

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: P412328

Luminaire Tested: **14PD-50-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412328  
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-50-PB1-L840  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

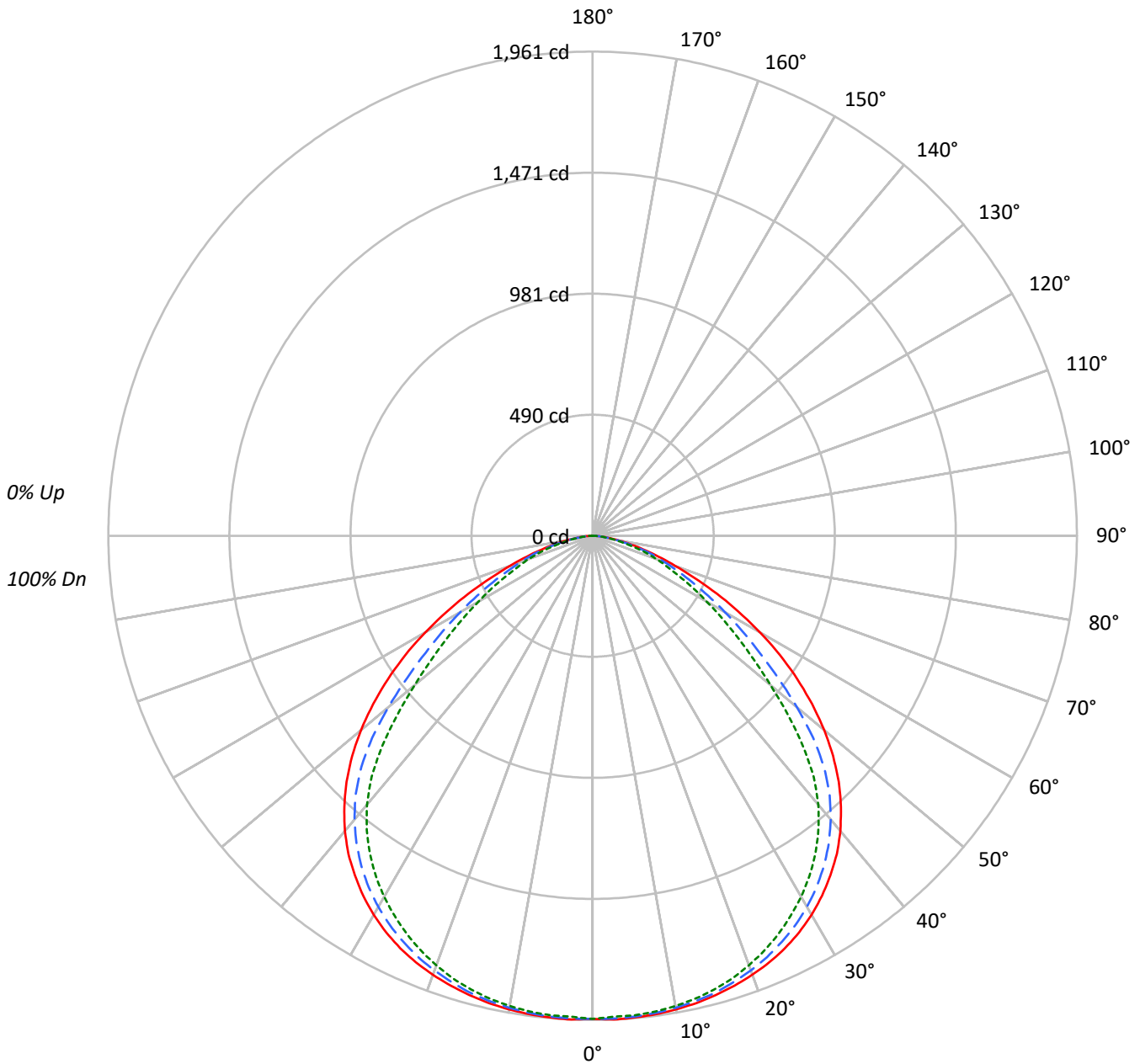
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5043.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 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): 48.6  
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  |     |     |     | 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 | 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°  | 5265 | 5265 | 5265 |
| 5°  | 5291 | 5280 | 5267 |
| 10° | 5323 | 5305 | 5284 |
| 15° | 5366 | 5338 | 5299 |
| 20° | 5418 | 5365 | 5301 |
| 25° | 5473 | 5386 | 5285 |
| 30° | 5510 | 5393 | 5247 |
| 35° | 5514 | 5363 | 5165 |
| 40° | 5482 | 5270 | 4994 |
| 45° | 5362 | 5041 | 4586 |
| 50° | 5125 | 4515 | 3931 |
| 55° | 4746 | 3871 | 3356 |
| 60° | 4215 | 3323 | 2869 |
| 65° | 3538 | 2835 | 2457 |
| 70° | 2805 | 2410 | 2166 |
| 75° | 2193 | 1966 | 1723 |
| 80° | 1633 | 1466 | 1323 |
| 85° | 1084 | 957  | 880  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 186.0  | 3.7       |
| 10°-20°   | 540.6  | 10.7      |
| 20°-30°   | 834.9  | 16.6      |
| 30°-40°   | 1016.1 | 20.1      |
| 40°-50°   | 1005.5 | 19.9      |
| 50°-60°   | 757.5  | 15.0      |
| 60°-70°   | 455.2  | 9.0       |
| 70°-80°   | 205.2  | 4.1       |
| 80°-90°   | 42.0   | 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°    | 1561.5 | 31.0      |
| 0°-40°    | 2577.6 | 51.1      |
| 0°-60°    | 4340.6 | 86.1      |
| 0°-90°    | 5043.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5043.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1956 | 1956  | 1956 | 1956  | 1956 |      |
| 5°  | 1959 | 1951  | 1955 | 1953  | 1950 | 187  |
| 15° | 1926 | 1917  | 1916 | 1909  | 1902 | 545  |
| 25° | 1843 | 1829  | 1814 | 1790  | 1780 | 850  |
| 35° | 1679 | 1660  | 1633 | 1592  | 1572 | 1049 |
| 45° | 1409 | 1385  | 1325 | 1244  | 1205 | 1083 |
| 55° | 1012 | 940   | 825  | 745   | 715  | 901  |
| 65° | 556  | 504   | 445  | 398   | 386  | 552  |
| 75° | 211  | 200   | 189  | 172   | 166  | 230  |
| 85° | 35   | 36    | 31   | 29    | 28   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1956.4 | 1956.4 | 1956.4 | 1956.4 | 1956.4 |
| 2.5°  | 1961.4 | 1953.0 | 1957.2 | 1956.4 | 1949.7 |
| 5°    | 1958.9 | 1951.4 | 1954.7 | 1953.0 | 1949.7 |
| 7.5°  | 1954.7 | 1947.2 | 1949.7 | 1947.2 | 1943.8 |
| 10°   | 1948.0 | 1939.7 | 1941.3 | 1936.3 | 1933.8 |
| 12.5° | 1938.8 | 1928.8 | 1930.4 | 1923.8 | 1920.4 |
| 15°   | 1926.3 | 1917.1 | 1916.2 | 1908.7 | 1902.0 |
| 17.5° | 1910.4 | 1901.2 | 1896.1 | 1887.8 | 1880.2 |
| 20°   | 1892.0 | 1880.2 | 1873.5 | 1858.5 | 1851.0 |
| 22.5° | 1870.2 | 1857.6 | 1846.8 | 1825.8 | 1818.3 |
| 25°   | 1843.4 | 1829.2 | 1814.1 | 1789.9 | 1779.8 |
| 27.5° | 1810.8 | 1795.7 | 1778.2 | 1751.4 | 1736.3 |
| 30°   | 1773.1 | 1757.2 | 1735.5 | 1704.5 | 1688.6 |
| 32.5° | 1728.8 | 1711.2 | 1687.8 | 1651.0 | 1634.2 |
| 35°   | 1678.6 | 1660.2 | 1632.6 | 1592.4 | 1572.3 |
| 37.5° | 1624.2 | 1603.3 | 1570.6 | 1522.1 | 1502.0 |
| 40°   | 1560.6 | 1539.7 | 1500.3 | 1444.3 | 1421.7 |
| 42.5° | 1488.6 | 1467.7 | 1420.0 | 1353.1 | 1325.5 |
| 45°   | 1409.1 | 1384.9 | 1324.6 | 1243.5 | 1205.0 |
| 47.5° | 1320.4 | 1289.5 | 1210.8 | 1111.2 | 1072.7 |
| 50°   | 1224.2 | 1183.2 | 1078.6 | 976.5  | 938.9  |
| 52.5° | 1119.6 | 1067.7 | 947.2  | 856.0  | 820.0  |
| 55°   | 1011.7 | 940.5  | 825.1  | 744.7  | 715.4  |
| 57.5° | 899.5  | 814.2  | 718.0  | 647.7  | 620.1  |
| 60°   | 783.2  | 700.4  | 617.5  | 553.1  | 533.0  |
| 62.5° | 664.4  | 596.6  | 528.0  | 468.6  | 457.7  |
| 65°   | 555.6  | 503.7  | 445.2  | 398.3  | 385.8  |
| 67.5° | 446.0  | 416.7  | 371.5  | 339.7  | 325.5  |
| 70°   | 356.5  | 337.2  | 306.3  | 280.3  | 275.3  |
| 72.5° | 278.6  | 266.1  | 254.4  | 231.8  | 222.6  |
| 75°   | 210.9  | 200.0  | 189.1  | 171.5  | 165.7  |
| 77.5° | 152.3  | 148.1  | 138.9  | 127.2  | 124.7  |
| 80°   | 105.4  | 105.4  | 94.6   | 87.9   | 85.4   |
| 82.5° | 65.3   | 71.1   | 59.4   | 55.2   | 52.7   |
| 85°   | 35.1   | 36.0   | 31.0   | 29.3   | 28.5   |
| 87.5° | 13.4   | 15.1   | 14.2   | 11.7   | 11.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)