

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: P756114

Luminaire Tested: LD4D95BD010-EU4DR3070959024-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D95BD010-EU4DR3070959024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8142.1 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.2  
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

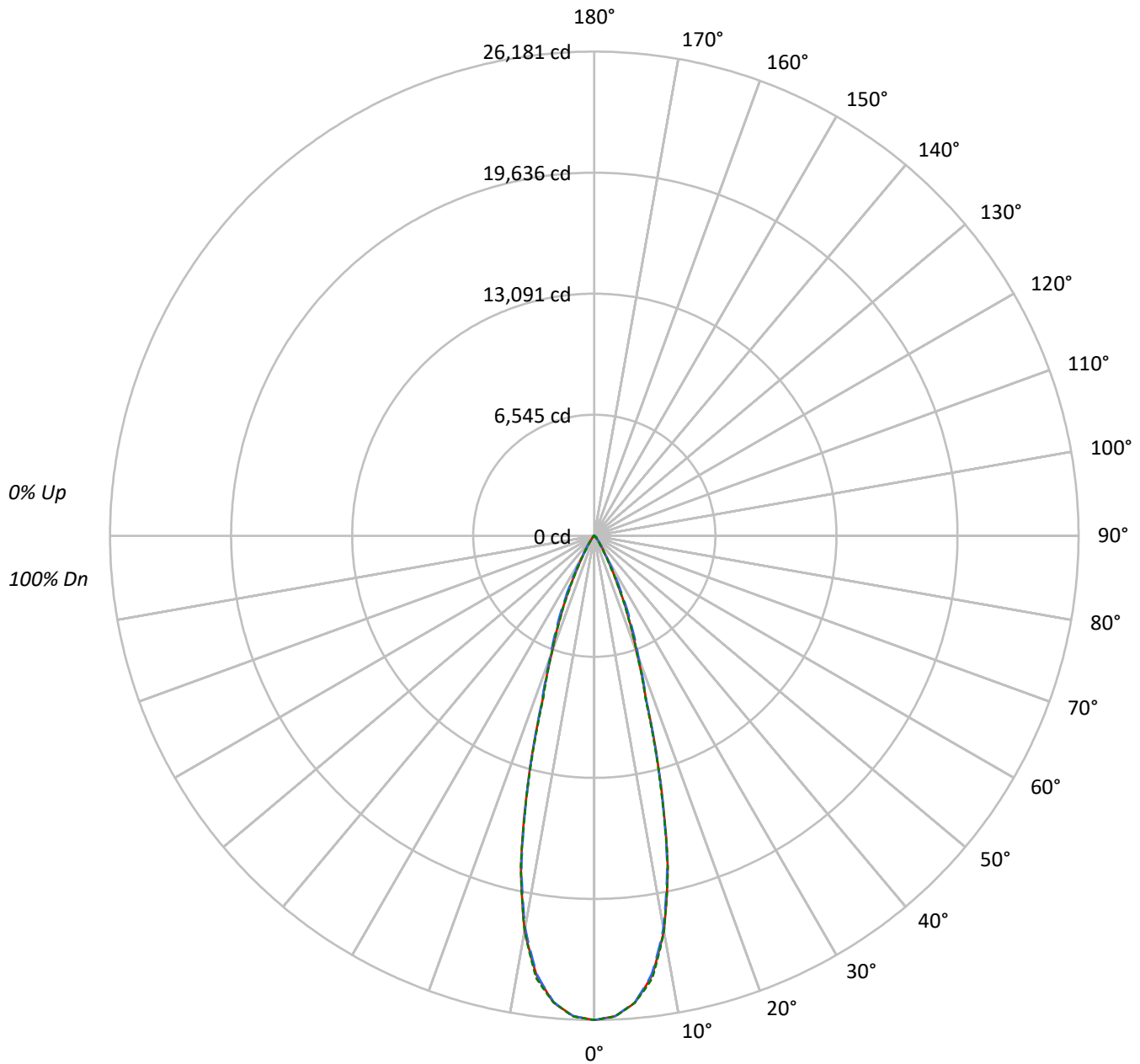


Downlight

TEST NUMBER: P756114

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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  |     |     |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 |    |    |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2003952 | 2003952 | 2003952 |
| 5°  | 1946427 | 1944153 | 1946519 |
| 10° | 1685900 | 1674008 | 1685496 |
| 15° | 1099964 | 1094060 | 1088561 |
| 20° | 546959  | 567486  | 546226  |
| 25° | 275522  | 310698  | 269880  |
| 30° | 110313  | 120194  | 96110   |
| 35° | 51169   | 49001   | 41077   |
| 40° | 22092   | 24530   | 20803   |
| 45° | 15588   | 19344   | 15718   |
| 50° | 5359    | 14087   | 5668    |
| 55° | 3083    | 5832    | 3256    |
| 60° | 2159    | 2557    | 2159    |
| 65° | 1395    | 1395    | 1395    |
| 70° | 873     | 582     | 873     |
| 75° | 0       | 384     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19344 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2302.2 | 28.3      |
| 10°-20°   | 3707.7 | 45.5      |
| 20°-30°   | 1602.2 | 19.7      |
| 30°-40°   | 365.2  | 4.5       |
| 40°-50°   | 125.4  | 1.5       |
| 50°-60°   | 30.6   | 0.4       |
| 60°-70°   | 7.9    | 0.1       |
| 70°-80°   | 0.8    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 7612.1 | 93.5      |
| 0°-40°    | 7977.3 | 98.0      |
| 0°-60°    | 8133.3 | 99.9      |
| 0°-90°    | 8142.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8142.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 26181 | 26181 | 26181 | 26181 | 26181 |      |
| 5°  | 25332 | 25308 | 25303 | 25355 | 25334 | 2304 |
| 15° | 13881 | 13714 | 13806 | 13761 | 13737 | 3717 |
| 25° | 3262  | 3386  | 3679  | 3300  | 3196  | 1562 |
| 35° | 548   | 559   | 524   | 521   | 440   | 371  |
| 45° | 144   | 179   | 179   | 179   | 145   | 102  |
| 55° | 23    | 24    | 44    | 26    | 24    | 23   |
| 65° | 8     | 8     | 8     | 8     | 8     | 8    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 26180.6 | 26180.6 | 26180.6 | 26180.6 | 26180.6 |
| 2.5°  | 26007.1 | 25989.1 | 25999.4 | 26012.2 | 26017.4 |
| 5°    | 25332.3 | 25307.8 | 25302.7 | 25355.4 | 25333.5 |
| 7.5°  | 23971.0 | 23936.3 | 23883.6 | 24003.2 | 24115.0 |
| 10°   | 21690.8 | 21652.2 | 21537.8 | 21594.4 | 21685.6 |
| 12.5° | 18324.4 | 18199.7 | 18197.1 | 18377.1 | 18352.7 |
| 15°   | 13880.8 | 13713.7 | 13806.3 | 13761.3 | 13736.9 |
| 17.5° | 9334.4  | 9270.2  | 9393.6  | 9356.3  | 9195.6  |
| 20°   | 6714.8  | 6731.5  | 6966.8  | 6848.5  | 6705.8  |
| 22.5° | 4899.9  | 4960.3  | 5239.2  | 4934.6  | 4822.7  |
| 25°   | 3262.3  | 3385.7  | 3678.8  | 3299.6  | 3195.5  |
| 27.5° | 2006.5  | 2063.0  | 2360.0  | 1980.8  | 1924.2  |
| 30°   | 1248.1  | 1219.8  | 1359.9  | 1167.1  | 1087.4  |
| 32.5° | 818.8   | 782.8   | 827.8   | 742.9   | 678.7   |
| 35°   | 547.6   | 559.1   | 524.4   | 520.6   | 439.6   |
| 37.5° | 341.9   | 393.3   | 347.1   | 370.2   | 282.8   |
| 40°   | 221.1   | 285.4   | 245.5   | 271.2   | 208.2   |
| 42.5° | 181.2   | 219.8   | 201.8   | 214.7   | 185.1   |
| 45°   | 144.0   | 178.7   | 178.7   | 178.7   | 145.2   |
| 47.5° | 79.7    | 119.5   | 153.0   | 122.1   | 84.8    |
| 50°   | 45.0    | 60.4    | 118.3   | 63.0    | 47.6    |
| 52.5° | 30.8    | 34.7    | 81.0    | 36.0    | 32.1    |
| 55°   | 23.1    | 24.4    | 43.7    | 25.7    | 24.4    |
| 57.5° | 18.0    | 19.3    | 23.1    | 19.3    | 18.0    |
| 60°   | 14.1    | 14.1    | 16.7    | 15.4    | 14.1    |
| 62.5° | 10.3    | 10.3    | 11.6    | 10.3    | 10.3    |
| 65°   | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     |
| 67.5° | 3.9     | 5.1     | 5.1     | 5.1     | 5.1     |
| 70°   | 3.9     | 2.6     | 2.6     | 2.6     | 3.9     |
| 72.5° | 2.6     | 1.3     | 1.3     | 1.3     | 1.3     |
| 75°   | 0.0     | 0.0     | 1.3     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)