

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: P506136

Luminaire Tested: **14PD-80-PL1-L850**

Issue Date: 3/26/2021



**Test Information**

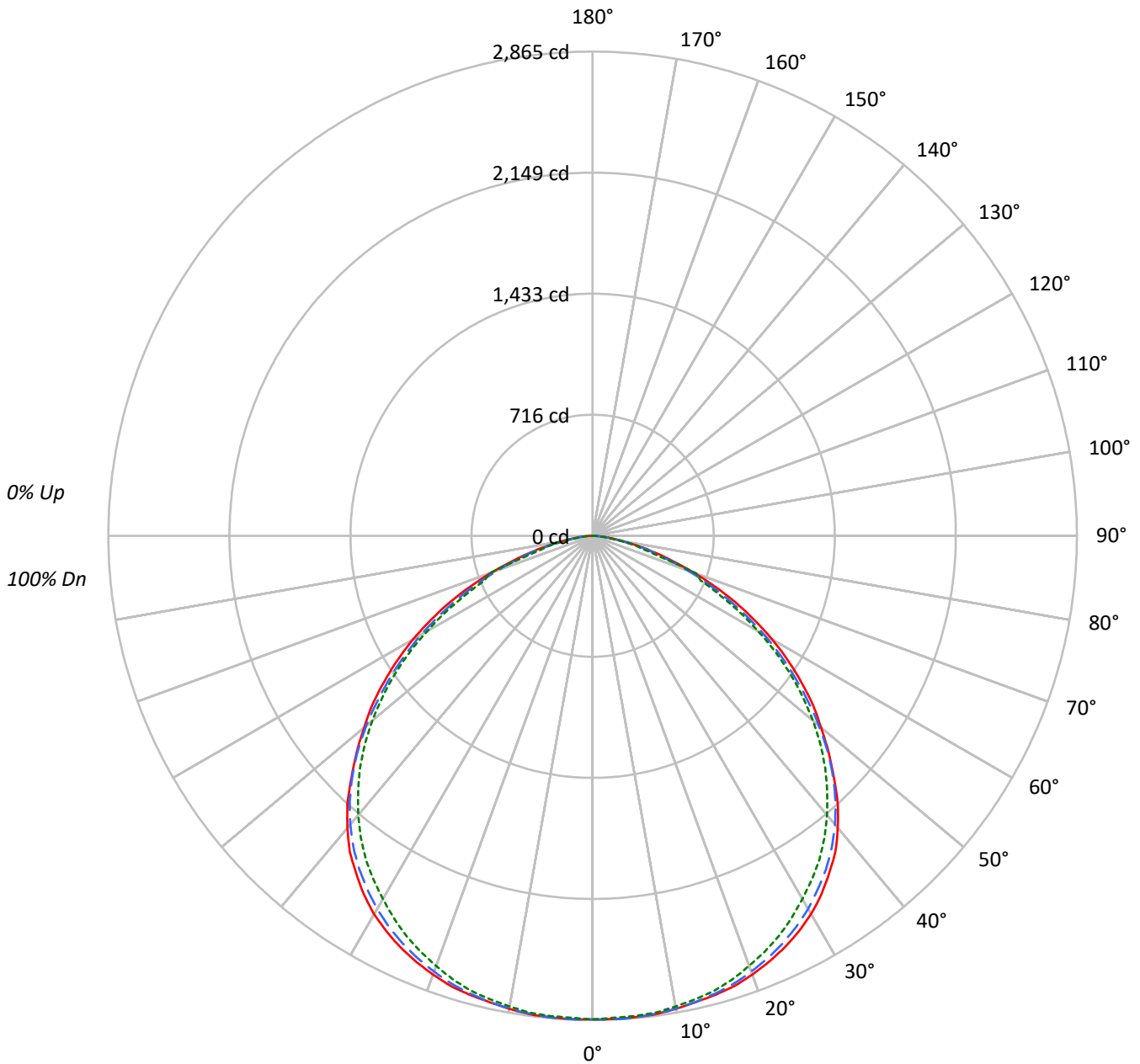
Test Method: LM-79-08  
Report Number: P506136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-80-PL1-L850  
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI, 5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7954.4 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 84.4  
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  |     |     |    |    | 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 | 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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |    |    | 72  |   |  |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |    |    | 61  |   |  |   |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 52  |    |    |    |    | 52  |   |  |   |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |    | 31  |   |  |   |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |    |    | 25  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7702 | 7702 | 7702 |
| 5°  | 7727 | 7731 | 7706 |
| 10° | 7769 | 7760 | 7726 |
| 15° | 7833 | 7811 | 7763 |
| 20° | 7912 | 7858 | 7755 |
| 25° | 7980 | 7900 | 7751 |
| 30° | 8034 | 7921 | 7711 |
| 35° | 8013 | 7910 | 7682 |
| 40° | 7928 | 7834 | 7575 |
| 45° | 7674 | 7650 | 7405 |
| 50° | 7382 | 7317 | 7119 |
| 55° | 7064 | 6857 | 6702 |
| 60° | 6598 | 6302 | 6090 |
| 65° | 5945 | 5574 | 5274 |
| 70° | 4971 | 4662 | 5120 |
| 75° | 3922 | 3775 | 3268 |
| 80° | 2825 | 2509 | 2557 |
| 85° | 1797 | 1504 | 1408 |



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CATALOG NUMBER: 14PD-80-PL1-L850

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 272.1  | 3.4       |
| 10°-20°   | 791.0  | 9.9       |
| 20°-30°   | 1222.9 | 15.4      |
| 30°-40°   | 1496.7 | 18.8      |
| 40°-50°   | 1534.4 | 19.3      |
| 50°-60°   | 1306.9 | 16.4      |
| 60°-70°   | 873.3  | 11.0      |
| 70°-80°   | 387.0  | 4.9       |
| 80°-90°   | 70.0   | 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°    | 2286.0 | 28.7      |
| 0°-40°    | 3782.7 | 47.6      |
| 0°-60°    | 6624.0 | 83.3      |
| 0°-90°    | 7954.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7954.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2862 | 2862  | 2862 | 2862  | 2862 |      |
| 5°  | 2860 | 2854  | 2862 | 2860  | 2853 | 273  |
| 15° | 2812 | 2802  | 2804 | 2796  | 2787 | 795  |
| 25° | 2688 | 2678  | 2661 | 2626  | 2610 | 1239 |
| 35° | 2439 | 2433  | 2408 | 2354  | 2339 | 1525 |
| 45° | 2016 | 2023  | 2010 | 1965  | 1946 | 1556 |
| 55° | 1506 | 1498  | 1462 | 1432  | 1429 | 1343 |
| 65° | 934  | 926   | 875  | 836   | 828  | 920  |
| 75° | 377  | 382   | 363  | 365   | 314  | 409  |
| 85° | 58   | 57    | 49   | 47    | 46   | 77   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2862.0 | 2862.0 | 2862.0 | 2862.0 | 2862.0 |
| 2.5°  | 2862.0 | 2857.3 | 2865.1 | 2868.3 | 2854.1 |
| 5°    | 2860.4 | 2854.1 | 2862.0 | 2860.4 | 2852.6 |
| 7.5°  | 2855.7 | 2844.7 | 2852.6 | 2849.4 | 2846.3 |
| 10°   | 2843.1 | 2833.7 | 2840.0 | 2835.3 | 2827.4 |
| 12.5° | 2825.8 | 2819.6 | 2824.3 | 2819.6 | 2808.6 |
| 15°   | 2811.7 | 2802.3 | 2803.8 | 2796.0 | 2786.6 |
| 17.5° | 2792.8 | 2778.7 | 2778.7 | 2763.0 | 2752.0 |
| 20°   | 2763.0 | 2750.4 | 2744.1 | 2722.1 | 2708.0 |
| 22.5° | 2728.4 | 2719.0 | 2706.4 | 2678.1 | 2662.4 |
| 25°   | 2687.5 | 2678.1 | 2660.8 | 2626.2 | 2610.5 |
| 27.5° | 2640.4 | 2627.8 | 2609.0 | 2568.1 | 2549.2 |
| 30°   | 2585.4 | 2569.7 | 2549.2 | 2503.7 | 2481.7 |
| 32.5° | 2517.8 | 2506.8 | 2480.1 | 2432.9 | 2412.5 |
| 35°   | 2439.2 | 2432.9 | 2407.8 | 2354.3 | 2338.6 |
| 37.5° | 2359.1 | 2346.5 | 2324.5 | 2267.9 | 2252.2 |
| 40°   | 2256.9 | 2249.0 | 2230.2 | 2175.2 | 2156.3 |
| 42.5° | 2146.9 | 2142.2 | 2126.5 | 2074.6 | 2054.2 |
| 45°   | 2016.4 | 2022.7 | 2010.2 | 1964.6 | 1945.7 |
| 47.5° | 1892.3 | 1889.1 | 1884.4 | 1843.6 | 1827.8 |
| 50°   | 1763.4 | 1757.1 | 1747.7 | 1714.7 | 1700.5 |
| 52.5° | 1642.4 | 1629.8 | 1604.7 | 1576.4 | 1566.9 |
| 55°   | 1505.7 | 1497.8 | 1461.6 | 1431.8 | 1428.6 |
| 57.5° | 1367.3 | 1362.6 | 1318.6 | 1284.0 | 1284.0 |
| 60°   | 1225.9 | 1219.6 | 1170.9 | 1134.7 | 1131.6 |
| 62.5° | 1078.2 | 1073.4 | 1023.2 | 982.3  | 983.9  |
| 65°   | 933.6  | 925.7  | 875.4  | 836.1  | 828.3  |
| 67.5° | 782.7  | 779.5  | 730.8  | 694.7  | 691.5  |
| 70°   | 631.8  | 631.8  | 592.5  | 561.1  | 650.7  |
| 72.5° | 498.2  | 493.5  | 462.1  | 447.9  | 427.5  |
| 75°   | 377.2  | 381.9  | 363.1  | 364.6  | 314.3  |
| 77.5° | 268.8  | 260.9  | 253.0  | 235.7  | 249.9  |
| 80°   | 182.3  | 177.6  | 161.9  | 157.2  | 165.0  |
| 82.5° | 113.2  | 114.7  | 100.6  | 91.2   | 89.6   |
| 85°   | 58.2   | 56.6   | 48.7   | 47.1   | 45.6   |
| 87.5° | 22.0   | 23.6   | 20.4   | 18.9   | 17.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)