

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: P839204

Luminaire Tested: **LD4C10D010 EU4109050 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C10D010 EU4109050 4LBSH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

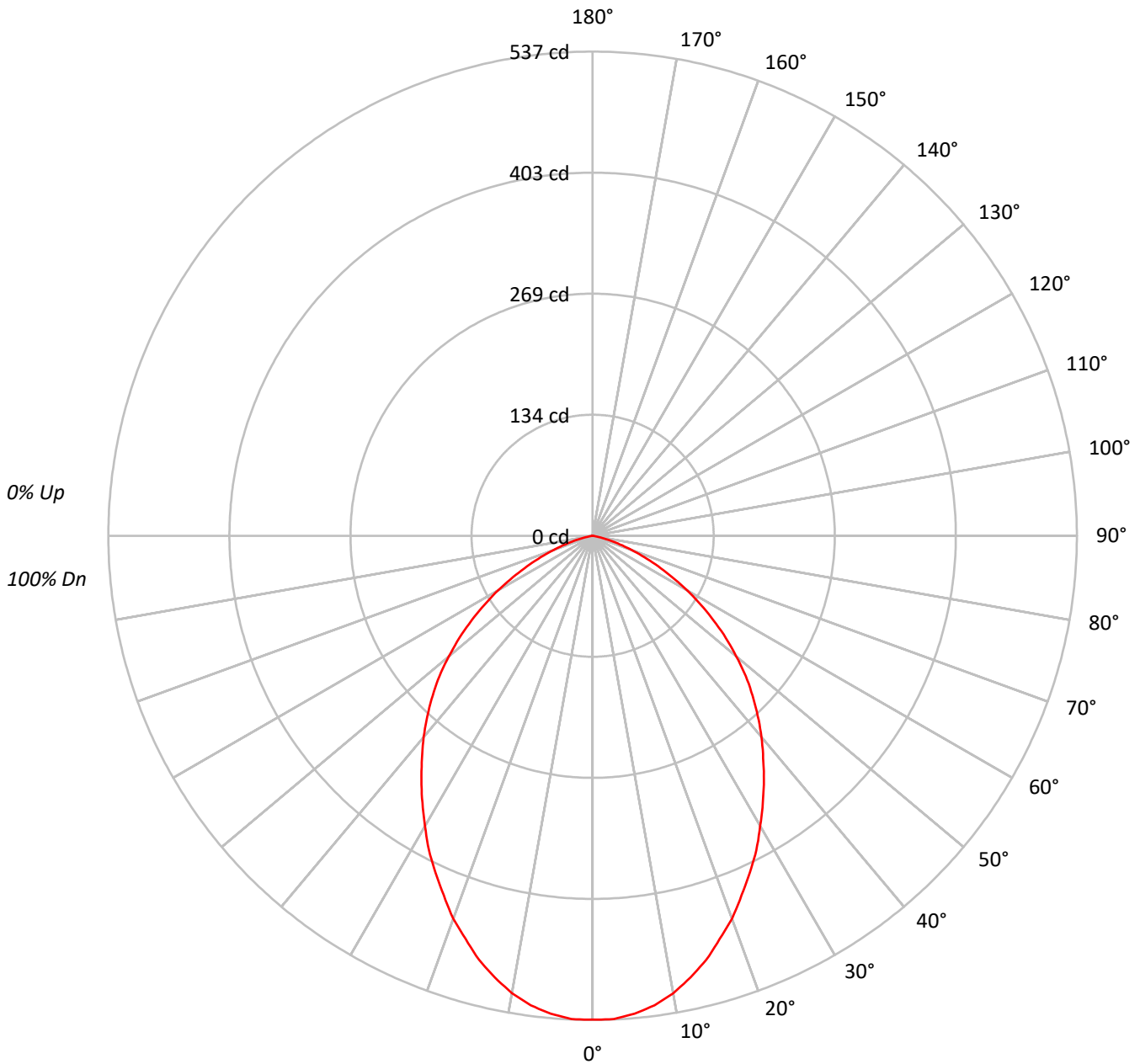
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1026.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.8  
Input Voltage (V):  
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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |   |
| 2   | 102 | 96  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |    |    |   |
| 3   | 95  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |   |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |   |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |   |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 34  |    |    |   |
| 10  | 58  | 45  | 38  | 33  | 56  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 65923 |
| 5°  | 65620 |
| 10° | 64258 |
| 15° | 61927 |
| 20° | 59080 |
| 25° | 55889 |
| 30° | 52729 |
| 35° | 49642 |
| 40° | 46733 |
| 45° | 43574 |
| 50° | 39735 |
| 55° | 35084 |
| 60° | 29706 |
| 65° | 23314 |
| 70° | 16631 |
| 75° | 9114  |
| 80° | 1627  |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.3   | 4.9       |
| 10°-20°   | 136.6  | 13.3      |
| 20°-30°   | 189.7  | 18.5      |
| 30°-40°   | 207.0  | 20.2      |
| 40°-50°   | 193.1  | 18.8      |
| 50°-60°   | 146.6  | 14.3      |
| 60°-70°   | 80.3   | 7.8       |
| 70°-80°   | 22.1   | 2.2       |
| 80°-90°   | 0.3    | 0.0       |
| 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°    | 376.6  | 36.7      |
| 0°-40°    | 583.6  | 56.9      |
| 0°-60°    | 923.3  | 90.0      |
| 0°-90°    | 1026.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1026.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 537 |      |
| 5°  | 532 | 50   |
| 15° | 487 | 137  |
| 25° | 412 | 190  |
| 35° | 331 | 207  |
| 45° | 251 | 193  |
| 55° | 164 | 147  |
| 65° | 80  | 80   |
| 75° | 19  | 22   |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 536.6 |
| 2.5°  | 536.6 |
| 5°    | 532.1 |
| 7.5°  | 525.3 |
| 10°   | 515.1 |
| 12.5° | 501.6 |
| 15°   | 486.9 |
| 17.5° | 468.8 |
| 20°   | 451.9 |
| 22.5° | 431.5 |
| 25°   | 412.3 |
| 27.5° | 393.1 |
| 30°   | 371.7 |
| 32.5° | 351.3 |
| 35°   | 331.0 |
| 37.5° | 310.7 |
| 40°   | 291.4 |
| 42.5° | 271.1 |
| 45°   | 250.8 |
| 47.5° | 230.4 |
| 50°   | 207.9 |
| 52.5° | 186.4 |
| 55°   | 163.8 |
| 57.5° | 142.3 |
| 60°   | 120.9 |
| 62.5° | 99.4  |
| 65°   | 80.2  |
| 67.5° | 62.1  |
| 70°   | 46.3  |
| 72.5° | 31.6  |
| 75°   | 19.2  |
| 77.5° | 9.0   |
| 80°   | 2.3   |
| 82.5° | 0.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)