

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: P753092

Luminaire Tested: LD4D75BD010-EU4DR3570959030-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D75BD010-EU4DR3570959030-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5927.1 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
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

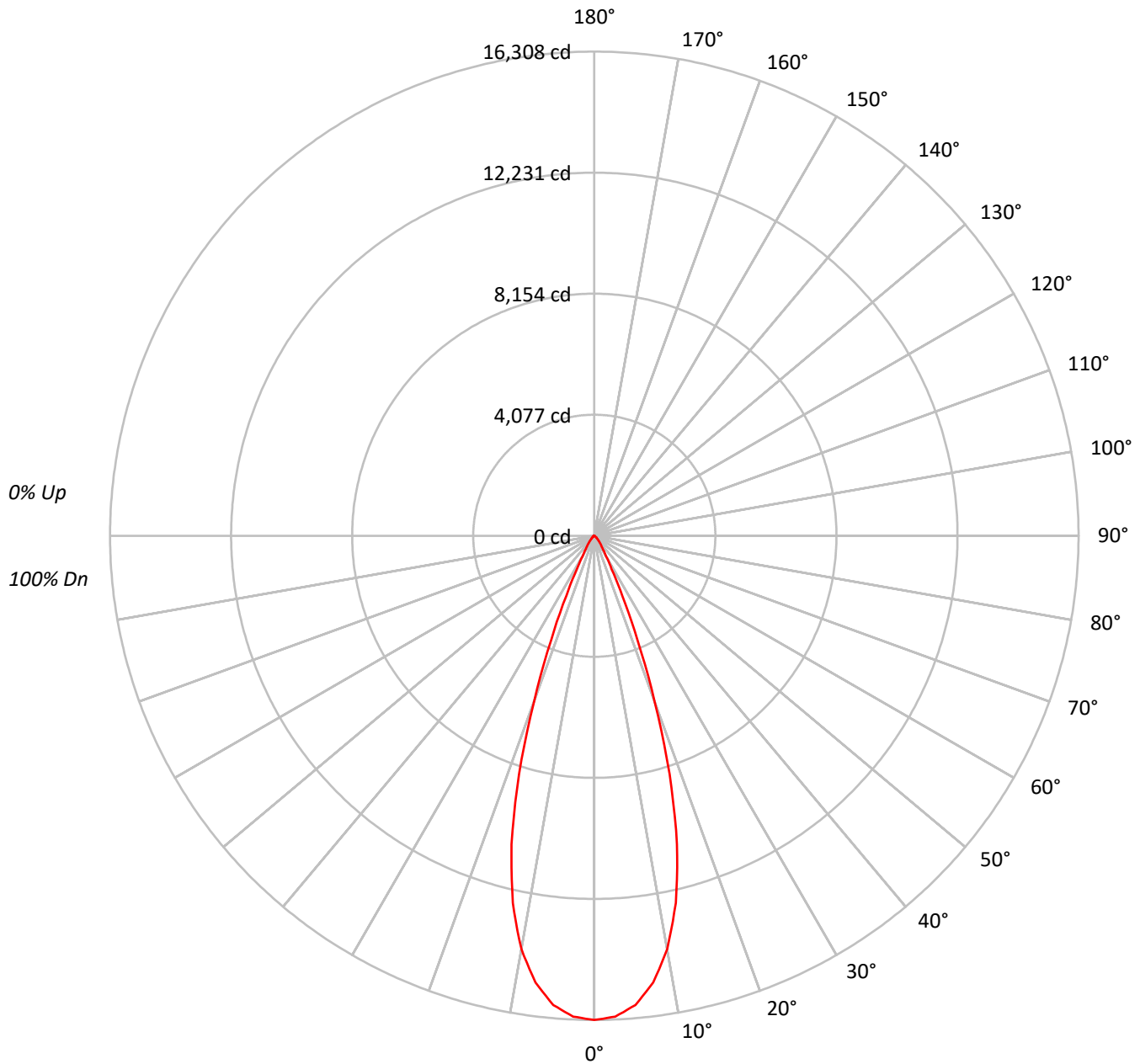


Downlight

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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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 115 | 112 | 110 | 108 |  | 112 | 110 | 108 | 107 |  | 106 | 105 | 103 |  | 103 | 101 | 100 |  | 99  | 98  | 98  |
| 2   | 110 | 106 | 103 | 101 |  | 108 | 105 | 102 | 99  |  | 102 | 99  | 97  |  | 99  | 97  | 95  |  | 96  | 95  | 93  |
| 3   | 106 | 101 | 97  | 94  |  | 105 | 100 | 96  | 93  |  | 97  | 95  | 92  |  | 95  | 93  | 91  |  | 93  | 91  | 89  |
| 4   | 103 | 97  | 92  | 89  |  | 101 | 96  | 92  | 89  |  | 94  | 90  | 88  |  | 92  | 89  | 87  |  | 90  | 88  | 86  |
| 5   | 99  | 93  | 88  | 85  |  | 98  | 92  | 87  | 84  |  | 90  | 86  | 84  |  | 89  | 85  | 83  |  | 87  | 84  | 82  |
| 6   | 96  | 89  | 84  | 81  |  | 94  | 88  | 84  | 81  |  | 87  | 83  | 80  |  | 85  | 82  | 80  |  | 84  | 81  | 79  |
| 7   | 93  | 85  | 81  | 78  |  | 91  | 85  | 80  | 77  |  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  | 79  | 76  |
| 8   | 90  | 82  | 78  | 74  |  | 88  | 82  | 77  | 74  |  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  | 76  | 73  |
| 9   | 87  | 79  | 75  | 72  |  | 86  | 79  | 75  | 72  |  | 78  | 74  | 71  |  | 77  | 74  | 71  |  | 77  | 73  | 71  |
| 10  | 84  | 77  | 72  | 69  |  | 83  | 76  | 72  | 69  |  | 76  | 72  | 69  |  | 75  | 71  | 69  |  | 74  | 71  | 69  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1781879 |
| 5°  | 1740010 |
| 10° | 1568215 |
| 15° | 1217186 |
| 20° | 690370  |
| 25° | 268586  |
| 30° | 100199  |
| 35° | 54927   |
| 40° | 35900   |
| 45° | 21849   |
| 50° | 13904   |
| 55° | 9829    |
| 60° | 7189    |
| 65° | 3904    |
| 70° | 288     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21849 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1459.1 | 24.6      |
| 10°-20°   | 2848.8 | 48.1      |
| 20°-30°   | 1161.8 | 19.6      |
| 30°-40°   | 278.0  | 4.7       |
| 40°-50°   | 115.9  | 2.0       |
| 50°-60°   | 48.0   | 0.8       |
| 60°-70°   | 15.0   | 0.3       |
| 70°-80°   | 0.4    | 0.0       |
| 80°-90°   | 0.2    | 0.0       |
| 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°    | 5469.7 | 92.3      |
| 0°-40°    | 5747.7 | 97.0      |
| 0°-60°    | 5911.6 | 99.7      |
| 0°-90°    | 5927.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5927.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 16308 |      |
| 5°  | 15865 | ###  |
| 15° | 10761 | 2849 |
| 25° | 2228  | 1162 |
| 35° | 412   | 278  |
| 45° | 141   | 116  |
| 55° | 52    | 48   |
| 65° | 15    | 15   |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 16308.5 |
| 2.5°  | 16210.7 |
| 5°    | 15864.7 |
| 7.5°  | 15174.6 |
| 10°   | 14134.9 |
| 12.5° | 12671.0 |
| 15°   | 10760.6 |
| 17.5° | 8424.2  |
| 20°   | 5937.5  |
| 22.5° | 3786.1  |
| 25°   | 2227.9  |
| 27.5° | 1259.4  |
| 30°   | 794.2   |
| 32.5° | 557.6   |
| 35°   | 411.8   |
| 37.5° | 318.4   |
| 40°   | 251.7   |
| 42.5° | 193.9   |
| 45°   | 141.4   |
| 47.5° | 105.8   |
| 50°   | 81.8    |
| 52.5° | 64.9    |
| 55°   | 51.6    |
| 57.5° | 41.8    |
| 60°   | 32.9    |
| 62.5° | 24.0    |
| 65°   | 15.1    |
| 67.5° | 5.3     |
| 70°   | 0.9     |
| 72.5° | 0.9     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.9     |
| 85°   | 0.0     |
| 87.5° | 0.0     |
| 90°   | 0.0     |



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— 0°-180°







(END OF REPORT)