

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: P799665

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDDWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799665  
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: LD6C40D010 EU6409030 6LBMDDWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

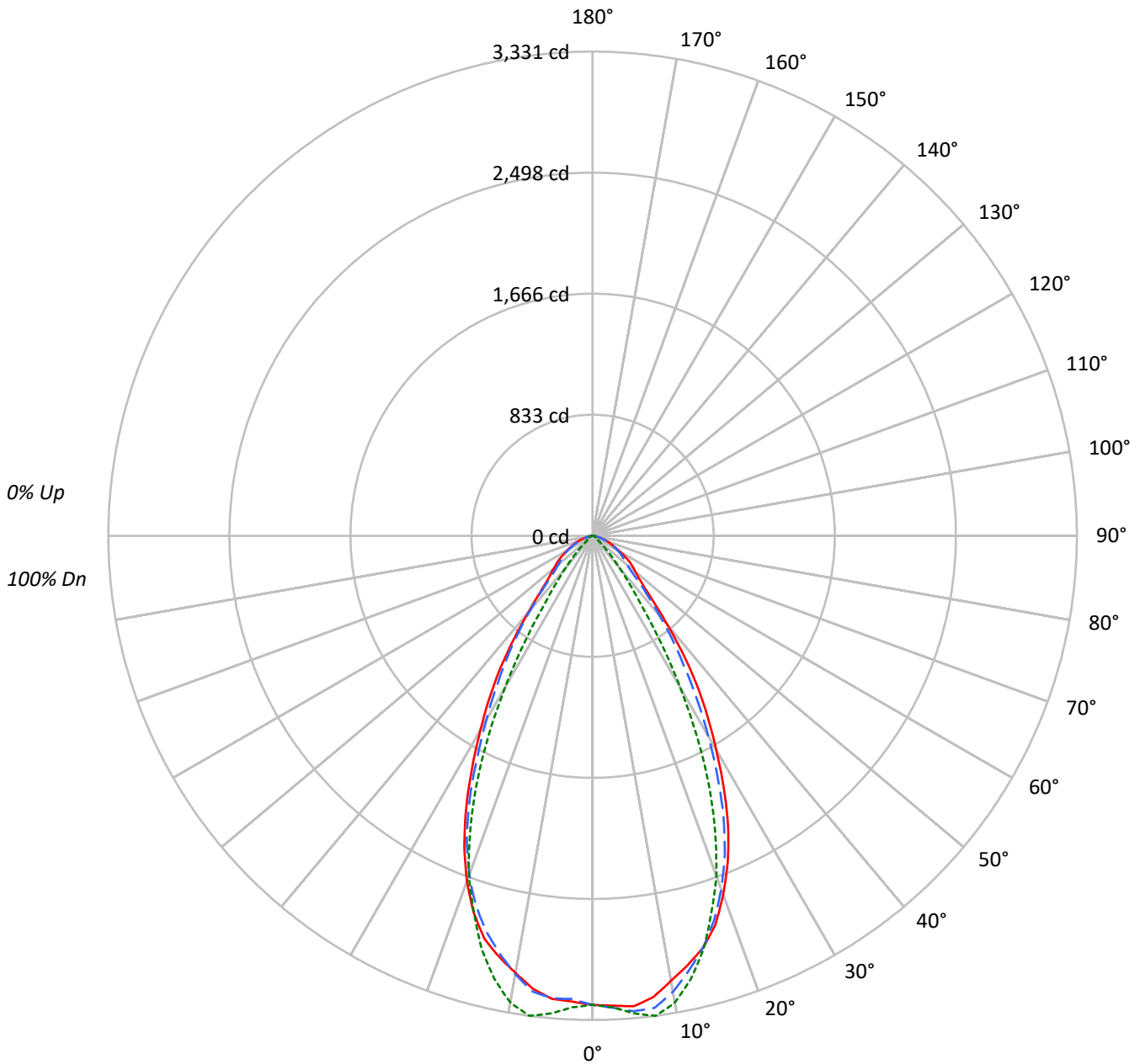
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3286.0 lumens  
Efficiency: N/A  
Efficacy: 69.9 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): 47  
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°  | 176943 | 176943 | 176943 |
| 5°  | 178797 | 181504 | 175996 |
| 10° | 173004 | 181504 | 169987 |
| 15° | 166505 | 167158 | 162969 |
| 20° | 153243 | 145198 | 147497 |
| 25° | 133369 | 114503 | 124235 |
| 30° | 107561 | 76075  | 97585  |
| 35° | 83393  | 39224  | 73287  |
| 40° | 57214  | 20324  | 49342  |
| 45° | 39206  | 10179  | 34624  |
| 50° | 32622  | 4341   | 29688  |
| 55° | 29342  | 3766   | 26522  |
| 60° | 23222  | 3596   | 22136  |
| 65° | 19172  | 3191   | 18951  |
| 70° | 15531  | 2901   | 15531  |
| 75° | 11480  | 3135   | 12179  |
| 80° | 6724   | 2589   | 7261   |
| 85° | 5158   | 3082   | 5158   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 307.2  | 9.4       |
| 10°-20°   | 806.4  | 24.5      |
| 20°-30°   | 920.5  | 28.0      |
| 30°-40°   | 610.4  | 18.6      |
| 40°-50°   | 294.4  | 9.0       |
| 50°-60°   | 181.1  | 5.5       |
| 60°-70°   | 109.6  | 3.3       |
| 70°-80°   | 46.1   | 1.4       |
| 80°-90°   | 10.2   | 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°    | 2034.2 | 61.9      |
| 0°-40°    | 2644.6 | 80.5      |
| 0°-60°    | 3120.1 | 95.0      |
| 0°-90°    | 3286.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3286.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3228 | 3228 | 3228 | 3228 | 3228 |      |
| 5°  | 3249 | 3284 | 3298 | 3193 | 3198 | 305  |
| 15° | 2934 | 2934 | 2945 | 2821 | 2872 | 818  |
| 25° | 2205 | 2131 | 1893 | 2003 | 2054 | 1000 |
| 35° | 1246 | 1098 | 586  | 1024 | 1095 | 771  |
| 45° | 506  | 443  | 131  | 414  | 447  | 412  |
| 55° | 307  | 250  | 39   | 250  | 278  | 270  |
| 65° | 148  | 141  | 25   | 133  | 146  | 148  |
| 75° | 54   | 54   | 15   | 51   | 58   | 58   |
| 85° | 8    | 12   | 5    | 8    | 8    | 10   |
| 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°    | 3227.7 | 3227.7 | 3227.7 | 3227.7 | 3227.7 | 3227.7 | 3227.7 | 3227.7 | 3227.7 |
| 2.5°  | 3235.9 | 3240.9 | 3250.7 | 3252.3 | 3247.4 | 3216.2 | 3190.0 | 3199.8 | 3208.0 |
| 5°    | 3249.1 | 3258.9 | 3283.5 | 3306.5 | 3298.3 | 3245.8 | 3193.2 | 3191.6 | 3198.2 |
| 7.5°  | 3201.5 | 3224.4 | 3275.3 | 3332.8 | 3331.2 | 3240.9 | 3163.7 | 3144.0 | 3144.0 |
| 10°   | 3107.9 | 3129.2 | 3185.0 | 3262.2 | 3260.6 | 3147.3 | 3061.9 | 3052.1 | 3053.7 |
| 12.5° | 3024.1 | 3034.0 | 3061.9 | 3122.6 | 3122.6 | 3011.0 | 2945.3 | 2955.2 | 2968.3 |
| 15°   | 2933.8 | 2940.4 | 2933.8 | 2953.5 | 2945.3 | 2853.4 | 2820.6 | 2851.8 | 2871.5 |
| 17.5° | 2805.8 | 2809.1 | 2774.6 | 2748.3 | 2717.1 | 2659.7 | 2667.9 | 2713.8 | 2718.8 |
| 20°   | 2626.8 | 2648.2 | 2585.8 | 2518.5 | 2488.9 | 2434.7 | 2480.7 | 2531.6 | 2528.3 |
| 22.5° | 2429.8 | 2454.4 | 2374.0 | 2262.4 | 2201.6 | 2180.3 | 2262.4 | 2308.3 | 2306.7 |
| 25°   | 2204.9 | 2223.0 | 2131.0 | 1975.0 | 1893.0 | 1889.7 | 2003.0 | 2050.6 | 2053.9 |
| 27.5° | 1952.1 | 1958.6 | 1855.2 | 1651.6 | 1549.8 | 1574.5 | 1717.3 | 1783.0 | 1791.2 |
| 30°   | 1699.2 | 1695.9 | 1589.2 | 1336.4 | 1201.8 | 1269.1 | 1461.2 | 1533.4 | 1541.6 |
| 32.5° | 1467.7 | 1457.9 | 1336.4 | 1034.3 | 873.4  | 973.6  | 1226.4 | 1301.9 | 1315.1 |
| 35°   | 1246.1 | 1229.7 | 1098.3 | 765.1  | 586.1  | 735.5  | 1024.5 | 1090.1 | 1095.1 |
| 37.5° | 1014.6 | 1006.4 | 903.0  | 573.0  | 408.8  | 558.2  | 835.7  | 883.3  | 878.3  |
| 40°   | 799.5  | 799.5  | 714.2  | 425.2  | 284.0  | 415.4  | 661.6  | 704.3  | 689.5  |
| 42.5° | 627.2  | 635.4  | 563.1  | 313.6  | 201.9  | 308.7  | 523.7  | 563.1  | 546.7  |
| 45°   | 505.7  | 505.7  | 443.3  | 233.1  | 131.3  | 229.8  | 413.7  | 449.8  | 446.6  |
| 47.5° | 428.5  | 421.9  | 359.5  | 170.7  | 72.2   | 172.4  | 348.1  | 392.4  | 390.7  |
| 50°   | 382.5  | 372.7  | 308.7  | 134.6  | 50.9   | 142.8  | 305.4  | 346.4  | 348.1  |
| 52.5° | 346.4  | 331.6  | 277.5  | 119.8  | 44.3   | 124.8  | 277.5  | 310.3  | 310.3  |
| 55°   | 307.0  | 298.8  | 249.5  | 106.7  | 39.4   | 111.6  | 249.5  | 279.1  | 277.5  |
| 57.5° | 259.4  | 257.8  | 223.3  | 96.9   | 36.1   | 98.5   | 223.3  | 241.3  | 234.8  |
| 60°   | 211.8  | 218.4  | 193.7  | 87.0   | 32.8   | 88.7   | 190.4  | 205.2  | 201.9  |
| 62.5° | 177.3  | 185.5  | 169.1  | 77.2   | 27.9   | 78.8   | 160.9  | 175.7  | 172.4  |
| 65°   | 147.8  | 154.3  | 141.2  | 65.7   | 24.6   | 65.7   | 133.0  | 146.1  | 146.1  |
| 67.5° | 121.5  | 126.4  | 116.6  | 54.2   | 21.3   | 54.2   | 108.4  | 119.8  | 121.5  |
| 70°   | 96.9   | 100.1  | 91.9   | 42.7   | 18.1   | 44.3   | 85.4   | 96.9   | 96.9   |
| 72.5° | 75.5   | 77.2   | 72.2   | 34.5   | 16.4   | 34.5   | 65.7   | 75.5   | 75.5   |
| 75°   | 54.2   | 57.5   | 54.2   | 26.3   | 14.8   | 26.3   | 50.9   | 55.8   | 57.5   |
| 77.5° | 31.2   | 39.4   | 39.4   | 21.3   | 11.5   | 19.7   | 36.1   | 37.8   | 37.8   |
| 80°   | 21.3   | 24.6   | 27.9   | 14.8   | 8.2    | 14.8   | 23.0   | 24.6   | 23.0   |
| 82.5° | 14.8   | 16.4   | 16.4   | 9.9    | 6.6    | 9.9    | 14.8   | 16.4   | 14.8   |
| 85°   | 8.2    | 11.5   | 11.5   | 8.2    | 4.9    | 6.6    | 8.2    | 9.9    | 8.2    |
| 87.5° | 4.9    | 6.6    | 8.2    | 6.6    | 4.9    | 4.9    | 4.9    | 4.9    | 3.3    |
| 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)