

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: P799795

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509030 6LBMDSWWMH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

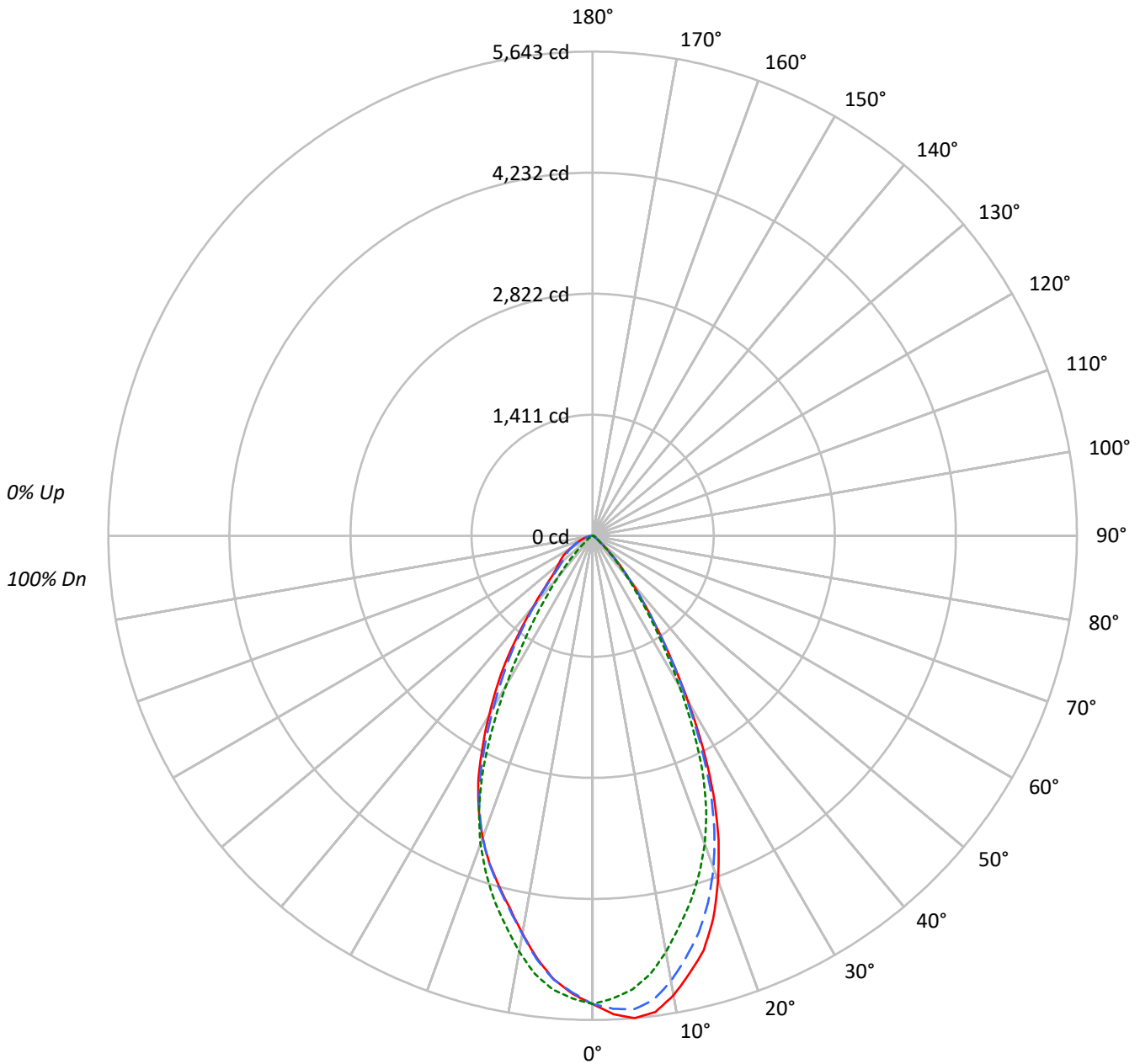
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4698.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V): NR  
Input Current (Ain): 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 |    |    |    | 100 |  |  |  |   |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 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  | 87  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 73  |    |    |    | 73  |  |  |  |   |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |    | 67  |  |  |  |   |
| 6   | 86  | 77  | 70  | 66  | 84  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 71  | 67  | 64  | 63  |    |    |    | 63  |  |  |  |   |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  |    |    |    | 59  |  |  |  |   |
| 8   | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |    |    |    | 55  |  |  |  |   |
| 9   | 74  | 64  | 58  | 54  | 73  | 63  | 58  | 54  | 62  | 57  | 53  | 61  | 57  | 53  | 61  | 56  | 53  | 52  |    |    |    | 52  |  |  |  |   |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 58  | 53  | 50  | 49  |    |    |    | 49  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 299137 | 299137 | 299137 |
| 5°  | 310510 | 292119 | 285510 |
| 10° | 302572 | 274004 | 261947 |
| 15° | 283770 | 250370 | 239547 |
| 20° | 249117 | 222888 | 218629 |
| 25° | 201483 | 183113 | 190662 |
| 30° | 140072 | 127558 | 152587 |
| 35° | 86331  | 78139  | 115161 |
| 40° | 48856  | 43803  | 76479  |
| 45° | 23723  | 22630  | 52199  |
| 50° | 9032   | 9032   | 44365  |
| 55° | 4951   | 5849   | 40945  |
| 60° | 3618   | 4649   | 33550  |
| 65° | 3048   | 3969   | 27487  |
| 70° | 2645   | 3398   | 22632  |
| 75° | 2499   | 3495   | 19444  |
| 80° | 1484   | 2968   | 14112  |
| 85° | 1510   | 5913   | 13335  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 499.5  | 10.6      |
| 10°-20°   | 1255.5 | 26.7      |
| 20°-30°   | 1413.4 | 30.1      |
| 30°-40°   | 875.2  | 18.6      |
| 40°-50°   | 348.5  | 7.4       |
| 50°-60°   | 158.7  | 3.4       |
| 60°-70°   | 91.2   | 1.9       |
| 70°-80°   | 43.3   | 0.9       |
| 80°-90°   | 12.6   | 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°    | 3168.5 | 67.4      |
| 0°-40°    | 4043.6 | 86.1      |
| 0°-60°    | 4550.8 | 96.9      |
| 0°-90°    | 4698.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4698.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5457 | 5457 | 5457 | 5457 | 5457 |      |
| 5°  | 5643 | 5539 | 5308 | 5193 | 5188 | 531  |
| 15° | 5000 | 4783 | 4412 | 4233 | 4221 | 1383 |
| 25° | 3331 | 3242 | 3027 | 3103 | 3152 | 1497 |
| 35° | 1290 | 1283 | 1168 | 1627 | 1721 | 829  |
| 45° | 306  | 306  | 292  | 636  | 673  | 259  |
| 55° | 52   | 49   | 61   | 377  | 428  | 51   |
| 65° | 24   | 21   | 31   | 210  | 212  | 23   |
| 75° | 12   | 12   | 16   | 90   | 92   | 12   |
| 85° | 2    | 2    | 9    | 21   | 21   | 2    |
| 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°    | 5456.7 | 5456.7 | 5456.7 | 5456.7 | 5456.7 | 5456.7 | 5456.7 | 5456.7 | 5456.7 |
| 2.5°  | 5581.4 | 5529.6 | 5517.9 | 5473.1 | 5397.8 | 5355.4 | 5329.5 | 5310.7 | 5343.7 |
| 5°    | 5642.6 | 5586.1 | 5539.1 | 5447.3 | 5308.4 | 5230.7 | 5193.0 | 5162.4 | 5188.3 |
| 7.5°  | 5597.9 | 5517.9 | 5454.3 | 5327.2 | 5150.6 | 5030.6 | 4978.8 | 4943.5 | 4967.0 |
| 10°   | 5435.5 | 5339.0 | 5266.0 | 5115.3 | 4922.3 | 4778.7 | 4715.1 | 4682.2 | 4705.7 |
| 12.5° | 5223.6 | 5143.6 | 5032.9 | 4868.2 | 4661.0 | 4510.3 | 4463.3 | 4437.4 | 4446.8 |
| 15°   | 5000.0 | 4905.8 | 4783.4 | 4618.6 | 4411.5 | 4260.8 | 4232.6 | 4216.1 | 4220.8 |
| 17.5° | 4675.1 | 4583.3 | 4477.4 | 4317.3 | 4126.6 | 4004.2 | 4004.2 | 3992.5 | 3999.5 |
| 20°   | 4270.2 | 4220.8 | 4117.2 | 3983.0 | 3820.6 | 3710.0 | 3745.3 | 3733.5 | 3747.6 |
| 22.5° | 3832.4 | 3794.7 | 3705.3 | 3594.6 | 3458.1 | 3371.0 | 3448.7 | 3446.3 | 3465.1 |
| 25°   | 3331.0 | 3302.7 | 3241.5 | 3147.4 | 3027.3 | 2973.2 | 3102.6 | 3102.6 | 3152.1 |
| 27.5° | 2777.8 | 2749.5 | 2707.1 | 2627.1 | 2528.2 | 2511.8 | 2702.4 | 2726.0 | 2780.1 |
| 30°   | 2212.8 | 2194.0 | 2170.4 | 2097.5 | 2015.1 | 2045.7 | 2309.3 | 2349.3 | 2410.5 |
| 32.5° | 1709.0 | 1697.3 | 1690.2 | 1624.3 | 1551.3 | 1652.5 | 1953.9 | 2005.6 | 2066.8 |
| 35°   | 1290.0 | 1264.1 | 1283.0 | 1233.5 | 1167.6 | 1294.7 | 1626.6 | 1671.4 | 1720.8 |
| 37.5° | 951.0  | 932.2  | 948.7  | 913.4  | 854.5  | 993.4  | 1306.5 | 1334.7 | 1367.7 |
| 40°   | 682.7  | 666.2  | 680.3  | 659.1  | 612.1  | 741.5  | 1024.0 | 1054.6 | 1068.7 |
| 42.5° | 484.9  | 456.7  | 470.8  | 454.3  | 430.8  | 557.9  | 805.1  | 833.3  | 838.0  |
| 45°   | 306.0  | 296.6  | 306.0  | 296.6  | 291.9  | 414.3  | 635.6  | 661.5  | 673.3  |
| 47.5° | 186.0  | 174.2  | 174.2  | 169.5  | 174.2  | 306.0  | 525.0  | 562.6  | 581.4  |
| 50°   | 105.9  | 101.2  | 98.9   | 96.5   | 105.9  | 240.1  | 454.3  | 496.7  | 520.2  |
| 52.5° | 70.6   | 68.3   | 68.3   | 65.9   | 77.7   | 202.4  | 409.6  | 447.3  | 470.8  |
| 55°   | 51.8   | 49.4   | 49.4   | 49.4   | 61.2   | 174.2  | 376.6  | 407.2  | 428.4  |
| 57.5° | 40.0   | 40.0   | 40.0   | 37.7   | 51.8   | 148.3  | 336.6  | 353.1  | 369.6  |
| 60°   | 33.0   | 30.6   | 30.6   | 30.6   | 42.4   | 127.1  | 289.5  | 296.6  | 306.0  |
| 62.5° | 25.9   | 25.9   | 25.9   | 25.9   | 35.3   | 113.0  | 249.5  | 249.5  | 254.2  |
| 65°   | 23.5   | 21.2   | 21.2   | 21.2   | 30.6   | 98.9   | 209.5  | 207.2  | 211.9  |
| 67.5° | 18.8   | 18.8   | 18.8   | 18.8   | 25.9   | 84.7   | 171.8  | 169.5  | 174.2  |
| 70°   | 16.5   | 16.5   | 16.5   | 16.5   | 21.2   | 70.6   | 138.9  | 136.5  | 141.2  |
| 72.5° | 14.1   | 14.1   | 14.1   | 14.1   | 18.8   | 58.9   | 110.6  | 110.6  | 113.0  |
| 75°   | 11.8   | 11.8   | 11.8   | 11.8   | 16.5   | 44.7   | 89.5   | 89.5   | 91.8   |
| 77.5° | 9.4    | 9.4    | 9.4    | 9.4    | 11.8   | 35.3   | 68.3   | 65.9   | 65.9   |
| 80°   | 4.7    | 7.1    | 7.1    | 7.1    | 9.4    | 25.9   | 49.4   | 44.7   | 44.7   |
| 82.5° | 2.4    | 4.7    | 4.7    | 4.7    | 9.4    | 18.8   | 33.0   | 30.6   | 30.6   |
| 85°   | 2.4    | 2.4    | 2.4    | 7.1    | 9.4    | 14.1   | 21.2   | 21.2   | 21.2   |
| 87.5° | 0.0    | 2.4    | 4.7    | 9.4    | 11.8   | 11.8   | 14.1   | 11.8   | 11.8   |
| 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)