

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P753469

Luminaire Tested: LD4D75BD010-EU4DR6070959027-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D75BD010-EU4DR6070959027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5495.4 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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: 24 FT

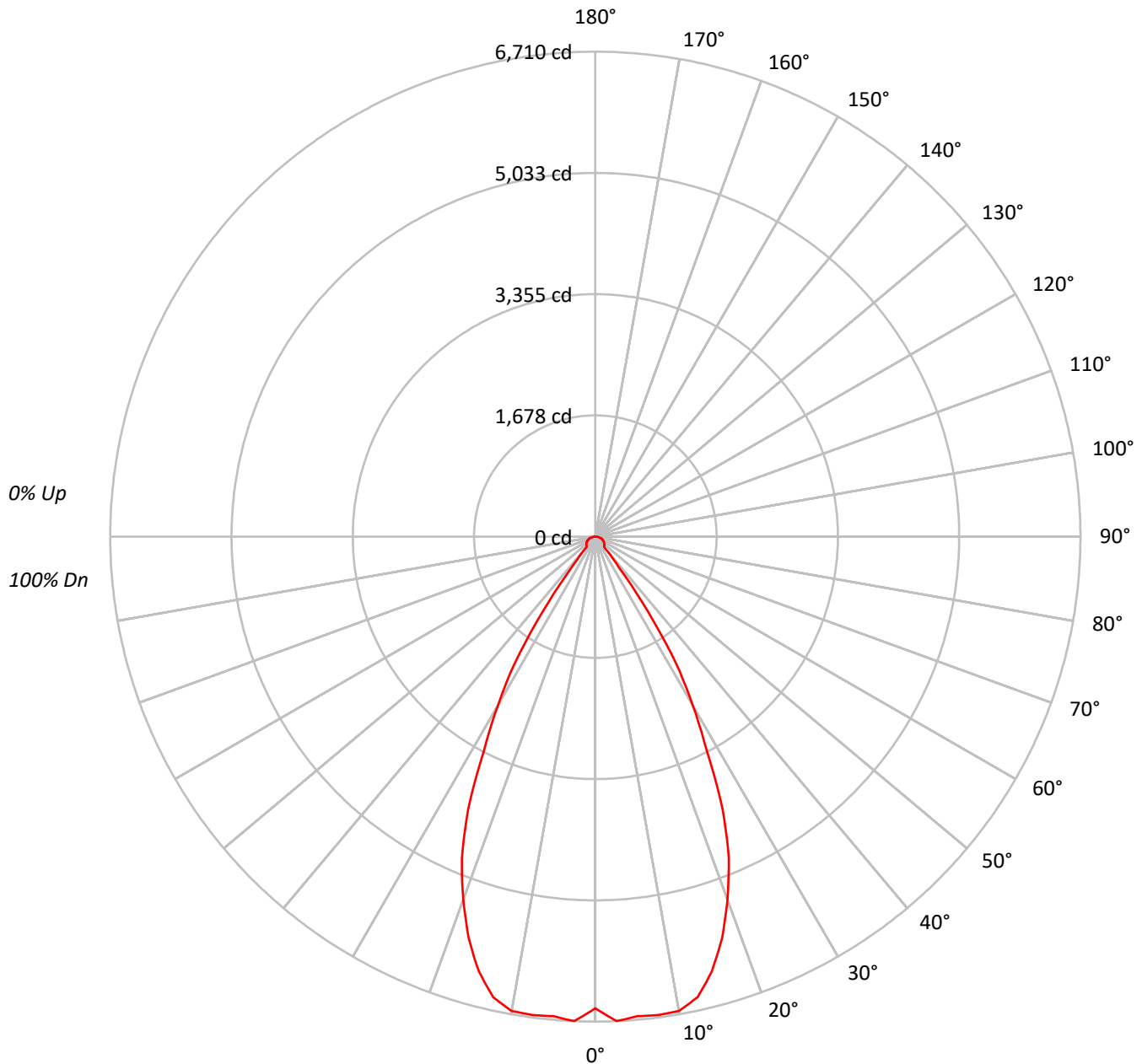


Downlight

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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  |  | 94  | 92  | 90  |  | 92  |
| 3   | 102 | 96  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 88  | 84  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 77  |  | 82  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  |  | 80  | 76  | 72  |  | 78  |
| 6   | 88  | 79  | 73  | 69  | 87  | 78  | 73  | 69  | 77  | 72  | 68  |  | 75  | 71  | 68  |  | 74  |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 68  | 64  | 73  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  |  | 68  | 64  | 60  |  | 67  |
| 9   | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 58  | 54  |  | 62  | 57  | 54  |  | 61  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 713090 |
| 5°  | 730632 |
| 10° | 739457 |
| 15° | 704424 |
| 20° | 621095 |
| 25° | 502356 |
| 30° | 339796 |
| 35° | 170276 |
| 40° | 27627  |
| 45° | 27041  |
| 50° | 27571  |
| 55° | 27983  |
| 60° | 28779  |
| 65° | 29421  |
| 70° | 30125  |
| 75° | 30479  |
| 80° | 29384  |
| 85° | 24446  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 30479 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 636.7  | 11.6      |
| 10°-20°   | 1722.6 | 31.3      |
| 20°-30°   | 1853.4 | 33.7      |
| 30°-40°   | 805.6  | 14.7      |
| 40°-50°   | 135.3  | 2.5       |
| 50°-60°   | 131.6  | 2.4       |
| 60°-70°   | 112.6  | 2.0       |
| 70°-80°   | 75.3   | 1.4       |
| 80°-90°   | 22.5   | 0.4       |
| 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°    | 4212.6 | 76.7      |
| 0°-40°    | 5018.2 | 91.3      |
| 0°-60°    | 5285.1 | 96.2      |
| 0°-90°    | 5495.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5495.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6526 |      |
| 5°  | 6662 | 637  |
| 15° | 6228 | 1723 |
| 25° | 4167 | 1853 |
| 35° | 1277 | 806  |
| 45° | 175  | 135  |
| 55° | 147  | 132  |
| 65° | 114  | 113  |
| 75° | 72   | 75   |
| 85° | 20   | 23   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 6526.5 |
| 2.5°  | 6710.0 |
| 5°    | 6661.6 |
| 7.5°  | 6676.9 |
| 10°   | 6665.0 |
| 12.5° | 6527.4 |
| 15°   | 6227.5 |
| 17.5° | 5824.9 |
| 20°   | 5341.7 |
| 22.5° | 4824.4 |
| 25°   | 4167.0 |
| 27.5° | 3332.9 |
| 30°   | 2693.3 |
| 32.5° | 2075.8 |
| 35°   | 1276.6 |
| 37.5° | 546.1  |
| 40°   | 193.7  |
| 42.5° | 178.4  |
| 45°   | 175.0  |
| 47.5° | 169.0  |
| 50°   | 162.2  |
| 52.5° | 154.6  |
| 55°   | 146.9  |
| 57.5° | 139.3  |
| 60°   | 131.7  |
| 62.5° | 123.2  |
| 65°   | 113.8  |
| 67.5° | 104.5  |
| 70°   | 94.3   |
| 72.5° | 83.2   |
| 75°   | 72.2   |
| 77.5° | 59.5   |
| 80°   | 46.7   |
| 82.5° | 33.1   |
| 85°   | 19.5   |
| 87.5° | 6.8    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)