

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: P799825

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799825  
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 EU6509050 6LBMDDWWMH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

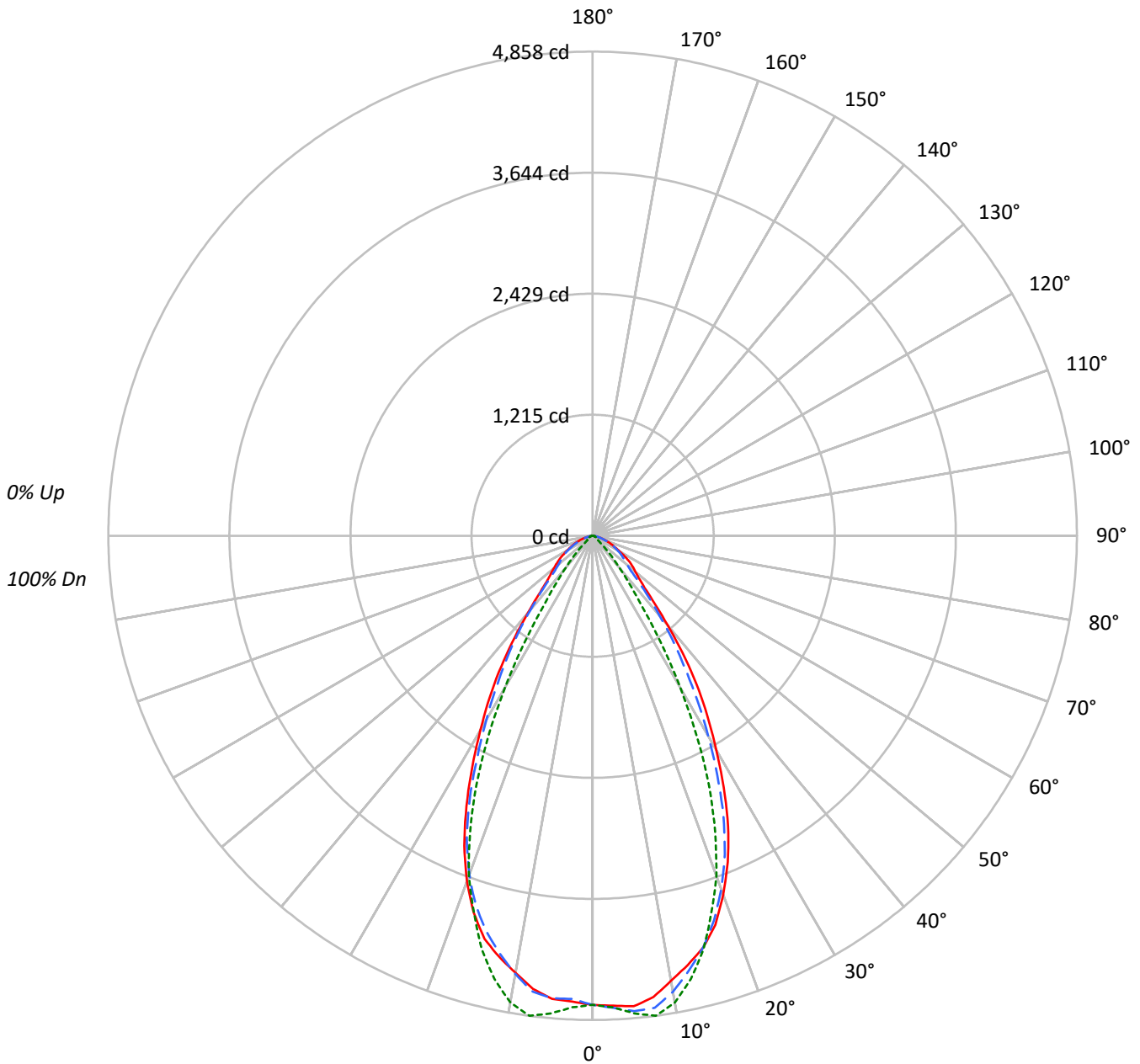
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4792.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 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  |     |     |    |    | 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 | 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°  | 258039 | 258039 | 258039 |
| 5°  | 260736 | 264692 | 256652 |
| 10° | 252289 | 264686 | 247891 |
| 15° | 242816 | 243770 | 237657 |
| 20° | 223477 | 211745 | 215100 |
| 25° | 194491 | 166975 | 181172 |
| 30° | 156860 | 110941 | 142313 |
| 35° | 121613 | 57199  | 106869 |
| 40° | 83442  | 29641  | 71963  |
| 45° | 57169  | 14847  | 50486  |
| 50° | 47572  | 6328   | 43291  |
| 55° | 42789  | 5496   | 38670  |
| 60° | 33868  | 5252   | 32289  |
| 65° | 27954  | 4657   | 27642  |
| 70° | 22648  | 4215   | 22648  |
| 75° | 16733  | 4554   | 17750  |
| 80° | 9818   | 3788   | 10576  |
| 85° | 7548   | 4529   | 7548   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 448.1  | 9.4       |
| 10°-20°   | 1176.0 | 24.5      |
| 20°-30°   | 1342.3 | 28.0      |
| 30°-40°   | 890.2  | 18.6      |
| 40°-50°   | 429.4  | 9.0       |
| 50°-60°   | 264.1  | 5.5       |
| 60°-70°   | 159.8  | 3.3       |
| 70°-80°   | 67.2   | 1.4       |
| 80°-90°   | 14.8   | 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°    | 2966.4 | 61.9      |
| 0°-40°    | 3856.6 | 80.5      |
| 0°-60°    | 4550.1 | 95.0      |
| 0°-90°    | 4792.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4792.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4707 | 4707 | 4707 | 4707 | 4707 |      |
| 5°  | 4738 | 4788 | 4810 | 4657 | 4664 | 445  |
| 15° | 4278 | 4278 | 4295 | 4113 | 4188 | 1192 |
| 25° | 3215 | 3108 | 2760 | 2921 | 2995 | 1458 |
| 35° | 1817 | 1602 | 855  | 1494 | 1597 | 1124 |
| 45° | 737  | 646  | 192  | 603  | 651  | 601  |
| 55° | 448  | 364  | 58   | 364  | 405  | 394  |
| 65° | 216  | 206  | 36   | 194  | 213  | 216  |
| 75° | 79   | 79   | 22   | 74   | 84   | 84   |
| 85° | 12   | 17   | 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°    | 4707.0 | 4707.0 | 4707.0 | 4707.0 | 4707.0 | 4707.0 | 4707.0 | 4707.0 | 4707.0 |
| 2.5°  | 4719.0 | 4726.2 | 4740.5 | 4742.9 | 4735.7 | 4690.2 | 4651.9 | 4666.3 | 4678.3 |
| 5°    | 4738.1 | 4752.5 | 4788.4 | 4821.9 | 4810.0 | 4733.3 | 4656.7 | 4654.3 | 4663.9 |
| 7.5°  | 4668.7 | 4702.2 | 4776.4 | 4860.2 | 4857.8 | 4726.2 | 4613.6 | 4584.9 | 4584.9 |
| 10°   | 4532.2 | 4563.4 | 4644.8 | 4757.3 | 4754.9 | 4589.7 | 4465.2 | 4450.8 | 4453.2 |
| 12.5° | 4410.1 | 4424.5 | 4465.2 | 4553.8 | 4553.8 | 4391.0 | 4295.2 | 4309.6 | 4328.7 |
| 15°   | 4278.4 | 4288.0 | 4278.4 | 4307.2 | 4295.2 | 4161.1 | 4113.2 | 4158.7 | 4187.5 |
| 17.5° | 4091.7 | 4096.5 | 4046.2 | 4007.9 | 3962.4 | 3878.6 | 3890.6 | 3957.6 | 3964.8 |
| 20°   | 3830.7 | 3861.9 | 3770.9 | 3672.7 | 3629.6 | 3550.6 | 3617.6 | 3691.9 | 3687.1 |
| 22.5° | 3543.4 | 3579.3 | 3462.0 | 3299.2 | 3210.6 | 3179.5 | 3299.2 | 3366.3 | 3363.9 |
| 25°   | 3215.4 | 3241.8 | 3107.7 | 2880.2 | 2760.5 | 2755.7 | 2920.9 | 2990.4 | 2995.2 |
| 27.5° | 2846.7 | 2856.3 | 2705.5 | 2408.6 | 2260.1 | 2296.0 | 2504.3 | 2600.1 | 2612.1 |
| 30°   | 2478.0 | 2473.2 | 2317.6 | 1948.9 | 1752.6 | 1850.7 | 2130.8 | 2236.2 | 2248.2 |
| 32.5° | 2140.4 | 2126.1 | 1948.9 | 1508.3 | 1273.7 | 1419.8 | 1788.5 | 1898.6 | 1917.8 |
| 35°   | 1817.2 | 1793.3 | 1601.7 | 1115.7 | 854.7  | 1072.6 | 1494.0 | 1589.8 | 1596.9 |
| 37.5° | 1479.6 | 1467.6 | 1316.8 | 835.6  | 596.2  | 814.0  | 1218.7 | 1288.1 | 1280.9 |
| 40°   | 1166.0 | 1166.0 | 1041.5 | 620.1  | 414.2  | 605.7  | 964.9  | 1027.1 | 1005.6 |
| 42.5° | 914.6  | 926.6  | 821.2  | 457.3  | 294.5  | 450.1  | 763.8  | 821.2  | 797.3  |
| 45°   | 737.4  | 737.4  | 646.4  | 340.0  | 191.5  | 335.2  | 603.3  | 656.0  | 651.2  |
| 47.5° | 624.9  | 615.3  | 524.3  | 249.0  | 105.3  | 251.4  | 507.6  | 572.2  | 569.8  |
| 50°   | 557.8  | 543.5  | 450.1  | 196.3  | 74.2   | 208.3  | 445.3  | 505.2  | 507.6  |
| 52.5° | 505.2  | 483.6  | 404.6  | 174.8  | 64.6   | 182.0  | 404.6  | 452.5  | 452.5  |
| 55°   | 447.7  | 435.7  | 363.9  | 155.6  | 57.5   | 162.8  | 363.9  | 407.0  | 404.6  |
| 57.5° | 378.3  | 375.9  | 325.6  | 141.3  | 52.7   | 143.7  | 325.6  | 351.9  | 342.4  |
| 60°   | 308.9  | 318.4  | 282.5  | 126.9  | 47.9   | 129.3  | 277.7  | 299.3  | 294.5  |
| 62.5° | 258.6  | 270.5  | 246.6  | 112.5  | 40.7   | 114.9  | 234.6  | 256.2  | 251.4  |
| 65°   | 215.5  | 225.1  | 205.9  | 95.8   | 35.9   | 95.8   | 193.9  | 213.1  | 213.1  |
| 67.5° | 177.2  | 184.4  | 170.0  | 79.0   | 31.1   | 79.0   | 158.0  | 174.8  | 177.2  |
| 70°   | 141.3  | 146.0  | 134.1  | 62.2   | 26.3   | 64.6   | 124.5  | 141.3  | 141.3  |
| 72.5° | 110.1  | 112.5  | 105.3  | 50.3   | 23.9   | 50.3   | 95.8   | 110.1  | 110.1  |
| 75°   | 79.0   | 83.8   | 79.0   | 38.3   | 21.5   | 38.3   | 74.2   | 81.4   | 83.8   |
| 77.5° | 45.5   | 57.5   | 57.5   | 31.1   | 16.8   | 28.7   | 52.7   | 55.1   | 55.1   |
| 80°   | 31.1   | 35.9   | 40.7   | 21.5   | 12.0   | 21.5   | 33.5   | 35.9   | 33.5   |
| 82.5° | 21.5   | 23.9   | 23.9   | 14.4   | 9.6    | 14.4   | 21.5   | 23.9   | 21.5   |
| 85°   | 12.0   | 16.8   | 16.8   | 12.0   | 7.2    | 9.6    | 12.0   | 14.4   | 12.0   |
| 87.5° | 7.2    | 9.6    | 12.0   | 9.6    | 7.2    | 7.2    | 7.2    | 7.2    | 4.8    |
| 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)