

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: P859119

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859119  
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: LD4C55D010 EU4559040 4LBMDDWLI  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

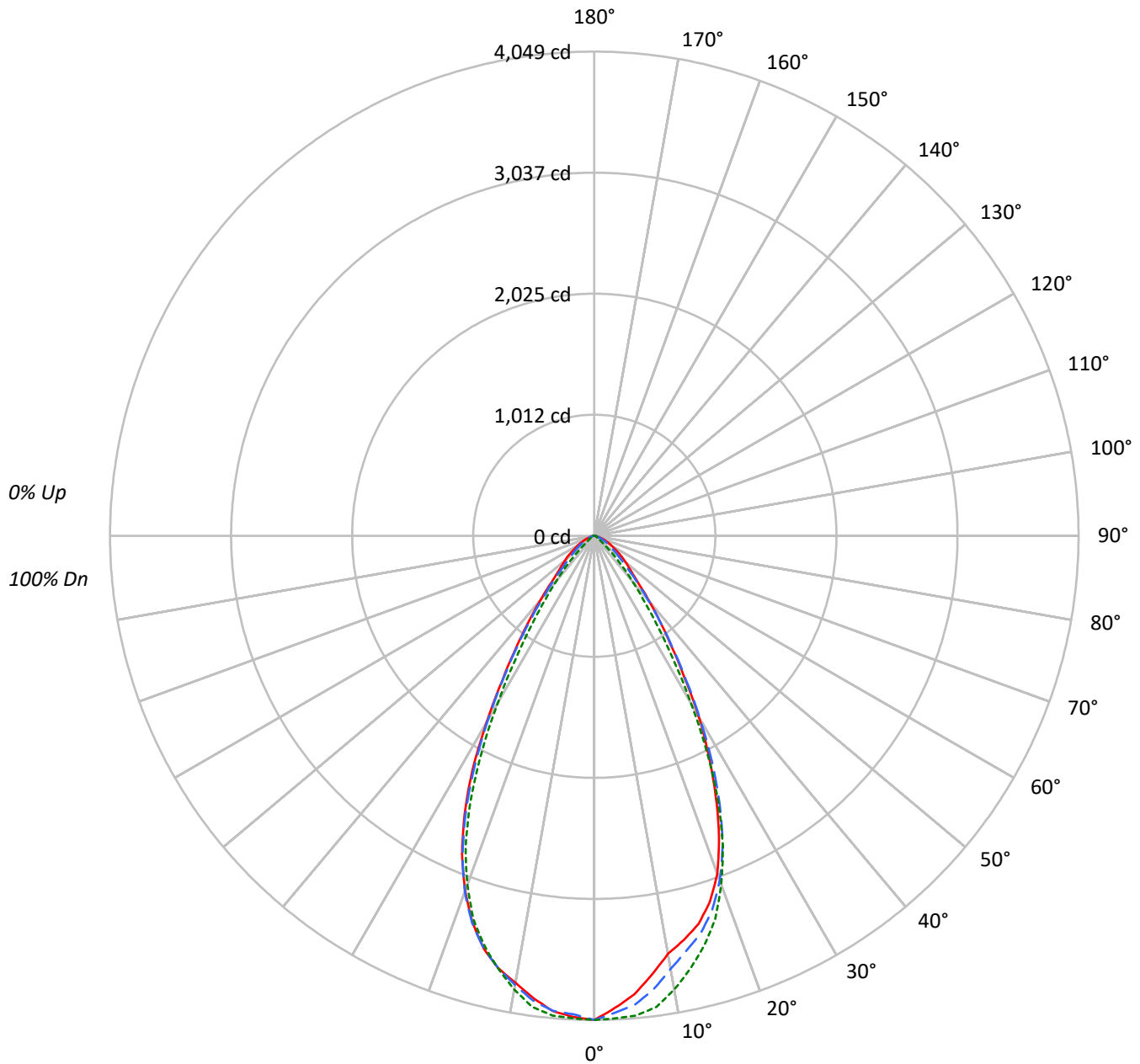
Lumens per Lamp: N/A  
Luminaire Lumens: 3686.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 |  | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 95  | 94  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  |  | 97  | 93  | 91  |  | 94  | 91  | 89  |  | 91  | 89  | 87  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  |  | 90  | 86  | 83  |  | 88  | 84  | 81  |  | 85  | 83  | 80  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  |  | 84  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 77  | 74  |
| 5   | 91  | 82  | 75  | 71  | 89  | 81  | 75  | 71  |  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 76  | 72  | 69  |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  |  | 74  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 64  |
| 7   | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  |  | 70  | 64  | 60  |  | 68  | 64  | 60  |  | 67  | 63  | 60  |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 56  |
| 9   | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  |  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  | 56  | 53  |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  |  | 59  | 53  | 50  |  | 58  | 53  | 50  |  | 57  | 53  | 49  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 497434 | 497434 | 497434 |
| 5°  | 474657 | 496633 | 492008 |
| 10° | 442708 | 480532 | 473521 |
| 15° | 427502 | 451362 | 454542 |
| 20° | 393234 | 405497 | 412857 |
| 25° | 325926 | 331863 | 347967 |
| 30° | 247941 | 229315 | 255034 |
| 35° | 167869 | 137393 | 169743 |
| 40° | 114330 | 78728  | 110818 |
| 45° | 79313  | 39648  | 74969  |
| 50° | 64543  | 16131  | 60358  |
| 55° | 52241  | 10045  | 47550  |
| 60° | 41475  | 7691   | 37642  |
| 65° | 32732  | 6366   | 29099  |
| 70° | 24713  | 5604   | 22450  |
| 75° | 17800  | 4462   | 16329  |
| 80° | 13301  | 4457   | 11037  |
| 85° | 8880   | 4370   | 8880   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 372.3  | 10.1      |
| 10°-20°   | 978.1  | 26.5      |
| 20°-30°   | 1122.2 | 30.4      |
| 30°-40°   | 681.7  | 18.5      |
| 40°-50°   | 292.2  | 7.9       |
| 50°-60°   | 140.2  | 3.8       |
| 60°-70°   | 68.2   | 1.8       |
| 70°-80°   | 25.3   | 0.7       |
| 80°-90°   | 5.8    | 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°    | 2472.6 | 67.1      |
| 0°-40°    | 3154.4 | 85.6      |
| 0°-60°    | 3586.7 | 97.3      |
| 0°-90°    | 3686.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3686.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4049 | 4049 | 4049 | 4049 | 4049 |      |
| 5°  | 3849 | 3933 | 4027 | 3986 | 3990 | 358  |
| 15° | 3361 | 3439 | 3549 | 3571 | 3574 | 936  |
| 25° | 2404 | 2483 | 2448 | 2542 | 2567 | 1091 |
| 35° | 1119 | 1135 | 916  | 1107 | 1132 | 717  |
| 45° | 456  | 406  | 228  | 366  | 432  | 371  |
| 55° | 244  | 181  | 47   | 163  | 222  | 220  |
| 65° | 113  | 75   | 22   | 69   | 100  | 114  |
| 75° | 38   | 25   | 9    | 22   | 34   | 41   |
| 85° | 6    | 6    | 3    | 3    | 6    | 9    |
| 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°    | 4049.0 | 4049.0 | 4049.0 | 4049.0 | 4049.0 | 4049.0 | 4049.0 | 4049.0 | 4049.0 |
| 2.5°  | 3952.1 | 3995.9 | 3992.7 | 4030.3 | 4039.6 | 4030.3 | 4005.2 | 4030.3 | 4027.1 |
| 5°    | 3848.9 | 3898.9 | 3933.3 | 3995.9 | 4027.1 | 4020.9 | 3986.5 | 3992.7 | 3989.6 |
| 7.5°  | 3698.8 | 3761.4 | 3820.8 | 3914.6 | 3974.0 | 3970.9 | 3920.8 | 3911.4 | 3898.9 |
| 10°   | 3548.8 | 3608.2 | 3676.9 | 3773.9 | 3852.0 | 3864.5 | 3814.5 | 3802.0 | 3795.8 |
| 12.5° | 3461.2 | 3508.1 | 3555.0 | 3639.4 | 3708.2 | 3733.2 | 3705.1 | 3708.2 | 3705.1 |
| 15°   | 3361.2 | 3408.1 | 3439.3 | 3501.9 | 3548.8 | 3583.1 | 3570.6 | 3589.4 | 3573.8 |
| 17.5° | 3211.1 | 3267.4 | 3279.9 | 3326.8 | 3361.2 | 3383.0 | 3395.5 | 3414.3 | 3389.3 |
| 20°   | 3007.8 | 3051.6 | 3067.2 | 3086.0 | 3101.6 | 3129.8 | 3167.3 | 3186.1 | 3157.9 |
| 22.5° | 2723.3 | 2807.7 | 2804.6 | 2795.2 | 2810.9 | 2820.2 | 2879.6 | 2910.9 | 2889.0 |
| 25°   | 2404.4 | 2491.9 | 2482.6 | 2445.0 | 2448.2 | 2466.9 | 2542.0 | 2582.6 | 2567.0 |
| 27.5° | 2069.8 | 2151.1 | 2129.3 | 2057.3 | 2038.6 | 2066.7 | 2163.6 | 2210.5 | 2201.2 |
| 30°   | 1747.8 | 1801.0 | 1766.6 | 1638.4 | 1616.5 | 1650.9 | 1775.9 | 1822.8 | 1797.8 |
| 32.5° | 1400.7 | 1441.4 | 1425.8 | 1269.4 | 1231.9 | 1266.3 | 1413.2 | 1457.0 | 1428.9 |
| 35°   | 1119.3 | 1156.9 | 1135.0 | 950.5  | 916.1  | 953.6  | 1106.8 | 1156.9 | 1131.8 |
| 37.5° | 897.3  | 925.5  | 897.3  | 700.4  | 669.1  | 706.6  | 853.6  | 919.2  | 888.0  |
| 40°   | 712.9  | 734.8  | 697.2  | 515.9  | 490.9  | 509.6  | 647.2  | 712.9  | 691.0  |
| 42.5° | 562.8  | 578.4  | 537.8  | 378.3  | 350.2  | 375.2  | 487.8  | 547.2  | 534.7  |
| 45°   | 456.5  | 456.5  | 406.5  | 262.6  | 228.2  | 253.3  | 365.8  | 428.4  | 431.5  |
| 47.5° | 390.8  | 381.5  | 318.9  | 175.1  | 131.3  | 165.7  | 290.8  | 356.4  | 365.8  |
| 50°   | 337.7  | 325.2  | 262.6  | 128.2  | 84.4   | 118.8  | 240.8  | 306.4  | 315.8  |
| 52.5° | 290.8  | 281.4  | 218.9  | 100.1  | 59.4   | 90.7   | 203.2  | 265.8  | 275.1  |
| 55°   | 243.9  | 237.6  | 181.3  | 78.2   | 46.9   | 68.8   | 162.6  | 215.7  | 222.0  |
| 57.5° | 200.1  | 190.7  | 147.0  | 65.7   | 37.5   | 56.3   | 134.4  | 178.2  | 184.5  |
| 60°   | 168.8  | 159.5  | 118.8  | 53.2   | 31.3   | 43.8   | 109.4  | 147.0  | 153.2  |
| 62.5° | 140.7  | 131.3  | 96.9   | 43.8   | 25.0   | 37.5   | 87.5   | 118.8  | 125.1  |
| 65°   | 112.6  | 106.3  | 75.0   | 34.4   | 21.9   | 28.1   | 68.8   | 93.8   | 100.1  |
| 67.5° | 90.7   | 84.4   | 59.4   | 28.1   | 18.8   | 21.9   | 53.2   | 75.0   | 81.3   |
| 70°   | 68.8   | 62.5   | 43.8   | 21.9   | 15.6   | 18.8   | 40.6   | 56.3   | 62.5   |
| 72.5° | 50.0   | 46.9   | 34.4   | 18.8   | 12.5   | 15.6   | 28.1   | 40.6   | 46.9   |
| 75°   | 37.5   | 34.4   | 25.0   | 12.5   | 9.4    | 12.5   | 21.9   | 31.3   | 34.4   |
| 77.5° | 25.0   | 25.0   | 18.8   | 9.4    | 9.4    | 9.4    | 15.6   | 21.9   | 21.9   |
| 80°   | 18.8   | 15.6   | 12.5   | 6.3    | 6.3    | 6.3    | 9.4    | 15.6   | 15.6   |
| 82.5° | 12.5   | 9.4    | 9.4    | 6.3    | 6.3    | 6.3    | 6.3    | 9.4    | 9.4    |
| 85°   | 6.3    | 6.3    | 6.3    | 3.1    | 3.1    | 3.1    | 3.1    | 6.3    | 6.3    |
| 87.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 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)