

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: P506624

Luminaire Tested: **24PD-40-PL1-L930**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-40-PL1-L930  
Description: 4000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

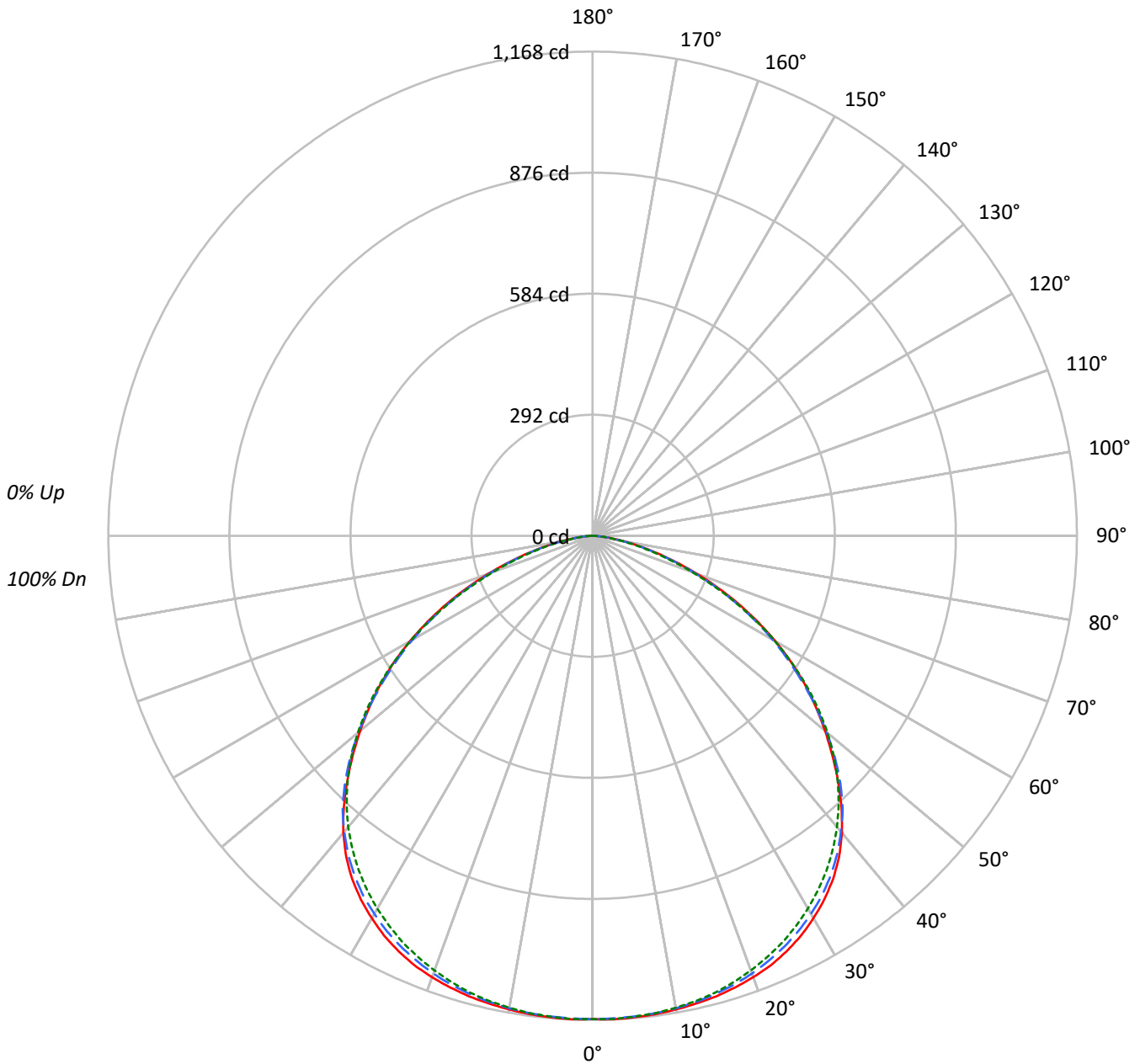
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3344.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.4  
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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1569 | 1569 | 1569 |
| 5°  | 1575 | 1572 | 1573 |
| 10° | 1586 | 1581 | 1580 |
| 15° | 1602 | 1594 | 1589 |
| 20° | 1622 | 1609 | 1598 |
| 25° | 1642 | 1624 | 1607 |
| 30° | 1655 | 1636 | 1613 |
| 35° | 1661 | 1644 | 1617 |
| 40° | 1643 | 1637 | 1610 |
| 45° | 1593 | 1607 | 1590 |
| 50° | 1531 | 1542 | 1548 |
| 55° | 1465 | 1454 | 1475 |
| 60° | 1370 | 1348 | 1365 |
| 65° | 1233 | 1209 | 1208 |
| 70° | 1050 | 1026 | 1002 |
| 75° | 827  | 808  | 775  |
| 80° | 591  | 574  | 542  |
| 85° | 350  | 344  | 321  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.9  | 3.3       |
| 10°-20°   | 323.6  | 9.7       |
| 20°-30°   | 504.5  | 15.1      |
| 30°-40°   | 624.2  | 18.7      |
| 40°-50°   | 647.1  | 19.3      |
| 50°-60°   | 557.2  | 16.7      |
| 60°-70°   | 378.0  | 11.3      |
| 70°-80°   | 168.7  | 5.0       |
| 80°-90°   | 30.4   | 0.9       |
| 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°    | 939.0  | 28.1      |
| 0°-40°    | 1563.3 | 46.7      |
| 0°-60°    | 2767.6 | 82.7      |
| 0°-90°    | 3344.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3344.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1166 | 1166  | 1166 | 1166  | 1166 |      |
| 5°  | 1166 | 1164  | 1164 | 1164  | 1164 | 111  |
| 15° | 1150 | 1147  | 1144 | 1142  | 1141 | 325  |
| 25° | 1106 | 1102  | 1094 | 1086  | 1083 | 510  |
| 35° | 1011 | 1008  | 1001 | 990   | 984  | 631  |
| 45° | 837  | 841   | 845  | 842   | 836  | 645  |
| 55° | 624  | 625   | 620  | 627   | 629  | 557  |
| 65° | 387  | 389   | 380  | 375   | 379  | 383  |
| 75° | 159  | 160   | 156  | 152   | 149  | 173  |
| 85° | 23   | 23    | 22   | 22    | 21   | 31   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 2.5°  | 1167.5 | 1165.0 | 1165.3 | 1165.6 | 1166.9 |
| 5°    | 1165.9 | 1164.3 | 1164.0 | 1164.0 | 1164.3 |
| 7.5°  | 1164.0 | 1162.1 | 1161.8 | 1161.4 | 1161.4 |
| 10°   | 1160.5 | 1158.6 | 1157.3 | 1156.7 | 1156.3 |
| 12.5° | 1155.7 | 1153.5 | 1151.9 | 1150.6 | 1149.6 |
| 15°   | 1150.3 | 1147.1 | 1144.5 | 1142.0 | 1141.0 |
| 17.5° | 1142.6 | 1139.7 | 1135.3 | 1131.1 | 1129.5 |
| 20°   | 1133.0 | 1130.2 | 1123.8 | 1118.0 | 1115.8 |
| 22.5° | 1121.9 | 1117.7 | 1109.7 | 1103.3 | 1100.1 |
| 25°   | 1106.2 | 1102.1 | 1093.8 | 1085.8 | 1082.6 |
| 27.5° | 1088.0 | 1084.2 | 1075.2 | 1065.7 | 1061.8 |
| 30°   | 1065.3 | 1062.8 | 1053.2 | 1042.7 | 1038.5 |
| 32.5° | 1040.1 | 1037.6 | 1029.3 | 1017.5 | 1012.7 |
| 35°   | 1011.1 | 1008.2 | 1000.9 | 990.0  | 984.3  |
| 37.5° | 976.6  | 975.6  | 968.6  | 957.4  | 952.0  |
| 40°   | 935.4  | 937.3  | 931.9  | 922.3  | 916.9  |
| 42.5° | 888.5  | 892.6  | 892.6  | 883.7  | 878.3  |
| 45°   | 837.1  | 840.9  | 844.7  | 841.5  | 835.5  |
| 47.5° | 784.4  | 788.6  | 793.0  | 794.3  | 789.2  |
| 50°   | 731.4  | 734.0  | 736.8  | 742.6  | 739.4  |
| 52.5° | 678.7  | 679.7  | 678.7  | 686.4  | 685.8  |
| 55°   | 624.5  | 624.8  | 619.7  | 626.7  | 628.9  |
| 57.5° | 567.9  | 568.9  | 560.6  | 564.4  | 569.2  |
| 60°   | 509.2  | 510.2  | 500.9  | 501.5  | 507.3  |
| 62.5° | 448.5  | 449.8  | 440.6  | 438.3  | 443.4  |
| 65°   | 387.3  | 388.8  | 379.6  | 375.4  | 379.3  |
| 67.5° | 326.3  | 328.2  | 319.6  | 314.5  | 315.4  |
| 70°   | 266.9  | 268.5  | 260.8  | 256.0  | 254.8  |
| 72.5° | 210.4  | 212.0  | 205.9  | 201.1  | 198.9  |
| 75°   | 159.0  | 160.3  | 155.5  | 152.0  | 149.1  |
| 77.5° | 114.3  | 115.3  | 111.4  | 108.9  | 106.0  |
| 80°   | 76.3   | 76.6   | 74.1   | 72.5   | 69.9   |
| 82.5° | 45.7   | 46.0   | 44.4   | 43.7   | 41.8   |
| 85°   | 22.7   | 23.0   | 22.3   | 22.3   | 20.8   |
| 87.5° | 8.0    | 7.7    | 8.0    | 8.0    | 7.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)