

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: P799559

Luminaire Tested: **LD6C30D010 EU6309035 6LBMDDWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799559  
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: LD6C30D010 EU6309035 6LBMDDWMW  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

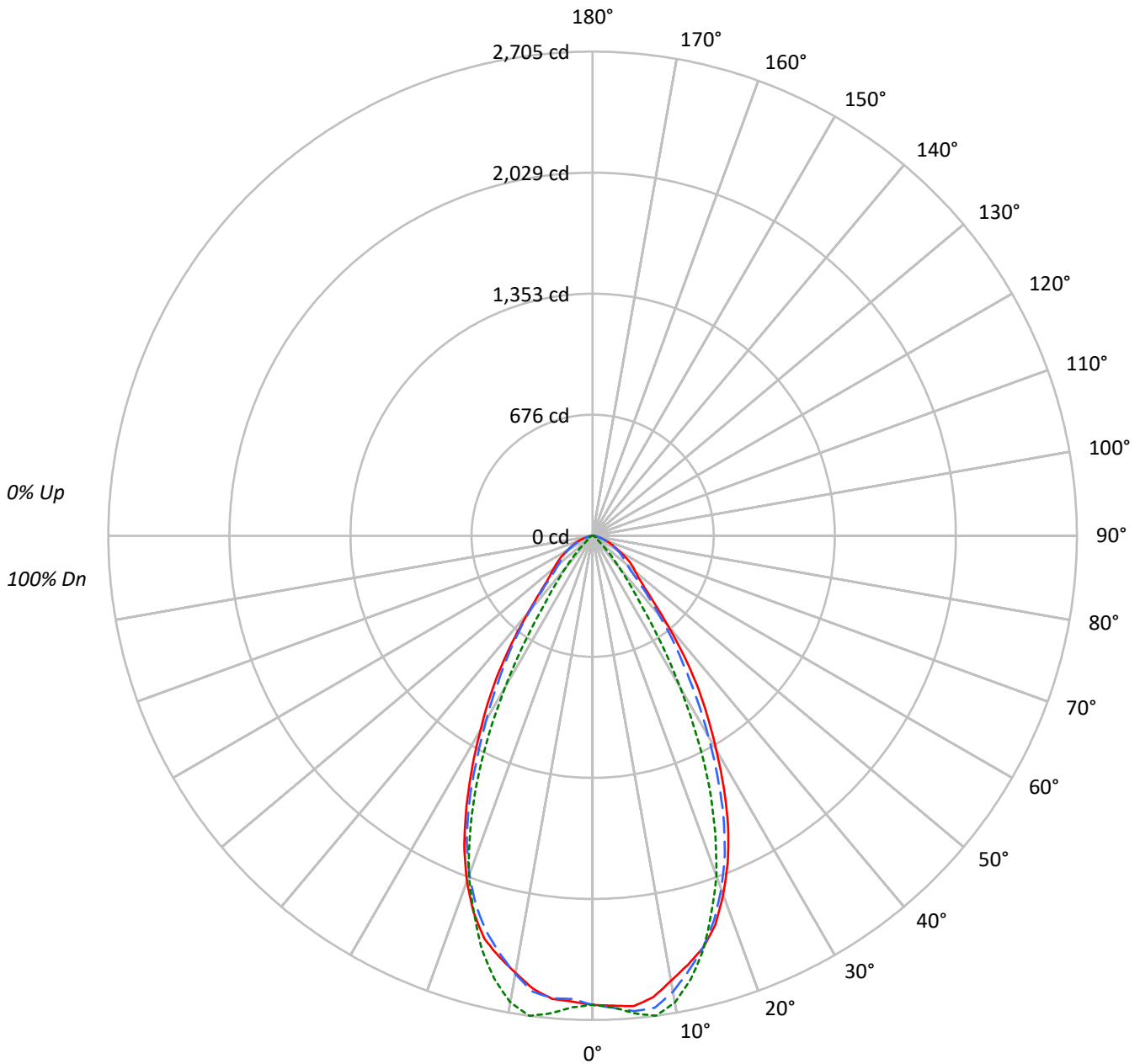
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2668.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 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): 31.6  
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°  | 143667 | 143667 | 143667 |
| 5°  | 145168 | 147369 | 142895 |
| 10° | 140467 | 147364 | 138018 |
| 15° | 135194 | 135722 | 132316 |
| 20° | 124424 | 117890 | 119757 |
| 25° | 108284 | 92969  | 100869 |
| 30° | 87336  | 61769  | 79234  |
| 35° | 67706  | 31849  | 59501  |
| 40° | 46458  | 16502  | 40068  |
| 45° | 31833  | 8264   | 28111  |
| 50° | 26490  | 3522   | 24102  |
| 55° | 23827  | 3058   | 21533  |
| 60° | 18858  | 2927   | 17981  |
| 65° | 15566  | 2594   | 15384  |
| 70° | 12598  | 2356   | 12598  |
| 75° | 9320   | 2542   | 9891   |
| 80° | 5462   | 2115   | 5904   |
| 85° | 4214   | 2516   | 4214   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 249.5  | 9.4       |
| 10°-20°   | 654.8  | 24.5      |
| 20°-30°   | 747.4  | 28.0      |
| 30°-40°   | 495.6  | 18.6      |
| 40°-50°   | 239.1  | 9.0       |
| 50°-60°   | 147.1  | 5.5       |
| 60°-70°   | 89.0   | 3.3       |
| 70°-80°   | 37.4   | 1.4       |
| 80°-90°   | 8.3    | 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°    | 1651.6 | 61.9      |
| 0°-40°    | 2147.2 | 80.5      |
| 0°-60°    | 2533.3 | 95.0      |
| 0°-90°    | 2668.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2668.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2621 | 2621 | 2621 | 2621 | 2621 |      |
| 5°  | 2638 | 2666 | 2678 | 2593 | 2597 | 248  |
| 15° | 2382 | 2382 | 2391 | 2290 | 2331 | 664  |
| 25° | 1790 | 1730 | 1537 | 1626 | 1668 | 812  |
| 35° | 1012 | 892  | 476  | 832  | 889  | 626  |
| 45° | 411  | 360  | 107  | 336  | 363  | 335  |
| 55° | 249  | 203  | 32   | 203  | 225  | 219  |
| 65° | 120  | 115  | 20   | 108  | 119  | 120  |
| 75° | 44   | 44   | 12   | 41   | 47   | 47   |
| 85° | 7    | 9    | 4    | 7    | 7    | 9    |
| 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°    | 2620.7 | 2620.7 | 2620.7 | 2620.7 | 2620.7 | 2620.7 | 2620.7 | 2620.7 | 2620.7 |
| 2.5°  | 2627.3 | 2631.3 | 2639.3 | 2640.7 | 2636.7 | 2611.3 | 2590.0 | 2598.0 | 2604.7 |
| 5°    | 2638.0 | 2646.0 | 2666.0 | 2684.7 | 2678.0 | 2635.3 | 2592.7 | 2591.4 | 2596.7 |
| 7.5°  | 2599.4 | 2618.0 | 2659.3 | 2706.0 | 2704.7 | 2631.3 | 2568.7 | 2552.7 | 2552.7 |
| 10°   | 2523.4 | 2540.7 | 2586.0 | 2648.7 | 2647.3 | 2555.4 | 2486.0 | 2478.0 | 2479.4 |
| 12.5° | 2455.4 | 2463.4 | 2486.0 | 2535.4 | 2535.4 | 2444.7 | 2391.4 | 2399.4 | 2410.1 |
| 15°   | 2382.1 | 2387.4 | 2382.1 | 2398.1 | 2391.4 | 2316.8 | 2290.1 | 2315.4 | 2331.4 |
| 17.5° | 2278.1 | 2280.8 | 2252.8 | 2231.4 | 2206.1 | 2159.5 | 2166.1 | 2203.5 | 2207.4 |
| 20°   | 2132.8 | 2150.1 | 2099.5 | 2044.8 | 2020.8 | 1976.8 | 2014.2 | 2055.5 | 2052.8 |
| 22.5° | 1972.8 | 1992.8 | 1927.5 | 1836.9 | 1787.6 | 1770.2 | 1836.9 | 1874.2 | 1872.9 |
| 25°   | 1790.2 | 1804.9 | 1730.2 | 1603.6 | 1537.0 | 1534.3 | 1626.3 | 1664.9 | 1667.6 |
| 27.5° | 1584.9 | 1590.3 | 1506.3 | 1341.0 | 1258.4 | 1278.3 | 1394.3 | 1447.6 | 1454.3 |
| 30°   | 1379.7 | 1377.0 | 1290.3 | 1085.1 | 975.8  | 1030.4 | 1186.4 | 1245.0 | 1251.7 |
| 32.5° | 1191.7 | 1183.7 | 1085.1 | 839.8  | 709.2  | 790.5  | 995.8  | 1057.1 | 1067.7 |
| 35°   | 1011.7 | 998.4  | 891.8  | 621.2  | 475.9  | 597.2  | 831.8  | 885.1  | 889.1  |
| 37.5° | 823.8  | 817.1  | 733.2  | 465.2  | 331.9  | 453.2  | 678.5  | 717.2  | 713.2  |
| 40°   | 649.2  | 649.2  | 579.9  | 345.2  | 230.6  | 337.2  | 537.2  | 571.9  | 559.9  |
| 42.5° | 509.2  | 515.9  | 457.2  | 254.6  | 164.0  | 250.6  | 425.2  | 457.2  | 443.9  |
| 45°   | 410.6  | 410.6  | 359.9  | 189.3  | 106.6  | 186.6  | 335.9  | 365.2  | 362.6  |
| 47.5° | 347.9  | 342.6  | 291.9  | 138.6  | 58.7   | 140.0  | 282.6  | 318.6  | 317.3  |
| 50°   | 310.6  | 302.6  | 250.6  | 109.3  | 41.3   | 116.0  | 247.9  | 281.3  | 282.6  |
| 52.5° | 281.3  | 269.3  | 225.3  | 97.3   | 36.0   | 101.3  | 225.3  | 251.9  | 251.9  |
| 55°   | 249.3  | 242.6  | 202.6  | 86.6   | 32.0   | 90.6   | 202.6  | 226.6  | 225.3  |
| 57.5° | 210.6  | 209.3  | 181.3  | 78.6   | 29.3   | 80.0   | 181.3  | 196.0  | 190.6  |
| 60°   | 172.0  | 177.3  | 157.3  | 70.6   | 26.7   | 72.0   | 154.6  | 166.6  | 164.0  |
| 62.5° | 144.0  | 150.6  | 137.3  | 62.7   | 22.7   | 64.0   | 130.6  | 142.6  | 140.0  |
| 65°   | 120.0  | 125.3  | 114.6  | 53.3   | 20.0   | 53.3   | 108.0  | 118.6  | 118.6  |
| 67.5° | 98.6   | 102.6  | 94.6   | 44.0   | 17.3   | 44.0   | 88.0   | 97.3   | 98.6   |
| 70°   | 78.6   | 81.3   | 74.6   | 34.7   | 14.7   | 36.0   | 69.3   | 78.6   | 78.6   |
| 72.5° | 61.3   | 62.7   | 58.7   | 28.0   | 13.3   | 28.0   | 53.3   | 61.3   | 61.3   |
| 75°   | 44.0   | 46.7   | 44.0   | 21.3   | 12.0   | 21.3   | 41.3   | 45.3   | 46.7   |
| 77.5° | 25.3   | 32.0   | 32.0   | 17.3   | 9.3    | 16.0   | 29.3   | 30.7   | 30.7   |
| 80°   | 17.3   | 20.0   | 22.7   | 12.0   | 6.7    | 12.0   | 18.7   | 20.0   | 18.7   |
| 82.5° | 12.0   | 13.3   | 13.3   | 8.0    | 5.3    | 8.0    | 12.0   | 13.3   | 12.0   |
| 85°   | 6.7    | 9.3    | 9.3    | 6.7    | 4.0    | 5.3    | 6.7    | 8.0    | 6.7    |
| 87.5° | 4.0    | 5.3    | 6.7    | 5.3    | 4.0    | 4.0    | 4.0    | 4.0    | 2.7    |
| 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)