

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: P505875

Luminaire Tested: **14PD-30-PR1-L850**

Issue Date: 3/26/2021



**Test Information**

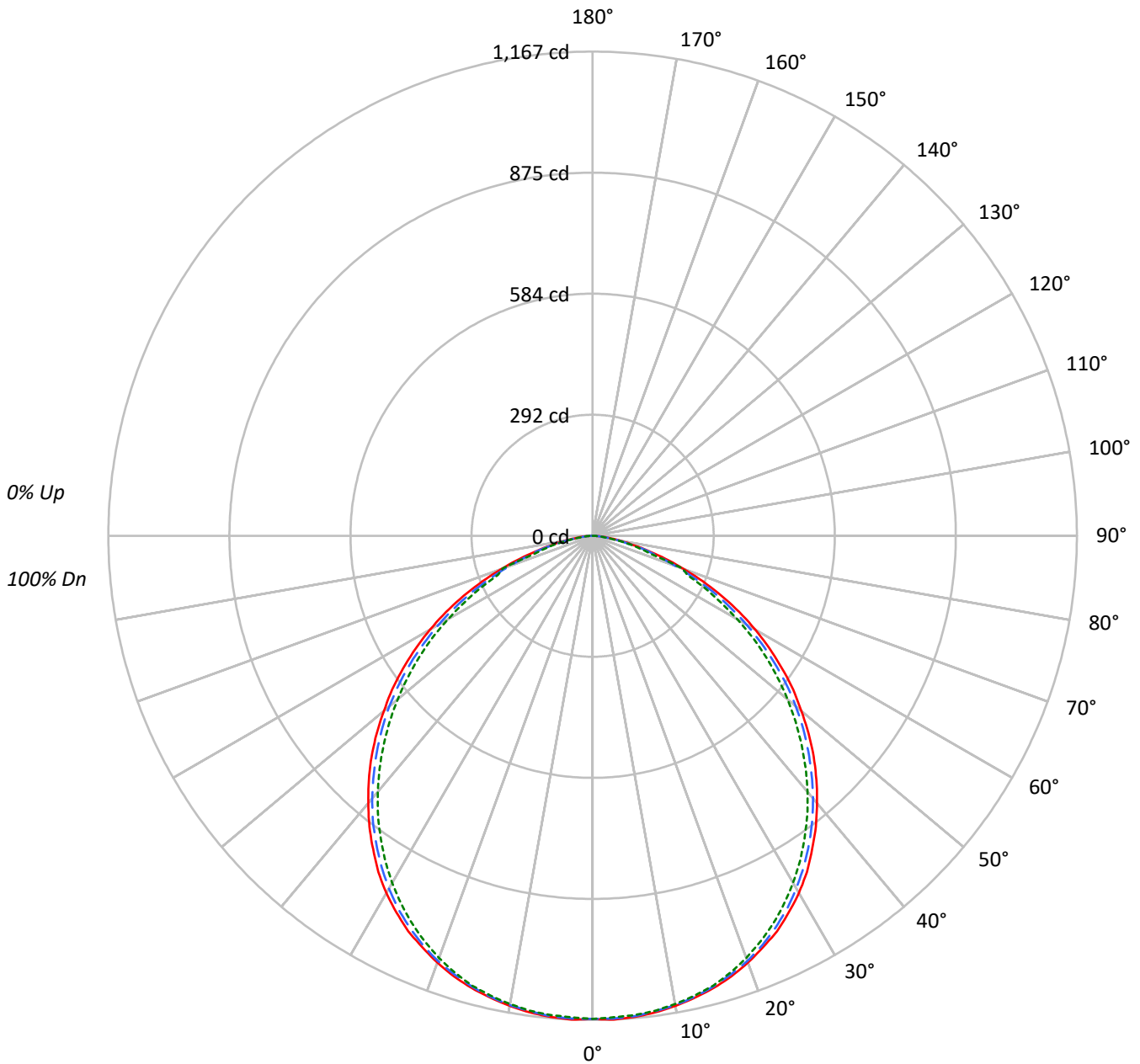
Test Method: LM-79-08  
Report Number: P505875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-30-PR1-L850  
Description: 3000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2997.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 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): 27  
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   | 110 | 105 | 101 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 90  | 88  | 86  |    |    |    | 86  |  |  |  |   |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |    | 73  |  |  |  |   |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    | 62  |  |  |  |   |
| 4   | 84  | 73  | 64  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 55  | 53  |    |    |    | 53  |  |  |  |   |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |    | 46  |  |  |  |   |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    | 41  |  |  |  |   |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 43  | 38  | 36  |    |    |    | 36  |  |  |  |   |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |    | 32  |  |  |  |   |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |    | 29  |  |  |  |   |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    | 26  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3134 | 3134 | 3134 |
| 5°  | 3144 | 3139 | 3132 |
| 10° | 3144 | 3138 | 3132 |
| 15° | 3143 | 3134 | 3127 |
| 20° | 3135 | 3123 | 3100 |
| 25° | 3122 | 3095 | 3060 |
| 30° | 3090 | 3050 | 3002 |
| 35° | 3030 | 2984 | 2924 |
| 40° | 2954 | 2903 | 2829 |
| 45° | 2867 | 2796 | 2709 |
| 50° | 2748 | 2676 | 2567 |
| 55° | 2614 | 2511 | 2392 |
| 60° | 2434 | 2307 | 2164 |
| 65° | 2185 | 2031 | 1899 |
| 70° | 1838 | 1674 | 1810 |
| 75° | 1415 | 1361 | 1224 |
| 80° | 1020 | 911  | 866  |
| 85° | 624  | 534  | 482  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.4  | 3.7       |
| 10°-20°   | 317.1  | 10.6      |
| 20°-30°   | 479.0  | 16.0      |
| 30°-40°   | 566.7  | 18.9      |
| 40°-50°   | 565.1  | 18.9      |
| 50°-60°   | 477.4  | 15.9      |
| 60°-70°   | 318.1  | 10.6      |
| 70°-80°   | 138.2  | 4.6       |
| 80°-90°   | 25.1   | 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°    | 906.5  | 30.2      |
| 0°-40°    | 1473.3 | 49.2      |
| 0°-60°    | 2515.7 | 83.9      |
| 0°-90°    | 2997.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2997.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1165 | 1165  | 1165 | 1165  | 1165 |      |
| 5°  | 1164 | 1159  | 1162 | 1161  | 1159 | 111  |
| 15° | 1128 | 1123  | 1125 | 1123  | 1122 | 318  |
| 25° | 1052 | 1045  | 1042 | 1033  | 1031 | 484  |
| 35° | 922  | 916   | 908  | 896   | 890  | 577  |
| 45° | 753  | 746   | 735  | 719   | 712  | 580  |
| 55° | 557  | 553   | 535  | 518   | 510  | 497  |
| 65° | 343  | 339   | 319  | 305   | 298  | 339  |
| 75° | 136  | 133   | 131  | 126   | 118  | 149  |
| 85° | 20   | 21    | 17   | 16    | 16   | 27   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1164.6 | 1164.6 | 1164.6 | 1164.6 | 1164.6 |
| 2.5°  | 1167.4 | 1162.2 | 1164.6 | 1164.6 | 1161.7 |
| 5°    | 1164.0 | 1159.4 | 1162.2 | 1161.1 | 1159.4 |
| 7.5°  | 1158.8 | 1154.2 | 1155.9 | 1155.3 | 1154.7 |
| 10°   | 1150.7 | 1146.1 | 1148.4 | 1147.2 | 1146.1 |
| 12.5° | 1140.3 | 1135.7 | 1138.0 | 1136.3 | 1135.1 |
| 15°   | 1128.2 | 1123.0 | 1124.8 | 1123.0 | 1122.4 |
| 17.5° | 1113.2 | 1108.0 | 1108.6 | 1106.3 | 1104.0 |
| 20°   | 1094.8 | 1090.1 | 1090.7 | 1085.0 | 1082.6 |
| 22.5° | 1073.4 | 1068.8 | 1068.2 | 1060.7 | 1057.8 |
| 25°   | 1051.5 | 1044.6 | 1042.3 | 1033.0 | 1030.7 |
| 27.5° | 1023.8 | 1017.5 | 1014.0 | 1004.2 | 999.6  |
| 30°   | 994.4  | 987.5  | 981.7  | 970.7  | 966.1  |
| 32.5° | 960.9  | 954.0  | 946.5  | 935.0  | 929.8  |
| 35°   | 922.3  | 916.0  | 908.5  | 896.3  | 890.0  |
| 37.5° | 883.7  | 876.7  | 869.2  | 854.8  | 849.6  |
| 40°   | 841.0  | 834.6  | 826.5  | 811.0  | 805.2  |
| 42.5° | 798.3  | 790.8  | 781.0  | 766.0  | 759.6  |
| 45°   | 753.3  | 746.4  | 734.8  | 719.3  | 711.8  |
| 47.5° | 706.0  | 700.2  | 688.1  | 671.4  | 663.3  |
| 50°   | 656.4  | 651.8  | 639.1  | 620.6  | 613.1  |
| 52.5° | 609.1  | 602.8  | 588.3  | 569.9  | 561.8  |
| 55°   | 557.2  | 553.1  | 535.3  | 518.0  | 509.9  |
| 57.5° | 505.3  | 500.1  | 482.2  | 464.9  | 457.4  |
| 60°   | 452.2  | 447.6  | 428.6  | 411.3  | 402.0  |
| 62.5° | 398.6  | 393.4  | 373.2  | 357.6  | 349.0  |
| 65°   | 343.2  | 339.2  | 319.0  | 305.1  | 298.2  |
| 67.5° | 287.8  | 284.9  | 263.6  | 252.1  | 246.9  |
| 70°   | 233.6  | 229.6  | 212.8  | 208.2  | 230.1  |
| 72.5° | 183.4  | 178.2  | 163.8  | 156.3  | 150.5  |
| 75°   | 136.1  | 133.2  | 130.9  | 126.3  | 117.7  |
| 77.5° | 95.7   | 95.2   | 87.1   | 80.8   | 87.1   |
| 80°   | 65.8   | 68.1   | 58.8   | 53.6   | 55.9   |
| 82.5° | 40.4   | 45.0   | 35.2   | 31.1   | 30.0   |
| 85°   | 20.2   | 20.8   | 17.3   | 16.2   | 15.6   |
| 87.5° | 7.5    | 8.7    | 7.5    | 6.3    | 6.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)