

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: P234593

Luminaire Tested: **CTA-F-2575-60L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-14)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-2575-60L830-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
6000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT  
Light Source: (1008) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

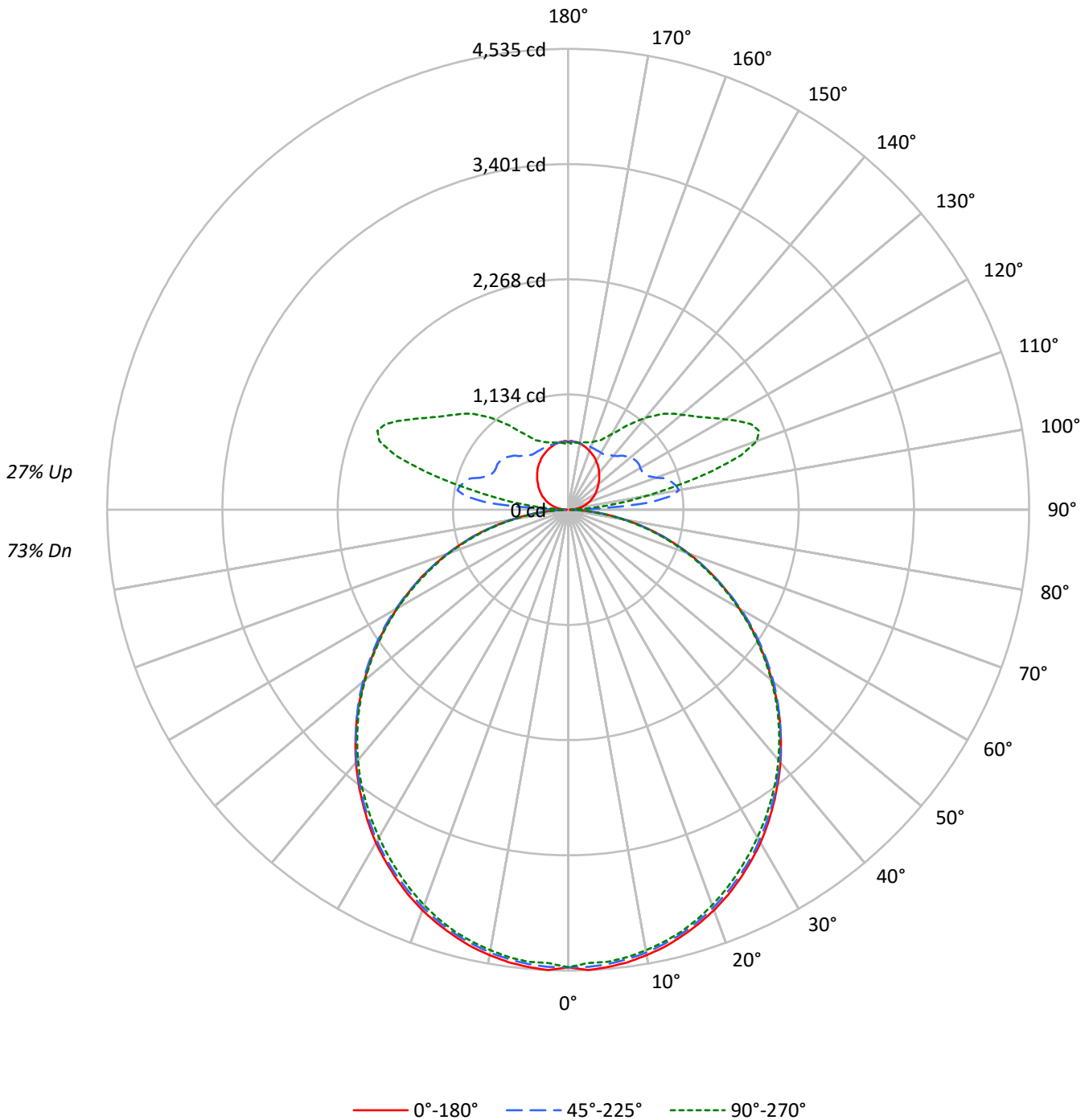
Lumens per Lamp: N/A  
Luminaire Lumens: 17604.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 177  
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 | 96 | 96 | 96 | 86 | 86 | 86 | 77 | 77 | 77 | 73 |
| 1   | 103 | 98  | 94  | 90  | 97  | 93  | 89  | 86  | 84 | 81 | 78 | 75 | 73 | 71 | 67 | 66 | 64 | 60 |
| 2   | 93  | 85  | 79  | 73  | 88  | 81  | 75  | 70  | 73 | 68 | 64 | 66 | 62 | 59 | 59 | 56 | 54 | 50 |
| 3   | 85  | 75  | 67  | 61  | 80  | 71  | 64  | 58  | 64 | 59 | 54 | 58 | 53 | 50 | 52 | 48 | 45 | 42 |
| 4   | 78  | 66  | 58  | 51  | 73  | 63  | 55  | 49  | 57 | 51 | 46 | 51 | 46 | 42 | 46 | 42 | 39 | 36 |
| 5   | 71  | 59  | 50  | 44  | 67  | 56  | 48  | 42  | 51 | 44 | 39 | 46 | 41 | 37 | 42 | 37 | 34 | 31 |
| 6   | 66  | 53  | 44  | 38  | 62  | 50  | 43  | 37  | 46 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 30 | 27 |
| 7   | 61  | 48  | 39  | 33  | 57  | 46  | 38  | 32  | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 30 | 26 | 24 |
| 8   | 56  | 43  | 35  | 30  | 53  | 42  | 34  | 29  | 38 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 24 | 21 |
| 9   | 53  | 40  | 32  | 27  | 50  | 38  | 31  | 26  | 35 | 29 | 24 | 32 | 27 | 23 | 29 | 25 | 21 | 19 |
| 10  | 49  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 32 | 26 | 22 | 30 | 24 | 21 | 27 | 23 | 19 | 17 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9693 | 9693 | 9693 |
| 5°  | 9761 | 9699 | 9649 |
| 10° | 9729 | 9672 | 9622 |
| 15° | 9675 | 9624 | 9579 |
| 20° | 9608 | 9549 | 9489 |
| 25° | 9510 | 9455 | 9366 |
| 30° | 9407 | 9350 | 9256 |
| 35° | 9263 | 9225 | 9149 |
| 40° | 9127 | 9103 | 9038 |
| 45° | 8966 | 8966 | 8904 |
| 50° | 8771 | 8829 | 8733 |
| 55° | 8585 | 8661 | 8542 |
| 60° | 8370 | 8445 | 8333 |
| 65° | 8184 | 8169 | 8067 |
| 70° | 7952 | 7897 | 7825 |
| 75° | 7629 | 7534 | 7413 |
| 80° | 7009 | 6973 | 6759 |
| 85° | 6128 | 5841 | 5342 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 425.9   | 2.4       |
| 10°-20°   | 1216.2  | 6.9       |
| 20°-30°   | 1829.7  | 10.4      |
| 30°-40°   | 2190.3  | 12.4      |
| 40°-50°   | 2264.2  | 12.9      |
| 50°-60°   | 2048.5  | 11.6      |
| 60°-70°   | 1586.8  | 9.0       |
| 70°-80°   | 955.9   | 5.4       |
| 80°-90°   | 276.7   | 1.6       |
| 90°-100°  | 394.2   | 2.2       |
| 100°-110° | 979.5   | 5.6       |
| 110°-120° | 998.5   | 5.7       |
| 120°-130° | 800.7   | 4.5       |
| 130°-140° | 630.1   | 3.6       |
| 140°-150° | 449.9   | 2.6       |
| 150°-160° | 306.2   | 1.7       |
| 160°-170° | 187.1   | 1.1       |
| 170°-180° | 63.6    | 0.4       |
| 0°-30°    | 3471.8  | 19.7      |
| 0°-40°    | 5662.1  | 32.2      |
| 0°-60°    | 9974.8  | 56.7      |
| 0°-90°    | 12794.2 | 72.7      |
| 90°-120°  | 2372.2  | 13.5      |
| 90°-150°  | 4252.9  | 24.2      |
| 90°-180°  | 4810.0  | 27.3      |
| 0°-180°   | 17604.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4503 | 4503  | 4503 | 4503  | 4503 |      |
| 5°   | 4517 | 4474  | 4488 | 4477  | 4465 | 429  |
| 15°  | 4341 | 4301  | 4318 | 4310  | 4298 | 1225 |
| 25°  | 4004 | 3966  | 3981 | 3958  | 3943 | 1845 |
| 35°  | 3525 | 3496  | 3511 | 3493  | 3482 | 2206 |
| 45°  | 2945 | 2931  | 2945 | 2934  | 2925 | 2270 |
| 55°  | 2288 | 2288  | 2308 | 2288  | 2276 | 2045 |
| 65°  | 1607 | 1612  | 1604 | 1595  | 1584 | 1588 |
| 75°  | 917  | 914   | 906  | 894   | 891  | 965  |
| 85°  | 248  | 248   | 236  | 225   | 216  | 269  |
| 90°  | 14   | 35    | 35   | 35    | 32   | 25   |
| 95°  | 58   | 173   | 802  | 389   | 268  | 63   |
| 105° | 167  | 294   | 1053 | 1667  | 1460 | 177  |
| 115° | 260  | 378   | 831  | 1699  | 1988 | 259  |
| 125° | 346  | 412   | 825  | 1353  | 1589 | 311  |
| 135° | 433  | 470   | 753  | 1154  | 1336 | 333  |
| 145° | 516  | 539   | 655  | 886   | 1012 | 322  |
| 155° | 586  | 594   | 649  | 718   | 753  | 270  |
| 165° | 640  | 640   | 658  | 681   | 686  | 181  |
| 175° | 672  | 666   | 669  | 669   | 661  | 64   |
| 180° | 666  | 666   | 666  | 666   | 666  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4502.9 | 4502.9 | 4502.9 | 4502.9 | 4502.9 |
| 2.5°   | 4534.6 | 4488.5 | 4502.9 | 4494.2 | 4465.4 |
| 5°     | 4517.3 | 4474.0 | 4488.5 | 4476.9 | 4465.4 |
| 7.5°   | 4491.3 | 4448.1 | 4462.5 | 4451.0 | 4442.3 |
| 10°    | 4451.0 | 4410.6 | 4425.0 | 4413.5 | 4401.9 |
| 12.5°  | 4404.8 | 4358.7 | 4376.0 | 4361.5 | 4355.8 |
| 15°    | 4341.3 | 4301.0 | 4318.3 | 4309.6 | 4298.1 |
| 17.5°  | 4272.1 | 4231.7 | 4249.0 | 4243.3 | 4226.0 |
| 20°    | 4194.2 | 4153.8 | 4168.3 | 4153.8 | 4142.3 |
| 22.5°  | 4104.8 | 4067.3 | 4078.8 | 4058.7 | 4047.1 |
| 25°    | 4003.8 | 3966.3 | 3980.8 | 3957.7 | 3943.3 |
| 27.5°  | 3897.1 | 3862.5 | 3876.9 | 3853.8 | 3836.5 |
| 30°    | 3784.6 | 3747.1 | 3761.5 | 3735.6 | 3724.0 |
| 32.5°  | 3657.7 | 3626.0 | 3637.5 | 3620.2 | 3605.8 |
| 35°    | 3525.0 | 3496.2 | 3510.6 | 3493.3 | 3481.7 |
| 37.5°  | 3389.4 | 3363.5 | 3375.0 | 3360.6 | 3354.8 |
| 40°    | 3248.1 | 3222.1 | 3239.4 | 3225.0 | 3216.3 |
| 42.5°  | 3098.1 | 3077.9 | 3092.3 | 3083.7 | 3072.1 |
| 45°    | 2945.2 | 2930.8 | 2945.2 | 2933.7 | 2925.0 |
| 47.5°  | 2783.7 | 2775.0 | 2795.2 | 2777.9 | 2769.2 |
| 50°    | 2619.2 | 2616.3 | 2636.5 | 2619.2 | 2607.7 |
| 52.5°  | 2454.8 | 2454.8 | 2472.1 | 2454.8 | 2443.3 |
| 55°    | 2287.5 | 2287.5 | 2307.7 | 2287.5 | 2276.0 |
| 57.5°  | 2120.2 | 2126.0 | 2137.5 | 2117.3 | 2108.7 |
| 60°    | 1944.2 | 1958.7 | 1961.5 | 1944.2 | 1935.6 |
| 62.5°  | 1774.0 | 1785.6 | 1782.7 | 1771.2 | 1759.6 |
| 65°    | 1606.7 | 1612.5 | 1603.8 | 1595.2 | 1583.7 |
| 67.5°  | 1433.7 | 1442.3 | 1430.8 | 1425.0 | 1410.6 |
| 70°    | 1263.5 | 1269.2 | 1254.8 | 1249.0 | 1243.3 |
| 72.5°  | 1087.5 | 1087.5 | 1081.7 | 1073.1 | 1067.3 |
| 75°    | 917.3  | 914.4  | 905.8  | 894.2  | 891.3  |
| 77.5°  | 741.3  | 741.3  | 738.5  | 721.2  | 715.4  |
| 80°    | 565.4  | 565.4  | 562.5  | 551.0  | 545.2  |
| 82.5°  | 403.8  | 403.8  | 392.3  | 389.4  | 383.7  |
| 85°    | 248.1  | 248.1  | 236.5  | 225.0  | 216.3  |
| 87.5°  | 106.7  | 101.0  | 92.3   | 80.8   | 77.9   |
| 90°    | 14.4   | 34.6   | 34.6   | 34.6   | 31.7   |
| 92.5°  | 43.3   | 118.3  | 314.4  | 112.5  | 83.7   |
| 95°    | 57.7   | 173.1  | 801.9  | 389.4  | 268.3  |
| 97.5°  | 92.3   | 207.7  | 1012.5 | 669.2  | 522.1  |
| 100°   | 118.3  | 259.6  | 1107.7 | 983.7  | 773.1  |
| 102.5° | 144.2  | 279.8  | 1087.5 | 1344.2 | 1090.4 |
| 105°   | 167.3  | 294.2  | 1052.9 | 1667.3 | 1459.6 |
| 107.5° | 193.3  | 311.5  | 1015.4 | 1846.2 | 1779.8 |
| 110°   | 216.3  | 340.4  | 920.2  | 1886.5 | 1976.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 239.4 | 363.5 | 859.6 | 1817.3 | 2030.8 |
| 115°   | 259.6 | 377.9 | 830.8 | 1699.0 | 1987.5 |
| 117.5° | 285.6 | 389.4 | 819.2 | 1583.7 | 1889.4 |
| 120°   | 305.8 | 395.2 | 819.2 | 1488.5 | 1779.8 |
| 122.5° | 326.0 | 401.0 | 827.9 | 1410.6 | 1678.8 |
| 125°   | 346.2 | 412.5 | 825.0 | 1352.9 | 1589.4 |
| 127.5° | 369.2 | 418.3 | 816.3 | 1306.7 | 1517.3 |
| 130°   | 386.5 | 432.7 | 801.9 | 1266.3 | 1453.8 |
| 132.5° | 409.6 | 452.9 | 776.0 | 1217.3 | 1399.0 |
| 135°   | 432.7 | 470.2 | 752.9 | 1153.8 | 1335.6 |
| 137.5° | 452.9 | 487.5 | 715.4 | 1093.3 | 1254.8 |
| 140°   | 473.1 | 504.8 | 692.3 | 1024.0 | 1179.8 |
| 142.5° | 496.2 | 522.1 | 677.9 | 960.6  | 1090.4 |
| 145°   | 516.3 | 539.4 | 654.8 | 885.6  | 1012.5 |
| 147.5° | 533.7 | 553.8 | 646.2 | 827.9  | 923.1  |
| 150°   | 551.0 | 568.3 | 646.2 | 787.5  | 859.6  |
| 152.5° | 571.2 | 579.8 | 649.0 | 735.6  | 801.9  |
| 155°   | 585.6 | 594.2 | 649.0 | 718.3  | 752.9  |
| 157.5° | 600.0 | 605.8 | 651.9 | 703.8  | 732.7  |
| 160°   | 614.4 | 620.2 | 654.8 | 692.3  | 709.6  |
| 162.5° | 628.8 | 628.8 | 654.8 | 686.5  | 695.2  |
| 165°   | 640.4 | 640.4 | 657.7 | 680.8  | 686.5  |
| 167.5° | 651.9 | 649.0 | 660.6 | 675.0  | 677.9  |
| 170°   | 660.6 | 654.8 | 663.5 | 672.1  | 669.2  |
| 172.5° | 669.2 | 660.6 | 666.3 | 669.2  | 666.3  |
| 175°   | 672.1 | 666.3 | 669.2 | 669.2  | 660.6  |
| 177.5° | 677.9 | 669.2 | 669.2 | 666.3  | 651.9  |
| 180°   | 666.3 | 666.3 | 666.3 | 666.3  | 666.3  |

(END OF REPORT)