

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: PORTFOLIO

Report Number: P857503

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30D010 EU4309027 4LBMDDWLI  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

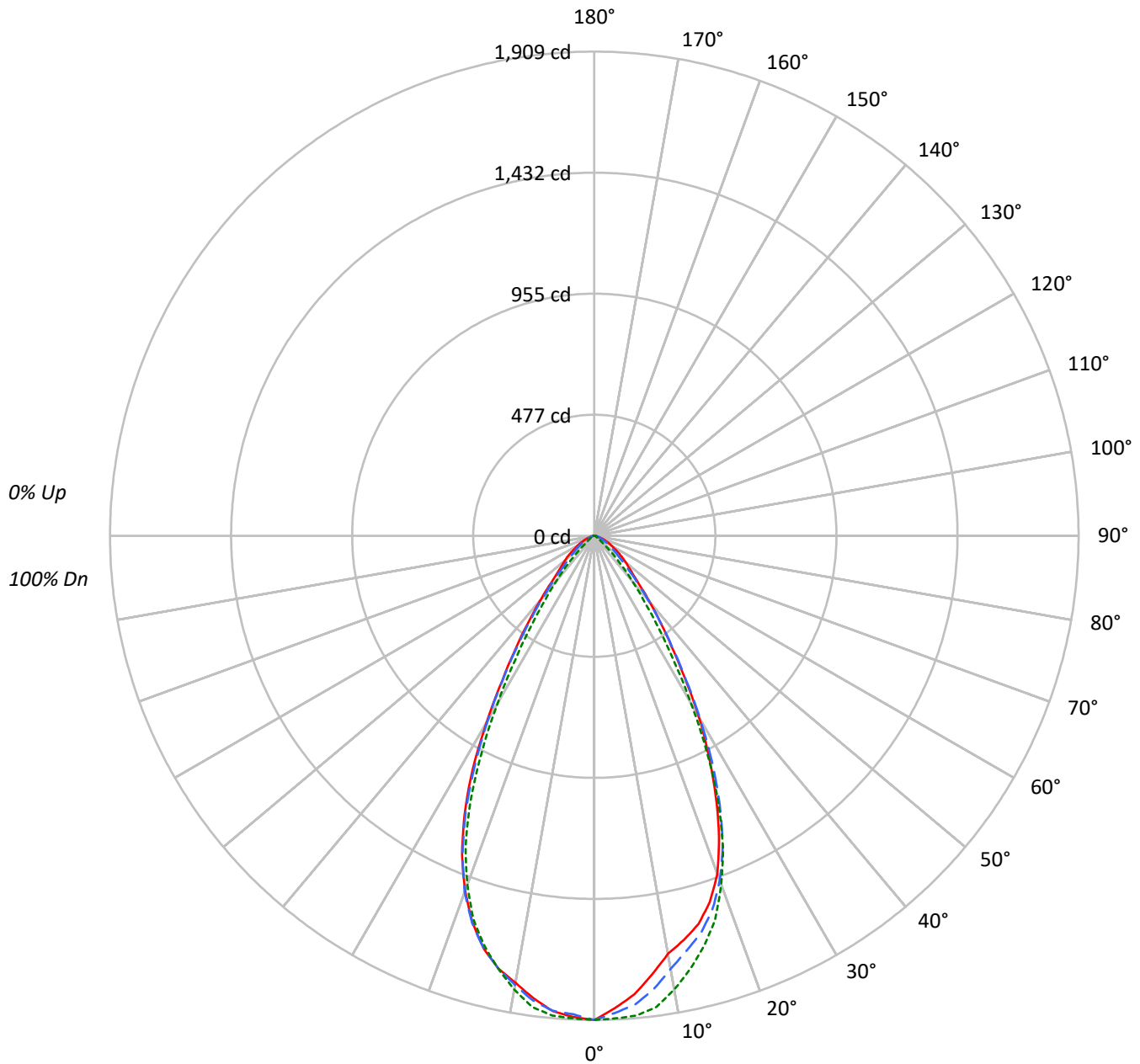
Lumens per Lamp: N/A  
Luminaire Lumens: 1738.0 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
Input Voltage (V): NR  
Input Current (Ain): 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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 92  |    |    |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |    |    |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 85  | 83  | 80  | 78  |    |    |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    |
| 5   | 91  | 82  | 75  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 69  | 67  |    |    |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |    |    |
| 7   | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 58  |    |    |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |    |    |
| 9   | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |    |    |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 50  | 57  | 53  | 49  | 48  |    |    |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 234552 | 234552 | 234552 |
| 5°  | 223806 | 234165 | 231995 |
| 10° | 208742 | 226581 | 223275 |
| 15° | 201566 | 212822 | 214323 |
| 20° | 185413 | 191204 | 194669 |
| 25° | 153677 | 156470 | 164074 |
| 30° | 116906 | 108125 | 120254 |
| 35° | 79158  | 64790  | 80042  |
| 40° | 53902  | 37127  | 52250  |
| 45° | 37389  | 18695  | 35339  |
| 50° | 30427  | 7607   | 28459  |
| 55° | 24632  | 4734   | 22426  |
| 60° | 19558  | 3612   | 17740  |
| 65° | 15436  | 2994   | 13721  |
| 70° | 11638  | 2658   | 10596  |
| 75° | 8402   | 2089   | 7690   |
| 80° | 6226   | 2052   | 5235   |
| 85° | 4088   | 2114   | 4088   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.5  | 10.1      |
| 10°-20°   | 461.2  | 26.5      |
| 20°-30°   | 529.2  | 30.4      |
| 30°-40°   | 321.5  | 18.5      |
| 40°-50°   | 137.8  | 7.9       |
| 50°-60°   | 66.1   | 3.8       |
| 60°-70°   | 32.1   | 1.8       |
| 70°-80°   | 11.9   | 0.7       |
| 80°-90°   | 2.7    | 0.2       |
| 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°    | 1165.9 | 67.1      |
| 0°-40°    | 1487.3 | 85.6      |
| 0°-60°    | 1691.2 | 97.3      |
| 0°-90°    | 1738.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1738.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1909 | 1909 | 1909 | 1909 | 1909 |      |
| 5°  | 1815 | 1855 | 1899 | 1880 | 1881 | 169  |
| 15° | 1585 | 1622 | 1673 | 1684 | 1685 | 441  |
| 25° | 1134 | 1171 | 1154 | 1199 | 1210 | 514  |
| 35° | 528  | 535  | 432  | 522  | 534  | 338  |
| 45° | 215  | 192  | 108  | 172  | 203  | 175  |
| 55° | 115  | 86   | 22   | 77   | 105  | 104  |
| 65° | 53   | 35   | 10   | 32   | 47   | 54   |
| 75° | 18   | 12   | 4    | 10   | 16   | 19   |
| 85° | 3    | 3    | 2    | 2    | 3    | 4    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 | 1909.2 |
| 2.5°  | 1863.5 | 1884.1 | 1882.6 | 1900.3 | 1904.7 | 1900.3 | 1888.5 | 1900.3 | 1898.8 |
| 5°    | 1814.8 | 1838.4 | 1854.6 | 1884.1 | 1898.8 | 1895.9 | 1879.7 | 1882.6 | 1881.2 |
| 7.5°  | 1744.1 | 1773.5 | 1801.5 | 1845.8 | 1873.8 | 1872.3 | 1848.7 | 1844.3 | 1838.4 |
| 10°   | 1673.3 | 1701.3 | 1733.7 | 1779.4 | 1816.3 | 1822.2 | 1798.6 | 1792.7 | 1789.8 |
| 12.5° | 1632.0 | 1654.1 | 1676.2 | 1716.0 | 1748.5 | 1760.3 | 1747.0 | 1748.5 | 1747.0 |
| 15°   | 1584.8 | 1606.9 | 1621.7 | 1651.2 | 1673.3 | 1689.5 | 1683.6 | 1692.5 | 1685.1 |
| 17.5° | 1514.1 | 1540.6 | 1546.5 | 1568.6 | 1584.8 | 1595.2 | 1601.0 | 1609.9 | 1598.1 |
| 20°   | 1418.2 | 1438.9 | 1446.2 | 1455.1 | 1462.5 | 1475.7 | 1493.4 | 1502.3 | 1489.0 |
| 22.5° | 1284.1 | 1323.9 | 1322.4 | 1318.0 | 1325.4 | 1329.8 | 1357.8 | 1372.5 | 1362.2 |
| 25°   | 1133.7 | 1175.0 | 1170.6 | 1152.9 | 1154.3 | 1163.2 | 1198.6 | 1217.7 | 1210.4 |
| 27.5° | 976.0  | 1014.3 | 1004.0 | 970.1  | 961.2  | 974.5  | 1020.2 | 1042.3 | 1037.9 |
| 30°   | 824.1  | 849.2  | 833.0  | 772.5  | 762.2  | 778.4  | 837.4  | 859.5  | 847.7  |
| 32.5° | 660.5  | 679.6  | 672.3  | 598.5  | 580.9  | 597.1  | 666.4  | 687.0  | 673.7  |
| 35°   | 527.8  | 545.5  | 535.2  | 448.2  | 432.0  | 449.6  | 521.9  | 545.5  | 533.7  |
| 37.5° | 423.1  | 436.4  | 423.1  | 330.2  | 315.5  | 333.2  | 402.5  | 433.4  | 418.7  |
| 40°   | 336.1  | 346.5  | 328.8  | 243.3  | 231.5  | 240.3  | 305.2  | 336.1  | 325.8  |
| 42.5° | 265.4  | 272.7  | 253.6  | 178.4  | 165.1  | 176.9  | 230.0  | 258.0  | 252.1  |
| 45°   | 215.2  | 215.2  | 191.7  | 123.8  | 107.6  | 119.4  | 172.5  | 202.0  | 203.4  |
| 47.5° | 184.3  | 179.9  | 150.4  | 82.6   | 61.9   | 78.1   | 137.1  | 168.1  | 172.5  |
| 50°   | 159.2  | 153.3  | 123.8  | 60.4   | 39.8   | 56.0   | 113.5  | 144.5  | 148.9  |
| 52.5° | 137.1  | 132.7  | 103.2  | 47.2   | 28.0   | 42.8   | 95.8   | 125.3  | 129.7  |
| 55°   | 115.0  | 112.0  | 85.5   | 36.9   | 22.1   | 32.4   | 76.7   | 101.7  | 104.7  |
| 57.5° | 94.4   | 89.9   | 69.3   | 31.0   | 17.7   | 26.5   | 63.4   | 84.0   | 87.0   |
| 60°   | 79.6   | 75.2   | 56.0   | 25.1   | 14.7   | 20.6   | 51.6   | 69.3   | 72.2   |
| 62.5° | 66.3   | 61.9   | 45.7   | 20.6   | 11.8   | 17.7   | 41.3   | 56.0   | 59.0   |
| 65°   | 53.1   | 50.1   | 35.4   | 16.2   | 10.3   | 13.3   | 32.4   | 44.2   | 47.2   |
| 67.5° | 42.8   | 39.8   | 28.0   | 13.3   | 8.8    | 10.3   | 25.1   | 35.4   | 38.3   |
| 70°   | 32.4   | 29.5   | 20.6   | 10.3   | 7.4    | 8.8    | 19.2   | 26.5   | 29.5   |
| 72.5° | 23.6   | 22.1   | 16.2   | 8.8    | 5.9    | 7.4    | 13.3   | 19.2   | 22.1   |
| 75°   | 17.7   | 16.2   | 11.8   | 5.9    | 4.4    | 5.9    | 10.3   | 14.7   | 16.2   |
| 77.5° | 11.8   | 11.8   | 8.8    | 4.4    | 4.4    | 4.4    | 7.4    | 10.3   | 10.3   |
| 80°   | 8.8    | 7.4    | 5.9    | 2.9    | 2.9    | 2.9    | 4.4    | 7.4    | 7.4    |
| 82.5° | 5.9    | 4.4    | 4.4    | 2.9    | 2.9    | 2.9    | 2.9    | 4.4    | 4.4    |
| 85°   | 2.9    | 2.9    | 2.9    | 1.5    | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    |
| 87.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)