

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: P799563

Luminaire Tested: **LD6C30D010 EU6309035 6LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799563  
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: LD6C30D010 EU6309035 6LBMDSWH  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

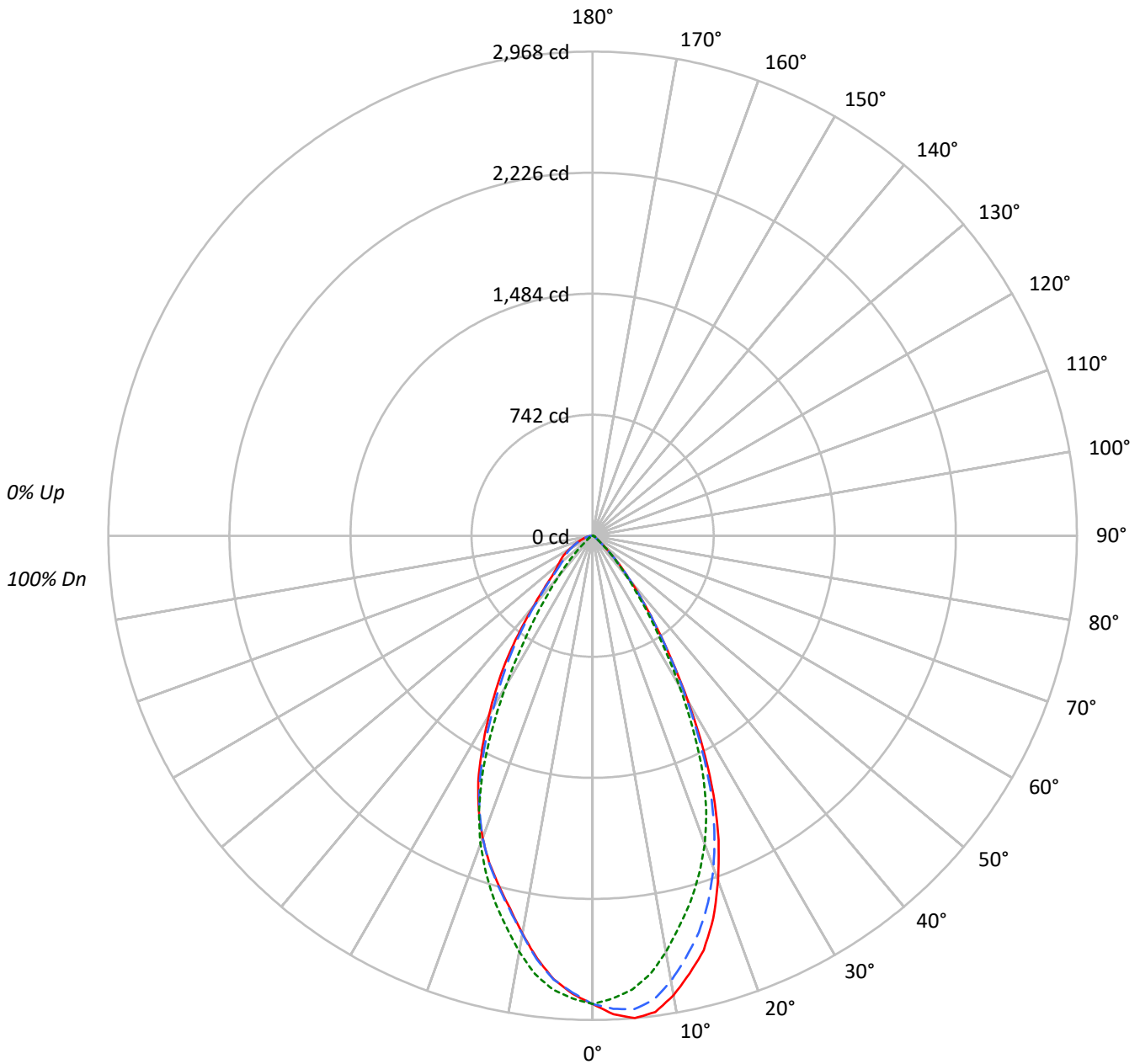
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2471.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 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): 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 | 100 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 85  | 83  | 80  | 78  | 78  | 78  | 78  |
| 4   | 96  | 88  | 82  | 77  | 94  | 87  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 73  | 73  | 73  | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  | 67  | 67  | 67  |
| 6   | 86  | 77  | 70  | 66  | 84  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 71  | 67  | 64  | 63  | 63  | 63  | 63  |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  | 59  | 59  | 59  |
| 8   | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  | 55  | 55  | 55  |
| 9   | 74  | 64  | 58  | 54  | 73  | 63  | 58  | 54  | 62  | 57  | 53  | 61  | 57  | 53  | 61  | 56  | 53  | 52  | 52  | 52  | 52  |
| 10  | 70  | 60  | 54  | 50  | 69  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 58  | 53  | 50  | 49  | 49  | 49  | 49  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 157334 | 157334 | 157334 |
| 5°  | 163317 | 153643 | 150170 |
| 10° | 159143 | 144119 | 137779 |
| 15° | 149252 | 131686 | 125994 |
| 20° | 131028 | 117231 | 114991 |
| 25° | 105974 | 96314  | 100282 |
| 30° | 73676  | 67093  | 80259  |
| 35° | 45407  | 41097  | 60572  |
| 40° | 25698  | 23036  | 40225  |
| 45° | 12482  | 11900  | 27452  |
| 50° | 4750   | 4750   | 23334  |
| 55° | 2600   | 3078   | 21533  |
| 60° | 1897   | 2445   | 17652  |
| 65° | 1608   | 2088   | 14450  |
| 70° | 1394   | 1779   | 11909  |
| 75° | 1313   | 1843   | 10230  |
| 80° | 789    | 1578   | 7419   |
| 85° | 755    | 3145   | 6982   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.7  | 10.6      |
| 10°-20°   | 660.4  | 26.7      |
| 20°-30°   | 743.4  | 30.1      |
| 30°-40°   | 460.3  | 18.6      |
| 40°-50°   | 183.3  | 7.4       |
| 50°-60°   | 83.4   | 3.4       |
| 60°-70°   | 48.0   | 1.9       |
| 70°-80°   | 22.8   | 0.9       |
| 80°-90°   | 6.6    | 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°    | 1666.5 | 67.4      |
| 0°-40°    | 2126.8 | 86.1      |
| 0°-60°    | 2393.6 | 96.9      |
| 0°-90°    | 2471.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2471.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2870 | 2870 | 2870 | 2870 | 2870 |      |
| 5°  | 2968 | 2913 | 2792 | 2731 | 2729 | 280  |
| 15° | 2630 | 2516 | 2320 | 2226 | 2220 | 728  |
| 25° | 1752 | 1705 | 1592 | 1632 | 1658 | 788  |
| 35° | 678  | 675  | 614  | 856  | 905  | 436  |
| 45° | 161  | 161  | 154  | 334  | 354  | 136  |
| 55° | 27   | 26   | 32   | 198  | 225  | 27   |
| 65° | 12   | 11   | 16   | 110  | 111  | 12   |
| 75° | 6    | 6    | 9    | 47   | 48   | 6    |
| 85° | 1    | 1    | 5    | 11   | 11   | 1    |
| 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°    | 2870.0 | 2870.0 | 2870.0 | 2870.0 | 2870.0 | 2870.0 | 2870.0 | 2870.0 | 2870.0 |
| 2.5°  | 2935.7 | 2908.4 | 2902.2 | 2878.7 | 2839.1 | 2816.8 | 2803.2 | 2793.3 | 2810.6 |
| 5°    | 2967.8 | 2938.1 | 2913.4 | 2865.1 | 2792.0 | 2751.2 | 2731.4 | 2715.3 | 2728.9 |
| 7.5°  | 2944.3 | 2902.2 | 2868.8 | 2801.9 | 2709.1 | 2645.9 | 2618.7 | 2600.1 | 2612.5 |
| 10°   | 2858.9 | 2808.1 | 2769.7 | 2690.5 | 2589.0 | 2513.4 | 2480.0 | 2462.7 | 2475.1 |
| 12.5° | 2747.5 | 2705.4 | 2647.2 | 2560.5 | 2451.5 | 2372.3 | 2347.5 | 2333.9 | 2338.9 |
| 15°   | 2629.8 | 2580.3 | 2515.9 | 2429.3 | 2320.3 | 2241.1 | 2226.2 | 2217.5 | 2220.0 |
| 17.5° | 2459.0 | 2410.7 | 2355.0 | 2270.8 | 2170.5 | 2106.1 | 2106.1 | 2099.9 | 2103.6 |
| 20°   | 2246.0 | 2220.0 | 2165.5 | 2095.0 | 2009.5 | 1951.3 | 1969.9 | 1963.7 | 1971.1 |
| 22.5° | 2015.7 | 1995.9 | 1948.9 | 1890.7 | 1818.8 | 1773.0 | 1813.9 | 1812.7 | 1822.6 |
| 25°   | 1752.0 | 1737.1 | 1704.9 | 1655.4 | 1592.3 | 1563.8 | 1631.9 | 1631.9 | 1657.9 |
| 27.5° | 1461.0 | 1446.2 | 1423.9 | 1381.8 | 1329.8 | 1321.1 | 1421.4 | 1433.8 | 1462.3 |
| 30°   | 1163.9 | 1154.0 | 1141.6 | 1103.2 | 1059.9 | 1076.0 | 1214.6 | 1235.7 | 1267.9 |
| 32.5° | 898.9  | 892.7  | 889.0  | 854.3  | 815.9  | 869.2  | 1027.7 | 1054.9 | 1087.1 |
| 35°   | 678.5  | 664.9  | 674.8  | 648.8  | 614.1  | 681.0  | 855.6  | 879.1  | 905.1  |
| 37.5° | 500.2  | 490.3  | 499.0  | 480.4  | 449.4  | 522.5  | 687.2  | 702.0  | 719.4  |
| 40°   | 359.1  | 350.4  | 357.8  | 346.7  | 321.9  | 390.0  | 538.6  | 554.7  | 562.1  |
| 42.5° | 255.1  | 240.2  | 247.6  | 239.0  | 226.6  | 293.4  | 423.4  | 438.3  | 440.8  |
| 45°   | 161.0  | 156.0  | 161.0  | 156.0  | 153.5  | 217.9  | 334.3  | 347.9  | 354.1  |
| 47.5° | 97.8   | 91.6   | 91.6   | 89.1   | 91.6   | 161.0  | 276.1  | 295.9  | 305.8  |
| 50°   | 55.7   | 53.2   | 52.0   | 50.8   | 55.7   | 126.3  | 239.0  | 261.2  | 273.6  |
| 52.5° | 37.1   | 35.9   | 35.9   | 34.7   | 40.9   | 106.5  | 215.4  | 235.2  | 247.6  |
| 55°   | 27.2   | 26.0   | 26.0   | 26.0   | 32.2   | 91.6   | 198.1  | 214.2  | 225.3  |
| 57.5° | 21.0   | 21.0   | 21.0   | 19.8   | 27.2   | 78.0   | 177.1  | 185.7  | 194.4  |
| 60°   | 17.3   | 16.1   | 16.1   | 16.1   | 22.3   | 66.9   | 152.3  | 156.0  | 161.0  |
| 62.5° | 13.6   | 13.6   | 13.6   | 13.6   | 18.6   | 59.4   | 131.2  | 131.2  | 133.7  |
| 65°   | 12.4   | 11.1   | 11.1   | 11.1   | 16.1   | 52.0   | 110.2  | 109.0  | 111.4  |
| 67.5° | 9.9    | 9.9    | 9.9    | 9.9    | 13.6   | 44.6   | 90.4   | 89.1   | 91.6   |
| 70°   | 8.7    | 8.7    | 8.7    | 8.7    | 11.1   | 37.1   | 73.1   | 71.8   | 74.3   |
| 72.5° | 7.4    | 7.4    | 7.4    | 7.4    | 9.9    | 31.0   | 58.2   | 58.2   | 59.4   |
| 75°   | 6.2    | 6.2    | 6.2    | 6.2    | 8.7    | 23.5   | 47.0   | 47.0   | 48.3   |
| 77.5° | 5.0    | 5.0    | 5.0    | 5.0    | 6.2    | 18.6   | 35.9   | 34.7   | 34.7   |
| 80°   | 2.5    | 3.7    | 3.7    | 3.7    | 5.0    | 13.6   | 26.0   | 23.5   | 23.5   |
| 82.5° | 1.2    | 2.5    | 2.5    | 2.5    | 5.0    | 9.9    | 17.3   | 16.1   | 16.1   |
| 85°   | 1.2    | 1.2    | 1.2    | 3.7    | 5.0    | 7.4    | 11.1   | 11.1   | 11.1   |
| 87.5° | 0.0    | 1.2    | 2.5    | 5.0    | 6.2    | 6.2    | 7.4    | 6.2    | 6.2    |
| 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)