

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: P756164

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756164  
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-EU4DR3070959040-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8974.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

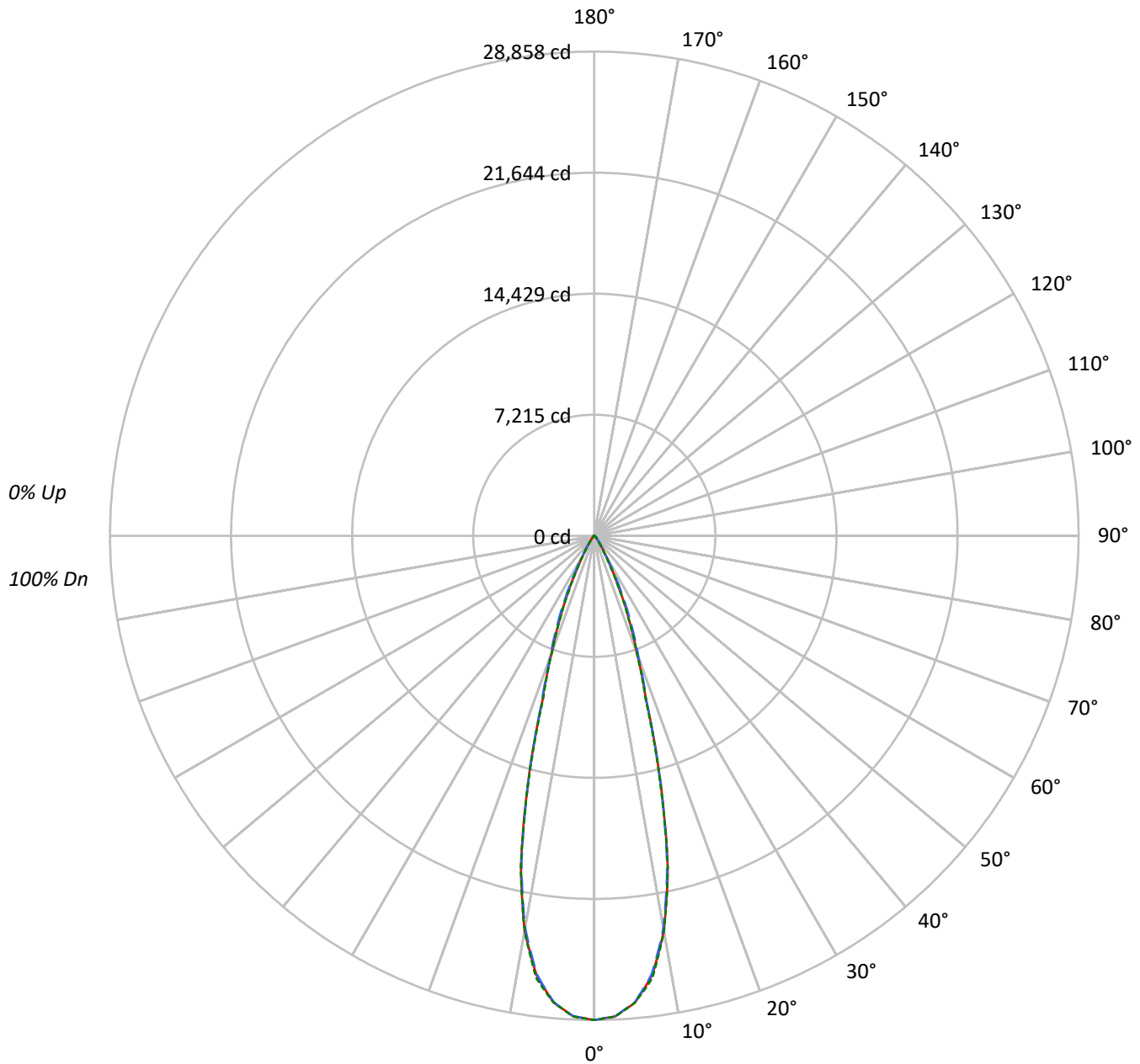


Downlight

TEST NUMBER: P756164

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1B

### Luminous Intensity Polar Plot



TEST NUMBER: P756164

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1B

**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°  | 2208897 | 2208897 | 2208897 |
| 5°  | 2145485 | 2142981 | 2145593 |
| 10° | 1858316 | 1845211 | 1857880 |
| 15° | 1212458 | 1205944 | 1199882 |
| 20° | 602903  | 625523  | 602089  |
| 25° | 303696  | 342470  | 297480  |
| 30° | 121591  | 132489  | 105938  |
| 35° | 56402   | 54019   | 45282   |
| 40° | 24351   | 27038   | 22932   |
| 45° | 17179   | 21314   | 17331   |
| 50° | 5906    | 15516   | 6240    |
| 55° | 3403    | 6432    | 3590    |
| 60° | 2388    | 2817    | 2388    |
| 65° | 1539    | 1539    | 1539    |
| 70° | 962     | 627     | 962     |
| 75° | 0       | 414     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21314 cd/sqm



TEST NUMBER: P756164

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1B

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2537.6 | 28.3      |
| 10°-20°   | 4086.9 | 45.5      |
| 20°-30°   | 1766.0 | 19.7      |
| 30°-40°   | 402.5  | 4.5       |
| 40°-50°   | 138.2  | 1.5       |
| 50°-60°   | 33.8   | 0.4       |
| 60°-70°   | 8.8    | 0.1       |
| 70°-80°   | 0.9    | 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°    | 8390.6 | 93.5      |
| 0°-40°    | 8793.1 | 98.0      |
| 0°-60°    | 8965.0 | 99.9      |
| 0°-90°    | 8974.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8974.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 28858 | 28858 | 28858 | 28858 | 28858 |      |
| 5°  | 27923 | 27896 | 27890 | 27948 | 27924 | 2540 |
| 15° | 15300 | 15116 | 15218 | 15169 | 15142 | 4097 |
| 25° | 3596  | 3732  | 4055  | 3637  | 3522  | 1721 |
| 35° | 604   | 616   | 578   | 574   | 485   | 409  |
| 45° | 159   | 197   | 197   | 197   | 160   | 113  |
| 55° | 26    | 27    | 48    | 28    | 27    | 25   |
| 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     |      |



TEST NUMBER: P756164

CATALOG NUMBER: LD4D95BD010-EU4DR3070959040-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 28858.1 | 28858.1 | 28858.1 | 28858.1 | 28858.1 |
| 2.5°  | 28666.9 | 28647.0 | 28658.4 | 28672.5 | 28678.2 |
| 5°    | 27923.0 | 27896.1 | 27890.4 | 27948.5 | 27924.4 |
| 7.5°  | 26422.6 | 26384.3 | 26326.2 | 26458.0 | 26581.3 |
| 10°   | 23909.1 | 23866.6 | 23740.5 | 23802.9 | 23903.5 |
| 12.5° | 20198.4 | 20061.0 | 20058.2 | 20256.5 | 20229.6 |
| 15°   | 15300.4 | 15116.2 | 15218.2 | 15168.7 | 15141.7 |
| 17.5° | 10289.1 | 10218.2 | 10354.2 | 10313.2 | 10136.1 |
| 20°   | 7401.6  | 7420.0  | 7679.3  | 7548.9  | 7391.6  |
| 22.5° | 5401.0  | 5467.6  | 5775.0  | 5439.2  | 5316.0  |
| 25°   | 3595.9  | 3731.9  | 4055.0  | 3637.0  | 3522.3  |
| 27.5° | 2211.7  | 2274.0  | 2601.3  | 2183.3  | 2121.0  |
| 30°   | 1375.7  | 1344.6  | 1499.0  | 1286.5  | 1198.6  |
| 32.5° | 902.5   | 862.9   | 912.4   | 818.9   | 748.1   |
| 35°   | 603.6   | 616.3   | 578.1   | 573.8   | 484.6   |
| 37.5° | 376.9   | 433.6   | 382.5   | 408.0   | 311.7   |
| 40°   | 243.7   | 314.5   | 270.6   | 299.0   | 229.5   |
| 42.5° | 199.8   | 242.3   | 222.4   | 236.6   | 204.0   |
| 45°   | 158.7   | 196.9   | 196.9   | 196.9   | 160.1   |
| 47.5° | 87.8    | 131.8   | 168.6   | 134.6   | 93.5    |
| 50°   | 49.6    | 66.6    | 130.3   | 69.4    | 52.4    |
| 52.5° | 34.0    | 38.3    | 89.3    | 39.7    | 35.4    |
| 55°   | 25.5    | 26.9    | 48.2    | 28.3    | 26.9    |
| 57.5° | 19.8    | 21.3    | 25.5    | 21.3    | 19.8    |
| 60°   | 15.6    | 15.6    | 18.4    | 17.0    | 15.6    |
| 62.5° | 11.3    | 11.3    | 12.8    | 11.3    | 11.3    |
| 65°   | 8.5     | 8.5     | 8.5     | 8.5     | 8.5     |
| 67.5° | 4.3     | 5.7     | 5.7     | 5.7     | 5.7     |
| 70°   | 4.3     | 2.8     | 2.8     | 2.8     | 4.3     |
| 72.5° | 2.8     | 1.4     | 1.4     | 1.4     | 1.4     |
| 75°   | 0.0     | 0.0     | 1.4     | 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     |



Report Generated By 670245859 / DESKTOP-T8S5UU9







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







(END OF REPORT)