  | 675.7  | 678.8  | 675.7  |
| 50°    | 626.8  | 627.8  | 640.1  | 641.1  | 637.0  |
| 52.5°  | 587.1  | 590.1  | 601.3  | 601.3  | 597.3  |
| 55°    | 548.3  | 550.4  | 562.6  | 559.6  | 559.6  |
| 57.5°  | 510.6  | 511.7  | 522.9  | 517.8  | 517.8  |
| 60°    | 469.9  | 470.9  | 481.1  | 476.0  | 476.0  |
| 62.5°  | 429.1  | 432.2  | 438.3  | 434.2  | 434.2  |
| 65°    | 388.3  | 392.4  | 394.4  | 391.4  | 391.4  |
| 67.5°  | 346.5  | 351.6  | 351.6  | 347.6  | 348.6  |
| 70°    | 305.8  | 310.9  | 309.8  | 305.8  | 305.8  |
| 72.5°  | 264.0  | 268.1  | 266.0  | 264.0  | 263.0  |
| 75°    | 220.2  | 224.2  | 221.2  | 219.1  | 218.1  |
| 77.5°  | 179.4  | 182.4  | 180.4  | 177.3  | 176.3  |
| 80°    | 139.6  | 141.7  | 140.7  | 136.6  | 134.5  |
| 82.5°  | 98.9   | 101.9  | 100.9  | 97.8   | 94.8   |
| 85°    | 62.2   | 64.2   | 62.2   | 60.1   | 56.1   |
| 87.5°  | 28.5   | 28.5   | 27.5   | 24.5   | 22.4   |
| 90°    | 4.1    | 8.2    | 8.2    | 8.2    | 7.1    |
| 92.5°  | 17.3   | 65.2   | 219.1  | 57.1   | 38.7   |
| 95°    | 29.6   | 98.9   | 541.2  | 249.7  | 152.9  |
| 97.5°  | 46.9   | 118.2  | 682.9  | 440.3  | 331.2  |
| 100°   | 64.2   | 150.8  | 744.0  | 648.2  | 500.4  |
| 102.5° | 81.5   | 159.0  | 719.6  | 900.0  | 717.5  |
| 105°   | 97.8   | 162.1  | 690.0  | 1121.2 | 969.3  |
| 107.5° | 116.2  | 169.2  | 657.4  | 1238.4 | 1188.4 |
| 110°   | 132.5  | 185.5  | 586.1  | 1264.9 | 1319.9 |



TEST NUMBER: P234629

CATALOG NUMBER: CTA-F-5050-60L840-UNV-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 148.8 | 201.8 | 539.2 | 1213.9 | 1357.6 |
| 115°   | 165.1 | 216.1 | 512.7 | 1126.2 | 1319.9 |
| 117.5° | 181.4 | 229.3 | 498.4 | 1038.6 | 1245.5 |
| 120°   | 197.7 | 242.6 | 491.3 | 962.2  | 1162.9 |
| 122.5° | 214.0 | 254.8 | 490.2 | 902.0  | 1085.5 |
| 125°   | 229.3 | 269.1 | 487.2 | 852.1  | 1016.2 |
| 127.5° | 243.6 | 280.3 | 484.1 | 811.3  | 957.1  |
| 130°   | 261.9 | 292.5 | 480.1 | 776.7  | 908.1  |
| 132.5° | 277.2 | 306.8 | 473.9 | 741.0  | 863.3  |
| 135°   | 292.5 | 320.0 | 467.8 | 704.3  | 816.4  |
| 137.5° | 307.8 | 333.3 | 460.7 | 669.6  | 770.5  |
| 140°   | 323.1 | 345.5 | 454.6 | 634.0  | 725.7  |
| 142.5° | 338.4 | 357.7 | 452.5 | 602.4  | 678.8  |
| 145°   | 351.6 | 369.0 | 447.4 | 570.8  | 637.0  |
| 147.5° | 366.9 | 380.2 | 446.4 | 544.3  | 597.3  |
| 150°   | 380.2 | 391.4 | 448.5 | 523.9  | 565.7  |
| 152.5° | 393.4 | 401.6 | 449.5 | 504.5  | 539.2  |
| 155°   | 405.7 | 411.8 | 450.5 | 492.3  | 515.7  |
| 157.5° | 416.9 | 420.9 | 452.5 | 485.2  | 501.5  |
| 160°   | 427.1 | 430.1 | 454.6 | 479.0  | 491.3  |
| 162.5° | 437.2 | 438.3 | 456.6 | 475.0  | 483.1  |
| 165°   | 445.4 | 445.4 | 458.7 | 471.9  | 477.0  |
| 167.5° | 453.6 | 451.5 | 460.7 | 467.8  | 471.9  |
| 170°   | 459.7 | 456.6 | 461.7 | 466.8  | 467.8  |
| 172.5° | 464.8 | 460.7 | 463.7 | 465.8  | 465.8  |
| 175°   | 468.8 | 463.7 | 465.8 | 464.8  | 463.7  |
| 177.5° | 470.9 | 464.8 | 464.8 | 464.8  | 459.7  |
| 180°   | 465.8 | 465.8 | 465.8 | 465.8  | 465.8  |

(END OF REPORT)