

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: P857294

Luminaire Tested: **LX4C20D010 EX4C209030 4LBMDLI**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C20D010 EX4C209030 4LBMDLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRMD45 TRIM WITH LI FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

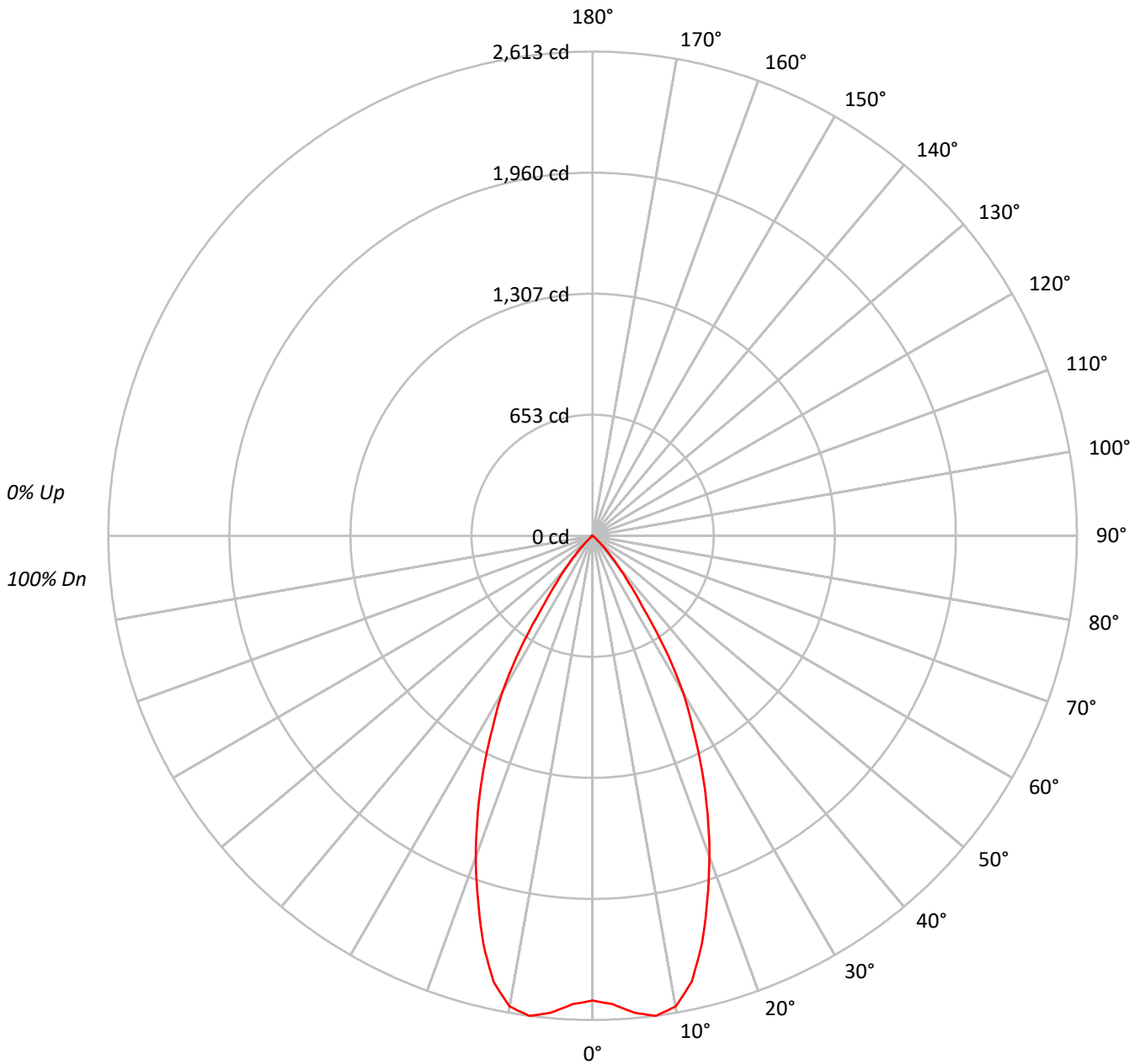
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1909.4 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.82  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.6  
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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |    |    |   |
| 2   | 109 | 104 | 100 | 97  | 107 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 88  |    |    |   |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 89  | 94  | 90  | 87  | 91  | 88  | 86  | 89  | 87  | 85  | 83  |    |    |   |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 85  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 78  |    |    |   |
| 5   | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 79  | 76  | 82  | 78  | 75  | 81  | 77  | 75  | 73  |    |    |   |
| 6   | 90  | 82  | 76  | 72  | 89  | 81  | 76  | 72  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 69  |    |    |   |
| 7   | 86  | 77  | 72  | 68  | 85  | 77  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 65  |    |    |   |
| 8   | 82  | 73  | 68  | 64  | 81  | 73  | 67  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 62  |    |    |   |
| 9   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 63  | 60  | 58  |    |    |   |
| 10  | 75  | 66  | 61  | 57  | 74  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 63  | 59  | 57  | 55  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 308092 |
| 5°  | 318580 |
| 10° | 321814 |
| 15° | 289898 |
| 20° | 240924 |
| 25° | 189003 |
| 30° | 138327 |
| 35° | 71479  |
| 40° | 33951  |
| 45° | 11953  |
| 50° | 2714   |
| 55° | 1756   |
| 60° | 1229   |
| 65° | 901    |
| 70° | 682    |
| 75° | 427    |
| 80° | 354    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 246.7  | 12.9      |
| 10°-20°   | 627.8  | 32.9      |
| 20°-30°   | 635.3  | 33.3      |
| 30°-40°   | 323.8  | 17.0      |
| 40°-50°   | 63.5   | 3.3       |
| 50°-60°   | 7.7    | 0.4       |
| 60°-70°   | 3.2    | 0.2       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 1509.8 | 79.1      |
| 0°-40°    | 1833.7 | 96.0      |
| 0°-60°    | 1904.8 | 99.8      |
| 0°-90°    | 1909.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1909.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2508 |      |
| 5°  | 2583 | 247  |
| 15° | 2279 | 628  |
| 25° | 1394 | 635  |
| 35° | 477  | 324  |
| 45° | 69   | 64   |
| 55° | 8    | 8    |
| 65° | 3    | 3    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2507.8 |
| 2.5°  | 2531.0 |
| 5°    | 2583.3 |
| 7.5°  | 2613.4 |
| 10°   | 2579.7 |
| 12.5° | 2466.4 |
| 15°   | 2279.3 |
| 17.5° | 2058.5 |
| 20°   | 1842.8 |
| 22.5° | 1619.2 |
| 25°   | 1394.3 |
| 27.5° | 1170.3 |
| 30°   | 975.1  |
| 32.5° | 734.7  |
| 35°   | 476.6  |
| 37.5° | 319.1  |
| 40°   | 211.7  |
| 42.5° | 132.9  |
| 45°   | 68.8   |
| 47.5° | 24.6   |
| 50°   | 14.2   |
| 52.5° | 10.4   |
| 55°   | 8.2    |
| 57.5° | 6.4    |
| 60°   | 5.0    |
| 62.5° | 4.1    |
| 65°   | 3.1    |
| 67.5° | 2.3    |
| 70°   | 1.9    |
| 72.5° | 1.4    |
| 75°   | 0.9    |
| 77.5° | 0.9    |
| 80°   | 0.5    |
| 82.5° | 0.5    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)