

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: P859063

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859063  
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 EU4559027 4LBMDSWWMH  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

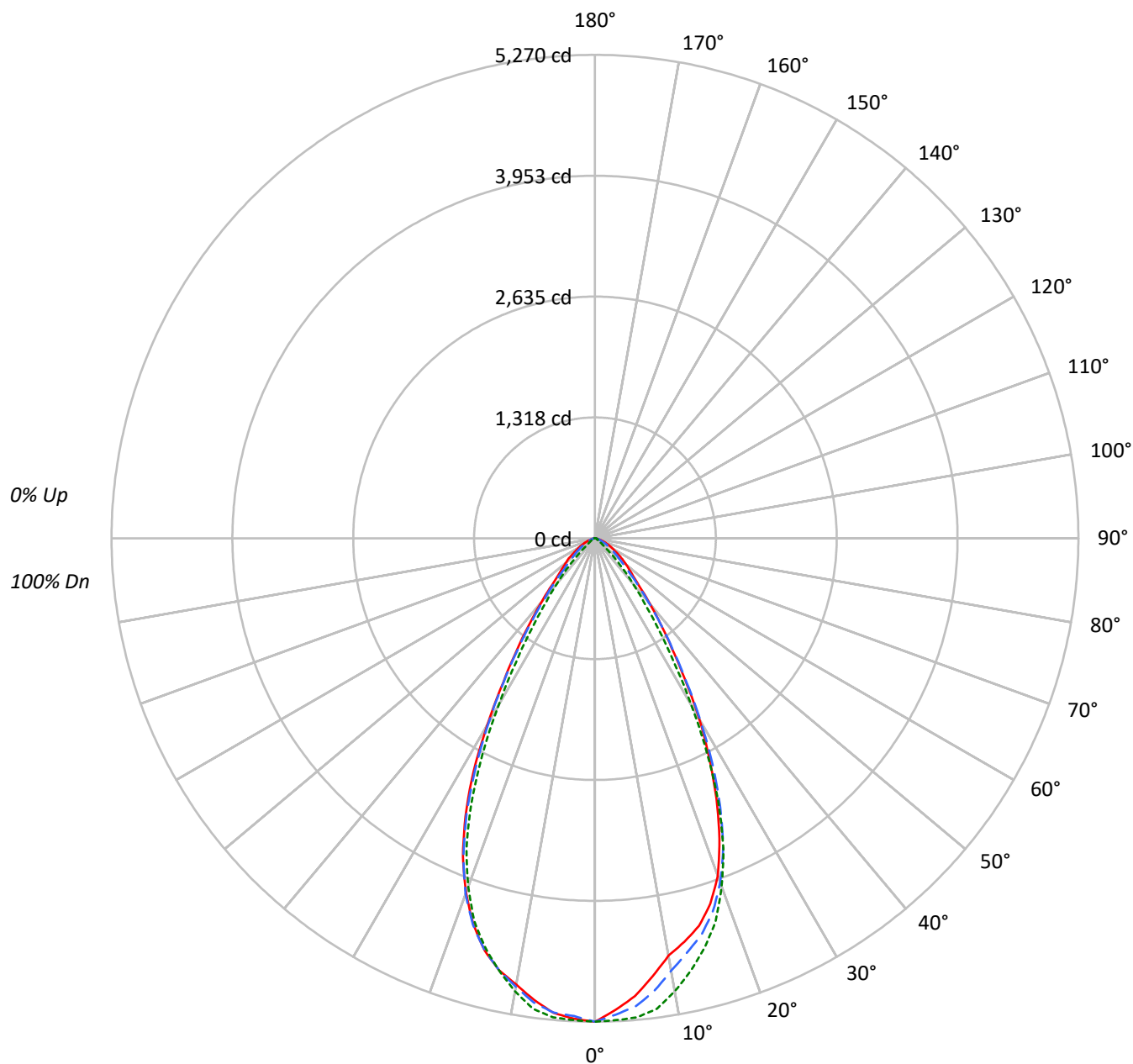
Lumens per Lamp: N/A  
Luminaire Lumens: 4798.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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  | 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°  | 647499 | 647499 | 647499 |
| 5°  | 617859 | 646458 | 640440 |
| 10° | 576252 | 625502 | 616371 |
| 15° | 556470 | 587516 | 591662 |
| 20° | 511878 | 527841 | 537411 |
| 25° | 424256 | 431969 | 452940 |
| 30° | 322743 | 298485 | 331978 |
| 35° | 218516 | 178847 | 220960 |
| 40° | 148811 | 102479 | 144256 |
| 45° | 103237 | 51618  | 97573  |
| 50° | 84019  | 21005  | 78572  |
| 55° | 68005  | 13065  | 61900  |
| 60° | 54006  | 10000  | 48994  |
| 65° | 42587  | 8285   | 37849  |
| 70° | 32148  | 7292   | 29239  |
| 75° | 23164  | 5791   | 21265  |
| 80° | 17263  | 5731   | 14362  |
| 85° | 11418  | 5779   | 11418  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 484.6  | 10.1      |
| 10°-20°   | 1273.2 | 26.5      |
| 20°-30°   | 1460.8 | 30.4      |
| 30°-40°   | 887.4  | 18.5      |
| 40°-50°   | 380.3  | 7.9       |
| 50°-60°   | 182.5  | 3.8       |
| 60°-70°   | 88.7   | 1.8       |
| 70°-80°   | 32.9   | 0.7       |
| 80°-90°   | 7.6    | 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°    | 3218.6 | 67.1      |
| 0°-40°    | 4106.0 | 85.6      |
| 0°-60°    | 4668.8 | 97.3      |
| 0°-90°    | 4798.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4798.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5270 | 5270 | 5270 | 5270 | 5270 |      |
| 5°  | 5010 | 5120 | 5242 | 5189 | 5193 | 465  |
| 15° | 4375 | 4477 | 4619 | 4648 | 4652 | 1218 |
| 25° | 3130 | 3232 | 3187 | 3309 | 3341 | 1420 |
| 35° | 1457 | 1477 | 1192 | 1441 | 1473 | 934  |
| 45° | 594  | 529  | 297  | 476  | 562  | 483  |
| 55° | 318  | 236  | 61   | 212  | 289  | 287  |
| 65° | 146  | 98   | 28   | 90   | 130  | 149  |
| 75° | 49   | 33   | 12   | 28   | 45   | 54   |
| 85° | 8    | 8    | 4    | 4    | 8    | 11   |
| 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°    | 5270.5 | 5270.5 | 5270.5 | 5270.5 | 5270.5 | 5270.5 | 5270.5 | 5270.5 | 5270.5 |
| 2.5°  | 5144.4 | 5201.3 | 5197.3 | 5246.1 | 5258.3 | 5246.1 | 5213.6 | 5246.1 | 5242.0 |
| 5°    | 5010.1 | 5075.2 | 5119.9 | 5201.3 | 5242.0 | 5233.9 | 5189.1 | 5197.3 | 5193.2 |
| 7.5°  | 4814.7 | 4896.1 | 4973.4 | 5095.5 | 5172.9 | 5168.8 | 5103.7 | 5091.5 | 5075.2 |
| 10°   | 4619.3 | 4696.7 | 4786.2 | 4912.4 | 5014.1 | 5030.4 | 4965.3 | 4949.0 | 4940.9 |
| 12.5° | 4505.4 | 4566.4 | 4627.5 | 4737.4 | 4826.9 | 4859.5 | 4822.8 | 4826.9 | 4822.8 |
| 15°   | 4375.2 | 4436.2 | 4476.9 | 4558.3 | 4619.3 | 4664.1 | 4647.8 | 4672.3 | 4651.9 |
| 17.5° | 4179.8 | 4253.1 | 4269.3 | 4330.4 | 4375.2 | 4403.6 | 4419.9 | 4444.3 | 4411.8 |
| 20°   | 3915.3 | 3972.2 | 3992.6 | 4017.0 | 4037.4 | 4074.0 | 4122.8 | 4147.2 | 4110.6 |
| 22.5° | 3544.9 | 3654.8 | 3650.7 | 3638.5 | 3658.8 | 3671.1 | 3748.4 | 3789.1 | 3760.6 |
| 25°   | 3129.8 | 3243.7 | 3231.5 | 3182.7 | 3186.7 | 3211.2 | 3308.8 | 3361.7 | 3341.4 |
| 27.5° | 2694.3 | 2800.1 | 2771.6 | 2678.0 | 2653.6 | 2690.2 | 2816.4 | 2877.4 | 2865.2 |
| 30°   | 2275.1 | 2344.3 | 2299.5 | 2132.6 | 2104.1 | 2148.9 | 2311.7 | 2372.8 | 2340.2 |
| 32.5° | 1823.3 | 1876.2 | 1855.9 | 1652.4 | 1603.5 | 1648.3 | 1839.6 | 1896.6 | 1859.9 |
| 35°   | 1457.0 | 1505.9 | 1477.4 | 1237.3 | 1192.5 | 1241.3 | 1440.7 | 1505.9 | 1473.3 |
| 37.5° | 1168.1 | 1204.7 | 1168.1 | 911.7  | 871.0  | 919.8  | 1111.1 | 1196.6 | 1155.9 |
| 40°   | 927.9  | 956.4  | 907.6  | 671.5  | 639.0  | 663.4  | 842.5  | 927.9  | 899.5  |
| 42.5° | 732.6  | 752.9  | 700.0  | 492.5  | 455.8  | 488.4  | 634.9  | 712.2  | 696.0  |
| 45°   | 594.2  | 594.2  | 529.1  | 341.9  | 297.1  | 329.7  | 476.2  | 557.6  | 561.6  |
| 47.5° | 508.7  | 496.5  | 415.1  | 227.9  | 170.9  | 215.7  | 378.5  | 464.0  | 476.2  |
| 50°   | 439.6  | 423.3  | 341.9  | 166.9  | 109.9  | 154.7  | 313.4  | 398.9  | 411.1  |
| 52.5° | 378.5  | 366.3  | 284.9  | 130.2  | 77.3   | 118.0  | 264.5  | 345.9  | 358.2  |
| 55°   | 317.5  | 309.3  | 236.1  | 101.7  | 61.0   | 89.5   | 211.6  | 280.8  | 289.0  |
| 57.5° | 260.5  | 248.3  | 191.3  | 85.5   | 48.8   | 73.3   | 175.0  | 232.0  | 240.1  |
| 60°   | 219.8  | 207.6  | 154.7  | 69.2   | 40.7   | 57.0   | 142.4  | 191.3  | 199.4  |
| 62.5° | 183.1  | 170.9  | 126.2  | 57.0   | 32.6   | 48.8   | 114.0  | 154.7  | 162.8  |
| 65°   | 146.5  | 138.4  | 97.7   | 44.8   | 28.5   | 36.6   | 89.5   | 122.1  | 130.2  |
| 67.5° | 118.0  | 109.9  | 77.3   | 36.6   | 24.4   | 28.5   | 69.2   | 97.7   | 105.8  |
| 70°   | 89.5   | 81.4   | 57.0   | 28.5   | 20.3   | 24.4   | 52.9   | 73.3   | 81.4   |
| 72.5° | 65.1   | 61.0   | 44.8   | 24.4   | 16.3   | 20.3   | 36.6   | 52.9   | 61.0   |
| 75°   | 48.8   | 44.8   | 32.6   | 16.3   | 12.2   | 16.3   | 28.5   | 40.7   | 44.8   |
| 77.5° | 32.6   | 32.6   | 24.4   | 12.2   | 12.2   | 12.2   | 20.3   | 28.5   | 28.5   |
| 80°   | 24.4   | 20.3   | 16.3   | 8.1    | 8.1    | 8.1    | 12.2   | 20.3   | 20.3   |
| 82.5° | 16.3   | 12.2   | 12.2   | 8.1    | 8.1    | 8.1    | 8.1    | 12.2   | 12.2   |
| 85°   | 8.1    | 8.1    | 8.1    | 4.1    | 4.1    | 4.1    | 4.1    | 8.1    | 8.1    |
| 87.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 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)