

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: P506565

Luminaire Tested: **24PD-30-PL1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506565  
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-30-PL1-L830  
Description: 3000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

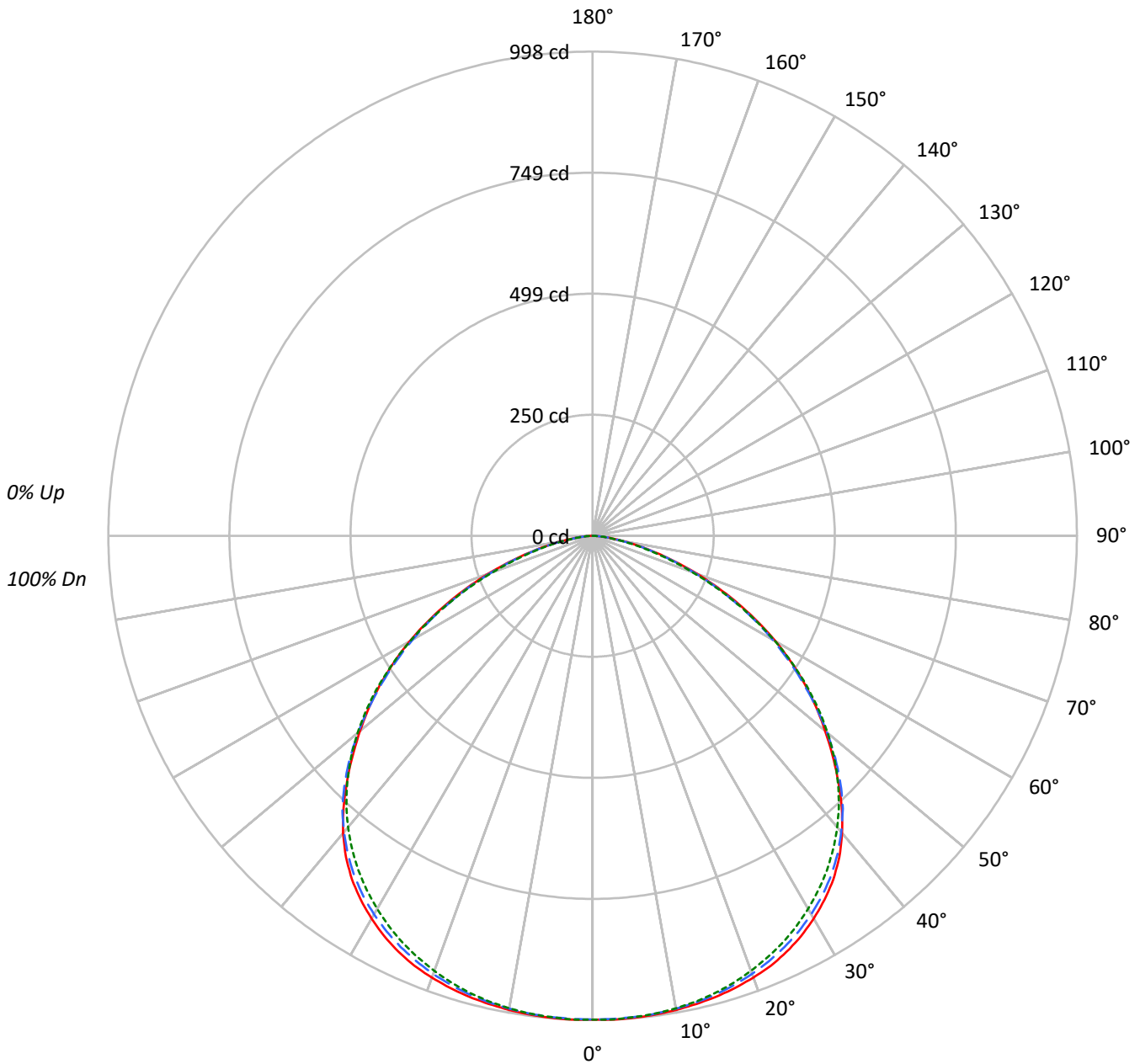
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2860.5 lumens  
Efficiency: N/A  
Efficacy: 134.3 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): 21.3  
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  |     |     |     | 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  | 50  | 30 | 10 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    | 52  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    | 39  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    | 35  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |    |    | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1342 | 1342 | 1342 |
| 5°  | 1347 | 1345 | 1345 |
| 10° | 1356 | 1352 | 1351 |
| 15° | 1370 | 1364 | 1359 |
| 20° | 1387 | 1376 | 1366 |
| 25° | 1405 | 1389 | 1375 |
| 30° | 1416 | 1400 | 1380 |
| 35° | 1420 | 1406 | 1383 |
| 40° | 1405 | 1400 | 1377 |
| 45° | 1362 | 1375 | 1360 |
| 50° | 1309 | 1319 | 1324 |
| 55° | 1253 | 1243 | 1262 |
| 60° | 1172 | 1153 | 1168 |
| 65° | 1054 | 1033 | 1033 |
| 70° | 898  | 878  | 857  |
| 75° | 707  | 691  | 663  |
| 80° | 506  | 490  | 463  |
| 85° | 299  | 295  | 273  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.9   | 3.3       |
| 10°-20°   | 276.8  | 9.7       |
| 20°-30°   | 431.4  | 15.1      |
| 30°-40°   | 533.9  | 18.7      |
| 40°-50°   | 553.5  | 19.3      |
| 50°-60°   | 476.5  | 16.7      |
| 60°-70°   | 323.3  | 11.3      |
| 70°-80°   | 144.3  | 5.0       |
| 80°-90°   | 26.0   | 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°    | 803.1  | 28.1      |
| 0°-40°    | 1337.0 | 46.7      |
| 0°-60°    | 2367.0 | 82.7      |
| 0°-90°    | 2860.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2860.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 997 | 997   | 997 | 997   | 997 |      |
| 5°  | 997 | 996   | 996 | 996   | 996 | 95   |
| 15° | 984 | 981   | 979 | 977   | 976 | 278  |
| 25° | 946 | 942   | 935 | 929   | 926 | 436  |
| 35° | 865 | 862   | 856 | 847   | 842 | 540  |
| 45° | 716 | 719   | 722 | 720   | 715 | 552  |
| 55° | 534 | 534   | 530 | 536   | 538 | 476  |
| 65° | 331 | 333   | 325 | 321   | 324 | 328  |
| 75° | 136 | 137   | 133 | 130   | 128 | 148  |
| 85° | 19  | 20    | 19  | 19    | 18  | 27   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 997.2 | 997.2 | 997.2 | 997.2 | 997.2 |
| 2.5°  | 998.5 | 996.3 | 996.6 | 996.9 | 998.0 |
| 5°    | 997.2 | 995.8 | 995.5 | 995.5 | 995.8 |
| 7.5°  | 995.5 | 993.9 | 993.6 | 993.3 | 993.3 |
| 10°   | 992.5 | 990.9 | 989.8 | 989.2 | 989.0 |
| 12.5° | 988.4 | 986.5 | 985.1 | 984.0 | 983.2 |
| 15°   | 983.8 | 981.0 | 978.9 | 976.7 | 975.9 |
| 17.5° | 977.2 | 974.8 | 970.9 | 967.4 | 966.0 |
| 20°   | 969.0 | 966.6 | 961.1 | 956.2 | 954.3 |
| 22.5° | 959.5 | 955.9 | 949.1 | 943.6 | 940.9 |
| 25°   | 946.1 | 942.5 | 935.4 | 928.6 | 925.9 |
| 27.5° | 930.5 | 927.3 | 919.6 | 911.4 | 908.1 |
| 30°   | 911.1 | 909.0 | 900.8 | 891.8 | 888.2 |
| 32.5° | 889.6 | 887.4 | 880.3 | 870.2 | 866.1 |
| 35°   | 864.7 | 862.3 | 856.0 | 846.7 | 841.8 |
| 37.5° | 835.2 | 834.4 | 828.4 | 818.9 | 814.2 |
| 40°   | 800.0 | 801.7 | 797.0 | 788.8 | 784.2 |
| 42.5° | 759.9 | 763.4 | 763.4 | 755.8 | 751.1 |
| 45°   | 715.9 | 719.2 | 722.5 | 719.7 | 714.6 |
| 47.5° | 670.9 | 674.4 | 678.2 | 679.3 | 675.0 |
| 50°   | 625.5 | 627.7 | 630.2 | 635.1 | 632.4 |
| 52.5° | 580.5 | 581.3 | 580.5 | 587.0 | 586.5 |
| 55°   | 534.1 | 534.3 | 530.0 | 536.0 | 537.9 |
| 57.5° | 485.7 | 486.6 | 479.5 | 482.7 | 486.8 |
| 60°   | 435.5 | 436.3 | 428.4 | 429.0 | 433.9 |
| 62.5° | 383.6 | 384.7 | 376.8 | 374.9 | 379.3 |
| 65°   | 331.2 | 332.6 | 324.6 | 321.1 | 324.4 |
| 67.5° | 279.1 | 280.7 | 273.3 | 268.9 | 269.8 |
| 70°   | 228.3 | 229.6 | 223.1 | 219.0 | 217.9 |
| 72.5° | 179.9 | 181.3 | 176.1 | 172.0 | 170.1 |
| 75°   | 136.0 | 137.1 | 133.0 | 130.0 | 127.5 |
| 77.5° | 97.7  | 98.6  | 95.3  | 93.1  | 90.7  |
| 80°   | 65.3  | 65.5  | 63.3  | 62.0  | 59.8  |
| 82.5° | 39.0  | 39.3  | 38.0  | 37.4  | 35.8  |
| 85°   | 19.4  | 19.7  | 19.1  | 19.1  | 17.7  |
| 87.5° | 6.8   | 6.6   | 6.8   | 6.8   | 6.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)