

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: P857349

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25D010 EU4259030 4LBMDSWGPH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

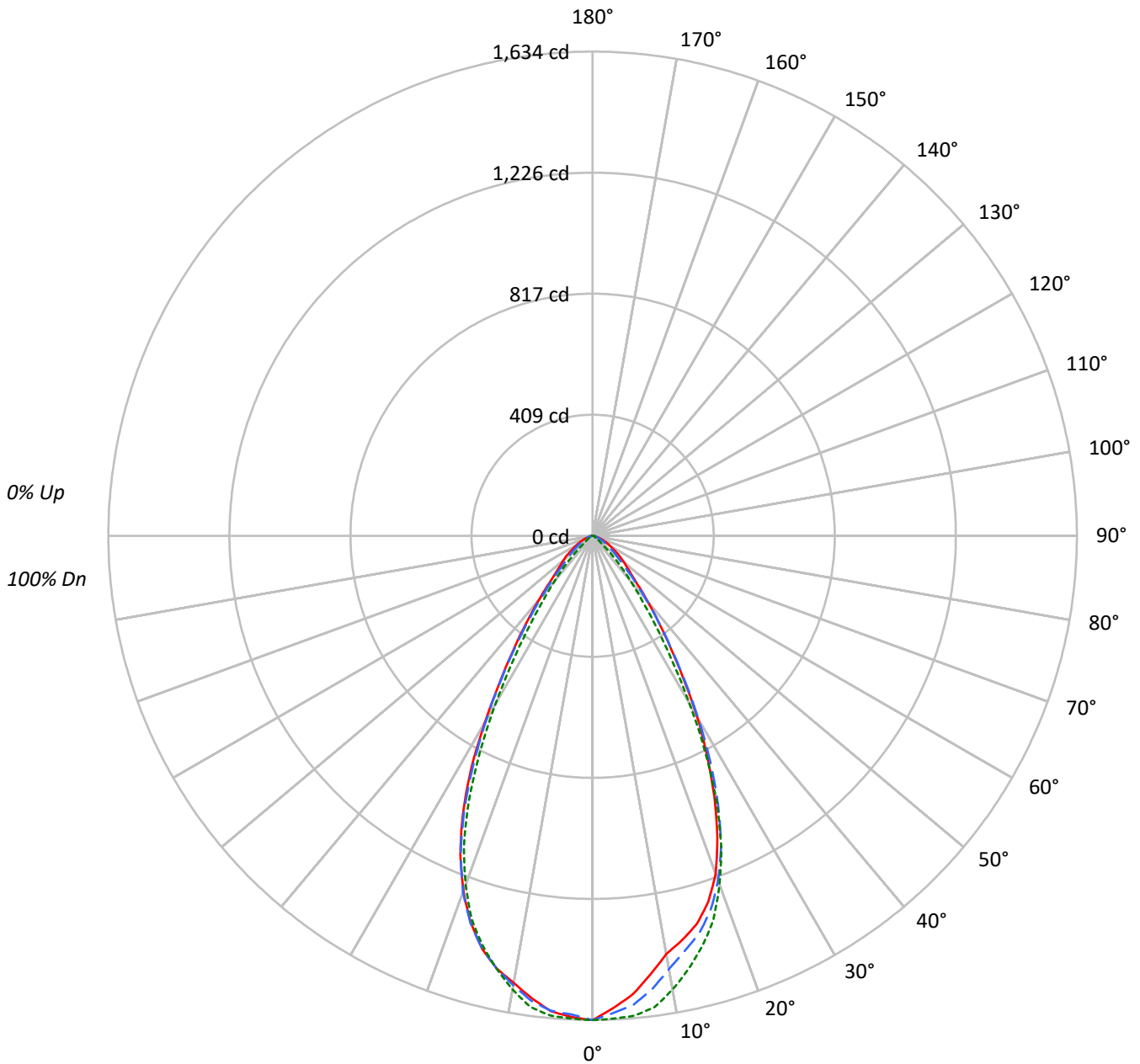
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1488.0 lumens  
Efficiency: N/A  
Efficacy: 47.2 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
Input Voltage (V): NR  
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

TEST NUMBER: P857349

CATALOG NUMBER: LD4C25D010 EU4259030 4LBMDSWGPB

### Luminous Intensity Polar Plot





TEST NUMBER: P857349

CATALOG NUMBER: LD4C25D010 EU4259030 4LBMDSWGPH

**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 |    |    | 100 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 92  |    |    | 92  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |    |    | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 85  | 83  | 80  | 78  |    |    | 78  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    | 72  |
| 5   | 91  | 82  | 75  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 69  | 67  |    |    | 67  |
| 6   | 86  | 76  | 70  | 66  | 84  | 76  | 70  | 65  | 74  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |    |    | 62  |
| 7   | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 58  |    |    | 58  |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |    |    | 55  |
| 9   | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |    |    | 51  |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 50  | 57  | 53  | 49  | 48  |    |    | 48  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 200804 | 200804 | 200804 |
| 5°  | 191619 | 200486 | 198624 |
| 10° | 178715 | 193984 | 191152 |
| 15° | 172580 | 182208 | 183493 |
| 20° | 158742 | 163697 | 166665 |
| 25° | 131569 | 133968 | 140474 |
| 30° | 100096 | 92577  | 102961 |
| 35° | 67774  | 55461  | 68524  |
| 40° | 46156  | 31786  | 44728  |
| 45° | 32020  | 16002  | 30266  |
| 50° | 26050  | 6517   | 24369  |
| 55° | 21098  | 4048   | 19191  |
| 60° | 16757  | 3096   | 15185  |
| 65° | 13198  | 2558   | 11744  |
| 70° | 9986   | 2263   | 9052   |
| 75° | 7168   | 1804   | 6598   |
| 80° | 5377   | 1769   | 4457   |
| 85° | 3524   | 1832   | 3524   |



TEST NUMBER: P857349

CATALOG NUMBER: LD4C25D010 EU4259030 4LBMDSWGPB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.3  | 10.1      |
| 10°-20°   | 394.9  | 26.5      |
| 20°-30°   | 453.0  | 30.4      |
| 30°-40°   | 275.2  | 18.5      |
| 40°-50°   | 118.0  | 7.9       |
| 50°-60°   | 56.6   | 3.8       |
| 60°-70°   | 27.5   | 1.8       |
| 70°-80°   | 10.2   | 0.7       |
| 80°-90°   | 2.4    | 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°    | 998.2  | 67.1      |
| 0°-40°    | 1273.4 | 85.6      |
| 0°-60°    | 1447.9 | 97.3      |
| 0°-90°    | 1488.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1488.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1634 | 1634 | 1634 | 1634 | 1634 |      |
| 5°  | 1554 | 1588 | 1626 | 1609 | 1611 | 144  |
| 15° | 1357 | 1388 | 1433 | 1441 | 1443 | 378  |
| 25° | 971  | 1002 | 988  | 1026 | 1036 | 440  |
| 35° | 452  | 458  | 370  | 447  | 457  | 290  |
| 45° | 184  | 164  | 92   | 148  | 174  | 150  |
| 55° | 98   | 73   | 19   | 66   | 90   | 89   |
| 65° | 45   | 30   | 9    | 28   | 40   | 46   |
| 75° | 15   | 10   | 4    | 9    | 14   | 17   |
| 85° | 2    | 2    | 1    | 1    | 2    | 3    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P857349

CATALOG NUMBER: LD4C25D010 EU4259030 4LBMDSWGPB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 | 1634.5 |
| 2.5°  | 1595.4 | 1613.1 | 1611.8 | 1627.0 | 1630.8 | 1627.0 | 1616.9 | 1627.0 | 1625.7 |
| 5°    | 1553.8 | 1574.0 | 1587.8 | 1613.1 | 1625.7 | 1623.2 | 1609.3 | 1611.8 | 1610.6 |
| 7.5°  | 1493.2 | 1518.4 | 1542.4 | 1580.3 | 1604.3 | 1603.0 | 1582.8 | 1579.0 | 1574.0 |
| 10°   | 1432.6 | 1456.6 | 1484.3 | 1523.5 | 1555.0 | 1560.1 | 1539.9 | 1534.8 | 1532.3 |
| 12.5° | 1397.3 | 1416.2 | 1435.1 | 1469.2 | 1497.0 | 1507.1 | 1495.7 | 1497.0 | 1495.7 |
| 15°   | 1356.9 | 1375.8 | 1388.4 | 1413.7 | 1432.6 | 1446.5 | 1441.4 | 1449.0 | 1442.7 |
| 17.5° | 1296.3 | 1319.0 | 1324.0 | 1343.0 | 1356.9 | 1365.7 | 1370.7 | 1378.3 | 1368.2 |
| 20°   | 1214.2 | 1231.9 | 1238.2 | 1245.8 | 1252.1 | 1263.5 | 1278.6 | 1286.2 | 1274.8 |
| 22.5° | 1099.4 | 1133.5 | 1132.2 | 1128.4 | 1134.7 | 1138.5 | 1162.5 | 1175.1 | 1166.3 |
| 25°   | 970.6  | 1006.0 | 1002.2 | 987.0  | 988.3  | 995.9  | 1026.2 | 1042.6 | 1036.3 |
| 27.5° | 835.6  | 868.4  | 859.6  | 830.5  | 823.0  | 834.3  | 873.4  | 892.4  | 888.6  |
| 30°   | 705.6  | 727.0  | 713.1  | 661.4  | 652.6  | 666.4  | 716.9  | 735.9  | 725.8  |
| 32.5° | 565.5  | 581.9  | 575.6  | 512.5  | 497.3  | 511.2  | 570.5  | 588.2  | 576.8  |
| 35°   | 451.9  | 467.0  | 458.2  | 383.7  | 369.8  | 385.0  | 446.8  | 467.0  | 456.9  |
| 37.5° | 362.3  | 373.6  | 362.3  | 282.7  | 270.1  | 285.3  | 344.6  | 371.1  | 358.5  |
| 40°   | 287.8  | 296.6  | 281.5  | 208.3  | 198.2  | 205.7  | 261.3  | 287.8  | 278.9  |
| 42.5° | 227.2  | 233.5  | 217.1  | 152.7  | 141.4  | 151.5  | 196.9  | 220.9  | 215.8  |
| 45°   | 184.3  | 184.3  | 164.1  | 106.0  | 92.1   | 102.2  | 147.7  | 172.9  | 174.2  |
| 47.5° | 157.8  | 154.0  | 128.7  | 70.7   | 53.0   | 66.9   | 117.4  | 143.9  | 147.7  |
| 50°   | 136.3  | 131.3  | 106.0  | 51.8   | 34.1   | 48.0   | 97.2   | 123.7  | 127.5  |
| 52.5° | 117.4  | 113.6  | 88.4   | 40.4   | 24.0   | 36.6   | 82.0   | 107.3  | 111.1  |
| 55°   | 98.5   | 95.9   | 73.2   | 31.6   | 18.9   | 27.8   | 65.6   | 87.1   | 89.6   |
| 57.5° | 80.8   | 77.0   | 59.3   | 26.5   | 15.1   | 22.7   | 54.3   | 71.9   | 74.5   |
| 60°   | 68.2   | 64.4   | 48.0   | 21.5   | 12.6   | 17.7   | 44.2   | 59.3   | 61.8   |
| 62.5° | 56.8   | 53.0   | 39.1   | 17.7   | 10.1   | 15.1   | 35.3   | 48.0   | 50.5   |
| 65°   | 45.4   | 42.9   | 30.3   | 13.9   | 8.8    | 11.4   | 27.8   | 37.9   | 40.4   |
| 67.5° | 36.6   | 34.1   | 24.0   | 11.4   | 7.6    | 8.8    | 21.5   | 30.3   | 32.8   |
| 70°   | 27.8   | 25.2   | 17.7   | 8.8    | 6.3    | 7.6    | 16.4   | 22.7   | 25.2   |
| 72.5° | 20.2   | 18.9   | 13.9   | 7.6    | 5.0    | 6.3    | 11.4   | 16.4   | 18.9   |
| 75°   | 15.1   | 13.9   | 10.1   | 5.0    | 3.8    | 5.0    | 8.8    | 12.6   | 13.9   |
| 77.5° | 10.1   | 10.1   | 7.6    | 3.8    | 3.8    | 3.8    | 6.3    | 8.8    | 8.8    |
| 80°   | 7.6    | 6.3    | 5.0    | 2.5    | 2.5    | 2.5    | 3.8    | 6.3    | 6.3    |
| 82.5° | 5.0    | 3.8    | 3.8    | 2.5    | 2.5    | 2.5    | 2.5    | 3.8    | 3.8    |
| 85°   | 2.5    | 2.5    | 2.5    | 1.3    | 1.3    | 1.3    | 1.3    | 2.5    | 2.5    |
| 87.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)