

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: P412279

Luminaire Tested: **14PD-20-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-20-PB1-L940  
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

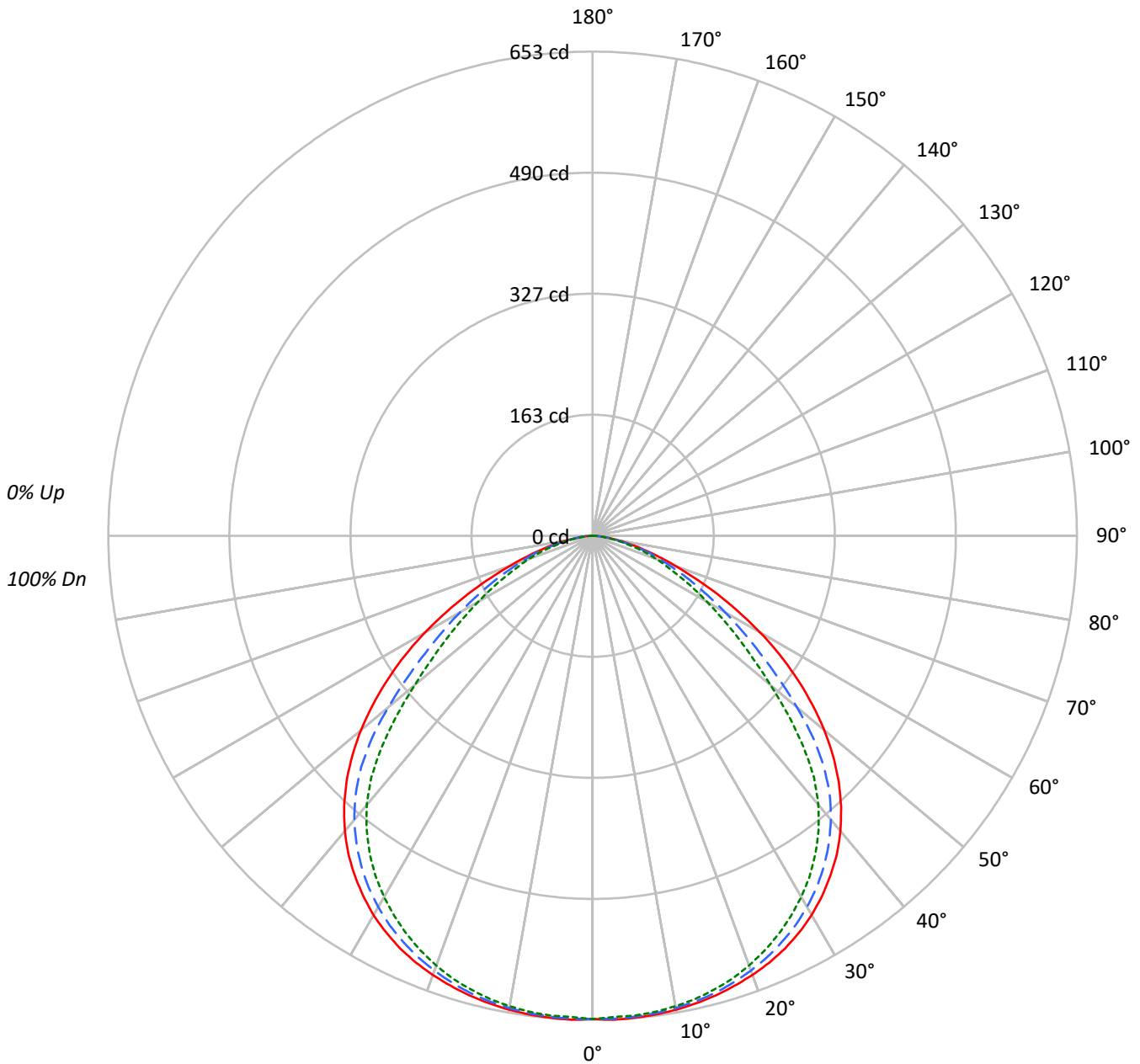
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1680.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38  
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 |  |  |  |  |   |
| 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 |    |    |    |  |  |  |  |   |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |    |  |  |  |  |   |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |    |  |  |  |  |   |
| 3   | 93  | 83  | 75  | 69  | 90  | 81  | 74  | 69  | 78  | 72  | 67  | 76  | 71  | 66  | 73  | 69  | 65  | 63  |    |    |    |  |  |  |  |   |
| 4   | 85  | 74  | 66  | 59  | 83  | 73  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 55  |    |    |    |  |  |  |  |   |
| 5   | 78  | 66  | 58  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |    |  |  |  |  |   |
| 6   | 73  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 7   | 67  | 54  | 46  | 40  | 66  | 54  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 39  | 49  | 44  | 39  | 37  |    |    |    |  |  |  |  |   |
| 8   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 36  | 47  | 40  | 35  | 45  | 40  | 35  | 33  |    |    |    |  |  |  |  |   |
| 9   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    |  |  |  |  |   |
| 10  | 55  | 42  | 34  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1754 | 1754 | 1754 |
| 5°  | 1763 | 1759 | 1754 |
| 10° | 1773 | 1767 | 1760 |
| 15° | 1788 | 1779 | 1765 |
| 20° | 1805 | 1787 | 1766 |
| 25° | 1823 | 1795 | 1760 |
| 30° | 1835 | 1796 | 1748 |
| 35° | 1837 | 1787 | 1721 |
| 40° | 1826 | 1756 | 1664 |
| 45° | 1786 | 1679 | 1528 |
| 50° | 1707 | 1504 | 1310 |
| 55° | 1581 | 1290 | 1118 |
| 60° | 1404 | 1107 | 956  |
| 65° | 1179 | 944  | 818  |
| 70° | 935  | 803  | 721  |
| 75° | 730  | 655  | 574  |
| 80° | 544  | 488  | 440  |
| 85° | 361  | 318  | 293  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.0   | 3.7       |
| 10°-20°   | 180.1  | 10.7      |
| 20°-30°   | 278.1  | 16.6      |
| 30°-40°   | 338.5  | 20.1      |
| 40°-50°   | 335.0  | 19.9      |
| 50°-60°   | 252.4  | 15.0      |
| 60°-70°   | 151.6  | 9.0       |
| 70°-80°   | 68.3   | 4.1       |
| 80°-90°   | 14.0   | 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°    | 520.2  | 31.0      |
| 0°-40°    | 858.7  | 51.1      |
| 0°-60°    | 1446.0 | 86.1      |
| 0°-90°    | 1680.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1680.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 652 | 652   | 652 | 652   | 652 |      |
| 5°  | 653 | 650   | 651 | 651   | 650 | 62   |
| 15° | 642 | 639   | 638 | 636   | 634 | 181  |
| 25° | 614 | 609   | 604 | 596   | 593 | 283  |
| 35° | 559 | 553   | 544 | 530   | 524 | 350  |
| 45° | 469 | 461   | 441 | 414   | 401 | 361  |
| 55° | 337 | 313   | 275 | 248   | 238 | 300  |
| 65° | 185 | 168   | 148 | 133   | 128 | 184  |
| 75° | 70  | 67    | 63  | 57    | 55  | 77   |
| 85° | 12  | 12    | 10  | 10    | 10  | 15   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 651.7 | 651.7 | 651.7 | 651.7 | 651.7 |
| 2.5°  | 653.4 | 650.6 | 652.0 | 651.7 | 649.5 |
| 5°    | 652.6 | 650.1 | 651.2 | 650.6 | 649.5 |
| 7.5°  | 651.2 | 648.7 | 649.5 | 648.7 | 647.6 |
| 10°   | 649.0 | 646.2 | 646.7 | 645.1 | 644.2 |
| 12.5° | 645.9 | 642.5 | 643.1 | 640.9 | 639.8 |
| 15°   | 641.7 | 638.6 | 638.4 | 635.9 | 633.6 |
| 17.5° | 636.4 | 633.3 | 631.7 | 628.9 | 626.4 |
| 20°   | 630.3 | 626.4 | 624.1 | 619.1 | 616.6 |
| 22.5° | 623.0 | 618.8 | 615.2 | 608.3 | 605.7 |
| 25°   | 614.1 | 609.4 | 604.4 | 596.3 | 592.9 |
| 27.5° | 603.2 | 598.2 | 592.4 | 583.4 | 578.4 |
| 30°   | 590.7 | 585.4 | 578.1 | 567.8 | 562.5 |
| 32.5° | 575.9 | 570.1 | 562.3 | 550.0 | 544.4 |
| 35°   | 559.2 | 553.1 | 543.9 | 530.5 | 523.8 |
| 37.5° | 541.1 | 534.1 | 523.2 | 507.1 | 500.4 |
| 40°   | 519.9 | 512.9 | 499.8 | 481.1 | 473.6 |
| 42.5° | 495.9 | 488.9 | 473.1 | 450.8 | 441.6 |
| 45°   | 469.4 | 461.3 | 441.3 | 414.2 | 401.4 |
| 47.5° | 439.9 | 429.6 | 403.4 | 370.2 | 357.4 |
| 50°   | 407.8 | 394.2 | 359.3 | 325.3 | 312.8 |
| 52.5° | 373.0 | 355.7 | 315.6 | 285.2 | 273.2 |
| 55°   | 337.0 | 313.3 | 274.9 | 248.1 | 238.3 |
| 57.5° | 299.7 | 271.2 | 239.2 | 215.8 | 206.6 |
| 60°   | 260.9 | 233.3 | 205.7 | 184.3 | 177.6 |
| 62.5° | 221.3 | 198.8 | 175.9 | 156.1 | 152.5 |
| 65°   | 185.1 | 167.8 | 148.3 | 132.7 | 128.5 |
| 67.5° | 148.6 | 138.8 | 123.8 | 113.2 | 108.4 |
| 70°   | 118.8 | 112.3 | 102.0 | 93.4  | 91.7  |
| 72.5° | 92.8  | 88.6  | 84.7  | 77.2  | 74.2  |
| 75°   | 70.2  | 66.6  | 63.0  | 57.1  | 55.2  |
| 77.5° | 50.7  | 49.3  | 46.3  | 42.4  | 41.5  |
| 80°   | 35.1  | 35.1  | 31.5  | 29.3  | 28.4  |
| 82.5° | 21.7  | 23.7  | 19.8  | 18.4  | 17.6  |
| 85°   | 11.7  | 12.0  | 10.3  | 9.8   | 9.5   |
| 87.5° | 4.5   | 5.0   | 4.7   | 3.9   | 3.9   |
| 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)