

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: P857936

Luminaire Tested: **LX4C40D010 EX4C409035 4LBMLI**

Issue Date: 1/26/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/26/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C40D010 EX4C409035 4LBMLI  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBM TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver:

**Summary**

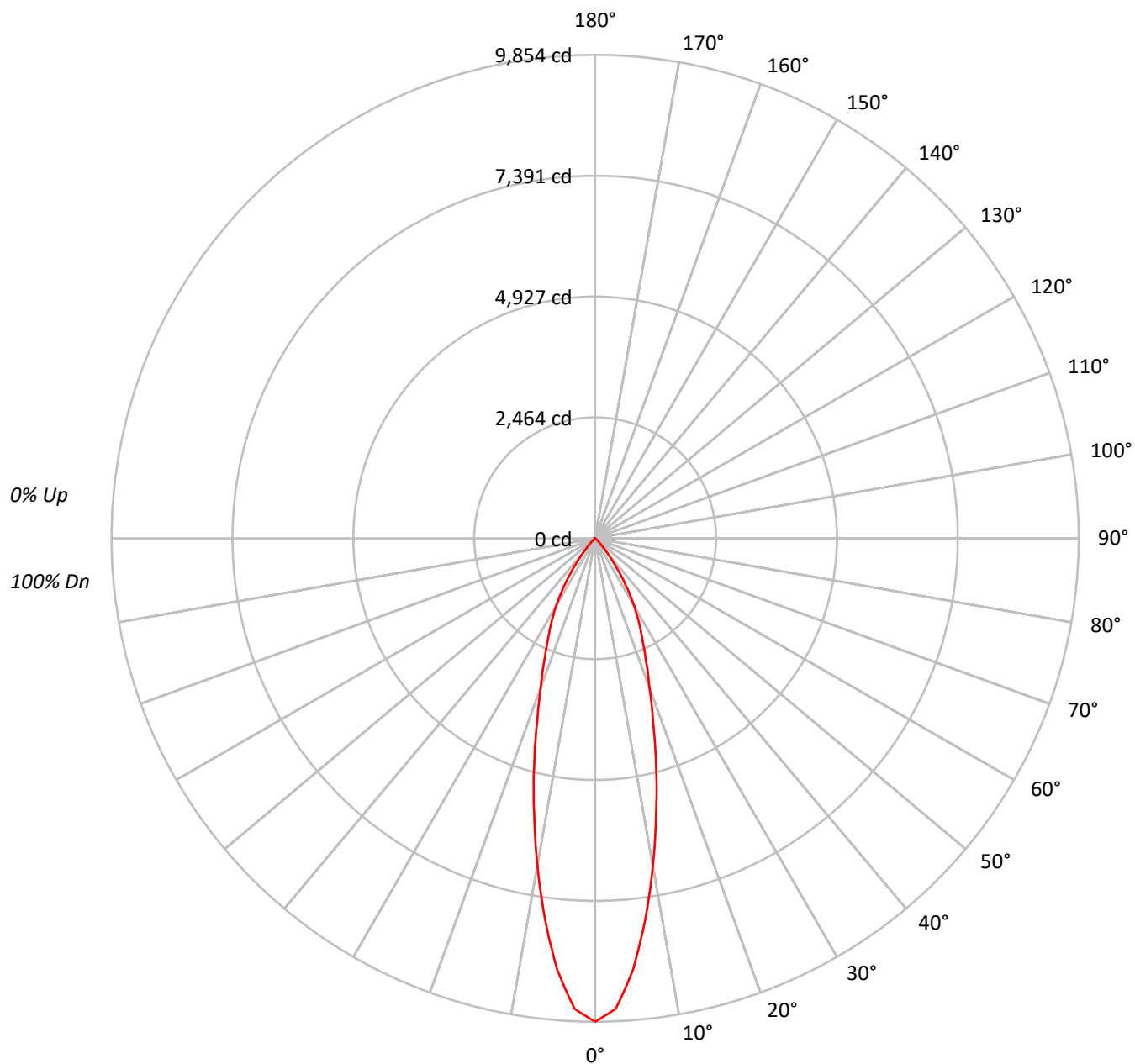
Lumens per Lamp: N/A  
Luminaire Lumens: 3829.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V):  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 109 | 105 | 102 | 99  | 107 | 103 | 100 | 98  | 100 | 98  | 95  |  | 97  | 95  | 93  |  | 95  |
| 3   | 105 | 99  | 95  | 92  | 103 | 98  | 94  | 91  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 91  |
| 4   | 101 | 94  | 89  | 86  | 99  | 93  | 88  | 85  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 84  | 80  | 87  | 82  | 79  |  | 85  | 81  | 79  |  | 83  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  |  | 81  | 78  | 75  |  | 80  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 75  | 72  | 79  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 8   | 85  | 77  | 72  | 68  | 84  | 77  | 72  | 68  | 76  | 71  | 68  |  | 75  | 71  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 65  | 62  | 69  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1210561 |
| 5°  | 1089372 |
| 10° | 844499  |
| 15° | 611249  |
| 20° | 423238  |
| 25° | 308548  |
| 30° | 224194  |
| 35° | 132669  |
| 40° | 55794   |
| 45° | 17391   |
| 50° | 2255    |
| 55° | 1264    |
| 60° | 1450    |
| 65° | 1715    |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 776.5  | 20.3      |
| 10°-20°   | 1329.4 | 34.7      |
| 20°-30°   | 1056.6 | 27.6      |
| 30°-40°   | 559.3  | 14.6      |
| 40°-50°   | 96.3   | 2.5       |
| 50°-60°   | 7.2    | 0.2       |
| 60°-70°   | 3.6    | 0.1       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 3162.5 | 82.6      |
| 0°-40°    | 3721.8 | 97.2      |
| 0°-60°    | 3825.4 | 99.9      |
| 0°-90°    | 3829.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3829.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9854 |      |
| 5°  | 8834 | 777  |
| 15° | 4806 | 1329 |
| 25° | 2276 | 1057 |
| 35° | 885  | 559  |
| 45° | 100  | 96   |
| 55° | 6    | 7    |
| 65° | 6    | 4    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 9853.7 |
| 2.5°  | 9600.0 |
| 5°    | 8833.5 |
| 7.5°  | 7831.1 |
| 10°   | 6769.6 |
| 12.5° | 5743.6 |
| 15°   | 4805.9 |
| 17.5° | 3933.1 |
| 20°   | 3237.3 |
| 22.5° | 2706.6 |
| 25°   | 2276.2 |
| 27.5° | 1928.3 |
| 30°   | 1580.4 |
| 32.5° | 1226.6 |
| 35°   | 884.6  |
| 37.5° | 583.9  |
| 40°   | 347.9  |
| 42.5° | 200.5  |
| 45°   | 100.1  |
| 47.5° | 35.4   |
| 50°   | 11.8   |
| 52.5° | 11.8   |
| 55°   | 5.9    |
| 57.5° | 5.9    |
| 60°   | 5.9    |
| 62.5° | 5.9    |
| 65°   | 5.9    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 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)