

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: P799641

Luminaire Tested: **LD6C35D010 EU6359050 6LBMDDWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799641  
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: LD6C35D010 EU6359050 6LBMDDWH  
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

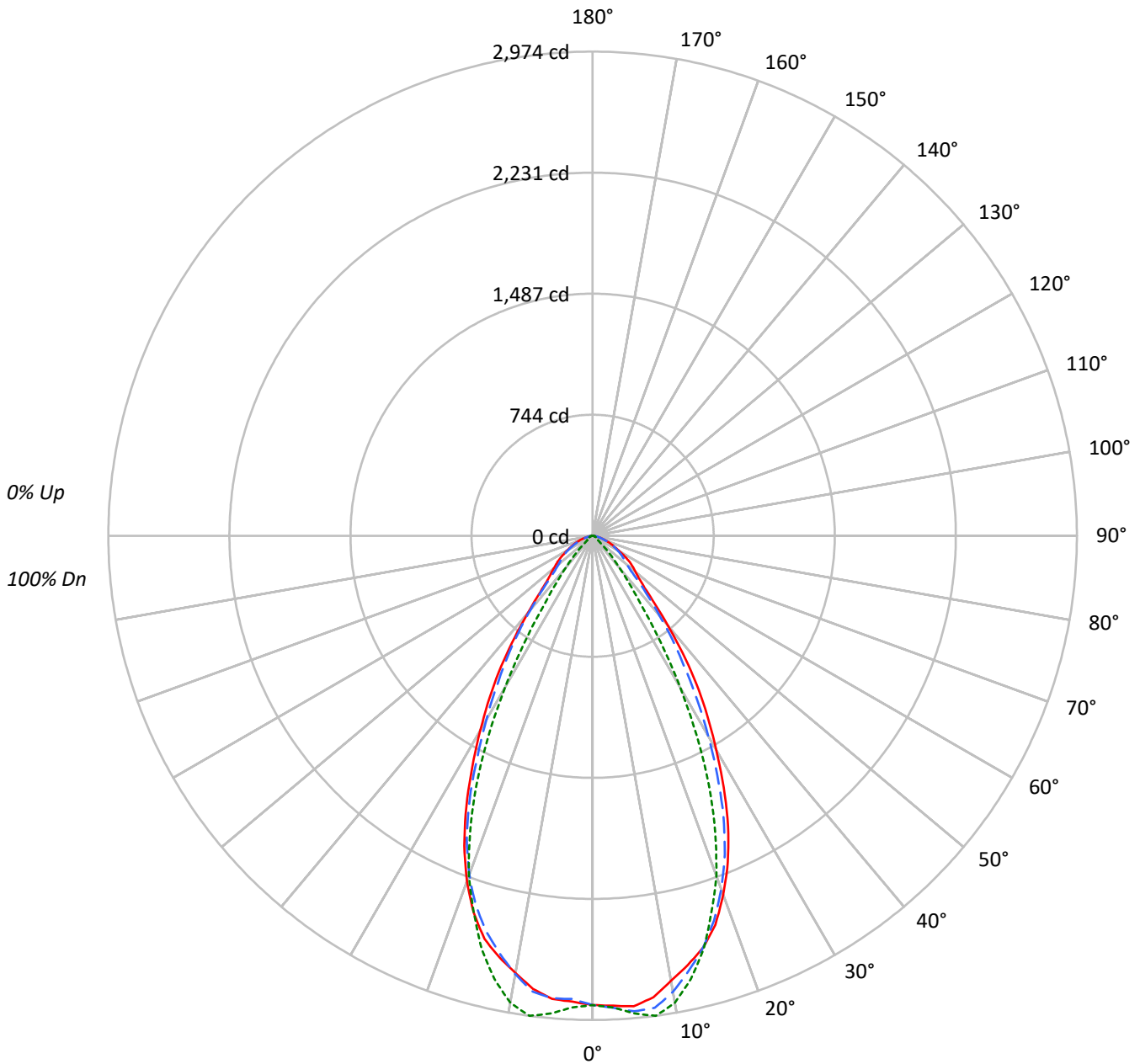
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2934.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 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): 40.4  
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°  | 157992 | 157992 | 157992 |
| 5°  | 159641 | 162062 | 157142 |
| 10° | 154473 | 162060 | 151779 |
| 15° | 148673 | 149252 | 145512 |
| 20° | 136827 | 129645 | 131699 |
| 25° | 119081 | 102236 | 110922 |
| 30° | 96040  | 67922  | 87134  |
| 35° | 74459  | 35021  | 65437  |
| 40° | 51089  | 18148  | 44061  |
| 45° | 35004  | 9094   | 30910  |
| 50° | 29133  | 3872   | 26507  |
| 55° | 26197  | 3364   | 23674  |
| 60° | 20733  | 3212   | 19768  |
| 65° | 17109  | 2854   | 16928  |
| 70° | 13865  | 2581   | 13865  |
| 75° | 10252  | 2796   | 10866  |
| 80° | 6030   | 2305   | 6472   |
| 85° | 4592   | 2768   | 4592   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 274.3  | 9.4       |
| 10°-20°   | 720.0  | 24.5      |
| 20°-30°   | 821.9  | 28.0      |
| 30°-40°   | 545.0  | 18.6      |
| 40°-50°   | 262.9  | 9.0       |
| 50°-60°   | 161.7  | 5.5       |
| 60°-70°   | 97.9   | 3.3       |
| 70°-80°   | 41.2   | 1.4       |
| 80°-90°   | 9.1    | 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°    | 1816.2 | 61.9      |
| 0°-40°    | 2361.3 | 80.5      |
| 0°-60°    | 2785.9 | 95.0      |
| 0°-90°    | 2934.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2934.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2882 | 2882 | 2882 | 2882 | 2882 |      |
| 5°  | 2901 | 2932 | 2945 | 2851 | 2856 | 273  |
| 15° | 2620 | 2620 | 2630 | 2518 | 2564 | 730  |
| 25° | 1969 | 1903 | 1690 | 1788 | 1834 | 893  |
| 35° | 1113 | 981  | 523  | 915  | 978  | 688  |
| 45° | 452  | 396  | 117  | 369  | 399  | 368  |
| 55° | 274  | 223  | 35   | 223  | 248  | 241  |
| 65° | 132  | 126  | 22   | 119  | 130  | 132  |
| 75° | 48   | 48   | 13   | 45   | 51   | 52   |
| 85° | 7    | 10   | 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°    | 2882.0 | 2882.0 | 2882.0 | 2882.0 | 2882.0 | 2882.0 | 2882.0 | 2882.0 | 2882.0 |
| 2.5°  | 2889.3 | 2893.7 | 2902.5 | 2904.0 | 2899.6 | 2871.7 | 2848.2 | 2857.0 | 2864.4 |
| 5°    | 2901.0 | 2909.8 | 2931.8 | 2952.3 | 2945.0 | 2898.1 | 2851.2 | 2849.7 | 2855.6 |
| 7.5°  | 2858.5 | 2879.0 | 2924.5 | 2975.8 | 2974.3 | 2893.7 | 2824.8 | 2807.2 | 2807.2 |
| 10°   | 2775.0 | 2794.0 | 2843.8 | 2912.7 | 2911.3 | 2810.1 | 2733.9 | 2725.1 | 2726.6 |
| 12.5° | 2700.2 | 2709.0 | 2733.9 | 2788.1 | 2788.1 | 2688.5 | 2629.8 | 2638.6 | 2650.4 |
| 15°   | 2619.6 | 2625.4 | 2619.6 | 2637.2 | 2629.8 | 2547.7 | 2518.4 | 2546.3 | 2563.9 |
| 17.5° | 2505.2 | 2508.2 | 2477.4 | 2453.9 | 2426.1 | 2374.8 | 2382.1 | 2423.1 | 2427.5 |
| 20°   | 2345.4 | 2364.5 | 2308.8 | 2248.7 | 2222.3 | 2173.9 | 2215.0 | 2260.4 | 2257.5 |
| 22.5° | 2169.5 | 2191.5 | 2119.7 | 2020.0 | 1965.8 | 1946.7 | 2020.0 | 2061.1 | 2059.6 |
| 25°   | 1968.7 | 1984.8 | 1902.7 | 1763.5 | 1690.2 | 1687.3 | 1788.4 | 1830.9 | 1833.8 |
| 27.5° | 1743.0 | 1748.8 | 1656.5 | 1474.7 | 1383.8 | 1405.8 | 1533.3 | 1592.0 | 1599.3 |
| 30°   | 1517.2 | 1514.3 | 1419.0 | 1193.2 | 1073.0 | 1133.1 | 1304.7 | 1369.2 | 1376.5 |
| 32.5° | 1310.5 | 1301.7 | 1193.2 | 923.5  | 779.9  | 869.3  | 1095.0 | 1162.5 | 1174.2 |
| 35°   | 1112.6 | 1098.0 | 980.7  | 683.1  | 523.3  | 656.7  | 914.7  | 973.4  | 977.8  |
| 37.5° | 905.9  | 898.6  | 806.2  | 511.6  | 365.0  | 498.4  | 746.1  | 788.7  | 784.3  |
| 40°   | 713.9  | 713.9  | 637.7  | 379.7  | 253.6  | 370.9  | 590.8  | 628.9  | 615.7  |
| 42.5° | 560.0  | 567.3  | 502.8  | 280.0  | 180.3  | 275.6  | 467.6  | 502.8  | 488.1  |
| 45°   | 451.5  | 451.5  | 395.8  | 208.2  | 117.3  | 205.2  | 369.4  | 401.7  | 398.7  |
| 47.5° | 382.6  | 376.7  | 321.0  | 152.5  | 64.5   | 153.9  | 310.8  | 350.4  | 348.9  |
| 50°   | 341.6  | 332.8  | 275.6  | 120.2  | 45.4   | 127.5  | 272.7  | 309.3  | 310.8  |
| 52.5° | 309.3  | 296.1  | 247.7  | 107.0  | 39.6   | 111.4  | 247.7  | 277.1  | 277.1  |
| 55°   | 274.1  | 266.8  | 222.8  | 95.3   | 35.2   | 99.7   | 222.8  | 249.2  | 247.7  |
| 57.5° | 231.6  | 230.1  | 199.4  | 86.5   | 32.2   | 88.0   | 199.4  | 215.5  | 209.6  |
| 60°   | 189.1  | 195.0  | 173.0  | 77.7   | 29.3   | 79.2   | 170.0  | 183.2  | 180.3  |
| 62.5° | 158.3  | 165.6  | 151.0  | 68.9   | 24.9   | 70.4   | 143.7  | 156.9  | 153.9  |
| 65°   | 131.9  | 137.8  | 126.1  | 58.6   | 22.0   | 58.6   | 118.7  | 130.5  | 130.5  |
| 67.5° | 108.5  | 112.9  | 104.1  | 48.4   | 19.1   | 48.4   | 96.7   | 107.0  | 108.5  |
| 70°   | 86.5   | 89.4   | 82.1   | 38.1   | 16.1   | 39.6   | 76.2   | 86.5   | 86.5   |
| 72.5° | 67.4   | 68.9   | 64.5   | 30.8   | 14.7   | 30.8   | 58.6   | 67.4   | 67.4   |
| 75°   | 48.4   | 51.3   | 48.4   | 23.5   | 13.2   | 23.5   | 45.4   | 49.8   | 51.3   |
| 77.5° | 27.9   | 35.2   | 35.2   | 19.1   | 10.3   | 17.6   | 32.2   | 33.7   | 33.7   |
| 80°   | 19.1   | 22.0   | 24.9   | 13.2   | 7.3    | 13.2   | 20.5   | 22.0   | 20.5   |
| 82.5° | 13.2   | 14.7   | 14.7   | 8.8    | 5.9    | 8.8    | 13.2   | 14.7   | 13.2   |
| 85°   | 7.3    | 10.3   | 10.3   | 7.3    | 4.4    | 5.9    | 7.3    | 8.8    | 7.3    |
| 87.5° | 4.4    | 5.9    | 7.3    | 5.9    | 4.4    | 4.4    | 4.4    | 4.4    | 2.9    |
| 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)