

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: P505901

Luminaire Tested: **14PD-35-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-35-PR1-L840  
Description: 3500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

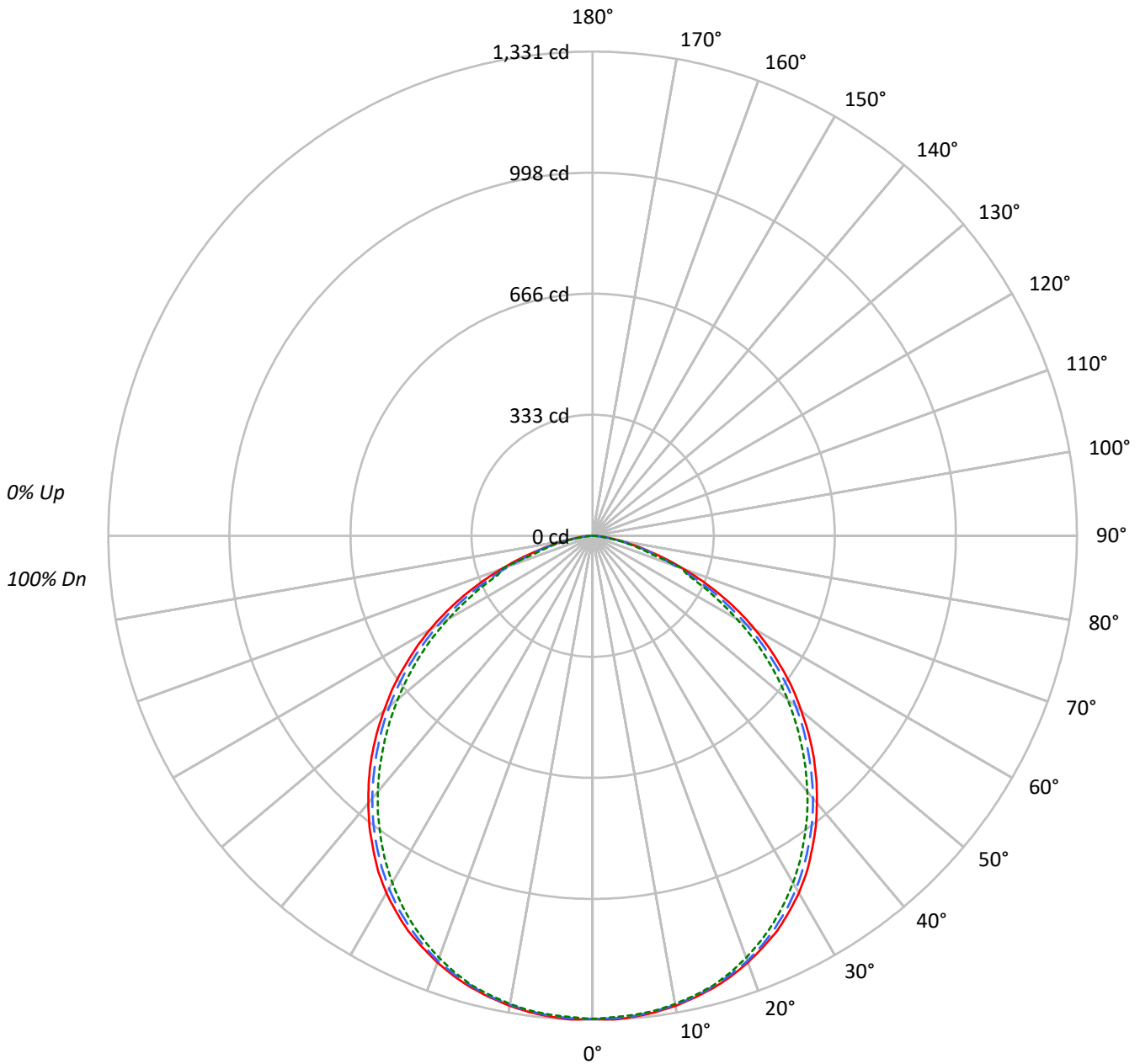
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3417.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.8  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 90  | 88  | 86  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 73  | 64  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 43  | 38  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3573 | 3573 | 3573 |
| 5°  | 3585 | 3579 | 3571 |
| 10° | 3585 | 3578 | 3571 |
| 15° | 3584 | 3573 | 3565 |
| 20° | 3574 | 3561 | 3535 |
| 25° | 3560 | 3528 | 3489 |
| 30° | 3523 | 3478 | 3423 |
| 35° | 3454 | 3403 | 3333 |
| 40° | 3368 | 3310 | 3225 |
| 45° | 3269 | 3188 | 3088 |
| 50° | 3133 | 3051 | 2927 |
| 55° | 2981 | 2863 | 2727 |
| 60° | 2775 | 2630 | 2467 |
| 65° | 2492 | 2316 | 2165 |
| 70° | 2095 | 1910 | 2065 |
| 75° | 1614 | 1552 | 1395 |
| 80° | 1162 | 1040 | 989  |
| 85° | 710  | 608  | 550  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.9  | 3.7       |
| 10°-20°   | 361.6  | 10.6      |
| 20°-30°   | 546.2  | 16.0      |
| 30°-40°   | 646.1  | 18.9      |
| 40°-50°   | 644.3  | 18.9      |
| 50°-60°   | 544.3  | 15.9      |
| 60°-70°   | 362.6  | 10.6      |
| 70°-80°   | 157.5  | 4.6       |
| 80°-90°   | 28.6   | 0.8       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 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°    | 1033.6 | 30.2      |
| 0°-40°    | 1679.7 | 49.2      |
| 0°-60°    | 2868.3 | 83.9      |
| 0°-90°    | 3417.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3417.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1328 | 1328  | 1328 | 1328  | 1328 |      |
| 5°  | 1327 | 1322  | 1325 | 1324  | 1322 | 126  |
| 15° | 1286 | 1280  | 1282 | 1280  | 1280 | 363  |
| 25° | 1199 | 1191  | 1188 | 1178  | 1175 | 552  |
| 35° | 1052 | 1044  | 1036 | 1022  | 1015 | 658  |
| 45° | 859  | 851   | 838  | 820   | 812  | 661  |
| 55° | 635  | 631   | 610  | 591   | 581  | 567  |
| 65° | 391  | 387   | 364  | 348   | 340  | 387  |
| 75° | 155  | 152   | 149  | 144   | 134  | 170  |
| 85° | 23   | 24    | 20   | 18    | 18   | 31   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1327.8 | 1327.8 | 1327.8 | 1327.8 | 1327.8 |
| 2.5°  | 1331.0 | 1325.1 | 1327.8 | 1327.8 | 1324.5 |
| 5°    | 1327.1 | 1321.8 | 1325.1 | 1323.8 | 1321.8 |
| 7.5°  | 1321.2 | 1315.9 | 1317.9 | 1317.2 | 1316.6 |
| 10°   | 1312.0 | 1306.7 | 1309.3 | 1308.0 | 1306.7 |
| 12.5° | 1300.1 | 1294.9 | 1297.5 | 1295.5 | 1294.2 |
| 15°   | 1286.3 | 1280.4 | 1282.4 | 1280.4 | 1279.7 |
| 17.5° | 1269.2 | 1263.3 | 1264.0 | 1261.3 | 1258.7 |
| 20°   | 1248.2 | 1242.9 | 1243.6 | 1237.0 | 1234.4 |
| 22.5° | 1223.8 | 1218.6 | 1217.9 | 1209.4 | 1206.1 |
| 25°   | 1198.9 | 1191.0 | 1188.3 | 1177.8 | 1175.2 |
| 27.5° | 1167.3 | 1160.1 | 1156.1 | 1144.9 | 1139.7 |
| 30°   | 1133.8 | 1125.9 | 1119.3 | 1106.8 | 1101.5 |
| 32.5° | 1095.6 | 1087.7 | 1079.2 | 1066.0 | 1060.1 |
| 35°   | 1051.5 | 1044.3 | 1035.8 | 1022.0 | 1014.7 |
| 37.5° | 1007.5 | 999.6  | 991.0  | 974.6  | 968.7  |
| 40°   | 958.8  | 951.6  | 942.4  | 924.6  | 918.1  |
| 42.5° | 910.2  | 901.6  | 890.4  | 873.3  | 866.1  |
| 45°   | 858.9  | 851.0  | 837.8  | 820.1  | 811.5  |
| 47.5° | 804.9  | 798.4  | 784.6  | 765.5  | 756.3  |
| 50°   | 748.4  | 743.1  | 728.7  | 707.6  | 699.1  |
| 52.5° | 694.5  | 687.2  | 670.8  | 649.7  | 640.5  |
| 55°   | 635.3  | 630.7  | 610.3  | 590.6  | 581.3  |
| 57.5° | 576.1  | 570.2  | 549.8  | 530.0  | 521.5  |
| 60°   | 515.6  | 510.3  | 488.6  | 468.9  | 458.4  |
| 62.5° | 454.4  | 448.5  | 425.5  | 407.7  | 397.9  |
| 65°   | 391.3  | 386.7  | 363.7  | 347.9  | 340.0  |
| 67.5° | 328.2  | 324.9  | 300.5  | 287.4  | 281.5  |
| 70°   | 266.3  | 261.7  | 242.7  | 237.4  | 262.4  |
| 72.5° | 209.1  | 203.2  | 186.8  | 178.2  | 171.6  |
| 75°   | 155.2  | 151.9  | 149.3  | 144.0  | 134.2  |
| 77.5° | 109.2  | 108.5  | 99.3   | 92.1   | 99.3   |
| 80°   | 75.0   | 77.6   | 67.1   | 61.2   | 63.8   |
| 82.5° | 46.0   | 51.3   | 40.1   | 35.5   | 34.2   |
| 85°   | 23.0   | 23.7   | 19.7   | 18.4   | 17.8   |
| 87.5° | 8.5    | 9.9    | 8.5    | 7.2    | 7.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)