

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: P799800

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509035 6LBMDDWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

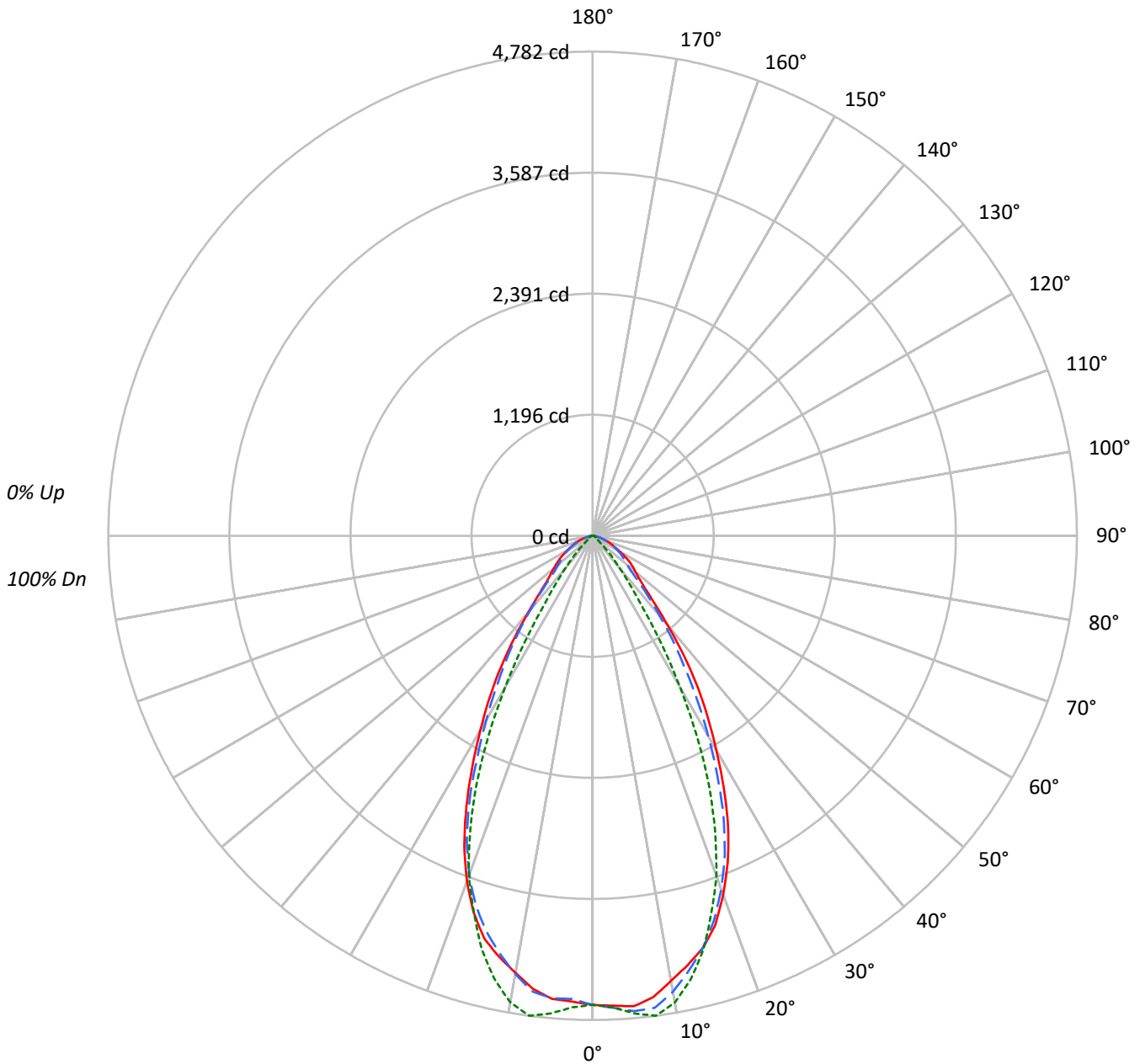
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4717.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 100 | 92  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 78  | 76  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 70  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 76  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 66  | 64  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 79  | 69  | 62  | 58  | 78  | 68  | 62  | 58  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 55  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 75  | 65  | 58  | 54  | 74  | 64  | 58  | 54  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 71  | 61  | 55  | 50  | 70  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 58  | 53  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 68  | 57  | 51  | 47  | 67  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 55  | 50  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 253998 | 253998 | 253998 |
| 5°  | 256658 | 260549 | 252635 |
| 10° | 248342 | 260544 | 244011 |
| 15° | 239020 | 239956 | 233934 |
| 20° | 219982 | 208431 | 211733 |
| 25° | 191449 | 164362 | 178335 |
| 30° | 154404 | 109200 | 140085 |
| 35° | 119712 | 56309  | 105196 |
| 40° | 82132  | 29176  | 70833  |
| 45° | 56277  | 14614  | 49695  |
| 50° | 46830  | 6234   | 42608  |
| 55° | 42120  | 5410   | 38068  |
| 60° | 33331  | 5164   | 31785  |
| 65° | 27513  | 4592   | 27201  |
| 70° | 22279  | 4151   | 22279  |
| 75° | 16479  | 4490   | 17474  |
| 80° | 9660   | 3725   | 10418  |
| 85° | 7422   | 4466   | 7422   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 441.0  | 9.4       |
| 10°-20°   | 1157.6 | 24.5      |
| 20°-30°   | 1321.3 | 28.0      |
| 30°-40°   | 876.3  | 18.6      |
| 40°-50°   | 422.6  | 9.0       |
| 50°-60°   | 260.0  | 5.5       |
| 60°-70°   | 157.3  | 3.3       |
| 70°-80°   | 66.2   | 1.4       |
| 80°-90°   | 14.6   | 0.3       |
| 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°    | 2920.0 | 61.9      |
| 0°-40°    | 3796.3 | 80.5      |
| 0°-60°    | 4478.9 | 95.0      |
| 0°-90°    | 4717.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4717.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4633 | 4633 | 4633 | 4633 | 4633 |      |
| 5°  | 4664 | 4714 | 4735 | 4584 | 4591 | 438  |
| 15° | 4212 | 4212 | 4228 | 4049 | 4122 | 1174 |
| 25° | 3165 | 3059 | 2717 | 2875 | 2948 | 1435 |
| 35° | 1789 | 1577 | 841  | 1471 | 1572 | 1106 |
| 45° | 726  | 636  | 188  | 594  | 641  | 592  |
| 55° | 441  | 358  | 57   | 358  | 398  | 387  |
| 65° | 212  | 203  | 35   | 191  | 210  | 213  |
| 75° | 78   | 78   | 21   | 73   | 82   | 83   |
| 85° | 12   | 16   | 7    | 12   | 12   | 15   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4633.3 | 4633.3 | 4633.3 | 4633.3 | 4633.3 | 4633.3 | 4633.3 | 4633.3 | 4633.3 |
| 2.5°  | 4645.1 | 4652.2 | 4666.3 | 4668.7 | 4661.6 | 4616.8 | 4579.1 | 4593.3 | 4605.1 |
| 5°    | 4664.0 | 4678.1 | 4713.5 | 4746.5 | 4734.7 | 4659.3 | 4583.8 | 4581.5 | 4590.9 |
| 7.5°  | 4595.6 | 4628.6 | 4701.7 | 4784.2 | 4781.8 | 4652.2 | 4541.4 | 4513.1 | 4513.1 |
| 10°   | 4461.3 | 4491.9 | 4572.1 | 4682.8 | 4680.5 | 4517.9 | 4395.3 | 4381.2 | 4383.5 |
| 12.5° | 4341.1 | 4355.2 | 4395.3 | 4482.5 | 4482.5 | 4322.3 | 4228.0 | 4242.1 | 4261.0 |
| 15°   | 4211.5 | 4220.9 | 4211.5 | 4239.8 | 4228.0 | 4096.0 | 4048.9 | 4093.6 | 4121.9 |
| 17.5° | 4027.7 | 4032.4 | 3982.9 | 3945.2 | 3900.4 | 3817.9 | 3829.7 | 3895.7 | 3902.8 |
| 20°   | 3770.8 | 3801.4 | 3711.9 | 3615.2 | 3572.8 | 3495.0 | 3561.0 | 3634.1 | 3629.4 |
| 22.5° | 3488.0 | 3523.3 | 3407.8 | 3247.6 | 3160.4 | 3129.7 | 3247.6 | 3313.6 | 3311.2 |
| 25°   | 3165.1 | 3191.0 | 3059.0 | 2835.2 | 2717.3 | 2712.6 | 2875.2 | 2943.6 | 2948.3 |
| 27.5° | 2802.2 | 2811.6 | 2663.1 | 2370.9 | 2224.8 | 2260.1 | 2465.1 | 2559.4 | 2571.2 |
| 30°   | 2439.2 | 2434.5 | 2281.3 | 1918.4 | 1725.1 | 1821.8 | 2097.5 | 2201.2 | 2213.0 |
| 32.5° | 2106.9 | 2092.8 | 1918.4 | 1484.7 | 1253.8 | 1397.5 | 1760.5 | 1868.9 | 1887.7 |
| 35°   | 1788.8 | 1765.2 | 1576.7 | 1098.2 | 841.4  | 1055.8 | 1470.6 | 1564.9 | 1571.9 |
| 37.5° | 1456.5 | 1444.7 | 1296.2 | 822.5  | 586.8  | 801.3  | 1199.6 | 1267.9 | 1260.9 |
| 40°   | 1147.7 | 1147.7 | 1025.2 | 610.4  | 407.7  | 596.3  | 949.8  | 1011.0 | 989.8  |
| 42.5° | 900.3  | 912.1  | 808.4  | 450.1  | 289.9  | 443.1  | 751.8  | 808.4  | 784.8  |
| 45°   | 725.9  | 725.9  | 636.3  | 334.7  | 188.5  | 329.9  | 593.9  | 645.7  | 641.0  |
| 47.5° | 615.1  | 605.7  | 516.1  | 245.1  | 103.7  | 247.5  | 499.6  | 563.3  | 560.9  |
| 50°   | 549.1  | 535.0  | 443.1  | 193.3  | 73.1   | 205.0  | 438.4  | 497.3  | 499.6  |
| 52.5° | 497.3  | 476.1  | 398.3  | 172.0  | 63.6   | 179.1  | 398.3  | 445.4  | 445.4  |
| 55°   | 440.7  | 428.9  | 358.2  | 153.2  | 56.6   | 160.3  | 358.2  | 400.6  | 398.3  |
| 57.5° | 372.4  | 370.0  | 320.5  | 139.0  | 51.8   | 141.4  | 320.5  | 346.4  | 337.0  |
| 60°   | 304.0  | 313.4  | 278.1  | 124.9  | 47.1   | 127.3  | 273.4  | 294.6  | 289.9  |
| 62.5° | 254.5  | 266.3  | 242.7  | 110.8  | 40.1   | 113.1  | 231.0  | 252.2  | 247.5  |
| 65°   | 212.1  | 221.5  | 202.7  | 94.3   | 35.4   | 94.3   | 190.9  | 209.7  | 209.7  |
| 67.5° | 174.4  | 181.5  | 167.3  | 77.8   | 30.6   | 77.8   | 155.5  | 172.0  | 174.4  |
| 70°   | 139.0  | 143.8  | 132.0  | 61.3   | 25.9   | 63.6   | 122.6  | 139.0  | 139.0  |
| 72.5° | 108.4  | 110.8  | 103.7  | 49.5   | 23.6   | 49.5   | 94.3   | 108.4  | 108.4  |
| 75°   | 77.8   | 82.5   | 77.8   | 37.7   | 21.2   | 37.7   | 73.1   | 80.1   | 82.5   |
| 77.5° | 44.8   | 56.6   | 56.6   | 30.6   | 16.5   | 28.3   | 51.8   | 54.2   | 54.2   |
| 80°   | 30.6   | 35.4   | 40.1   | 21.2   | 11.8   | 21.2   | 33.0   | 35.4   | 33.0   |
| 82.5° | 21.2   | 23.6   | 23.6   | 14.1   | 9.4    | 14.1   | 21.2   | 23.6   | 21.2   |
| 85°   | 11.8   | 16.5   | 16.5   | 11.8   | 7.1    | 9.4    | 11.8   | 14.1   | 11.8   |
| 87.5° | 7.1    | 9.4    | 11.8   | 9.4    | 7.1    | 7.1    | 7.1    | 7.1    | 4.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)