

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: P506223

Luminaire Tested: **22PD-30-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-30-PR1-L830  
Description: 3000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

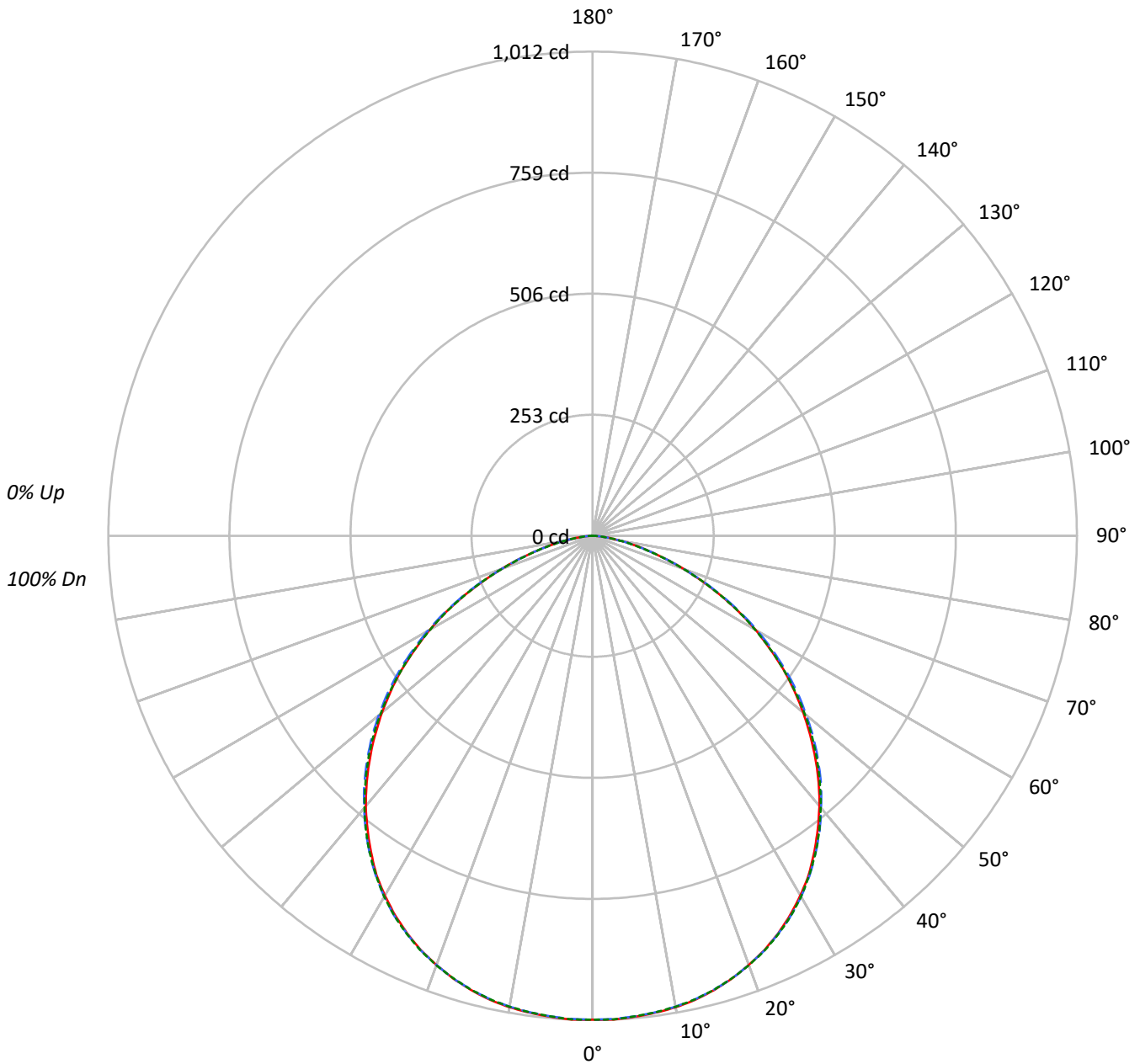
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2703.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.6  
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 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 88  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 50  | 43  | 70  | 58  | 49  | 43  | 56  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 42  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2722 | 2722 | 2722 |
| 5°  | 2726 | 2724 | 2724 |
| 10° | 2734 | 2731 | 2731 |
| 15° | 2738 | 2735 | 2736 |
| 20° | 2734 | 2733 | 2735 |
| 25° | 2722 | 2725 | 2727 |
| 30° | 2698 | 2706 | 2707 |
| 35° | 2652 | 2667 | 2666 |
| 40° | 2591 | 2608 | 2605 |
| 45° | 2506 | 2538 | 2525 |
| 50° | 2404 | 2441 | 2421 |
| 55° | 2282 | 2318 | 2285 |
| 60° | 2116 | 2145 | 2108 |
| 65° | 1887 | 1906 | 1885 |
| 70° | 1588 | 1588 | 1577 |
| 75° | 1243 | 1243 | 1230 |
| 80° | 911  | 900  | 896  |
| 85° | 596  | 596  | 605  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.0   | 3.6       |
| 10°-20°   | 277.2  | 10.3      |
| 20°-30°   | 422.8  | 15.6      |
| 30°-40°   | 506.8  | 18.7      |
| 40°-50°   | 511.8  | 18.9      |
| 50°-60°   | 437.9  | 16.2      |
| 60°-70°   | 295.3  | 10.9      |
| 70°-80°   | 130.3  | 4.8       |
| 80°-90°   | 25.0   | 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°    | 796.0  | 29.4      |
| 0°-40°    | 1302.8 | 48.2      |
| 0°-60°    | 2252.4 | 83.3      |
| 0°-90°    | 2703.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2703.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1012 | 1012  | 1012 | 1012  | 1012 |      |
| 5°  | 1009 | 1008  | 1008 | 1008  | 1008 | 96   |
| 15° | 983  | 982   | 982  | 982   | 982  | 277  |
| 25° | 917  | 918   | 918  | 918   | 919  | 422  |
| 35° | 807  | 812   | 812  | 811   | 812  | 505  |
| 45° | 658  | 663   | 667  | 666   | 663  | 507  |
| 55° | 486  | 491   | 494  | 493   | 487  | 433  |
| 65° | 296  | 299   | 299  | 299   | 296  | 293  |
| 75° | 120  | 120   | 120  | 120   | 118  | 130  |
| 85° | 19   | 19    | 19   | 20    | 20   | 25   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1011.6 | 1011.6 | 1011.6 | 1011.6 | 1011.6 |
| 2.5°  | 1012.2 | 1010.9 | 1010.5 | 1010.2 | 1011.6 |
| 5°    | 1009.2 | 1007.8 | 1008.5 | 1007.8 | 1008.5 |
| 7.5°  | 1005.5 | 1004.1 | 1004.5 | 1003.8 | 1004.5 |
| 10°   | 1000.7 | 999.4  | 999.4  | 998.7  | 999.4  |
| 12.5° | 993.3  | 992.3  | 992.0  | 991.3  | 992.3  |
| 15°   | 982.8  | 982.5  | 981.8  | 981.5  | 982.2  |
| 17.5° | 970.0  | 969.3  | 970.0  | 969.0  | 969.6  |
| 20°   | 954.8  | 955.1  | 954.4  | 954.8  | 955.1  |
| 22.5° | 937.5  | 937.5  | 937.9  | 937.9  | 938.6  |
| 25°   | 916.9  | 917.9  | 917.9  | 917.9  | 918.6  |
| 27.5° | 893.9  | 895.3  | 896.3  | 895.6  | 896.3  |
| 30°   | 868.3  | 870.6  | 871.0  | 870.6  | 871.3  |
| 32.5° | 840.5  | 842.2  | 843.2  | 842.6  | 841.9  |
| 35°   | 807.4  | 812.1  | 811.8  | 811.1  | 811.5  |
| 37.5° | 772.6  | 777.3  | 779.0  | 777.7  | 778.0  |
| 40°   | 737.5  | 741.5  | 742.5  | 742.9  | 741.5  |
| 42.5° | 698.6  | 703.3  | 707.0  | 705.4  | 703.3  |
| 45°   | 658.4  | 663.4  | 666.8  | 665.8  | 663.4  |
| 47.5° | 616.8  | 621.5  | 626.3  | 624.6  | 622.2  |
| 50°   | 574.2  | 578.9  | 583.0  | 582.3  | 578.3  |
| 52.5° | 530.6  | 536.0  | 539.7  | 538.4  | 533.0  |
| 55°   | 486.3  | 490.7  | 494.1  | 493.4  | 487.0  |
| 57.5° | 438.4  | 444.1  | 445.8  | 444.8  | 440.0  |
| 60°   | 393.1  | 396.8  | 398.5  | 397.1  | 391.7  |
| 62.5° | 344.7  | 347.8  | 349.1  | 348.8  | 345.1  |
| 65°   | 296.4  | 298.8  | 299.4  | 298.8  | 296.1  |
| 67.5° | 246.7  | 250.1  | 250.4  | 250.4  | 247.7  |
| 70°   | 201.8  | 202.8  | 201.8  | 204.5  | 200.4  |
| 72.5° | 158.2  | 158.8  | 158.2  | 158.2  | 156.5  |
| 75°   | 119.6  | 120.0  | 119.6  | 120.0  | 118.3  |
| 77.5° | 86.5   | 87.2   | 85.8   | 86.9   | 85.2   |
| 80°   | 58.8   | 58.8   | 58.1   | 58.5   | 57.8   |
| 82.5° | 36.5   | 37.2   | 36.2   | 36.2   | 35.8   |
| 85°   | 19.3   | 19.3   | 19.3   | 19.6   | 19.6   |
| 87.5° | 6.8    | 6.8    | 7.1    | 7.1    | 6.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)