

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: P840001

Luminaire Tested: **LDS4C40D010 EU4409027 4LBSGPH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C40D010 EU4409027 4LBSGPH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

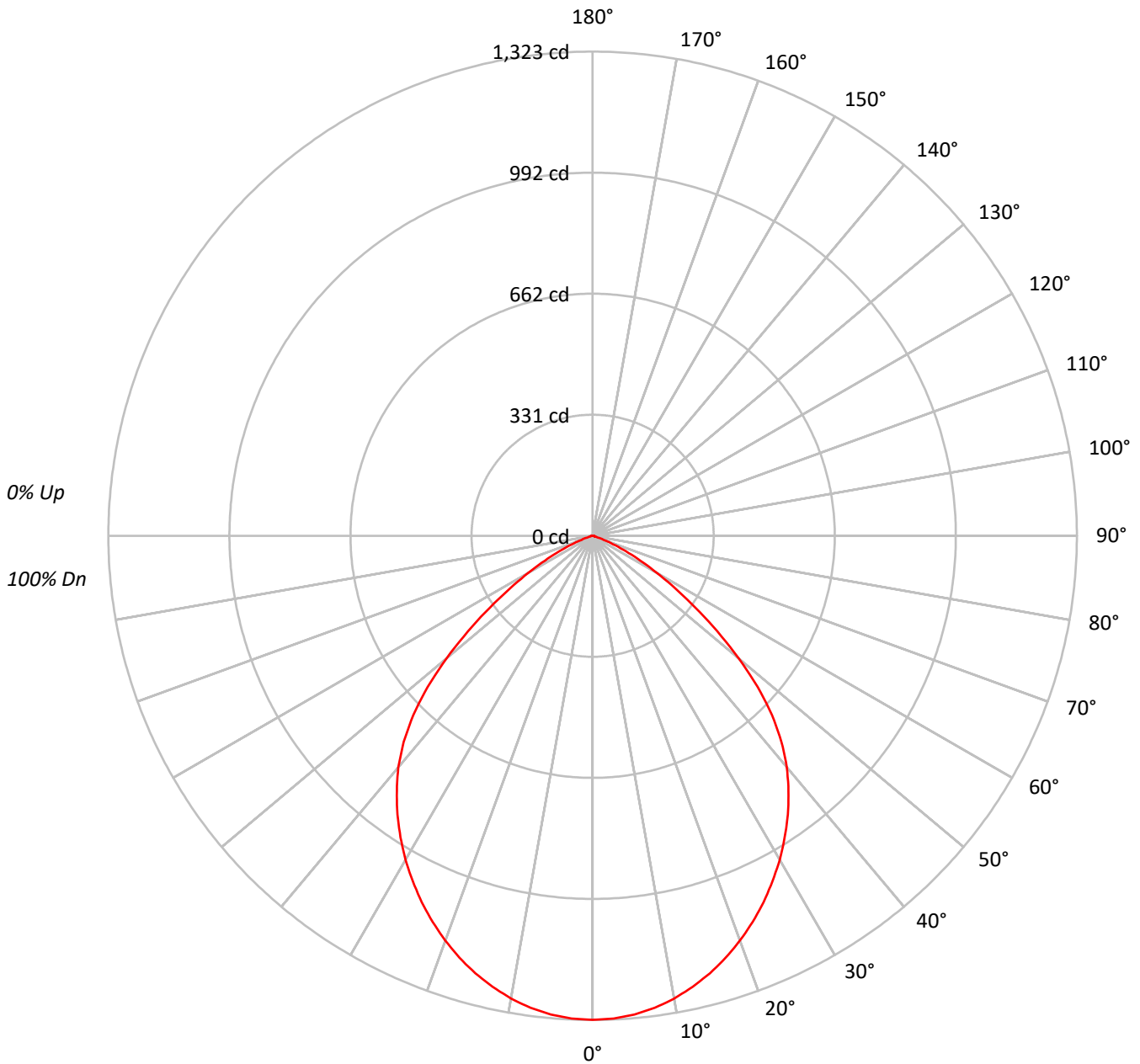
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2519.0 lumens  
Efficiency: N/A  
Efficacy: 53.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47  
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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |    |    |   |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 73  | 78  | 75  | 72  | 70  |    |    |   |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |    |    |   |
| 5   | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 58  | 69  | 63  | 58  | 67  | 61  | 57  | 65  | 60  | 57  | 55  |    |    |   |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 52  | 61  | 56  | 51  | 60  | 55  | 51  | 49  |    |    |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |   |
| 8   | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 41  | 40  |    |    |   |
| 9   | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |   |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 162498 |
| 5°  | 161935 |
| 10° | 160165 |
| 15° | 157407 |
| 20° | 153879 |
| 25° | 149760 |
| 30° | 145051 |
| 35° | 139463 |
| 40° | 132421 |
| 45° | 120403 |
| 50° | 99405  |
| 55° | 73188  |
| 60° | 49682  |
| 65° | 29099  |
| 70° | 11494  |
| 75° | 2563   |
| 80° | 3396   |
| 85° | 5779   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.4  | 4.9       |
| 10°-20°   | 348.5  | 13.8      |
| 20°-30°   | 508.3  | 20.2      |
| 30°-40°   | 580.2  | 23.0      |
| 40°-50°   | 527.5  | 20.9      |
| 50°-60°   | 311.1  | 12.3      |
| 60°-70°   | 104.4  | 4.1       |
| 70°-80°   | 10.9   | 0.4       |
| 80°-90°   | 3.8    | 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°    | 981.2  | 39.0      |
| 0°-40°    | 1561.4 | 62.0      |
| 0°-60°    | 2400.0 | 95.3      |
| 0°-90°    | 2519.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2519.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1323 |      |
| 5°  | 1313 | 124  |
| 15° | 1238 | 348  |
| 25° | 1105 | 508  |
| 35° | 930  | 580  |
| 45° | 693  | 527  |
| 55° | 342  | 311  |
| 65° | 100  | 104  |
| 75° | 5    | 11   |
| 85° | 4    | 4    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1322.7 |
| 2.5°  | 1320.6 |
| 5°    | 1313.1 |
| 7.5°  | 1300.9 |
| 10°   | 1283.9 |
| 12.5° | 1262.1 |
| 15°   | 1237.6 |
| 17.5° | 1209.0 |
| 20°   | 1177.0 |
| 22.5° | 1142.3 |
| 25°   | 1104.8 |
| 27.5° | 1064.0 |
| 30°   | 1022.5 |
| 32.5° | 976.9  |
| 35°   | 929.9  |
| 37.5° | 878.8  |
| 40°   | 825.7  |
| 42.5° | 763.8  |
| 45°   | 693.0  |
| 47.5° | 611.3  |
| 50°   | 520.1  |
| 52.5° | 428.9  |
| 55°   | 341.7  |
| 57.5° | 267.5  |
| 60°   | 202.2  |
| 62.5° | 146.4  |
| 65°   | 100.1  |
| 67.5° | 61.3   |
| 70°   | 32.0   |
| 72.5° | 12.3   |
| 75°   | 5.4    |
| 77.5° | 5.4    |
| 80°   | 4.8    |
| 82.5° | 4.1    |
| 85°   | 4.1    |
| 87.5° | 3.4    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)