

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: P412959

Luminaire Tested: **14PD-20-PC3-L850**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-20-PC3-L850  
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

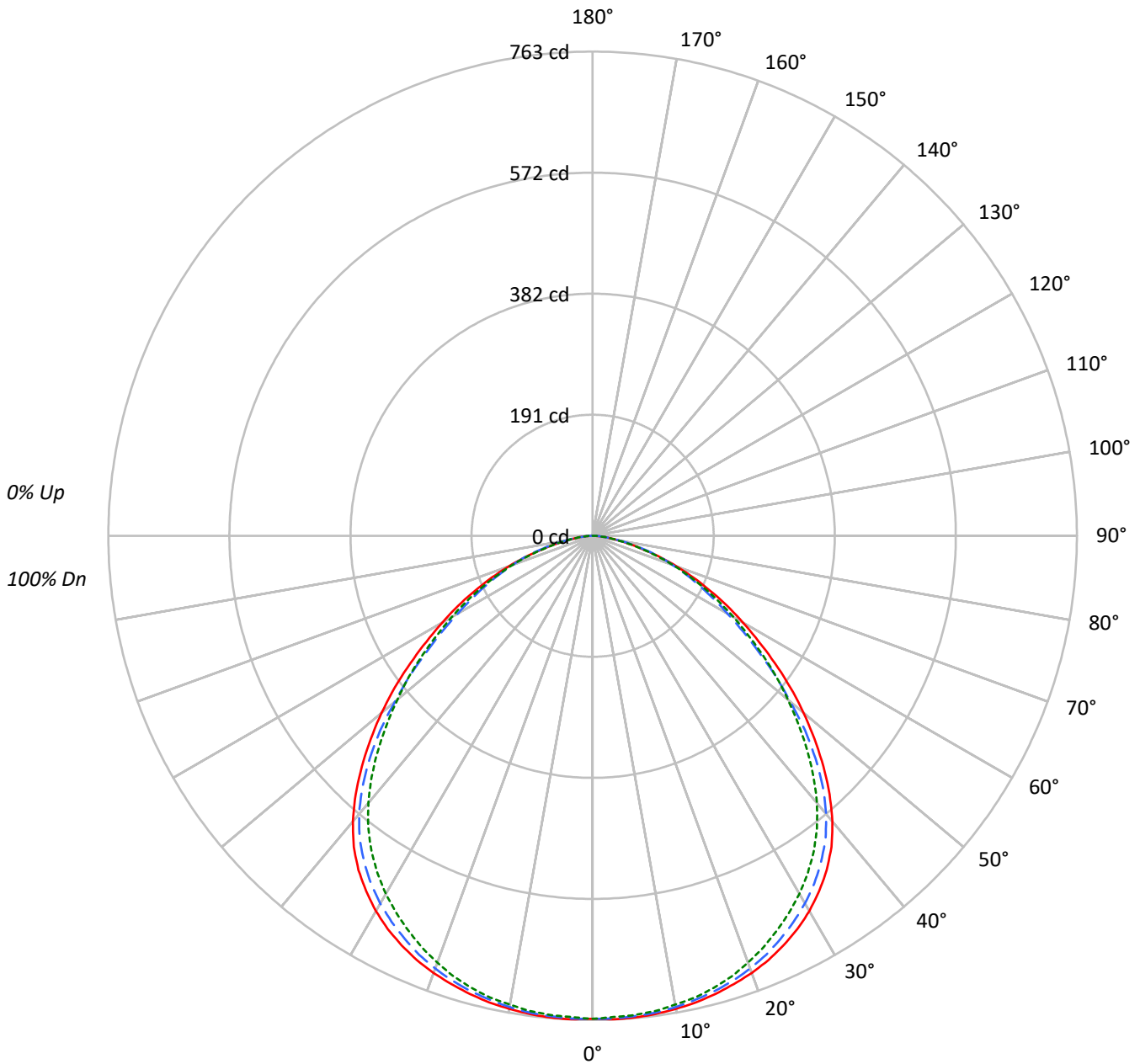
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1967.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.4  
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  |     |    |    | 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 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |    | 86  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 88  | 83  | 79  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |    | 73  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 62  |    |    |    | 62  |
| 4   | 85  | 73  | 65  | 59  | 83  | 72  | 64  | 58  | 70  | 63  | 58  | 67  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |    | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 53  | 49  | 47  |    |    |    | 47  |
| 6   | 72  | 60  | 51  | 45  | 70  | 59  | 50  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 41  |    |    |    | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    | 37  |
| 8   | 63  | 49  | 41  | 36  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |    | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2048 | 2048 | 2048 |
| 5°  | 2059 | 2053 | 2048 |
| 10° | 2069 | 2061 | 2050 |
| 15° | 2083 | 2070 | 2055 |
| 20° | 2099 | 2078 | 2050 |
| 25° | 2115 | 2080 | 2039 |
| 30° | 2122 | 2079 | 2024 |
| 35° | 2113 | 2061 | 1995 |
| 40° | 2064 | 2011 | 1931 |
| 45° | 1957 | 1890 | 1821 |
| 50° | 1816 | 1701 | 1681 |
| 55° | 1644 | 1499 | 1532 |
| 60° | 1471 | 1320 | 1378 |
| 65° | 1298 | 1184 | 1224 |
| 70° | 1105 | 1049 | 1057 |
| 75° | 848  | 894  | 824  |
| 80° | 621  | 654  | 617  |
| 85° | 417  | 457  | 448  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.3   | 3.7       |
| 10°-20°   | 209.7  | 10.7      |
| 20°-30°   | 322.5  | 16.4      |
| 30°-40°   | 390.2  | 19.8      |
| 40°-50°   | 381.0  | 19.4      |
| 50°-60°   | 294.4  | 15.0      |
| 60°-70°   | 189.1  | 9.6       |
| 70°-80°   | 89.2   | 4.5       |
| 80°-90°   | 18.7   | 1.0       |
| 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°    | 604.5  | 30.7      |
| 0°-40°    | 994.7  | 50.6      |
| 0°-60°    | 1670.0 | 84.9      |
| 0°-90°    | 1967.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1967.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 761 | 761   | 761 | 761   | 761 |      |
| 5°  | 762 | 759   | 760 | 760   | 758 | 73   |
| 15° | 748 | 744   | 743 | 740   | 738 | 211  |
| 25° | 712 | 706   | 701 | 692   | 687 | 328  |
| 35° | 643 | 636   | 628 | 613   | 607 | 401  |
| 45° | 514 | 508   | 497 | 484   | 478 | 396  |
| 55° | 350 | 334   | 320 | 320   | 327 | 314  |
| 65° | 204 | 192   | 186 | 184   | 192 | 203  |
| 75° | 82  | 83    | 86  | 79    | 79  | 90   |
| 85° | 14  | 16    | 15  | 14    | 14  | 17   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 761.1 | 761.1 | 761.1 | 761.1 | 761.1 |
| 2.5°  | 762.8 | 759.8 | 761.5 | 761.5 | 759.1 |
| 5°    | 762.2 | 758.8 | 760.1 | 759.5 | 758.1 |
| 7.5°  | 760.1 | 756.8 | 757.8 | 757.1 | 755.4 |
| 10°   | 757.1 | 753.4 | 754.1 | 752.7 | 750.3 |
| 12.5° | 753.0 | 749.7 | 749.0 | 747.0 | 745.3 |
| 15°   | 747.6 | 743.9 | 742.9 | 740.2 | 737.5 |
| 17.5° | 740.6 | 736.8 | 735.2 | 731.1 | 728.1 |
| 20°   | 733.1 | 728.8 | 725.7 | 719.6 | 715.9 |
| 22.5° | 723.7 | 718.6 | 714.6 | 706.1 | 702.4 |
| 25°   | 712.2 | 706.5 | 700.7 | 691.6 | 686.6 |
| 27.5° | 698.7 | 692.7 | 685.9 | 675.8 | 670.0 |
| 30°   | 682.9 | 676.8 | 669.0 | 657.6 | 651.5 |
| 32.5° | 664.0 | 657.9 | 649.8 | 636.6 | 630.6 |
| 35°   | 643.1 | 636.3 | 627.5 | 613.4 | 607.3 |
| 37.5° | 618.1 | 610.7 | 602.6 | 587.1 | 580.6 |
| 40°   | 587.7 | 581.3 | 572.5 | 557.0 | 549.6 |
| 42.5° | 552.6 | 546.9 | 537.1 | 522.3 | 515.2 |
| 45°   | 514.2 | 507.8 | 496.6 | 483.8 | 478.4 |
| 47.5° | 474.0 | 464.6 | 453.8 | 442.6 | 439.6 |
| 50°   | 433.9 | 421.7 | 406.2 | 400.5 | 401.5 |
| 52.5° | 392.7 | 377.2 | 363.7 | 359.3 | 364.4 |
| 55°   | 350.5 | 333.7 | 319.5 | 319.8 | 326.6 |
| 57.5° | 310.4 | 292.9 | 281.0 | 281.0 | 289.8 |
| 60°   | 273.3 | 257.1 | 245.3 | 244.9 | 256.1 |
| 62.5° | 238.9 | 222.3 | 213.6 | 213.6 | 223.7 |
| 65°   | 203.8 | 191.6 | 185.9 | 183.9 | 192.3 |
| 67.5° | 171.4 | 163.0 | 158.9 | 156.5 | 161.9 |
| 70°   | 140.4 | 135.0 | 133.3 | 130.6 | 134.3 |
| 72.5° | 109.7 | 108.3 | 111.7 | 105.3 | 107.0 |
| 75°   | 81.6  | 83.0  | 86.0  | 78.9  | 79.3  |
| 77.5° | 58.7  | 61.4  | 62.4  | 59.0  | 59.0  |
| 80°   | 40.1  | 43.5  | 42.2  | 40.5  | 39.8  |
| 82.5° | 25.6  | 27.3  | 27.3  | 26.3  | 25.6  |
| 85°   | 13.5  | 15.5  | 14.8  | 14.5  | 14.5  |
| 87.5° | 5.1   | 7.1   | 7.1   | 6.7   | 6.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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







(END OF REPORT)