

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: P839654

Luminaire Tested: **LDS4C100D010 EU41009027 4LBSWH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C100D010 EU41009027 4LBSWH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

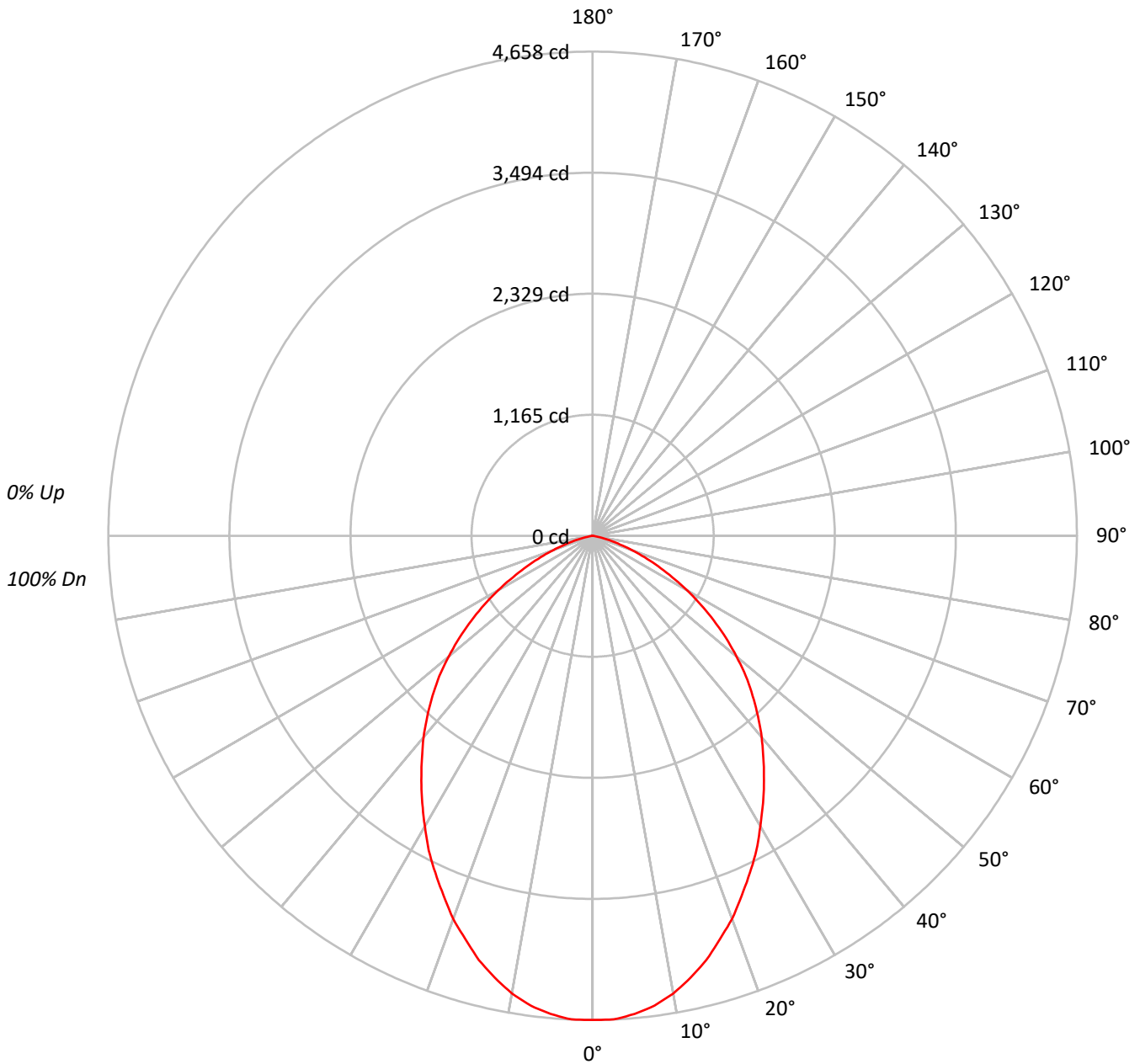
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8906.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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): 114.4  
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°  | 572227 |
| 5°  | 569578 |
| 10° | 557814 |
| 15° | 537544 |
| 20° | 512793 |
| 25° | 485161 |
| 30° | 457651 |
| 35° | 430897 |
| 40° | 405714 |
| 45° | 378217 |
| 50° | 344868 |
| 55° | 304555 |
| 60° | 257796 |
| 65° | 202383 |
| 70° | 144470 |
| 75° | 79175  |
| 80° | 13937  |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 436.3  | 4.9       |
| 10°-20°   | 1185.8 | 13.3      |
| 20°-30°   | 1646.8 | 18.5      |
| 30°-40°   | 1797.1 | 20.2      |
| 40°-50°   | 1676.4 | 18.8      |
| 50°-60°   | 1272.4 | 14.3      |
| 60°-70°   | 696.7  | 7.8       |
| 70°-80°   | 191.8  | 2.2       |
| 80°-90°   | 2.7    | 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°    | 3269.0 | 36.7      |
| 0°-40°    | 5066.0 | 56.9      |
| 0°-60°    | 8014.9 | 90.0      |
| 0°-90°    | 8906.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8906.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4658 |      |
| 5°  | 4619 | 436  |
| 15° | 4226 | 1186 |
| 25° | 3579 | 1647 |
| 35° | 2873 | 1797 |
| 45° | 2177 | 1676 |
| 55° | 1422 | 1272 |
| 65° | 696  | 697  |
| 75° | 167  | 192  |
| 85° | 0    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4657.8 |
| 2.5°  | 4657.8 |
| 5°    | 4618.6 |
| 7.5°  | 4559.9 |
| 10°   | 4471.5 |
| 12.5° | 4353.9 |
| 15°   | 4226.4 |
| 17.5° | 4069.6 |
| 20°   | 3922.3 |
| 22.5° | 3745.8 |
| 25°   | 3579.1 |
| 27.5° | 3412.6 |
| 30°   | 3226.1 |
| 32.5° | 3049.6 |
| 35°   | 2873.1 |
| 37.5° | 2696.6 |
| 40°   | 2529.8 |
| 42.5° | 2353.4 |
| 45°   | 2176.9 |
| 47.5° | 2000.4 |
| 50°   | 1804.4 |
| 52.5° | 1617.9 |
| 55°   | 1421.9 |
| 57.5° | 1235.5 |
| 60°   | 1049.2 |
| 62.5° | 863.0  |
| 65°   | 696.2  |
| 67.5° | 539.2  |
| 70°   | 402.2  |
| 72.5° | 274.6  |
| 75°   | 166.8  |
| 77.5° | 78.4   |
| 80°   | 19.7   |
| 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)